

**DATA PACKAGE
VOLATILE ORGANICS**

PROJECT NAME : US EPA RIVERSIDE INDUSTRIAL PARK SUPERFUND SITE

**WOODARD & CURRAN
800 Westchester Avenue, Suite N507
Suite N507
Rye Brook, NY - 10573
Phone No: 800-807-4080**

**ORDER ID : Q1665
ATTENTION : Bryan Maurer**



Laboratory Certification ID # 20012



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Cover Page

Order ID : Q1665

Project ID : US EPA Riverside Industrial Park Superfund Site

Client : Woodard & Curran

Lab Sample Number

Q1665-01
Q1665-03
Q1665-04
Q1665-06
Q1665-08
Q1665-09
Q1665-10
Q1665-11
Q1665-15
Q1665-18
Q1665-20

Client Sample Number

AA-DUP-1-3242025
IA-B10-2-3242025
AA-1-3242025
IA-B9-1-3242025
IA-DUP-2-3242025
IA-B9-2-3242025
IA-B10-4-3242025
IA-B10-1-3242025
IA-B14-1-3242025
IA-B10-3-3242025
IA-B9-3-3242025

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 :

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 10:58 am, Apr 21, 2025

Date: 4/21/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012



SHIPPING DOCUMENTS

- 1
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Client Contact Information						Bottle Order ID : B2502051				Courier :				_____ of _____ COCs																	
Client ID : WOOD06 Project ID : NYCHHC Environmental Services						Sampler Name(s) : <i>Clyde Hefner</i>				Analysis				Matrix																	
Customer Name : Woodard & Curran Address : 800 Westchester Avenue, Suite N507 Suite N507 City : Rye Brook State : NY Zip Code : 10573 Country :						Project Manager : Stephanie rogacki				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified				TO-15 Indoor/Ambient Air Soil Gas																	
						Phone Number : 800-807-4080																									
						Fax Number : 914-448-0147																									
						Site Details:																									
Analysis Turnaround Time						Data Package Type :																									
Standard : 10 business days OR						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																		
AA-DUP-1-3/24/25	3/24/25	1445	1105	-30	-10	-	-	-30	-8.8	10470 10515	8032 10598	6 L	4.16	VL041974.D	X			X													
Temperature (Fahrenheit) <table border="1"> <tr> <td></td> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> <td></td> </tr> </table>											Ambient	Maximum	Minimum	Start				Stop				16323 GC/MS Analyst Signature (TO-15) <i>Sub</i>									
	Ambient	Maximum	Minimum																												
Start																															
Stop																															
Pressure (Inches of Hg) <table border="1"> <tr> <td></td> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> <td></td> </tr> </table>											Ambient	Maximum	Minimum	Start				Stop				** Submittal of this COC indicates approval of the analysis based on existing conditions. <i>A Hold Pending SSSG</i> Please follow the instructions on the back of this COC.									
	Ambient	Maximum	Minimum																												
Start																															
Stop																															
Special Instructions/QC Requirements & Comments :																															
Suspected Contamination: High Medium Low PID Readings: <i>0.00 ppm</i> Sampling site (State): <i>New Jersey</i>																															
Quick Connector required : <i>NO</i>																															
Canisters Shipped by: <i>Sam</i>					Date/Time: <i>03/24/25</i>					Canisters Received by: <i>[Signature]</i>					Date/Time: _____																
Samples Relinquished by: <i>Sam</i>					Date/Time: <i>3/26/25 0910</i>					Received by: <i>[Signature]</i>					Date/Time: <i>3-26-25 0910</i>																
Relinquished by: <i>[Signature]</i>					Date/Time: <i>3-26-25 1205</i>					Received by: <i>[Signature]</i>					Date/Time: _____																

Client Contact Information						Bottle Order ID : B2502051				Courier :				_____ of _____ COCs			
Client ID : WOOD06 Project ID : NYCHHC Environmental Services						Sampler Name(s) : <i>Clayton Hafner</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 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	
1A-B10-2 3/24/25	3/24/25 3/25/25	1253	1219	29	-7	70	70	-30	-8.4	10815 -40207	2981 10599	6 L	4.16	VL041974.D	X	X	
Temperature (Fahrenheit)										GC/MS Analyst Signature (TO-15) <i>Sust</i>							
		Ambient	Maximum	Minimum													
Start		48°F	60°F														
Stop		42°F	42°F														
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		29.75															
Stop		29.93															
Special Instructions/QC Requirements & Comments :																	
Suspected Contamination: High Medium Low PID Readings: <i>0.3 ppm</i> Sampling site (State): <i>New Jersey</i>																	
Quick Connector required : <i>NO</i>																	
Canisters Shipped by: <i>Sally</i>				Date/Time: <i>03/24/25</i>				Canisters Received by: <i>[Signature]</i>				Date/Time: _____					
Samples Relinquished by: <i>Chen</i>				Date/Time: <i>3/26/25 0910</i>				Received by: <i>[Signature]</i>				Date/Time: <i>3-20-25 0910</i>					
Relinquished by: <i>[Signature]</i>				Date/Time: <i>3-26-25 1215</i>				Received by: <i>[Signature]</i>				Date/Time: _____					

Client Contact Information						Bottle Order ID : B2502051				Courier :				_____ of _____ COCs			
Client ID : WOOD06 Project ID : NYCHHC Environmental Services						Sampler Name(s) : <i>Clayton Kefauver</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						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	
AA-1- 3/24/25	3/24/25 3/25/25	1445	1105	-29	-5	—	—	-30	-7.1	10101 10482	3362 10275	6 L	4.16	VL042078.D	X	X	
Temperature (Fahrenheit)										102.68 GC/MS Analyst Signature (TO-15) <i>[Signature]</i>							
		Ambient	Maximum	Minimum													
Start		51°	60°	48°													
Stop		54°															
Pressure (Inches of Hg)										** Submittal of this COC indicates approval of the analysis based on existing conditions. <i>* Hold Pending Analysis</i> Please follow the instructions on the back of this COC.							
		Ambient	Maximum	Minimum													
Start		29.73															
Stop		29.93															
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>Sum</i>				Date/Time: <i>3/24/25</i>				Canisters Received by: <i>[Signature]</i>				Date/Time: _____					
Samples Relinquished by: <i>[Signature]</i>				Date/Time: <i>3/24/25 0910</i>				Received by: <i>[Signature]</i>				Date/Time: <i>3-26-25 0910</i>					
Relinquished by: <i>[Signature]</i>				Date/Time: <i>3-26-25 1245</i>				Received by: <i>[Signature]</i>				Date/Time: _____					

Client Contact Information				Bottle Order ID : B2502051				Courier :				_____ of _____ COCs																	
Client ID : WOOD06 Project ID : NYCHHC Environmental Services				Sampler Name(s) : <i>Clyde Hahn</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-B9-1-3/24/25	3/24/25	1715	1618	-30	-10	64	65	-30	-120	10204 10558	2926 10592	6 L	4.16	VL042052-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>55</td> <td>60</td> <td>48</td> </tr> <tr> <td>Stop</td> <td>60</td> <td></td> <td></td> </tr> </table>											Ambient	Maximum	Minimum	Start	55	60	48	Stop	60			10198 GC/MS Analyst Signature (TO-15) <i>[Signature]</i>							
	Ambient	Maximum	Minimum																										
Start	55	60	48																										
Stop	60																												
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>29.73</td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td>29.93</td> <td></td> <td></td> </tr> </table>											Ambient	Maximum	Minimum	Start	29.73			Stop	29.93			** 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	29.73																												
Stop	29.93																												
Special Instructions/QC Requirements & Comments :																													
Suspected Contamination: High Medium Low PID Readings: <i>0.03 ppr</i>																													
Sampling site (State): <i>New Jersey</i>																													
Quick Connector required : <i>No</i>																													
Canisters Shipped by: <i>SEM</i>				Date/Time: <i>3/24/25</i>				Canisters Received by: <i>[Signature]</i>				Date/Time: _____																	
Samples Relinquished by: <i>SEM</i>				Date/Time: <i>3/26/25 0910</i>				Received by: <i>[Signature]</i>				Date/Time: <i>3-26-25-0910</i>																	
Relinquished by: <i>[Signature]</i>				Date/Time: <i>3-26-25 1219</i>				Received by: <i>[Signature]</i>				Date/Time: _____																	

Client Contact Information				Bottle Order ID : B2502051				Courier :				_____ of _____ COCs			
Client ID : WOOD06				Project ID : NYCHHC Environmental Services				Sampler Name(s) : <i>Clyde Parker</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 Individual Certified							
				Phone Number : 800-807-4080											
				Fax Number : 914-448-0147											
				Site Details:											
				Analysis Turnaround Time				Data Package Type :							
				Standard : 10 business days OR				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-DUP-2-3/24/25	3/24/25	1715	1618	-30	-7	64	65	-30	-7.5	10207	10053		6 L	4.16	VL042078.D	X		X	

Temperature (Fahrenheit)				
	Ambient	Maximum	Minimum	
Start	55	60	48	GC/MS Analyst Signature (TO-15) <i>[Signature]</i>
Stop	60			

Pressure (Inches of Hg)				
	Ambient	Maximum	Minimum	
Start	29.73			** Submittal of this COC indicates approval of the analysis based on existing conditions. <i>* Hold Pending SOG</i>
Stop	29.93			

Please follow the instructions on the back of this COC.

Special Instructions/QC Requirements & Comments :

Suspected Contamination: High Medium Low PID Readings: *0.03 ppm*

Sampling site (State): *New Jersey*

Quick Connector required : *No*

Canisters Shipped by: <i>Sam</i>	Date/Time: <i>3/24/25</i>	Canisters Received by: <i>[Signature]</i>	Date/Time: <i>3-26-25 0910</i>
Samples Relinquished by: <i>CMH</i>	Date/Time: <i>3-26-25 1215</i>	Received by: <i>[Signature]</i>	Date/Time: <i>3-26-25 0910</i>
Relinquished by: <i>[Signature]</i>	Date/Time: <i>3-26-25 1215</i>	Received by: <i>[Signature]</i>	Date/Time: <i>3-26-25 0910</i>

B2502051 - 24

Client Contact Information						Bottle Order ID : B2502051				Courier : _____				_____ of _____ COCs															
Client ID : WOOD06 Project ID : NYCHHC Environmental Services						Sampler Name(s) : <i>Clyde Steiner</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						EDD Type :																							
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1A-B9-2-3/24/25	3/24/25	1720	1624	-29	-4	64	65	-30	-5.5	10168 10552	10599 10281	6 L	4.16	VL042052.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>55</td> <td>60</td> <td>48</td> </tr> <tr> <td>Stop</td> <td>60</td> <td></td> <td></td> </tr> </table>											Ambient	Maximum	Minimum	Start	55	60	48	Stop	60			GC/MS Analyst Signature (TO-15) <i>[Signature]</i>							
	Ambient	Maximum	Minimum																										
Start	55	60	48																										
Stop	60																												
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	Ambient	Maximum	Minimum																										
Start	29.73																												
Stop	29.93																												
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Special Instructions/QC Requirements & Comments :																													
Suspected Contamination: High Medium Low PID Readings: _____ Sampling site (State): <i>New Jersey</i>																													
Quick Connector required : <i>NO</i>																													
Canisters Shipped by: <i>Sam</i>				Date/Time: <i>03/24/25</i>				Canisters Received by: <i>[Signature]</i>				Date/Time: _____																	
Samples Relinquished by: <i>[Signature]</i>				Date/Time: <i>3/26/25 0910</i>				Received by: <i>[Signature]</i>				Date/Time: <i>3-26-25 0910</i>																	
Relinquished by: <i>[Signature]</i>				Date/Time: <i>3-26-25 1215</i>				Received by: <i>[Signature]</i>				Date/Time: _____																	

Client Contact Information				Bottle Order ID : B2502051				Courier : _____				_____ of _____ COCs																			
Client ID : WOOD06 Project ID : NYCHHC Environmental Services				Sampler Name(s) : <i>Clayton Hultine</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																							
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1A-B10-4- 3/24/25	3/24/25 3/25/25	1308	1229	-29	-5	70	70	-30	-7.1	10172 10168	10492 10053		6 L	4.16	VL041974-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>48°F</td> <td>60°F</td> <td></td> </tr> <tr> <td>Stop</td> <td>42°F</td> <td>42°F</td> <td></td> </tr> </table>											Ambient	Maximum	Minimum	Start	48°F	60°F		Stop	42°F	42°F		GC/MS Analyst Signature (TO-15) <i>Sut</i>									
	Ambient	Maximum	Minimum																												
Start	48°F	60°F																													
Stop	42°F	42°F																													
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>29.75</td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td>29.93</td> <td></td> <td></td> </tr> </table>											Ambient	Maximum	Minimum	Start	29.75			Stop	29.93			** Submittal of this COC indicates approval of the analysis based on existing conditions. <i>X Hold Reading 555G</i> Please follow the instructions on the back of this COC.									
	Ambient	Maximum	Minimum																												
Start	29.75																														
Stop	29.93																														
Special Instructions/QC Requirements & Comments : Suspected Contamination: High Medium Low PID Readings: <i>0.3 ppm</i> Sampling site (State): <i>New Jersey</i> Quick Connector required : <i>NO</i>																															
Canisters Shipped by: <i>Sam</i>				Date/Time: <i>03/25/25</i>				Canisters Received by: <i>[Signature]</i>				Date/Time: _____				B2502051 - 1															
Samples Relinquished by: <i>[Signature]</i>				Date/Time: <i>3/26/25 0910</i>				Received by: <i>[Signature]</i>				Date/Time: <i>3-26-25 0910</i>																			
Relinquished by: <i>[Signature]</i>				Date/Time: <i>3-26-25 1215</i>				Received by: <i>[Signature]</i>				Date/Time: _____																			

Client Contact Information				Bottle Order ID : B2502051				Courier :				_____ of _____ COCs					
Client ID : WOOD06 Project ID : NYCHHC Environmental Services				Sampler Name(s) : <i>Clayton Hefner</i>				Analysis				Matrix					
Customer Name : Woodard & Curran Address : 800 Westchester Avenue, Suite N507 City : Rye Brook State : NY Zip Code : 10573 Country :				Project Manager : Stephanie rogacki				AIR ANALYSIS CHAIN-OF-CUSTODY Individual Certified				TO-15 Indoor/Ambient Air Soil Gas					
				Phone Number : 800-807-4080													
				Fax Number : 914-448-0147													
				Site Details:													
Analysis Turnaround Time				Data Package Type :													
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				
1A-B10 - 1-2/24/25	3/24/25 3/25/25	1248	1212	-23	-5	70	71	-30	-5.5 -6.3	10190 10222	10598 10271	6 L	4.16	VL042052-D	X		X
Temperature (Fahrenheit)										GC/MS Analyst Signature (TO-15) <i>Sut</i>							
		Ambient	Maximum	Minimum													
Start		48°F	60°F														
Stop		42°F	42°F														
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		29.75															
Stop		29.93															
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>Sam</i>				Date/Time: <i>3/24/25</i>				Canisters Received by: <i>[Signature]</i>				Date/Time: _____					
Samples Relinquished by: <i>[Signature]</i>				Date/Time: <i>3/26/25 0910</i>				Received by: <i>[Signature]</i>				Date/Time: <i>3-26-25 0910</i>					
Relinquished by: <i>[Signature]</i>				Date/Time: <i>3-26-25 1219</i>				Received by: <i>[Signature]</i>				Date/Time: _____					

Client Contact Information				Bottle Order ID : B2502051				Courier :				_____ of _____ COCs																
Client ID : WOOD06				Project ID : NYCHHC Environmental Services				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 : 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												
<i>1A-814-1-3/24/25</i>	<i>3/24/25</i>	<i>1357</i>	<i>1245</i>	<i>-30</i>	<i>-5</i>	<i>72</i>	<i>69</i>	<i>-30</i>	<i>-6.3</i>	<i>10505</i>	<i>10266</i>	<i>6 L</i>	<i>4.16</i>	<i>VL042078-D</i>	☒	☒												
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><i>51</i></td> <td><i>60°F</i></td> <td><i>48°F</i></td> </tr> <tr> <td>Stop</td> <td><i>54</i></td> <td></td> <td></td> </tr> </table> GC/MS Analyst Signature (TO-15) <i>Scot</i>											Ambient	Maximum	Minimum	Start	<i>51</i>	<i>60°F</i>	<i>48°F</i>	Stop	<i>54</i>			** Submittal of this COC indicates approval of the analysis based on existing conditions. <i>* Hold Pending 5556</i> Please follow the instructions on the back of this COC.						
	Ambient	Maximum	Minimum																									
Start	<i>51</i>	<i>60°F</i>	<i>48°F</i>																									
Stop	<i>54</i>																											
Special Instructions/QC Requirements & Comments : Suspected Contamination: High Medium Low PID Readings: <i>0.3 ppm</i> Sampling site (State):																												
Quick Connector required : <i>No</i>																												
Canisters Shipped by: <i>Sam</i>				Date/Time: <i>03/24/25</i>				Canisters Received by:				Date/Time:																
Samples Relinquished by: <i>APR</i>				Date/Time: <i>3/26/25 0910</i>				Received by: <i>[Signature]</i>				Date/Time: <i>3-26-25 0910</i>																
Relinquished by: <i>[Signature]</i>				Date/Time: <i>3-26-25 1215</i>				Received by: <i>[Signature]</i>				Date/Time:																

Client Contact Information				Bottle Order ID : B2502051				Courier :				_____ of _____ COCs																
Client ID : WOOD06 Project ID : NYCHHC Environmental Services				Sampler Name(s) : <i>Chytra Hofner</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				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-B10-7-3/24/25	3/24/25	1302	1222	-29	-7.5	70	70	-30	-8.0	10476 10204	10297 10198	6 L	4.16	VL042052-D	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>48°F</td> <td>60°F</td> <td></td> </tr> <tr> <td>Stop</td> <td>42°F</td> <td>42°F</td> <td></td> </tr> </table>											Ambient	Maximum	Minimum	Start	48°F	60°F		Stop	42°F	42°F		GC/MS Analyst Signature (TO-15) <i>Sub</i>						
	Ambient	Maximum	Minimum																									
Start	48°F	60°F																										
Stop	42°F	42°F																										
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>29.75</td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td>29.93</td> <td></td> <td></td> </tr> </table>											Ambient	Maximum	Minimum	Start	29.75			Stop	29.93									
	Ambient	Maximum	Minimum																									
Start	29.75																											
Stop	29.93																											
** Submittal of this COC indicates approval of the analysis based on existing conditions. • Hold Pending SSSG																												
Please follow the instructions on the back of this COC.																												
Special Instructions/QC Requirements & Comments :																												
Suspected Contamination: High Medium Low PID Readings: 0.3 ppm																												
Sampling site (State): <i>New Jersey</i>																												
Quick Connector required : <i>No</i>																												
Canisters Shipped by: <i>Sam</i>				Date/Time: <i>03/24/25</i>				Canisters Received by: <i>[Signature]</i>				Date/Time: _____																
Samples Relinquished by: <i>[Signature]</i>				Date/Time: <i>3/26/25 0910</i>				Received by: <i>[Signature]</i>				Date/Time: <i>3-26-25 0818</i>																
Relinquished by: <i>[Signature]</i>				Date/Time: <i>3-26-25 1215</i>				Received by: <i>[Signature]</i>				Date/Time: _____																

Client Contact Information						Bottle Order ID : B2502051				Courier :				_____ of _____ COCs			
Client ID : WOOD06 Project ID : NYCHHC Environmental Services						Sampler Name(s) : <i>Clyde Hefner</i>				Analysis				Matrix			
Customer Name : Woodard & Curran Address : 800 Westchester Avenue, Suite N507 Suite N507 City : Rye Brook State : NY Zip Code : 10573 Country :						Project Manager : Stephanie rogacki				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified							
						Phone Number : 800-807-4080											
						Fax Number : 914-448-0147											
						Site Details:											
Analysis Turnaround Time						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-B4-3-3/24/15	3/24/15	1722	1627	-29	-4.5	64	65	-30	-5.5	10232 10713	10595 10306	6 L	4.16	VL042052.D	X		
Temperature (Fahrenheit)										GC/MS Analyst Signature (TO-15) <i>[Signature]</i>							
		Ambient	Maximum	Minimum													
Start		55	60	48													
Stop		60															
Pressure (Inches of Hg)										** Submittal of this COC Indicates approval of the analysis based on existing conditions. <i>* Hold Reading 5556</i> Please follow the instructions on the back of this COC.							
		Ambient	Maximum	Minimum													
Start		29.73															
Stop		29.93															
Special Instructions/QC Requirements & Comments :																	
Suspected Contamination: High Medium Low PID Readings: <i>0.00 ppm</i> Sampling site (State): <i>New Jersey</i>																	
Quick Connector required : <i>No</i>																	
Canisters Shipped by: <i>Sam</i>				Date/Time: <i>3/24/15</i>				Canisters Received by: <i>[Signature]</i>				Date/Time: _____					
Samples Relinquished by: <i>COH</i>				Date/Time: <i>3/26/15 6:40</i>				Received by: <i>[Signature]</i>				Date/Time: <i>3-26-25 09:15</i>					
Relinquished by: <i>[Signature]</i>				Date/Time: <i>3-26-25 12:15</i>				Received by: <i>[Signature]</i>				Date/Time: _____					

From: Bryan Maurer <bmaurer@woodardcurran.com>
Sent: Monday, April 14, 2025 10:36 AM
To: Jill Tribley; Yazmeen Gomez; Stephanie Rogacki; Kiran Saleem
Cc: Clayton Hefner
Subject: RE: Summary Report Details For Project US EPA Riverside Industrial Park Superfund Site-Q1725.

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Yazmeen, please keep the -14 and -17 samples on hold...do not discard at this time.
Bryan

Bryan Maurer
Woodard & Curran
770-679-2043 (direct)
412-600-2561 (cell)

From: Jill Tribley <jtribley@woodardcurran.com>
Sent: Monday, April 14, 2025 10:28 AM
To: Yazmeen Gomez <Yazmeen.Gomez@alliancetg.com>; Bryan Maurer <bmaurer@woodardcurran.com>; Stephanie Rogacki <SRogacki@woodardcurran.com>; Kiran Saleem <Kiran.Saleem@alliancetg.com>
Cc: Clayton Hefner <CHefner@woodardcurran.com>
Subject: RE: Summary Report Details For Project US EPA Riverside Industrial Park Superfund Site-Q1725.

The following HOLD sample can be analyzed:
Q1665-15, IA-B14-1-32425

The following two HOLD samples can be discarded:
Q1665-14, IA-B14-2-32425
Q1665-17, IA-B14-3-32425

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



From: Jill Tribley
Sent: Friday, April 11, 2025 11:10 AM
To: Yazmeen Gomez <Yazmeen.Gomez@alliancetg.com>; CHEMTECH-Data@chemtech.net; Bryan Maurer <bmaurer@woodardcurran.com>; Stephanie Rogacki <SRogacki@woodardcurran.com>
Cc: Clayton Hefner <CHefner@woodardcurran.com>
Subject: RE: Summary Report Details For Project US EPA Riverside Industrial Park Superfund Site-Q1725.

Yes! They can be cleaned out, we won't need those.

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



From: Yazmeen Gomez <Yazmeen.Gomez@alliancetg.com>
Sent: Friday, April 11, 2025 11:08 AM
To: Jill Tribley <jtribley@woodardcurran.com>; CHEMTECH-Data@chemtech.net; Bryan Maurer <bmaurer@woodardcurran.com>; Stephanie Rogacki <SRogacki@woodardcurran.com>
Cc: Clayton Hefner <CHefner@woodardcurran.com>
Subject: RE: Summary Report Details For Project US EPA Riverside Industrial Park Superfund Site-Q1725.

To clarify, did you want us to run those two samples, or they are OK to be cleaned out?

As for everything else, sounds good!

Best Regards,



Yazmeen Gomez
Sr. Project Manager
An Alliance Technical Group Company
Main: 908-789-8900
Direct: 908-728-3147
Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com    

From: Jill Tribley <jtribley@woodardcurran.com>
Sent: Friday, April 11, 2025 11:05 AM
To: Yazmeen Gomez <Yazmeen.Gomez@alliancetg.com>; Kiran Saleem <Kiran.Saleem@alliancetg.com>; CHEMTECH-Data@chemtech.net; Bryan Maurer <bmaurer@woodardcurran.com>; Stephanie Rogacki <SRogacki@woodardcurran.com>
Cc: Clayton Hefner <CHefner@woodardcurran.com>
Subject: RE: Summary Report Details For Project US EPA Riverside Industrial Park Superfund Site-Q1725.

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Hi Yazmeen, the following two summa cans can be removed from hold:

Q1665-02 (Sample ID IA-B16-1-32425)
Q1665-13 (Sample ID IA-B16-2-32425)

I am still awaiting instruction on B-14 samples (Q1665-14, -15, and -17) but will have an answer on that on Monday morning.

We are still in discussion on the B2 samples (Q1665-05, -12, -16, -20, -21, and -22). Hold time would be up on those 4/23/25, based on the sample date of 3/24/25, correct?

I believe this covers the remaining HOLD cans, but please correct me if I'm missing any.

Jill D. Tribley, P.G.

412-535-0833



From: Yazmeen Gomez <Yazmeen.Gomez@alliancetg.com>
Sent: Friday, April 11, 2025 10:03 AM
To: Jill Tribley <jtribley@woodardcurran.com>; Kiran Saleem <Kiran.Saleem@alliancetg.com>; CHEMTECH-Data@chemtech.net; Bryan Maurer <bmaurer@woodardcurran.com>; Stephanie Rogacki <SRogacki@woodardcurran.com>
Cc: Clayton Hefner <CHefner@woodardcurran.com>
Subject: RE: Summary Report Details For Project US EPA Riverside Industrial Park Superfund Site-Q1725.

Good morning Jill,

Can we clean out the rest of the Summa Cans that aren't going to be activated? Or do you still need those on hold?

Best Regards,



Yazmeen Gomez
Sr. Project Manager
An Alliance Technical Group Company
Main: 908-789-8900
Direct: 908-728-3147
Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com     

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

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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 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>

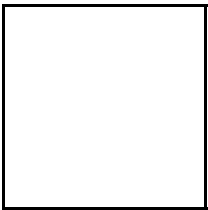
Sent: Thursday, April 10, 2025 1:26 PM

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.

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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.

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From: Yazmeen Gomez
Sent: Tuesday, April 08, 2025 1:33 PM
To: Jill Tribley; Bryan Maurer; Stephanie Rogacki
Cc: Clayton Hefner
Subject: RE: Edd Details For Project US EPA Riverside Industrial Park Superfund Site-Q1669.

Hi Jill,

No problem, Q1665 Samples - 01, 04, 06, 08, 09, and 20. Will be activated.

May I ask when you will know if you will need to run the remaining samples or not? Just so I can let the Air Lab know an estimate on how long these samples will be held.

Best Regards,



Yazmeen Gomez
Sr. Project Manager
An Alliance Technical Group Company
Main: 908-789-8900
Direct: 908-728-3147
Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com     

From: Jill Tribley <jtribley@woodardcurran.com>
Sent: Tuesday, April 8, 2025 1:27 PM
To: Bryan Maurer <bmaurer@woodardcurran.com>; Yazmeen Gomez <Yazmeen.Gomez@alliancetg.com>; Stephanie Rogacki <SRogacki@woodardcurran.com>
Cc: Clayton Hefner <CHefner@woodardcurran.com>
Subject: RE: Edd Details For Project US EPA Riverside Industrial Park Superfund Site-Q1669.

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Hi Yazmeen, see attached marked up sample login for instructions, as well as below:
Please analyze the following samples from the Q1665 batch: -01, -04, -06, -08, -09, and -20.
I'm sorry we missed it before, but can you change the ID on sample -20 to: "IA-B9-3-32435"? (Not B4).
Thank you!
-Jill

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

From: Bryan Maurer <bmaurer@woodardcurran.com>

Sent: Tuesday, April 8, 2025 1:05 PM

To: Yazmeen Gomez <Yazmeen.Gomez@alliancetg.com>; Stephanie Rogacki <SRogacki@woodardcurran.com>; Jill Tribley <jtribley@woodardcurran.com>

Subject: RE: Edd Details For Project US EPA Riverside Industrial Park Superfund Site-Q1669.

Sorry Yazmeen, I meant to sent this to Jill, not you.

Jill, please see below and let Yazmeen know what we want to run.

Bryan

Bryan Maurer

Woodard & Curran

770-679-2043 (direct)

412-600-2561 (cell)

From: Bryan Maurer

Sent: Tuesday, April 8, 2025 1:04 PM

To: Yazmeen Gomez <Yazmeen.Gomez@alliancetg.com>; Stephanie Rogacki <SRogacki@woodardcurran.com>

Subject: RE: Edd Details For Project US EPA Riverside Industrial Park Superfund Site-Q1669.

Jill,

Let's go ahead and run the next set of Bldg 9 samples. Keep the Bldg 16 samples on hold for now.

Bryan

Bryan Maurer

Woodard & Curran

770-679-2043 (direct)

412-600-2561 (cell)

From: Jill Tribley <jtribley@woodardcurran.com>

Sent: Tuesday, April 8, 2025 12:26 PM

To: Yazmeen Gomez <Yazmeen.Gomez@alliancetg.com>; Bryan Maurer <bmaurer@woodardcurran.com>; Stephanie Rogacki <SRogacki@woodardcurran.com>

Subject: RE: Edd Details For Project US EPA Riverside Industrial Park Superfund Site-Q1669.

We are awaiting client buy-in to our recommendations. As soon as we hear back, we will let you know.

Jill D. Tribley, P.G.

412-535-0833

From: Yazmeen Gomez <Yazmeen.Gomez@alliancetg.com>

Sent: Tuesday, April 8, 2025 11:55 AM

To: Bryan Maurer <bmaurer@woodardcurran.com>; Jill Tribley <jtribley@woodardcurran.com>; Stephanie Rogacki <SRogacki@woodardcurran.com>

Subject: RE: Edd Details For Project US EPA Riverside Industrial Park Superfund Site-Q1669.

Please let me know if you will need to activate or disregard samples based off results.

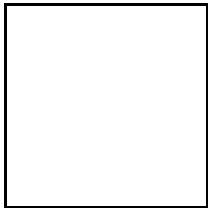
Thank you!

Best Regards,



Yazmeen Gomez
Sr. Project Manager
An Alliance Technical Group Company
Main: 908-789-8900
Direct: 908-728-3147
Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com    

From: CHEMTECH-Data@chemtech.net <CHEMTECH-Data@chemtech.net>
Sent: Tuesday, April 8, 2025 11:39 AM
To: bmaurer@woodardcurran.com; jtribley@woodardcurran.com; srogacki@woodardcurran.com
Subject: Edd Details For Project US EPA Riverside Industrial Park Superfund Site-Q1669.



To Bryan Maurer;

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

Order ID : Q1669
Project ID : US EPA Riverside Industrial Park Superfund Site
Download File : <https://chemtech.net/secureLogin.aspx>
Order Date : 3/27/2025 2:02:00 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.

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From: Stephanie Rogacki <SRogacki@woodardcurran.com>
Sent: Thursday, March 27, 2025 5:08 PM
To: Yazmeen Gomez; Jill Tribley; Jordan Hedvat
Cc: Bryan Maurer; Kiran Saleem
Subject: Re: Sample Updates Request

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Very understandable, let's avoid the system crashes and report as is. Thank you!

Best regards,
Steph

Stephanie Rogacki, MS, CSM

Environmental Scientist 3 | she/her



📞 [914.460.5641](tel:914.460.5641) 📠 [201.774.0238](tel:201.774.0238) 🌐 woodardcurran.com

✉️ srogacki@woodardcurran.com

📍 [800 Westchester Avenue, Suite N507, Rye Brook, NY 10573](#)



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From: Yazmeen Gomez <Yazmeen.Gomez@alliancetg.com>
Sent: Thursday, March 27, 2025 5:02 PM
To: Stephanie Rogacki <SRogacki@woodardcurran.com>; Jill Tribley <jtribley@woodardcurran.com>; Jordan Hedvat <Jordan.Hedvat@AllianceTG.com>

Cc: Bryan Maurer <bmaurer@woodardcurran.com>; Kiran Saleem <Kiran.Saleem@alliancetg.com>

Subject: RE: Sample Updates Request

We try to avoid certain characters in project names and sample IDs because it causes the system to crash or cause errors sometimes.

I can use “-“ but “/” will likely cause an issue once QA/QC try’s to upload the data.

Best Regards,



Yazmeen Gomez

Sr. Project Manager

An Alliance Technical Group Company

Main: 908-789-8900

Direct: 908-728-3147

Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092

www.alliancetg.com   

From: Stephanie Rogacki <SRogacki@woodardcurran.com>

Sent: Thursday, March 27, 2025 5:00 PM

To: Yazmeen Gomez <Yazmeen.Gomez@alliancetg.com>; Jill Tribley <jtribley@woodardcurran.com>; Jordan Hedvat <Jordan.Hedvat@AllianceTG.com>

Cc: Bryan Maurer <bmaurer@woodardcurran.com>; Kiran Saleem <Kiran.Saleem@alliancetg.com>

Subject: Re: Sample Updates Request

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Confirmed.

And does the system not allow for the format with the following: IA-B9-3-3/24/2025 with the slashes or can the report/EDD still detail the sample IDs like this?

Best regards,
Steph

Stephanie Rogacki, MS, CSM

Environmental Scientist 3 | she/her





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From: Yazmeen Gomez
Sent: Thursday, March 27, 2025 4:57 PM
To: Jill Tribley; Stephanie Rogacki; Jordan Hedvat
Cc: Bryan Maurer
Subject: RE: Sample Updates Request

Its B-9 in our system – for some reason its not changing on the login summary. Please see attached.

Best Regards,



Yazmeen Gomez
Sr. Project Manager
An Alliance Technical Group Company
Main: 908-789-8900
Direct: 908-728-3147
Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com   

From: Jill Tribley <jtribley@woodardcurran.com>
Sent: Thursday, March 27, 2025 4:52 PM
To: Yazmeen Gomez <Yazmeen.Gomez@alliancetg.com>; Stephanie Rogacki <SRogacki@woodardcurran.com>; Jordan Hedvat <Jordan.Hedvat@AllianceTG.com>
Cc: Bryan Maurer <bmaurer@woodardcurran.com>
Subject: RE: Sample Updates Request

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Thank you! I still see Q1665-20 listed with B4, full corrected sample ID should be IA-B9-3-3242025

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



From: Yazmeen Gomez <Yazmeen.Gomez@alliancetg.com>
Sent: Thursday, March 27, 2025 4:49 PM
To: Stephanie Rogacki <SRogacki@woodardcurran.com>; Jordan Hedvat <Jordan.Hedvat@AllianceTG.com>
Cc: Jill Tribley <jtribley@woodardcurran.com>; Bryan Maurer <bmaurer@woodardcurran.com>
Subject: RE: Sample Updates Request

Stephanie,

Just resent all of the updated login summaries.

Best Regards,



Yazmeen Gomez
Sr. Project Manager
An Alliance Technical Group Company
Main: 908-789-8900
Direct: 908-728-3147
Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com   

From: Stephanie Rogacki <SRogacki@woodardcurran.com>
Sent: Thursday, March 27, 2025 4:34 PM
To: Yazmeen Gomez <Yazmeen.Gomez@alliancetg.com>; Jordan Hedvat <Jordan.Hedvat@alliancetg.com>
Cc: Jill Tribley <jtribley@woodardcurran.com>; Bryan Maurer <bmaurer@woodardcurran.com>
Subject: Fw: Sample Updates Request

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Correction below in red (should have been Q1669 not Q1665) and also:
Please correct B4 to B9 in Q1665-20 from group Q1665.

Best regards,

Steph

**Stephanie Rogacki, MS,
CSM**

Environmental Scientist 3| she/her



📞 914.460.5641 📠 201.774.0238 🌐 woodardcurran.com

✉️ srogacki@woodardcurran.com

📍 [800 Westchester Avenue, Suite N507, Rye Brook, NY
10573](#)



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From: Stephanie Rogacki
Sent: Thursday, March 27, 2025 4:27 PM
To: Yazmeen Gomez; Jill Tribley; Jordan Hedvat
Cc: Bryan Maurer; Clayton Hefner; Kiran Saleem
Subject: Re: Sample Updates Request

Hi Yazmeen,

A couple more things:

- Please use the "mm/dd/yyyy" format for all sample IDs.
- Please change the 2 digit year to the 4 digit year. For instance, where it was documented on the COC, as "3/25/25" please change these to "3/25/2025"

Q1669:

- AA-1-3/25/25 should be AA-2-3/25/2025
- AA-1-3/26/25 should be AA-3-3/25/2025

Could you confirm the reporting compound list is the same as the list attached for LLTO-15?

Also could you make sure to include me on distributions from this email: Data-EWR@alliancetg.com

Thank you!

Best regards,
Steph

Stephanie Rogacki, MS, CSM

Environmental Scientist 3 | she/her



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✉️ srogacki@woodardcurran.com

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From: Stephanie Rogacki

Sent: Thursday, March 27, 2025 3:10 PM

To: Yazmeen Gomez; Jill Tribley; Jordan Hedvat

Cc: Bryan Maurer; Clayton Hefner; Kiran Saleem

Subject: Re: Sample Updates Request

Hi Yazmeen,

I am answering on Jill's behalf. Thank you for checking with us.

Please analyze all samples listed in Q1669.

Additionally, please change AA-1-3/26/25 ID to AA-2-3/26/25; please also analyze this.

Best regards,

Steph

Stephanie Rogacki, MS, CSM

Environmental Scientist 3 | she/her



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✉️ srogacki@woodardcurran.com

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From: Yazmeen Gomez
Sent: Thursday, March 27, 2025 2:29 PM
To: Jill Tribley; Stephanie Rogacki; Jordan Hedvat
Cc: Bryan Maurer; Clayton Hefner; Kiran Saleem
Subject: RE: Sample Updates Request

Jill,

Please see attached – just confirming Q1668 are all on hold per COC and Q1669 are OK to analyze (no mention of hold on COC).

There is a few of Indoor and two Ambient air samples that don't mention a hold that I've logged into Q1669. Let me know if any of those need to be on hold.

Best Regards,



Yazmeen Gomez
Sr. Project Manager
An Alliance Technical Group Company
Main: 908-789-8900
Direct: 908-728-3147
Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com     

From: Jill Tribley <jtribley@woodardcurran.com>
Sent: Thursday, March 27, 2025 1:28 PM
To: Yazmeen Gomez <Yazmeen.Gomez@alliancetg.com>; Stephanie Rogacki <SRogacki@woodardcurran.com>; Jordan Hedvat <Jordan.Hedvat@AllianceTG.com>
Cc: Bryan Maurer <bmaurer@woodardcurran.com>; Clayton Hefner <CHefner@woodardcurran.com>; Kiran Saleem <Kiran.Saleem@alliancetg.com>
Subject: RE: Sample Updates Request

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Hi Yazmeen, this will be standard TAT.

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



From: Yazmeen Gomez <Yazmeen.Gomez@alliancetg.com>
Sent: Thursday, March 27, 2025 1:14 PM
To: Jill Tribley <jtribley@woodardcurran.com>; Stephanie Rogacki <SRogacki@woodardcurran.com>; Jordan Hedvat <Jordan.Hedvat@AllianceTG.com>
Cc: Bryan Maurer <bmaurer@woodardcurran.com>; Clayton Hefner <CHefner@woodardcurran.com>; Kiran Saleem <Kiran.Saleem@alliancetg.com>
Subject: RE: Sample Updates Request

Jill,

Can you confirm the TAT? The lab wants to know if you need anything expediated for Tuesday or Wednesday results?

Best Regards,



Yazmeen Gomez
Sr. Project Manager
An Alliance Technical Group Company
Main: 908-789-8900
Direct: 908-728-3147
Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com     

From: Jill Tribley <jtribley@woodardcurran.com>
Sent: Thursday, March 27, 2025 12:15 PM
To: Yazmeen Gomez <Yazmeen.Gomez@alliancetg.com>; Stephanie Rogacki <SRogacki@woodardcurran.com>; Jordan Hedvat <Jordan.Hedvat@AllianceTG.com>
Cc: Bryan Maurer <bmaurer@woodardcurran.com>; Clayton Hefner <CHefner@woodardcurran.com>; Kiran Saleem <Kiran.Saleem@alliancetg.com>
Subject: RE: Sample Updates Request

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Hello Yazmeen and Kiran,
I have the info for the (14) 6L Summas we need on Monday:

- (5) 6L Summa canisters with regulators for a 24-hour sampling period
- (4) 6L Summa canisters with 100 ml/min regulators
- (3) 6L Summa canisters with 200 ml/min regulators
- (2) 6L Summa canisters with 70 ml/min regulators

One of our folks can pick these up at 11 am at the lab.
We will be submitting these samples mid-next week.
A batch of samples and the unused 1.4 L canisters will be dropped off at the lab this afternoon.
Please confirm you can still accommodate this.
Thank you!
-Jill

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



From: Yazmeen Gomez <Yazmeen.Gomez@alliancetg.com>
Sent: Wednesday, March 26, 2025 1:21 PM
To: Jill Tribley <jtribley@woodardcurran.com>; Stephanie Rogacki <SRogacki@woodardcurran.com>; Jordan Hedvat <Jordan.Hedvat@AllianceTG.com>
Cc: Bryan Maurer <bmaurer@woodardcurran.com>; Clayton Hefner <CHefner@woodardcurran.com>; Kiran Saleem

<Kiran.Saleem@alliancetg.com>

Subject: RE: Sample Updates Request

Jill,

I spoke with Mohammad he mentioned we can provide 14 Cans on Friday – if you wanted them all to be 200ml/min or to switch them up?

Also, for the sampling team – each Summa Can belongs to a specific Chain of Custody. Looks like the sampler was just crossing out things on our COC instead of keeping the coordinated Chain and Summa Can together which causes confusion in the lab. If you can just have the samplers keep the Chain and related Summa Can together, the same way they are packages when delivered.

Best Regards,



Yazmeen Gomez
Sr. Project Manager
An Alliance Technical Group Company
Main: 908-789-8900
Direct: 908-728-3147
Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com     

From: Jill Tribley <jtribley@woodardcurran.com>

Sent: Wednesday, March 26, 2025 12:49 PM

To: Yazmeen Gomez <Yazmeen.Gomez@alliancetg.com>; Stephanie Rogacki <SRogacki@woodardcurran.com>; Jordan Hedvat <Jordan.Hedvat@AllianceTG.com>

Cc: Bryan Maurer <bmaurer@woodardcurran.com>; Clayton Hefner <CHefner@woodardcurran.com>

Subject: RE: Sample Updates Request

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Hi Yazmeen,

Can we get another pickup mid day tomorrow? Would you be able to bring the 24 hour IA and AA canisters at that time?

The canisters and associated regulators are for 1.4 liter canisters. We requested and require 6 liter canisters for this project. When can you get the correct canisters and regulators on site?

Jill D. Tribley, P.G.

412-535-0833



From: Yazmeen Gomez <Yazmeen.Gomez@alliancetg.com>
Sent: Wednesday, March 26, 2025 12:01 PM
To: Stephanie Rogacki <SRogacki@woodardcurran.com>; Jordan Hedvat <Jordan.Hedvat@AllianceTG.com>
Cc: Jill Tribley <jtribley@woodardcurran.com>; Bryan Maurer <bmaurer@woodardcurran.com>
Subject: RE: Sample Updates Request

Hi Stephanie,

Please see below responses in RED.

Best Regards,



Yazmeen Gomez
Sr. Project Manager
An Alliance Technical Group Company
Main: 908-789-8900
Direct: 908-728-3147
Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com   

From: Stephanie Rogacki <SRogacki@woodardcurran.com>
Sent: Wednesday, March 26, 2025 11:54 AM
To: Yazmeen Gomez <Yazmeen.Gomez@alliancetg.com>; Jordan Hedvat <Jordan.Hedvat@alliancetg.com>
Cc: Jill Tribley <jtribley@woodardcurran.com>; Bryan Maurer <bmaurer@woodardcurran.com>
Subject: Sample Updates Request

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Hi Yazmeen/Jordan,

1. When is the next pickup / drop off scheduled for? **We currently do not have another pick up / drop off scheduled after today. Last we spoke you mentioned you weren't sure if you'd need additional cans. And you'd reach out once you've coordinated with the field teams to schedule the pickups.**
2. We will need 7 more 24 hour samples - 6 IA and 1 AA **When do you need these by?**
3. The name of this project is Riverside Superfund Site not "NYCHHC Environmental Services" **Noted**
4. The PM for this project is Bryan Maurer not me. He is copied here. Please update him for project notes. **Noted**
5. Please copy both Bryan and Jill (copied) on results and acknowledgments, and all other correspondence regarding this project. **Noted**

Best regards,
Steph

Stephanie Rogacki, MS, CSM

Environmental Scientist 3| she/her



 [914.460.5641](tel:914.460.5641)  [201.774.0238](tel:201.774.0238)  woodardcurran.com

 srogacki@woodardcurran.com

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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: Chemtech

Location: 284 Sheffield Street, Mountainside, NJ 7092

~~QA68:~~

Title: Sample Custodian

Field Sample Seal No.: Q1665

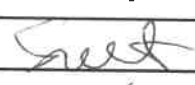
Date Broken: 3/26/2025

Military Time Seal Broken: 09:10:00

Case No.: US EPA Riverside Industria

Analytical Parameter/Fraction: TO-15

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
Q1665-01	AA-DUP-1-32425	Q1665-11	IA-B10-1-32425
Q1665-02	IA-B10-1-32425	Q1665-12	IA-B2-0-32425
Q1665-03	IA-B10-2-32425	Q1665-13	IA-B10-2-32425
Q1665-04	AA-1-32425	Q1665-14	IA-B14-2-32425
Q1665-05	IA-B2-0-32425	Q1665-15	IA-B14-1-32425
Q1665-06	IA-B9-1-32425	Q1665-16	IA-B2-5-32425
Q1665-07	IA-DUP-1-32425	Q1665-17	IA-B14-3-32425
Q1665-08	IA-DUP-2-32425	Q1665-18	IA-B10-3-32425
Q1665-09	IA-B9-2-32425	Q1665-19	IA-B2-2-32425
Q1665-10	IA-B10-4-32425	Q1665-20	IA-B9-3-32425

Date	Time	Relinquished By	Received By	Purpose of Change of Custody
3-27-25	12:40	Signature 	Signature 	
		Printed Name <u>Cassandra Penco</u>	Printed Name <u>Cassandra Penco</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: A 255971

Date	Sample Number	Canister #	Initial Pressure psia	Initial Pressure Hg	Final Pressure psia	Final Pressure Hg	Dilution Factor	Comment
03/26/25	Q1665-01	10323	10.4	-8.8				sy
	Q1665-02	10443	13.0	-3.5				
	Q1665-03	10154	10.6	-8.4				
	Q1665-04	10268	11.2	-7.1				
	Q1665-05	10281	10.8	-8.0				
	Q1665-06	10198	8.8	-12.0				
	Q1665-07	10592	11.4	-6.7				
	Q1665-08	10053	11.0	-7.5				
	Q1665-09	10599	12.0	-5.5				
	Q1665-10	10492	11.2	-7.1				
	Q1665-11	10598	11.6	-6.3				
	Q1665-12	10271	8.0	-13.7				
	Q1665-13	10315	13.8	-1.8				
	Q1665-14	10275	11.2	-7.1				
	Q1665-15	10266	11.6	-6.3				
	Q1665-16	10608	10.8	-8.0				
	Q1665-17	10294	11.4	-6.7				
	Q1665-18	10297	10.4	-8.0				
	Q1665-19	10331	10.8	-8.0				
	Q1665-20	10595	12.0	-5.5				
	Q1665-21	10332	11.0	-7.5				

Analyst Signature:

Supervisor Signature:

METHOD: TO-15

Pressure Gauge ID: _____

Document Control # A3041228

10323
-8.8

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

CHEMTECH

Client Sample ID #: AA-DUP-3/24/15
 Client Name: Woodford & Curran
 Project Name: PP6 Riverside
 Date: 3/24/15 Time: Site at 11:05 on 3/25/15
 Analysis: _____
 Comments: _____
 Date Received: _____

Storage Location: Air Lab
 Sample: Q1665-01
 Cust #: AA-DUP-1-32425

B250205-1

10168
-12.0

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

CHEMTECH

Client Sample ID #: IA-B9-1-3/24/15
 Client Name: Woodford & Curran
 Project Name: PP6 R. West
 Date: 3/24/15 Time: 1618
 Analysis: _____
 Comments: _____
 Date Received: _____

Storage Location: Air Lab
 Sample: Q1665-06
 Cust #: IA-B9-1-32425

B250205-1

10323
-8.8

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

CHEMTECH

Client Sample ID #: AA-1-3/24/15
 Client Name: Woodford & Curran
 Project Name: PP6 Riverside
 Date: 3/24/15 Time: 11:05 on 3/25/15
 Analysis: To +15
 Comments: _____
 Date Received: _____

Storage Location: Air Lab
 Sample: Q1665-04
 Cust #: AA-1-32425

B250205-1

1053
7.5

Client Sample ID #: IA-B4-2-3/24/25
 Client Name: Woodward & Clyde
 Project Name: PPG River Side
 Date: 3/25/25
 Analysis: TO-15
 Comments: _____
 CHEMTECH'S _____
 Date Received: _____
 Storage Location: Air Lab
 Sample: Q1665-08
 Cust #: IA-DUP-2-32425

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

B2502051

6650
15.5

Client Sample ID #: IA-B9-2-3/24/25
 Client Name: Woodward & Clyde
 Project Name: PPG
 Date: 3/24/25
 Analysis: TO-15
 Comments: _____
 CHEMTECH'S _____
 Date Received: _____
 Storage Location: Air Lab
 Sample: Q1665-09
 Cust #: IA-B9-2-32425

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

B2502051

1551
5501

Client Sample ID #: IA-B4-2-3/24/25
 Client Name: Woodward & Clyde
 Project Name: PPG River Side
 Date: 3/24/25
 Analysis: TO-15
 Comments: _____
 CHEMTECH'S _____
 Date Received: _____
 Storage Location: Air Lab
 Sample: Q1665-20
 Cust #: IA-B4-3-32425

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

B2502051

10154
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284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908) 789-8922

CHEMTECH

Client Sample ID #: 1A-B10-2-3/24/25
 Client Name: WLC
 Project Name: PPG R. Wash. Dr.
 Date: 3/25/25 Time: 12:19
 Analysis: TO-15
 Comments: _____
 Date Received: _____
 CHEMTECH'S SA _____

Storage Location: Air Lab
 Sample: Q1665-03
 Cust #: 1A-B10-2-32425

2502051

26401

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

CHEMTECH

Client Sample ID #: 1A-B10-4-3/24/25
 Client Name: WLC
 Project Name: PPG R. Wash. Dr.
 Date: 3/25/2025 Time: 12:29
 Analysis: TO-15
 Comments: _____
 Date Received: _____
 CHEMTECH'S SA _____

Storage Location: Air Lab
 Sample: Q1665-10
 Cust #: 1A-B10-4-32425

2502051

86501
3.9

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

CHEMTECH

Client Sample ID #: 1A-B10-1-3/24/25
 Client Name: WLC
 Project Name: River Dr.
 Date: 3/25/25 Time: 12:12
 Analysis: TO-15
 Comments: _____
 Date Received: _____
 CHEMTECH'S SA _____

Storage Location: Air Lab
 Sample: Q1665-11
 Cust #: 1A-B10-1-32425

15020528

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

Client Sample ID #: IA-B10-3-3/24/25
Client Name: W8C
Project Name: PPG Riverside
Date: 3/25/2025 Time: 12:22
Analysis: TQ-15
Comments: _____

CHEMTECH'S
Date Received: _____ Disposal: _____

Storage Location: Air Lab
Sample: Q1665-18
Cust #: IA-B10-3-32425

Handwritten: B250205

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99701

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

Client Sample ID #: IA-B14-1-32425

Client Name: WRL

Project Name: PPG River Ice

Date: 3/23/2025 Time: 12:40

Analysis: TO-15

Comments: _____

CHEMTECH'S SA _____

Date Received: _____

Storage Location: Air Lab

Sample: Q1665-15

Cust #: IA-B14-1-32425

al: _____

15020585

CASE NARRATIVE

Woodard & Curran

Project Name: US EPA Riverside Industrial Park Superfund Site

Project # N/A

Chemtech Project # Q1665

Test Name: TO-15

A. Number of Samples and Date of Receipt:

11 Air samples were received on 03/26/2025.

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 {Q1665-01DUP} with File ID: VL042291.D met criteria except for m/p-Xylene[200%], due to difference in results of original and DUP.

The RPD for {Q1665-03DUP} with File ID: VL042318.D met criteria except for m/p-Xylene[200%], due to difference in results of original and DUP.

The Blank Spike for {VL0411ABS01} with File ID: VL042314.D met requirements for all samples except for 1,1,2,2-Tetrachloroethane[132%], 1,2-Dichlorobenzene[132%], these compounds did not meet the NJDKQP criteria and the in-house criteria also it is failing high but no positive hit in associated samples therefore no corrective action taken.

The Blank Spike for {VL0415ABS01} with File ID: VL042328.D met requirements for all samples except for Methylene Chloride[67%], tert-Butyl Alcohol[68%], 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 met the requirements .

The Continuous Calibration File ID VL042326.D met the requirements except for Methylene Chloride and tert-Butyl alcohol are failing low but only dilution samples analyzed under this Continuous Calibration therefore no corrective action taken.

The Tuning criteria met requirements.

Samples IA-B10-2-3242025, IA-B10-4-3242025, IA-B10-4-3242025DL, IA-B10-1-3242025, IA-B14-1-3242025 and IA-B10-3-3242025 were diluted due to high concentrations.

E. Additional Comments:

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 #AA-DUP-1-3242025,IA-B10-2-3242025,AA-1-3242025, IA-B9-1-3242025, IA-DUP-2-3242025,IA-B9-2-3242025 ,IA-B10-4-3242025, IA-B10-1-3242025,IA-B14-1-3242025,IA-B14-1-3242025DL,IA-B10-3-3242025 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	VL032725	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICCC010	VL042172.D	m/p-Xylene	SAM	3/31/2025 11:24:55 AM	MMDado da	4/3/2025 8:05:09 AM	Peak Integrated by Software incorrectly
VSTDICCC002	VL042173.D	1,4-Dioxane	SAM	3/31/2025 11:25:00 AM	MMDado da	4/3/2025 8:05:13 AM	Peak Integrated by Software incorrect

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VSTDIC002	VL042173.D	Ethanol	SAM	3/31/2025 11:25:00 AM	MMDado da	4/3/2025 8:05:13 AM	Peak Integrated by Software incorrectly
VSTDIC002	VL042173.D	m/p-Xylene	SAM	3/31/2025 11:25:00 AM	MMDado da	4/3/2025 8:05:13 AM	Peak Integrated by Software incorrectly
VSTDIC001	VL042174.D	1,4-Dioxane	SAM	3/31/2025 11:26:28 AM	MMDado da	4/3/2025 8:05:22 AM	Peak Integrated by Software incorrectly
VSTDIC001	VL042174.D	4-Methyl-2-Pentanone	SAM	3/31/2025 11:26:28 AM	MMDado da	4/3/2025 8:05:22 AM	Peak Integrated by Software incorrectly
VSTDIC001	VL042174.D	Ethanol	SAM	3/31/2025 11:26:28 AM	MMDado da	4/3/2025 8:05:22 AM	Peak Integrated by Software incorrectly
VSTDIC001	VL042174.D	m/p-Xylene	SAM	3/31/2025 11:26:28 AM	MMDado da	4/3/2025 8:05:22 AM	Peak Integrated by Software incorrectly
VSTDIC001	VL042174.D	Methyl Methacrylate	SAM	3/31/2025 11:26:28 AM	MMDado da	4/3/2025 8:05:22 AM	Peak Integrated by Software

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VSTDIC001	VL042174.D	Propene	SAM	3/31/2025 11:26:28 AM	MMDado da	4/3/2025 8:05:22 AM	Peak Integrated by Software incorrectly
VSTDIC001	VL042174.D	t-1,3-Dichloropropene	SAM	3/31/2025 11:26:28 AM	MMDado da	4/3/2025 8:05:22 AM	Peak Integrated by Software incorrectly
VSTDIC001	VL042174.D	trans-1,2-Dichloroethene	SAM	3/31/2025 11:26:28 AM	MMDado da	4/3/2025 8:05:22 AM	Peak Integrated by Software incorrectly
VSTDIC001	VL042174.D	Vinyl Acetate	SAM	3/31/2025 11:26:28 AM	MMDado da	4/3/2025 8:05:22 AM	Peak Integrated by Software incorrectly
VSTDIC005	VL042175.D	1,1,2-Trichloroethane	SAM	3/31/2025 11:26:33 AM	MMDado da	4/3/2025 8:05:37 AM	Peak Integrated by Software incorrectly
VSTDIC005	VL042175.D	1,4-Dioxane	SAM	3/31/2025 11:26:33 AM	MMDado da	4/3/2025 8:05:37 AM	Peak Integrated by Software incorrectly
VSTDIC005	VL042175.D	cis-1,3-Dichloropropene	SAM	3/31/2025 11:26:33 AM	MMDado da	4/3/2025 8:05:37 AM	Peak Integrated by Software

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VSTDICC0. 5	VL042175 .D	Cyclohexane	SAM	3/31/20 25 11:26:3 3 AM	MMDado da	4/3/202 5 8:05:37 AM	Peak Integrat ed by Softwar e incorrect ly
VSTDICC0. 5	VL042175 .D	m/p-Xylene	SAM	3/31/20 25 11:26:3 3 AM	MMDado da	4/3/202 5 8:05:37 AM	Peak Integrat ed by Softwar e incorrect ly
VSTDICC0. 5	VL042175 .D	Methyl Methacrylate	SAM	3/31/20 25 11:26:3 3 AM	MMDado da	4/3/202 5 8:05:37 AM	Peak Integrat ed by Softwar e incorrect ly
VSTDICC0. 5	VL042175 .D	Propene	SAM	3/31/20 25 11:26:3 3 AM	MMDado da	4/3/202 5 8:05:37 AM	Peak Integrat ed by Softwar e incorrect ly
VSTDICC0. 5	VL042175 .D	Tetrahydrofura n	SAM	3/31/20 25 11:26:3 3 AM	MMDado da	4/3/202 5 8:05:37 AM	Peak Integrat ed by Softwar e incorrect ly
VSTDICC0. 5	VL042175 .D	Trichloroethen e	SAM	3/31/20 25 11:26:3 3 AM	MMDado da	4/3/202 5 8:05:37 AM	Peak Integrat ed by Softwar e incorrect ly
VSTDICC0. 1	VL042176 .D	1,1,1- Trichloroethan e	SAM	3/31/20 25 11:25:0	MMDado da	4/3/202 5 8:05:45	Peak Integrat ed by

				4 AM		AM	Software incorrectly
VSTDICC0.1	VL042176.D	1,1,2,2-Tetrachloroethane	SAM	3/31/2025 11:25:04 AM	MMDado da	4/3/2025 8:05:45 AM	Peak Integrated by Software incorrectly
VSTDICC0.1	VL042176.D	1,2-Dibromoethane	SAM	3/31/2025 11:25:04 AM	MMDado da	4/3/2025 8:05:45 AM	Peak Integrated by Software incorrectly
VSTDICC0.1	VL042176.D	Carbon Tetrachloride	SAM	3/31/2025 11:25:04 AM	MMDado da	4/3/2025 8:05:45 AM	Peak Integrated by Software incorrectly
VSTDICC0.1	VL042176.D	Trichloroethene	SAM	3/31/2025 11:25:04 AM	MMDado da	4/3/2025 8:05:45 AM	Peak Integrated by Software incorrectly
VSTDICC0.03	VL042177.D	1,1,1-Trichloroethane	SAM	3/31/2025 11:26:39 AM	MMDado da	4/3/2025 8:05:59 AM	Peak Integrated by Software incorrectly
VSTDICC0.03	VL042177.D	1,1,2,2-Tetrachloroethane	SAM	3/31/2025 11:26:39 AM	MMDado da	4/3/2025 8:05:59 AM	Peak Integrated by Software incorrectly
VSTDICC0.03	VL042177.D	Carbon Tetrachloride	SAM	3/31/2025	MMDado da	4/3/2025	Peak Integrated

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				11:26:39 AM		8:05:59 AM	ed by Software incorrectly
VSTDICC0.03	VL042177.D	Tetrachloroethene	SAM	3/31/2025 11:26:39 AM	MMDado da	4/3/2025 8:05:59 AM	Peak Integrated by Software incorrectly
VSTDICC0.03	VL042177.D	Trichloroethene	SAM	3/31/2025 11:26:39 AM	MMDado da	4/3/2025 8:05:59 AM	Peak Integrated by Software incorrectly
VSTDICC0.03	VL042177.D	Vinyl Chloride	SAM	3/31/2025 11:26:39 AM	MMDado da	4/3/2025 8:05:59 AM	Peak Integrated by Software incorrectly
VSTDICC015	VL042178.D	m/p-Xylene	SAM	3/31/2025 11:25:14 AM	MMDado da	4/3/2025 8:06:09 AM	Peak Integrated by Software incorrectly
VSTDICV010	VL042179.D	m/p-Xylene	SAM	3/31/2025 11:28:50 AM	MMDado da	4/3/2025 8:06:14 AM	Peak Integrated by Software incorrectly

Manual Integration Report			
Sequence	VL040925	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
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VSTDCCC010	VL042286.D	m/p-Xylene	SAM	4/10/2025 12:04:04 PM	MMDado da	4/10/2025 3:39:20 PM	Peak Integrated by Software incorrectly
VL0409AB S01	VL042288.D	m/p-Xylene	SAM	4/10/2025 12:04:11 PM	MMDado da	4/10/2025 7:20:44 PM	Peak Integrated by Software incorrectly
VL0409AB S02	VL042289.D	m/p-Xylene	SAM	4/10/2025 12:04:58 PM	MMDado da	4/10/2025 7:20:47 PM	Peak Integrated by Software incorrectly
Q1665-01	VL042290.D	Benzene	SAM	4/10/2025 12:05:04 PM	MMDado da	4/10/2025 7:20:50 PM	Peak Integrated by Software incorrectly
Q1665-01	VL042290.D	Carbon Tetrachloride	SAM	4/10/2025 12:05:04 PM	MMDado da	4/10/2025 7:20:50 PM	Peak Integrated by Software incorrectly
Q1665-01	VL042290.D	Chlorodifluoromethane	SAM	4/10/2025 12:05:04 PM	MMDado da	4/10/2025 7:20:50 PM	Peak Integrated by Software incorrectly
Q1665-01	VL042290.D	Heptane	SAM	4/10/2025 12:05:04 PM	MMDado da	4/10/2025 7:20:50 PM	Peak Integrated by Software incorrectly

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Q1665-01	VL04229 0.D	m/p-Xylene	SAM	4/10/20 25 12:05:0 4 PM	MMDado da	4/10/20 25 7:20:50 PM	Peak Integrat ed by Softwar e incorrec tly
Q1665-01	VL04229 0.D	Toluene	SAM	4/10/20 25 12:05:0 4 PM	MMDado da	4/10/20 25 7:20:50 PM	Peak Integrat ed by Softwar e incorrec tly
Q1665-01DUP	VL04229 1.D	Carbon Tetrachloride	SAM	4/10/20 25 12:05:0 9 PM	MMDado da	4/10/20 25 7:20:53 PM	Peak Integrat ed by Softwar e incorrec tly
Q1665-01DUP	VL04229 1.D	Chlorodifluoromet hane	SAM	4/10/20 25 12:05:0 9 PM	MMDado da	4/10/20 25 7:20:53 PM	Peak Integrat ed by Softwar e incorrec tly
Q1665-01DUP	VL04229 1.D	Heptane	SAM	4/10/20 25 12:05:0 9 PM	MMDado da	4/10/20 25 7:20:53 PM	Peak Integrat ed by Softwar e incorrec tly
Q1665-01DUP	VL04229 1.D	m/p-Xylene	SAM	4/10/20 25 12:05:0 9 PM	MMDado da	4/10/20 25 7:20:53 PM	Peak Integrat ed by Softwar e incorrec tly
Q1665-01DUP	VL04229 1.D	Trichlorofluoromet hane	SAM	4/10/20 25 12:05:0 9 PM	MMDado da	4/10/20 25 7:20:53 PM	Peak Integrat ed by Softwar e incorrec tly

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Q1665-04	VL04229 2.D	Chlorodifluoromet hane	SAM	4/10/20 25 12:05:1 4 PM	MMDado da	4/10/20 25 7:20:55 PM	Peak Integrat ed by Softwar e incorrec tly
Q1665-04	VL04229 2.D	m/p-Xylene	SAM	4/10/20 25 12:05:1 4 PM	MMDado da	4/10/20 25 7:20:55 PM	Peak Integrat ed by Softwar e incorrec tly
Q1665-04	VL04229 2.D	Toluene	SAM	4/10/20 25 12:05:1 4 PM	MMDado da	4/10/20 25 7:20:55 PM	Peak Integrat ed by Softwar e incorrec tly
Q1665-06	VL04229 3.D	Carbon Tetrachloride	SAM	4/10/20 25 12:04:3 0 PM	MMDado da	4/10/20 25 7:20:58 PM	Peak Integrat ed by Softwar e incorrec tly
Q1665-06	VL04229 3.D	Chlorodifluoromet hane	SAM	4/10/20 25 12:04:3 0 PM	MMDado da	4/10/20 25 7:20:58 PM	Peak Integrat ed by Softwar e incorrec tly
Q1665-06	VL04229 3.D	Heptane	SAM	4/10/20 25 12:04:3 0 PM	MMDado da	4/10/20 25 7:20:58 PM	Peak Integrat ed by Softwar e incorrec tly
Q1665-06	VL04229 3.D	Propene	SAM	4/10/20 25 12:04:3 0 PM	MMDado da	4/10/20 25 7:20:58 PM	Peak Integrat ed by Softwar e incorrec tly

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Q1665-06	VL04229 3.D	Tetrahydrofuran	SAM	4/10/20 25 12:04:30 PM	MMDado da	4/10/20 25 7:20:58 PM	Peak Integrat ed by Softwar e incorrec tly
Q1665-08	VL04229 4.D	Benzene	SAM	4/10/20 25 12:04:43 PM	MMDado da	4/10/20 25 7:21:00 PM	Peak Integrat ed by Softwar e incorrec tly
Q1665-08	VL04229 4.D	Carbon Tetrachloride	SAM	4/10/20 25 12:04:43 PM	MMDado da	4/10/20 25 7:21:00 PM	Peak Integrat ed by Softwar e incorrec tly
Q1665-08	VL04229 4.D	Chlorodifluoromet hane	SAM	4/10/20 25 12:04:43 PM	MMDado da	4/10/20 25 7:21:00 PM	Peak Integrat ed by Softwar e incorrec tly
Q1665-08	VL04229 4.D	Propene	SAM	4/10/20 25 12:04:43 PM	MMDado da	4/10/20 25 7:21:00 PM	Peak Integrat ed by Softwar e incorrec tly
Q1665-08	VL04229 4.D	tert-Butyl alcohol	SAM	4/10/20 25 12:04:43 PM	MMDado da	4/10/20 25 7:21:00 PM	Peak Integrat ed by Softwar e incorrec tly
Q1665-09	VL04229 5.D	Carbon Tetrachloride	SAM	4/10/20 25 12:04:26 PM	MMDado da	4/10/20 25 7:21:01 PM	Peak Integrat ed by Softwar e incorrec tly

Q1665-09	VL04229 5.D	Chlorodifluoromet hane	SAM	4/10/20 25 12:04:2 6 PM	MMDado da	4/10/20 25 7:21:01 PM	Peak Integrat ed by Softwar e incorrec tly
Q1665-09	VL04229 5.D	Heptane	SAM	4/10/20 25 12:04:2 6 PM	MMDado da	4/10/20 25 7:21:01 PM	Peak Integrat ed by Softwar e incorrec tly
Q1665-09	VL04229 5.D	m/p-Xylene	SAM	4/10/20 25 12:04:2 6 PM	MMDado da	4/10/20 25 7:21:01 PM	Peak Integrat ed by Softwar e incorrec tly
Q1665-09	VL04229 5.D	Propene	SAM	4/10/20 25 12:04:2 6 PM	MMDado da	4/10/20 25 7:21:01 PM	Peak Integrat ed by Softwar e incorrec tly
Q1665-20	VL04229 6.D	Chlorobenzene	SAM	4/10/20 25 12:05:2 0 PM	MMDado da	4/10/20 25 7:21:06 PM	Peak Integrat ed by Softwar e incorrec tly
Q1665-20	VL04229 6.D	Chlorodifluoromet hane	SAM	4/10/20 25 12:05:2 0 PM	MMDado da	4/10/20 25 7:21:06 PM	Peak Integrat ed by Softwar e incorrec tly
Q1665-20	VL04229 6.D	Heptane	SAM	4/10/20 25 12:05:2 0 PM	MMDado da	4/10/20 25 7:21:06 PM	Peak Integrat ed by Softwar e incorrec tly

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Q1665-20	VL042296.D	m/p-Xylene	SAM	4/10/2025 12:05:20 PM	MMDado da	4/10/2025 7:21:06 PM	Peak Integrated by Software incorrectly
Q1665-20	VL042296.D	Propene	SAM	4/10/2025 12:05:20 PM	MMDado da	4/10/2025 7:21:06 PM	Peak Integrated by Software incorrectly

Manual Integration Report			
Sequence	VL041125	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC010	VL042312.D	m/p-Xylene	SAM	4/16/2025 9:17:16 PM	MMDado da	4/17/2025 1:40:05 PM	Peak Integrated by Software incorrectly
VL0411AB S01	VL042314.D	m/p-Xylene	SAM	4/16/2025 9:17:26 PM	MMDado da	4/17/2025 1:40:08 PM	Peak Integrated by Software incorrectly
Q1665-03	VL042317.D	Carbon Tetrachloride	SAM	4/16/2025 9:17:31 PM	MMDado da	4/17/2025 1:40:15 PM	Peak Integrated by Software incorrectly
Q1665-03	VL042317.D	Heptane	SAM	4/16/2025 9:17:31 PM	MMDado da	4/17/2025 1:40:15 PM	Peak Integrated by Software

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Q1665-03	VL042317.D	m/p-Xylene	SAM	4/16/2025 9:17:31 PM	MMDado da	4/17/2025 1:40:15 PM	Peak Integrated by Software incorrectly
Q1665-03	VL042317.D	Propene	SAM	4/16/2025 9:17:31 PM	MMDado da	4/17/2025 1:40:15 PM	Peak Integrated by Software incorrectly
Q1665-03	VL042317.D	Tetrachloroethene	SAM	4/16/2025 9:17:31 PM	MMDado da	4/17/2025 1:40:15 PM	Peak Integrated by Software incorrectly
Q1665-03DUP	VL042318.D	Carbon Tetrachloride	SAM	4/16/2025 9:17:45 PM	MMDado da	4/17/2025 1:40:17 PM	Peak Integrated by Software incorrectly
Q1665-03DUP	VL042318.D	Heptane	SAM	4/16/2025 9:17:45 PM	MMDado da	4/17/2025 1:40:17 PM	Peak Integrated by Software incorrectly
Q1665-03DUP	VL042318.D	m/p-Xylene	SAM	4/16/2025 9:17:45 PM	MMDado da	4/17/2025 1:40:17 PM	Peak Integrated by Software incorrectly
Q1665-03DUP	VL042318.D	o-Xylene	SAM	4/16/2025 9:17:45 PM	MMDado da	4/17/2025 1:40:17 PM	Peak Integrated by Software

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Q1665-03DUP	VL042318.D	Propene	SAM	4/16/2025 9:17:45 PM	MMDado da	4/17/2025 1:40:17 PM	Peak Integrat ed by Softwar e in cor rec tly
Q1665-03DUP	VL042318.D	tert-Butyl alcohol	SAM	4/16/2025 9:17:45 PM	MMDado da	4/17/2025 1:40:17 PM	Peak Integrat ed by Softwar e in cor rec tly
Q1665-03DUP	VL042318.D	Tetrachloroethene	SAM	4/16/2025 9:17:45 PM	MMDado da	4/17/2025 1:40:17 PM	Peak Integrat ed by Softwar e in cor rec tly
Q1665-03DUP	VL042318.D	Toluene	SAM	4/16/2025 9:17:45 PM	MMDado da	4/17/2025 1:40:17 PM	Peak Integrat ed by Softwar e in cor rec tly
Q1665-10	VL042319.D	2,2,4-Trimethylpentane	SAM	4/16/2025 9:18:13 PM	MMDado da	4/17/2025 1:40:19 PM	Peak Integrat ed by Softwar e in cor rec tly
Q1665-10	VL042319.D	Carbon Tetrachloride	SAM	4/16/2025 9:18:13 PM	MMDado da	4/17/2025 1:40:19 PM	Peak Integrat ed by Softwar e in cor rec tly
Q1665-10	VL042319.D	Chlorodifluoromet hane	SAM	4/16/2025 9:18:13	MMDado da	4/17/2025 1:40:19	Peak Integrat ed by

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Q1665-10	VL042319.D	Heptane	SAM	4/16/2025 9:18:13 PM	MMDado da	4/17/2025 1:40:19 PM	Peak Integrated by Software incorrectly
Q1665-10	VL042319.D	m/p-Xylene	SAM	4/16/2025 9:18:13 PM	MMDado da	4/17/2025 1:40:19 PM	Peak Integrated by Software incorrectly
Q1665-10	VL042319.D	Propene	SAM	4/16/2025 9:18:13 PM	MMDado da	4/17/2025 1:40:19 PM	Peak Integrated by Software incorrectly
Q1665-10	VL042319.D	Toluene	SAM	4/16/2025 9:18:13 PM	MMDado da	4/17/2025 1:40:19 PM	Peak Integrated by Software incorrectly
Q1665-11	VL042320.D	4-Methyl-2-Pentanone	SAM	4/16/2025 9:18:07 PM	MMDado da	4/17/2025 1:40:21 PM	Peak Integrated by Software incorrectly
Q1665-11	VL042320.D	Carbon Tetrachloride	SAM	4/16/2025 9:18:07 PM	MMDado da	4/17/2025 1:40:21 PM	Peak Integrated by Software incorrectly
Q1665-11	VL042320.D	m/p-Xylene	SAM	4/16/2025	MMDado da	4/17/2025	Peak Integrated

				9:18:07 PM		1:40:21 PM	ed by Software incorrectly
Q1665-11	VL04232 0.D	Propene	SAM	4/16/2025 9:18:07 PM	MMDado da	4/17/2025 1:40:21 PM	Peak Integrated by Software incorrectly
Q1665-11	VL04232 0.D	tert-Butyl alcohol	SAM	4/16/2025 9:18:07 PM	MMDado da	4/17/2025 1:40:21 PM	Peak Integrated by Software incorrectly
Q1665-11	VL04232 0.D	Toluene	SAM	4/16/2025 9:18:07 PM	MMDado da	4/17/2025 1:40:21 PM	Peak Integrated by Software incorrectly
Q1665-18	VL04232 1.D	4-Methyl-2-Pentanone	SAM	4/16/2025 9:18:36 PM	MMDado da	4/17/2025 1:40:23 PM	Peak Integrated by Software incorrectly
Q1665-18	VL04232 1.D	Carbon Tetrachloride	SAM	4/16/2025 9:18:36 PM	MMDado da	4/17/2025 1:40:23 PM	Peak Integrated by Software incorrectly
Q1665-18	VL04232 1.D	Chlorodifluoromethane	SAM	4/16/2025 9:18:36 PM	MMDado da	4/17/2025 1:40:23 PM	Peak Integrated by Software incorrectly
Q1665-18	VL04232	Heptane	SAM	4/16/20	MMDado	4/17/20	Peak

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Q1665-18	VL04232 1.D	m/p-Xylene	SAM	4/16/20 25 9:18:36 PM	MMDado da	4/17/20 25 1:40:23 PM	Peak Integrat ed by Softwar e incorrec tly
Q1665-18	VL04232 1.D	o-Xylene	SAM	4/16/20 25 9:18:36 PM	MMDado da	4/17/20 25 1:40:23 PM	Peak Integrat ed by Softwar e incorrec tly
Q1665-18	VL04232 1.D	Propene	SAM	4/16/20 25 9:18:36 PM	MMDado da	4/17/20 25 1:40:23 PM	Peak Integrat ed by Softwar e incorrec tly
Q1665-18	VL04232 1.D	tert-Butyl alcohol	SAM	4/16/20 25 9:18:36 PM	MMDado da	4/17/20 25 1:40:23 PM	Peak Integrat ed by Softwar e incorrec tly
Q1665-18	VL04232 1.D	Tetrachloroethene	SAM	4/16/20 25 9:18:36 PM	MMDado da	4/17/20 25 1:40:23 PM	Peak Integrat ed by Softwar e incorrec tly
Q1665- 10DL	VL04232 3.D	Propene	SAM	4/16/20 25 9:18:02 PM	MMDado da	4/17/20 25 1:40:25 PM	Peak Integrat ed by Softwar e incorrec tly

Q1665-11DL	VL042324.D	Chloroform	SAM	4/16/2025 9:17:57 PM	MMDado da	4/17/2025 1:40:26 PM	Peak Integrated by Software incorrectly
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Manual Integration Report			
Sequence	VL041525	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDC010	VL042326.D	m/p-Xylene	SAM	4/16/2025 2:13:04 PM	MMDado da	4/16/2025 3:47:21 PM	Peak Integrated by Software incorrectly
VL0415ABS01	VL042328.D	m/p-Xylene	SAM	4/16/2025 2:13:09 PM	MMDado da	4/16/2025 3:47:23 PM	Peak Integrated by Software incorrectly
Q1665-10DL2	VL042332.D	Propene	SAM	4/16/2025 2:13:14 PM	MMDado da	4/16/2025 3:47:25 PM	Peak Integrated by Software incorrectly

Manual Integration Report			
Sequence	VL041725	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDIC010	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

VSTDICCO02	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

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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 incorrectly
VSTDICCO01	VL042351.D	1,4-Dioxane	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	2,2,4-Trimethylpentane	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	cis-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
VSTDICCO01	VL042351.D	Cyclohexane	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	Ethanol	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	Heptane	SAM	4/18/2025 4:19:17 PM	MMDado da	4/18/2025 10:45:15 PM	Peak Integrated by Software incorrectly

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VSTDICCO01	VL042351.D	m/p-Xylene	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	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	VL042351.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	VL042352.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	VL042352.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	VL042352.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	VL042352.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

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VSTDIC0.5	VL04235 2.D	Chlorobenzene	SAM	4/18/2025 4:20:33 PM	MMDado da	4/18/2025 10:45:07 PM	Peak Integrated by Software incorrectly
VSTDIC0.5	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
VSTDIC0.5	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
VSTDIC0.5	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
VSTDIC0.5	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
VSTDIC0.5	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
VSTDIC0.5	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

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VSTDICCO.5	VL042352.D	Tetrahydrofuran	SAM	4/18/2025 4:20:33 PM	MMDado da	4/18/2025 10:45:07 PM	Peak Integrated by Software incorrectly
VSTDICCO.1	VL042353.D	1,1,1-Trichloroethane	SAM	4/18/2025 4:20:37 PM	MMDado da	4/18/2025 10:45:04 PM	Peak Integrated by Software incorrectly
VSTDICCO.1	VL042353.D	1,1,2,2-Tetrachloroethane	SAM	4/18/2025 4:20:37 PM	MMDado da	4/18/2025 10:45:04 PM	Peak Integrated by Software incorrectly
VSTDICCO.1	VL042353.D	1,2-Dibromoethane	SAM	4/18/2025 4:20:37 PM	MMDado da	4/18/2025 10:45:04 PM	Peak Integrated by Software incorrectly
VSTDICCO.1	VL042353.D	Tetrachloroethene	SAM	4/18/2025 4:20:37 PM	MMDado da	4/18/2025 10:45:04 PM	Peak Integrated by Software incorrectly
VSTDICCO.1	VL042353.D	Trichloroethene	SAM	4/18/2025 4:20:37 PM	MMDado da	4/18/2025 10:45:04 PM	Peak Integrated by Software incorrectly
VSTDICCO.03	VL042354.D	1,1,1-Trichloroethane	SAM	4/18/2025 4:19:24 PM	MMDado da	4/18/2025 10:45:02 PM	Peak Integrated by Software incorrectly

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VSTDICCO.03	VL042354.D	1,1,2,2-Tetrachloroethane	SAM	4/18/2025 4:19:24 PM	MMDado da	4/18/2025 10:45:02 PM	Peak Integrated by Software incorrectly
VSTDICCO.03	VL042354.D	Carbon Tetrachloride	SAM	4/18/2025 4:19:24 PM	MMDado da	4/18/2025 10:45:02 PM	Peak Integrated by Software incorrectly
VSTDICCO.03	VL042354.D	Tetrachloroethene	SAM	4/18/2025 4:19:24 PM	MMDado da	4/18/2025 10:45:02 PM	Peak Integrated by Software incorrectly
VSTDICCO.03	VL042354.D	Trichloroethene	SAM	4/18/2025 4:19:24 PM	MMDado da	4/18/2025 10:45:02 PM	Peak Integrated by Software incorrectly
VSTDICCO15	VL042355.D	m/p-Xylene	SAM	4/18/2025 4:21:35 PM	MMDado da	4/18/2025 10:44:59 PM	Peak Integrated by Software incorrectly
VSTDICV010	VL042356.D	m/p-Xylene	SAM	4/18/2025 4:20:42 PM	MMDado da	4/18/2025 10:44:57 PM	Peak Integrated by Software incorrectly
VL0417ABS01	VL042358.D	m/p-Xylene	SAM	4/18/2025 4:21:39 PM	MMDado da	4/18/2025 10:44:55 PM	Peak Integrated by Software incorrectly

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Q1665-15	VL04235 9.D	1,1,1- Trichloroethane	SAM	4/18/20 25 4:22:27 PM	MMDado da	4/18/20 25 10:44:5 3 PM	Peak Integrat ed by Softwar e incorrec tly
Q1665-15	VL04235 9.D	1,4-Dioxane	SAM	4/18/20 25 4:22:27 PM	MMDado da	4/18/20 25 10:44:5 3 PM	Peak Integrat ed by Softwar e incorrec tly
Q1665-15	VL04235 9.D	2,2,4- Trimethylpentane	SAM	4/18/20 25 4:22:27 PM	MMDado da	4/18/20 25 10:44:5 3 PM	Peak Integrat ed by Softwar e incorrec tly
Q1665-15	VL04235 9.D	2-Hexanone	SAM	4/18/20 25 4:22:27 PM	MMDado da	4/18/20 25 10:44:5 3 PM	Peak Integrat ed by Softwar e incorrec tly
Q1665-15	VL04235 9.D	4-Methyl-2- Pentanone	SAM	4/18/20 25 4:22:27 PM	MMDado da	4/18/20 25 10:44:5 3 PM	Peak Integrat ed by Softwar e incorrec tly
Q1665-15	VL04235 9.D	Benzene	SAM	4/18/20 25 4:22:27 PM	MMDado da	4/18/20 25 10:44:5 3 PM	Peak Integrat ed by Softwar e incorrec tly
Q1665-15	VL04235 9.D	Carbon Tetrachloride	SAM	4/18/20 25 4:22:27 PM	MMDado da	4/18/20 25 10:44:5 3 PM	Peak Integrat ed by Softwar e incorrec tly

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Q1665-15	VL04235 9.D	Chlorodifluoromet hane	SAM	4/18/20 25 4:22:27 PM	MMDado da	4/18/20 25 10:44:5 3 PM	Peak Integrat ed by Softwar e incorrec tly
Q1665-15	VL04235 9.D	Heptane	SAM	4/18/20 25 4:22:27 PM	MMDado da	4/18/20 25 10:44:5 3 PM	Peak Integrat ed by Softwar e incorrec tly
Q1665-15	VL04235 9.D	Naphthalene,2- methyl-	SAM	4/18/20 25 4:22:27 PM	MMDado da	4/18/20 25 10:44:5 3 PM	Peak Integrat ed by Softwar e incorrec tly
Q1665- 15DL	VL04236 0.D	2-Butanone	SAM	4/18/20 25 4:21:44 PM	MMDado da	4/18/20 25 10:44:4 9 PM	Peak Integrat ed by Softwar e incorrec tly
Q1665- 15DL	VL04236 0.D	Ethanol	SAM	4/18/20 25 4:21:44 PM	MMDado da	4/18/20 25 10:44:4 9 PM	Peak Integrat ed by Softwar e incorrec tly
Q1665- 15DL	VL04236 0.D	m/p-Xylene	SAM	4/18/20 25 4:21:44 PM	MMDado da	4/18/20 25 10:44:4 9 PM	Peak Integrat ed by Softwar e incorrec tly
Q1665- 15DL	VL04236 0.D	Toluene	SAM	4/18/20 25 4:21:44 PM	MMDado da	4/18/20 25 10:44:4 9 PM	Peak Integrat ed by Softwar e incorrec tly



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

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.

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 10:59 am, Apr 21, 2025

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 #: Q1665

Completed

For thorough review, the report must have the following:

GENERAL:

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

✓

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

✓

Is the chain of custody signed and complete

✓

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

✓

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

✓

COVER PAGE:

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

✓

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

✓

CHAIN OF CUSTODY:

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

✓

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

✓

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

✓

Were the samples received within hold time

✓

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

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SOHIL JODHANI

Date: 04/21/2025

LAB CHRONICLE

OrderID:	Q1665	OrderDate:	3/27/2025 11:29:02 AM
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
Q1665-01	AA-DUP-1-3242025	Air	TO-15	TO-15	03/25/25		04/09/25	03/26/25
Q1665-03	IA-B10-2-3242025	Air	TO-15	TO-15	03/25/25		04/11/25	03/26/25
Q1665-03DL	IA-B10-2-3242025DL	Air	TO-15	TO-15	03/25/25		04/11/25	03/26/25
Q1665-04	AA-1-3242025	Air	TO-15	TO-15	03/25/25		04/09/25	03/26/25
Q1665-06	IA-B9-1-3242025	Air	TO-15	TO-15	03/25/25		04/09/25	03/26/25
Q1665-08	IA-DUP-2-3242025	Air	TO-15	TO-15	03/24/25		04/09/25	03/26/25
Q1665-09	IA-B9-2-3242025	Air	TO-15	TO-15	03/25/25		04/09/25	03/26/25
Q1665-10	IA-B10-4-3242025	Air	TO-15	TO-15	03/25/25		04/11/25	03/26/25
Q1665-10DL	IA-B10-4-3242025DL	Air	TO-15	TO-15	03/25/25		04/11/25	03/26/25
Q1665-10DL 2	IA-B10-4-3242025DL 2	Air	TO-15	TO-15	03/25/25		04/15/25	03/26/25
Q1665-11	IA-B10-1-3242025	Air	TO-15	TO-15	03/25/25		04/11/25	03/26/25

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Q1665-11DL	IA-B10-1-3242025DL	Air			03/25/25		03/26/25
			TO-15	TO-15		04/11/25	
Q1665-15	IA-B14-1-3242025	Air			03/25/25		03/26/25
			TO-15	TO-15		04/17/25	
Q1665-15DL	IA-B14-1-3242025DL	Air			03/25/25		03/26/25
			TO-15	TO-15		04/17/25	
Q1665-18	IA-B10-3-3242025	Air			03/25/25		03/26/25
			TO-15	TO-15		04/11/25	
Q1665-18DL	IA-B10-3-3242025DL	Air			03/25/25		03/26/25
			TO-15	TO-15		04/15/25	
Q1665-20	IA-B9-3-3242025	Air			03/25/25		03/26/25
			TO-15	TO-15		04/09/25	

Hit Summary Sheet SW-846

SDG No.: Q1665
Client: Woodard & Curran

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID: AA-DUP-1-3242025								
Q1665-01	AA-DUP-1-324202: Air		Dichlorodifluoromethane	1.98	J	1.04	2.47	ug/m3
Q1665-01	AA-DUP-1-324202: Air		Chloromethane	1.16		0.21	1.03	ug/m3
Q1665-01	AA-DUP-1-324202: Air		Trichlorofluoromethane	1.18	J	0.90	2.81	ug/m3
Q1665-01	AA-DUP-1-324202: Air		Heptane	0.45	J	0.45	2.05	ug/m3
Q1665-01	AA-DUP-1-324202: Air		Acetone	8.55		0.57	1.19	ug/m3
Q1665-01	AA-DUP-1-324202: Air		Methylene Chloride	3.30		0.66	1.74	ug/m3
Q1665-01	AA-DUP-1-324202: Air		2-Butanone	1.06	J	0.35	1.47	ug/m3
Q1665-01	AA-DUP-1-324202: Air		Carbon Tetrachloride	0.44		0.060	0.19	ug/m3
Q1665-01	AA-DUP-1-324202: Air		Benzene	0.80	J	0.29	1.60	ug/m3
Q1665-01	AA-DUP-1-324202: Air		Toluene	1.21	J	0.41	1.88	ug/m3
Q1665-01	AA-DUP-1-324202: Air		Hexane	5.64		0.39	1.76	ug/m3
			Total Voc :			25.8		
Q1665-01	AA-DUP-1-324202: Air		Butane	* 1.10	J	0	0	ppbv
Q1665-01	AA-DUP-1-324202: Air		Chlorodifluoromethane	* 0.33	J	0.090	0.50	ppbv
Q1665-01	AA-DUP-1-324202: Air		Propene	* 0.85	J	0.15	0.50	ppbv
			Total Tics :			2.28		
			Total Concentration:			28.1		
Client ID: IA-B10-2-3242025								
Q1665-03	IA-B10-2-3242025 Air		Dichlorodifluoromethane	1.98	J	1.04	2.47	ug/m3
Q1665-03	IA-B10-2-3242025 Air		Chloromethane	1.22		0.21	1.03	ug/m3
Q1665-03	IA-B10-2-3242025 Air		Trichlorofluoromethane	1.18	J	0.90	2.81	ug/m3
Q1665-03	IA-B10-2-3242025 Air		tert-Butyl alcohol	1.42	J	0.58	1.52	ug/m3
Q1665-03	IA-B10-2-3242025 Air		Heptane	0.70	J	0.45	2.05	ug/m3
Q1665-03	IA-B10-2-3242025 Air		Acetone	196	E	0.57	1.19	ug/m3
Q1665-03	IA-B10-2-3242025 Air		Methylene Chloride	5.56		0.66	1.74	ug/m3
Q1665-03	IA-B10-2-3242025 Air		2-Butanone	79.0	E	0.35	1.47	ug/m3
Q1665-03	IA-B10-2-3242025 Air		Carbon Tetrachloride	0.57		0.060	0.19	ug/m3
Q1665-03	IA-B10-2-3242025 Air		Chloroform	6.84		0.39	2.44	ug/m3
Q1665-03	IA-B10-2-3242025 Air		Benzene	1.92		0.29	1.60	ug/m3
Q1665-03	IA-B10-2-3242025 Air		Toluene	1.85	J	0.41	1.88	ug/m3
Q1665-03	IA-B10-2-3242025 Air		Tetrachloroethene	0.27		0.14	0.20	ug/m3
Q1665-03	IA-B10-2-3242025 Air		o-Xylene	0.52	J	0.52	2.17	ug/m3
Q1665-03	IA-B10-2-3242025 Air		1,2,4-Trimethylbenzene	0.59	J	0.39	2.46	ug/m3
Q1665-03	IA-B10-2-3242025 Air		Hexane	8.81		0.39	1.76	ug/m3
			Total Voc :			309		
Q1665-03	IA-B10-2-3242025 Air		Butane	* 1.30	J	0	0	ppbv

Hit Summary Sheet SW-846

SDG No.: Q1665

Client: Woodard & Curran

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q1665-03	IA-B10-2-3242025	Air	Plumbane, diethyldimethyl-	* 65.1	J	0	0	ppbv
Q1665-03	IA-B10-2-3242025	Air	D-Limonene	* 21.3	J	0	0	ppbv
Q1665-03	IA-B10-2-3242025	Air	Butanoic acid, 2-methyl-, ethyl	* 1.50	J	0	0	ppbv
Q1665-03	IA-B10-2-3242025	Air	Propene	* 4.30	J	0.15	0.50	ppbv
Total Tics :				93.5				
Total Concentration:				402				
Client ID:	IA-B10-2-3242025DL							
Q1665-03DL	IA-B10-2-3242025I	Air	Acetone	333	D	5.70	11.9	ug/m3
Q1665-03DL	IA-B10-2-3242025I	Air	Methylene Chloride	11.5	JD	6.60	17.4	ug/m3
Q1665-03DL	IA-B10-2-3242025I	Air	2-Butanone	63.4	D	3.54	14.8	ug/m3
Q1665-03DL	IA-B10-2-3242025I	Air	Chloroform	6.84	JD	4.05	24.4	ug/m3
Q1665-03DL	IA-B10-2-3242025I	Air	Hexane	6.70	JD	3.88	17.6	ug/m3
Total Voc :				421				
Total Concentration:				421				
Client ID:	AA-1-3242025							
Q1665-04	AA-1-3242025	Air	Dichlorodifluoromethane	1.98	J	1.04	2.47	ug/m3
Q1665-04	AA-1-3242025	Air	Chloromethane	1.14		0.21	1.03	ug/m3
Q1665-04	AA-1-3242025	Air	Trichlorofluoromethane	1.18	J	0.90	2.81	ug/m3
Q1665-04	AA-1-3242025	Air	Acetone	8.31		0.57	1.19	ug/m3
Q1665-04	AA-1-3242025	Air	Methylene Chloride	2.33		0.66	1.74	ug/m3
Q1665-04	AA-1-3242025	Air	2-Butanone	1.03	J	0.35	1.47	ug/m3
Q1665-04	AA-1-3242025	Air	Carbon Tetrachloride	0.57		0.060	0.19	ug/m3
Q1665-04	AA-1-3242025	Air	Benzene	0.80	J	0.29	1.60	ug/m3
Q1665-04	AA-1-3242025	Air	Toluene	1.06	J	0.41	1.88	ug/m3
Q1665-04	AA-1-3242025	Air	Hexane	3.88		0.39	1.76	ug/m3
Total Voc :				22.3				
Q1665-04	AA-1-3242025	Air	Butane	* 1.00	J	0	0	ppbv
Q1665-04	AA-1-3242025	Air	Chlorodifluoromethane	* 0.29	J	0.090	0.50	ppbv
Q1665-04	AA-1-3242025	Air	Propene	* 0.75	J	0.15	0.50	ppbv
Total Tics :				2.04				
Total Concentration:				24.3				
Client ID:	IA-B9-1-3242025							
Q1665-06	IA-B9-1-3242025	Air	Dichlorodifluoromethane	1.83	J	1.04	2.47	ug/m3
Q1665-06	IA-B9-1-3242025	Air	Chloromethane	1.20		0.21	1.03	ug/m3
Q1665-06	IA-B9-1-3242025	Air	Tetrahydrofuran	0.97	J	0.38	1.47	ug/m3
Q1665-06	IA-B9-1-3242025	Air	Trichlorofluoromethane	1.24	J	0.90	2.81	ug/m3
Q1665-06	IA-B9-1-3242025	Air	Heptane	0.49	J	0.45	2.05	ug/m3
Q1665-06	IA-B9-1-3242025	Air	Acetone	20.2		0.57	1.19	ug/m3

Hit Summary Sheet SW-846

SDG No.: Q1665

Client: Woodard & Curran

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q1665-06	IA-B9-1-3242025	Air	Methylene Chloride	3.82		0.66	1.74	ug/m3
Q1665-06	IA-B9-1-3242025	Air	2-Butanone	13.9		0.35	1.47	ug/m3
Q1665-06	IA-B9-1-3242025	Air	Carbon Tetrachloride	0.50		0.060	0.19	ug/m3
Q1665-06	IA-B9-1-3242025	Air	Benzene	0.93	J	0.29	1.60	ug/m3
Q1665-06	IA-B9-1-3242025	Air	Toluene	1.81	J	0.41	1.88	ug/m3
Q1665-06	IA-B9-1-3242025	Air	Chlorobenzene	1.11	J	0.37	2.30	ug/m3
Q1665-06	IA-B9-1-3242025	Air	Hexane	7.05		0.39	1.76	ug/m3
Total Voc :				55.0				
Q1665-06	IA-B9-1-3242025	Air	.alpha.-Pinene	* 1.70	J	0	0	ppbv
Q1665-06	IA-B9-1-3242025	Air	Benzaldehyde	* 6.60	J	0	0	ppbv
Q1665-06	IA-B9-1-3242025	Air	Butane	* 1.30	J	0	0	ppbv
Q1665-06	IA-B9-1-3242025	Air	Chlorodifluoromethane	* 0.90	J	0.090	0.50	ppbv
Q1665-06	IA-B9-1-3242025	Air	Propene	* 2.20	J	0.15	0.50	ppbv
Total Tics :				12.7				
Total Concentration:				67.7				
Client ID:	IA-DUP-2-3242025							
Q1665-08	IA-DUP-2-3242025	Air	Dichlorodifluoromethane	1.88	J	1.04	2.47	ug/m3
Q1665-08	IA-DUP-2-3242025	Air	Chloromethane	2.27		0.21	1.03	ug/m3
Q1665-08	IA-DUP-2-3242025	Air	Tetrahydrofuran	0.62	J	0.38	1.47	ug/m3
Q1665-08	IA-DUP-2-3242025	Air	Trichlorofluoromethane	1.40	J	0.90	2.81	ug/m3
Q1665-08	IA-DUP-2-3242025	Air	Acetone	27.6		0.57	1.19	ug/m3
Q1665-08	IA-DUP-2-3242025	Air	Methylene Chloride	3.47		0.66	1.74	ug/m3
Q1665-08	IA-DUP-2-3242025	Air	2-Butanone	9.73		0.35	1.47	ug/m3
Q1665-08	IA-DUP-2-3242025	Air	Carbon Tetrachloride	0.82		0.060	0.19	ug/m3
Q1665-08	IA-DUP-2-3242025	Air	Chloroform	1.56	J	0.39	2.44	ug/m3
Q1665-08	IA-DUP-2-3242025	Air	Benzene	0.54	J	0.29	1.60	ug/m3
Q1665-08	IA-DUP-2-3242025	Air	Hexane	3.31		0.39	1.76	ug/m3
Total Voc :				53.2				
Q1665-08	IA-DUP-2-3242025	Air	Butane	* 1.30	J	0	0	ppbv
Q1665-08	IA-DUP-2-3242025	Air	Chlorodifluoromethane	* 0.96	J	0.090	0.50	ppbv
Q1665-08	IA-DUP-2-3242025	Air	Propene	* 2.40	J	0.15	0.50	ppbv
Total Tics :				4.66				
Total Concentration:				57.8				
Client ID:	IA-B9-2-3242025							
Q1665-09	IA-B9-2-3242025	Air	Dichlorodifluoromethane	2.08	J	1.04	2.47	ug/m3
Q1665-09	IA-B9-2-3242025	Air	Chloromethane	1.20		0.21	1.03	ug/m3
Q1665-09	IA-B9-2-3242025	Air	Trichlorofluoromethane	1.24	J	0.90	2.81	ug/m3

Hit Summary Sheet
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SDG No.: Q1665

Client: Woodard & Curran

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q1665-09	IA-B9-2-3242025	Air	Heptane	0.49	J	0.45	2.05	ug/m3
Q1665-09	IA-B9-2-3242025	Air	Acetone	15.2		0.57	1.19	ug/m3
Q1665-09	IA-B9-2-3242025	Air	Methylene Chloride	4.17		0.66	1.74	ug/m3
Q1665-09	IA-B9-2-3242025	Air	2-Butanone	9.44		0.35	1.47	ug/m3
Q1665-09	IA-B9-2-3242025	Air	Carbon Tetrachloride	0.57		0.060	0.19	ug/m3
Q1665-09	IA-B9-2-3242025	Air	Benzene	0.96	J	0.29	1.60	ug/m3
Q1665-09	IA-B9-2-3242025	Air	Toluene	1.47	J	0.41	1.88	ug/m3
Q1665-09	IA-B9-2-3242025	Air	Chlorobenzene	0.92	J	0.37	2.30	ug/m3
Q1665-09	IA-B9-2-3242025	Air	Hexane	6.70		0.39	1.76	ug/m3
Total Voc :				44.4				
Q1665-09	IA-B9-2-3242025	Air	.alpha.-Pinene	* 1.10	J	0	0	ppbv
Q1665-09	IA-B9-2-3242025	Air	Benzaldehyde	* 2.30	J	0	0	ppbv
Q1665-09	IA-B9-2-3242025	Air	Butane	* 2.10	J	0	0	ppbv
Q1665-09	IA-B9-2-3242025	Air	Chlorodifluoromethane	* 0.83	J	0.090	0.50	ppbv
Q1665-09	IA-B9-2-3242025	Air	Propene	* 4.50	J	0.15	0.50	ppbv
Total Tics :				10.8				
Total Concentration:				55.3				
Client ID:	IA-B10-4-3242025							
Q1665-10	IA-B10-4-3242025	Air	Dichlorodifluoromethane	1.93	J	1.04	2.47	ug/m3
Q1665-10	IA-B10-4-3242025	Air	Chloromethane	1.26		0.21	1.03	ug/m3
Q1665-10	IA-B10-4-3242025	Air	Trichlorofluoromethane	1.07	J	0.90	2.81	ug/m3
Q1665-10	IA-B10-4-3242025	Air	tert-Butyl alcohol	0.64	J	0.58	1.52	ug/m3
Q1665-10	IA-B10-4-3242025	Air	Heptane	0.57	J	0.45	2.05	ug/m3
Q1665-10	IA-B10-4-3242025	Air	Acetone	182	E	0.57	1.19	ug/m3
Q1665-10	IA-B10-4-3242025	Air	Methylene Chloride	2.05		0.66	1.74	ug/m3
Q1665-10	IA-B10-4-3242025	Air	2-Butanone	472	E	0.35	1.47	ug/m3
Q1665-10	IA-B10-4-3242025	Air	Carbon Tetrachloride	0.50		0.060	0.19	ug/m3
Q1665-10	IA-B10-4-3242025	Air	Chloroform	2.83		0.39	2.44	ug/m3
Q1665-10	IA-B10-4-3242025	Air	2,2,4-Trimethylpentane	0.47	J	0.47	2.34	ug/m3
Q1665-10	IA-B10-4-3242025	Air	Benzene	1.50	J	0.29	1.60	ug/m3
Q1665-10	IA-B10-4-3242025	Air	Toluene	1.58	J	0.41	1.88	ug/m3
Q1665-10	IA-B10-4-3242025	Air	1,2,4-Trimethylbenzene	0.54	J	0.39	2.46	ug/m3
Q1665-10	IA-B10-4-3242025	Air	Hexane	7.75		0.39	1.76	ug/m3
Total Voc :				677				
Q1665-10	IA-B10-4-3242025	Air	Limonene	* 6.40	J	0	0	ppbv
Q1665-10	IA-B10-4-3242025	Air	Chlorodifluoromethane	* 0.31	J	0.090	0.50	ppbv
Q1665-10	IA-B10-4-3242025	Air	Propene	* 110	J	0.15	0.50	ppbv

Hit Summary Sheet SW-846

SDG No.: Q1665

Client: Woodard & Curran

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Total Tics :				117				
Total Concentration:				793				
Client ID:	IA-B10-4-3242025DL							
Q1665-10DL	IA-B10-4-3242025I	Air	Acetone	333	D	22.8	47.5	ug/m3
Q1665-10DL	IA-B10-4-3242025I	Air	2-Butanone	2060	ED	14.2	59.0	ug/m3
Total Voc :				2400				
Total Concentration:				2400				
Client ID:	IA-B10-4-3242025DL2							
Q1665-10DL2	IA-B10-4-3242025I	Air	Acetone	285	D	57.0	119	ug/m3
Q1665-10DL2	IA-B10-4-3242025I	Air	2-Butanone	1420	D	35.4	147	ug/m3
Total Voc :				1700				
Total Concentration:				1700				
Client ID:	IA-B10-1-3242025							
Q1665-11	IA-B10-1-3242025	Air	Dichlorodifluoromethane	2.13	J	1.04	2.47	ug/m3
Q1665-11	IA-B10-1-3242025	Air	Chloromethane	1.22		0.21	1.03	ug/m3
Q1665-11	IA-B10-1-3242025	Air	Trichlorofluoromethane	1.24	J	0.90	2.81	ug/m3
Q1665-11	IA-B10-1-3242025	Air	tert-Butyl alcohol	1.27	J	0.58	1.52	ug/m3
Q1665-11	IA-B10-1-3242025	Air	Acetone	186	E	0.57	1.19	ug/m3
Q1665-11	IA-B10-1-3242025	Air	Methylene Chloride	51.4		0.66	1.74	ug/m3
Q1665-11	IA-B10-1-3242025	Air	2-Butanone	36.3		0.35	1.47	ug/m3
Q1665-11	IA-B10-1-3242025	Air	Carbon Tetrachloride	0.50		0.060	0.19	ug/m3
Q1665-11	IA-B10-1-3242025	Air	Chloroform	5.37		0.39	2.44	ug/m3
Q1665-11	IA-B10-1-3242025	Air	Benzene	1.47	J	0.29	1.60	ug/m3
Q1665-11	IA-B10-1-3242025	Air	4-Methyl-2-Pentanone	0.66	J	0.37	2.05	ug/m3
Q1665-11	IA-B10-1-3242025	Air	Toluene	1.51	J	0.41	1.88	ug/m3
Q1665-11	IA-B10-1-3242025	Air	m/p-Xylene	0.96	J	0.91	4.34	ug/m3
Q1665-11	IA-B10-1-3242025	Air	o-Xylene	0.65	J	0.52	2.17	ug/m3
Q1665-11	IA-B10-1-3242025	Air	1,3,5-Trimethylbenzene	0.79	J	0.54	2.46	ug/m3
Q1665-11	IA-B10-1-3242025	Air	1,2,4-Trimethylbenzene	2.80		0.39	2.46	ug/m3
Q1665-11	IA-B10-1-3242025	Air	Hexane	28.6		0.39	1.76	ug/m3
Total Voc :				323				
Q1665-11	IA-B10-1-3242025	Air	unknown3.230	* 1.30	J	0	0	ppbv
Q1665-11	IA-B10-1-3242025	Air	Butane	* 2.20	J	0	0	ppbv
Q1665-11	IA-B10-1-3242025	Air	Decane	* 1.80	J	0	0	ppbv
Q1665-11	IA-B10-1-3242025	Air	1-Hexene, 4-methyl-	* 1.30	J	0	0	ppbv
Q1665-11	IA-B10-1-3242025	Air	D-Limonene	* 8.40	J	0	0	ppbv
Q1665-11	IA-B10-1-3242025	Air	Propene	* 3.80	J	0.15	0.50	ppbv
Q1665-11	IA-B10-1-3242025	Air	p-Isopropyltoluene	* 0.12	J	0.090	0.50	ppbv

Hit Summary Sheet
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SDG No.: Q1665

Client: Woodard & Curran

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Total Tics :				18.9				
Total Concentration:				342				
Client ID:	IA-B10-1-3242025DL							
Q1665-11DL	IA-B10-1-3242025I	Air	Acetone	309	D	5.70	11.9	ug/m3
Q1665-11DL	IA-B10-1-3242025I	Air	Methylene Chloride	57.0	D	6.60	17.4	ug/m3
Q1665-11DL	IA-B10-1-3242025I	Air	2-Butanone	29.5	D	3.54	14.8	ug/m3
Q1665-11DL	IA-B10-1-3242025I	Air	Chloroform	4.88	JD	4.05	24.4	ug/m3
Q1665-11DL	IA-B10-1-3242025I	Air	Hexane	15.5	JD	3.88	17.6	ug/m3
Total Voc :				416				
Total Concentration:				416				
Client ID:	IA-B14-1-3242025							
Q1665-15	IA-B14-1-3242025	Air	Dichlorodifluoromethane	2.13	J	1.04	2.47	ug/m3
Q1665-15	IA-B14-1-3242025	Air	Chloromethane	1.36		0.21	1.03	ug/m3
Q1665-15	IA-B14-1-3242025	Air	Trichlorofluoromethane	1.18	J	0.90	2.81	ug/m3
Q1665-15	IA-B14-1-3242025	Air	Heptane	0.61	J	0.45	2.05	ug/m3
Q1665-15	IA-B14-1-3242025	Air	Acetone	91.2	E	0.57	1.19	ug/m3
Q1665-15	IA-B14-1-3242025	Air	Methylene Chloride	4.17		0.66	1.74	ug/m3
Q1665-15	IA-B14-1-3242025	Air	2-Butanone	2.18		0.35	1.47	ug/m3
Q1665-15	IA-B14-1-3242025	Air	Carbon Tetrachloride	0.50		0.060	0.19	ug/m3
Q1665-15	IA-B14-1-3242025	Air	Chloroform	1.03	J	0.39	2.44	ug/m3
Q1665-15	IA-B14-1-3242025	Air	1,1,1-Trichloroethane	0.22		0.050	0.16	ug/m3
Q1665-15	IA-B14-1-3242025	Air	2,2,4-Trimethylpentane	0.84	J	0.47	2.34	ug/m3
Q1665-15	IA-B14-1-3242025	Air	Benzene	0.77	J	0.29	1.60	ug/m3
Q1665-15	IA-B14-1-3242025	Air	4-Methyl-2-Pentanone	0.57	J	0.37	2.05	ug/m3
Q1665-15	IA-B14-1-3242025	Air	Toluene	3.32		0.41	1.88	ug/m3
Q1665-15	IA-B14-1-3242025	Air	Ethyl Benzene	21.7		0.52	2.17	ug/m3
Q1665-15	IA-B14-1-3242025	Air	m/p-Xylene	92.5		0.91	4.34	ug/m3
Q1665-15	IA-B14-1-3242025	Air	o-Xylene	17.8		0.52	2.17	ug/m3
Q1665-15	IA-B14-1-3242025	Air	1,3,5-Trimethylbenzene	0.54	J	0.54	2.46	ug/m3
Q1665-15	IA-B14-1-3242025	Air	1,2,4-Trimethylbenzene	1.33	J	0.39	2.46	ug/m3
Q1665-15	IA-B14-1-3242025	Air	Naphthalene	0.73		0.42	0.52	ug/m3
Q1665-15	IA-B14-1-3242025	Air	Hexane	9.52		0.39	1.76	ug/m3
Q1665-15	IA-B14-1-3242025	Air	1,4-Dioxane	3.60		0.76	1.80	ug/m3
Total Voc :				258				
Q1665-15	IA-B14-1-3242025	Air	Hexanoic acid, methyl ester	* 4.30	J	0	0	ppbv
Q1665-15	IA-B14-1-3242025	Air	Heptanoic acid, methyl ester	* 10.6	J	0	0	ppbv
Q1665-15	IA-B14-1-3242025	Air	Butane	* 1.20	J	0	0	ppbv

Hit Summary Sheet SW-846

SDG No.: Q1665

Client: Woodard & Curran

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q1665-15	IA-B14-1-3242025	Air	1-Pentene, 2,4,4-trimethyl-	* 1.60	J	0	0	ppbv
Q1665-15	IA-B14-1-3242025	Air	Octanoic acid, methyl ester	* 6.40	J	0	0	ppbv
Q1665-15	IA-B14-1-3242025	Air	Chlorodifluoromethane	* 0.31	J	0.090	0.50	ppbv
Q1665-15	IA-B14-1-3242025	Air	Naphthalene,2-methyl-	* 0.15	J	0.15	0.50	ppbv
Q1665-15	IA-B14-1-3242025	Air	Propene	* 1.60	J	0.15	0.50	ppbv
Q1665-15	IA-B14-1-3242025	Air	2-Hexanone	* 1.50	J	0.080	0.50	ppbv
Total Tics :				27.7				
Total Concentration:				286				
Client ID:	IA-B14-1-3242025DL							
Q1665-15DL	IA-B14-1-3242025I	Air	Acetone	101	D	5.70	11.9	ug/m3
Q1665-15DL	IA-B14-1-3242025I	Air	2-Butanone	3.83	JD	3.54	14.8	ug/m3
Q1665-15DL	IA-B14-1-3242025I	Air	Ethyl Benzene	22.1	D	5.21	21.7	ug/m3
Q1665-15DL	IA-B14-1-3242025I	Air	m/p-Xylene	96.9	D	9.12	43.4	ug/m3
Q1665-15DL	IA-B14-1-3242025I	Air	o-Xylene	17.8	JD	5.21	21.7	ug/m3
Total Voc :				242				
Total Concentration:				242				
Client ID:	IA-B10-3-3242025							
Q1665-18	IA-B10-3-3242025	Air	Dichlorodifluoromethane	2.18	J	1.04	2.47	ug/m3
Q1665-18	IA-B10-3-3242025	Air	Chloromethane	1.26		0.21	1.03	ug/m3
Q1665-18	IA-B10-3-3242025	Air	Trichlorofluoromethane	1.07	J	0.90	2.81	ug/m3
Q1665-18	IA-B10-3-3242025	Air	tert-Butyl alcohol	1.36	J	0.58	1.52	ug/m3
Q1665-18	IA-B10-3-3242025	Air	Heptane	0.78	J	0.45	2.05	ug/m3
Q1665-18	IA-B10-3-3242025	Air	Acetone	215	E	0.57	1.19	ug/m3
Q1665-18	IA-B10-3-3242025	Air	Methylene Chloride	3.13		0.66	1.74	ug/m3
Q1665-18	IA-B10-3-3242025	Air	2-Butanone	67.0	E	0.35	1.47	ug/m3
Q1665-18	IA-B10-3-3242025	Air	Carbon Tetrachloride	0.50		0.060	0.19	ug/m3
Q1665-18	IA-B10-3-3242025	Air	Chloroform	7.33		0.39	2.44	ug/m3
Q1665-18	IA-B10-3-3242025	Air	Benzene	2.17		0.29	1.60	ug/m3
Q1665-18	IA-B10-3-3242025	Air	4-Methyl-2-Pentanone	1.84	J	0.37	2.05	ug/m3
Q1665-18	IA-B10-3-3242025	Air	Toluene	2.03		0.41	1.88	ug/m3
Q1665-18	IA-B10-3-3242025	Air	Tetrachloroethene	0.27		0.14	0.20	ug/m3
Q1665-18	IA-B10-3-3242025	Air	1,2,4-Trimethylbenzene	0.79	J	0.39	2.46	ug/m3
Q1665-18	IA-B10-3-3242025	Air	Hexane	9.52		0.39	1.76	ug/m3
Total Voc :				316				
Q1665-18	IA-B10-3-3242025	Air	Butane	* 1.30	J	0	0	ppbv
Q1665-18	IA-B10-3-3242025	Air	D-Limonene	* 18.0	J	0	0	ppbv
Q1665-18	IA-B10-3-3242025	Air	Butanoic acid, 2-methyl-, ethyl	* 1.40	J	0	0	ppbv

Hit Summary Sheet
SW-846

SDG No.: Q1665

Client: Woodard & Curran

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q1665-18	IA-B10-3-3242025	Air	Bicyclo[3.1.1]heptane, 6,6-dim	* 1.10	J	0	0	ppbv
Q1665-18	IA-B10-3-3242025	Air	Chlorodifluoromethane	* 0.18	J	0.090	0.50	ppbv
Q1665-18	IA-B10-3-3242025	Air	Propene	* 5.00	J	0.15	0.50	ppbv
Q1665-18	IA-B10-3-3242025	Air	p-Isopropyltoluene	* 0.11	J	0.090	0.50	ppbv
Total Tics :				27.1				
Total Concentration:				343				
Client ID:	IA-B10-3-3242025DL							
Q1665-18DL	IA-B10-3-3242025I	Air	Acetone	356	D	5.70	11.9	ug/m3
Q1665-18DL	IA-B10-3-3242025I	Air	2-Butanone	44.5	D	3.54	14.8	ug/m3
Q1665-18DL	IA-B10-3-3242025I	Air	Chloroform	6.35	JD	4.05	24.4	ug/m3
Q1665-18DL	IA-B10-3-3242025I	Air	Hexane	5.99	JD	3.88	17.6	ug/m3
Total Voc :				413				
Total Concentration:				413				
Client ID:	IA-B9-3-3242025							
Q1665-20	IA-B9-3-3242025	Air	Dichlorodifluoromethane	2.08	J	1.04	2.47	ug/m3
Q1665-20	IA-B9-3-3242025	Air	Chloromethane	1.01	J	0.21	1.03	ug/m3
Q1665-20	IA-B9-3-3242025	Air	Tetrahydrofuran	0.83	J	0.38	1.47	ug/m3
Q1665-20	IA-B9-3-3242025	Air	Trichlorofluoromethane	1.18	J	0.90	2.81	ug/m3
Q1665-20	IA-B9-3-3242025	Air	Heptane	0.66	J	0.45	2.05	ug/m3
Q1665-20	IA-B9-3-3242025	Air	Acetone	19.0		0.57	1.19	ug/m3
Q1665-20	IA-B9-3-3242025	Air	Methylene Chloride	4.52		0.66	1.74	ug/m3
Q1665-20	IA-B9-3-3242025	Air	2-Butanone	7.37		0.35	1.47	ug/m3
Q1665-20	IA-B9-3-3242025	Air	Carbon Tetrachloride	0.50		0.060	0.19	ug/m3
Q1665-20	IA-B9-3-3242025	Air	Benzene	0.89	J	0.29	1.60	ug/m3
Q1665-20	IA-B9-3-3242025	Air	Toluene	2.00		0.41	1.88	ug/m3
Q1665-20	IA-B9-3-3242025	Air	Chlorobenzene	0.60	J	0.37	2.30	ug/m3
Q1665-20	IA-B9-3-3242025	Air	m/p-Xylene	0.96	J	0.91	4.34	ug/m3
Q1665-20	IA-B9-3-3242025	Air	o-Xylene	0.56	J	0.52	2.17	ug/m3
Q1665-20	IA-B9-3-3242025	Air	Hexane	5.29		0.39	1.76	ug/m3
Total Voc :				47.5				
Q1665-20	IA-B9-3-3242025	Air	Benzaldehyde	* 1.10	J	0	0	ppbv
Q1665-20	IA-B9-3-3242025	Air	Butane	* 1.30	J	0	0	ppbv
Q1665-20	IA-B9-3-3242025	Air	Chlorodifluoromethane	* 0.56	J	0.090	0.50	ppbv
Q1665-20	IA-B9-3-3242025	Air	Propene	* 3.10	J	0.15	0.50	ppbv
Total Tics :				6.06				
Total Concentration:				53.5				

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 03/25/25

Field Id Number : AA-DUP-1-3242025

Analysis Date : 04/09/25

Laboratory Id Number : Q1665-01

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	0.4	J	1.98		
Chloromethane	74-87-3	50.49	0.56		1.16		
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	0.21	J	1.18		
Dichlorotetrafluoroethane	76-14-2	170.9	0.09	U	0.63		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.16	U	1.23		
tert-Butyl alcohol	75-65-0	74.12	0.19	U	0.58		
Heptane	142-82-5	100.2	0.11	J	0.45		
1,1-Dichloroethene	75-35-4	96.94	0.14	U	0.56		
Acetone	67-64-1	58.08	3.6		8.55		
Carbon Disulfide	75-15-0	76.14	0.16	U	0.5		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.12	U	0.43		
Methylene Chloride	75-09-2	84.94	0.95		3.3		
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	0.22	U	0.76		
2-Butanone	78-93-3	72.11	0.36	J	1.06		
Carbon Tetrachloride	56-23-5	153.8	0.07		0.44		
cis-1,2-Dichloroethene	156-59-2	96.94	0.09	U	0.36		
Chloroform	67-66-3	119.4	0.08	U	0.39		
1,1,1-Trichloroethane	71-55-6	133.4	0.01	U	0.05		
2,2,4-Trimethylpentane	540-84-1	114.2	0.1	U	0.47		
Benzene	71-43-2	78.11	0.25	J	0.8		
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	0.32	J	1.21		
t-1,3-Dichloropropene	10061-02-6	111	0.06	U	0.27		
cis-1,3-Dichloropropene	10061-01-5	111	0.06	U	0.27		
1,1,2-Trichloroethane	79-00-5	133.4	0.07	U	0.38		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 03/25/25

Field Id Number : AA-DUP-1-3242025

Analysis Date : 04/09/25

Laboratory Id Number : Q1665-01

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	0.07	U	0.6		
1,2-Dibromoethane	106-93-4	187.9	0.07	U	0.54		
Tetrachloroethene	127-18-4	165.8	0.02	U	0.14		
Chlorobenzene	108-90-7	112.6	0.08	U	0.37		
Ethyl Benzene	100-41-4	106.2	0.12	U	0.52		
m/p-Xylene	179601-23-1	106.2	0.21	U	0.91		
o-Xylene	95-47-6	106.2	0.12	U	0.52		
Styrene	100-42-5	104.1	0.11	U	0.47		
Bromoform	75-25-2	252.8	0.06	U	0.62		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.01	U	0.07		
2-Chlorotoluene	95-49-8	126.6	0.11	U	0.57		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.11	U	0.54		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.08	U	0.39		
1,3-Dichlorobenzene	541-73-1	147	0.08	U	0.48		
1,4-Dichlorobenzene	106-46-7	147	0.05	U	0.3		
1,2-Dichlorobenzene	95-50-1	147	0.08	U	0.48		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.09	U	0.67		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.09	U	0.96		
Naphthalene	91-20-3	128.17	0.08	U	0.42		
1,3-Butadiene	106-99-0	54.09	0.13	U	0.29		
4-Ethyltoluene	622-96-8	120.2	0.12	U	0.59		
Hexane	110-54-3	86.17	1.6		5.64		
Allyl Chloride	107-05-1	76.53	0.15	U	0.47		
1,4-Dioxane	123-91-1	88.12	0.21	U	0.76		
Methyl Methacrylate	80-62-6	100.117	0.09	U	0.37		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 03/25/25

Field Id Number : IA-B10-2-3242025

Analysis Date : 04/11/25

Laboratory Id Number : Q1665-03

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	0.4	J	1.98		
Chloromethane	74-87-3	50.49	0.59		1.22		
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	0.21	J	1.18		
Dichlorotetrafluoroethane	76-14-2	170.9	0.09	U	0.63		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.16	U	1.23		
tert-Butyl alcohol	75-65-0	74.12	0.47	J	1.42		
Heptane	142-82-5	100.2	0.17	J	0.7		
1,1-Dichloroethene	75-35-4	96.94	0.14	U	0.56		
Acetone	67-64-1	58.08	82.7	E	196		
Carbon Disulfide	75-15-0	76.14	0.16	U	0.5		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.12	U	0.43		
Methylene Chloride	75-09-2	84.94	1.6		5.56		
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	0.22	U	0.76		
2-Butanone	78-93-3	72.11	26.8	E	79.0		
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	1.4		6.84		
1,1,1-Trichloroethane	71-55-6	133.4	0.01	U	0.05		
2,2,4-Trimethylpentane	540-84-1	114.2	0.1	U	0.47		
Benzene	71-43-2	78.11	0.6		1.92		
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	0.49	J	1.85		
t-1,3-Dichloropropene	10061-02-6	111	0.06	U	0.27		
cis-1,3-Dichloropropene	10061-01-5	111	0.06	U	0.27		
1,1,2-Trichloroethane	79-00-5	133.4	0.07	U	0.38		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 03/25/25

Field Id Number : IA-B10-2-3242025

Analysis Date : 04/11/25

Laboratory Id Number : Q1665-03

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	0.07	U	0.6		
1,2-Dibromoethane	106-93-4	187.9	0.07	U	0.54		
Tetrachloroethene	127-18-4	165.8	0.04		0.27		
Chlorobenzene	108-90-7	112.6	0.08	U	0.37		
Ethyl Benzene	100-41-4	106.2	0.12	U	0.52		
m/p-Xylene	179601-23-1	106.2	0.21	U	0.91		
o-Xylene	95-47-6	106.2	0.12	J	0.52		
Styrene	100-42-5	104.1	0.11	U	0.47		
Bromoform	75-25-2	252.8	0.06	U	0.62		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.01	U	0.07		
2-Chlorotoluene	95-49-8	126.6	0.11	U	0.57		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.11	U	0.54		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.12	J	0.59		
1,3-Dichlorobenzene	541-73-1	147	0.08	U	0.48		
1,4-Dichlorobenzene	106-46-7	147	0.05	U	0.3		
1,2-Dichlorobenzene	95-50-1	147	0.08	U	0.48		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.09	U	0.67		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.09	U	0.96		
Naphthalene	91-20-3	128.17	0.08	U	0.42		
1,3-Butadiene	106-99-0	54.09	0.13	U	0.29		
4-Ethyltoluene	622-96-8	120.2	0.12	U	0.59		
Hexane	110-54-3	86.17	2.5		8.81		
Allyl Chloride	107-05-1	76.53	0.15	U	0.47		
1,4-Dioxane	123-91-1	88.12	0.21	U	0.76		
Methyl Methacrylate	80-62-6	100.117	0.09	U	0.37		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 03/25/25

Field Id Number : IA-B10-2-3242025DL

Analysis Date : 04/11/25

Laboratory Id Number : Q1665-03DL

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	2.1	UD	10.4		
Chloromethane	74-87-3	50.49	0.98	UD	2.02		
Vinyl Chloride	75-01-4	62.5	0.14	UD	0.36		
Bromomethane	74-83-9	94.94	1.4	UD	5.44		
Chloroethane	75-00-3	64.52	1.7	UD	4.49		
Tetrahydrofuran	109-99-9	72.11	1.3	UD	3.83		
Trichlorofluoromethane	75-69-4	137.4	1.6	UD	8.99		
Dichlorotetrafluoroethane	76-14-2	170.9	0.88	UD	6.15		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	1.6	UD	12.3		
tert-Butyl alcohol	75-65-0	74.12	1.9	UD	5.76		
Heptane	142-82-5	100.2	1.1	UD	4.51		
1,1-Dichloroethene	75-35-4	96.94	1.4	UD	5.55		
Acetone	67-64-1	58.08	140	D	332		
Carbon Disulfide	75-15-0	76.14	1.6	UD	4.98		
Methyl tert-Butyl Ether	1634-04-4	88.15	1.2	UD	4.33		
Methylene Chloride	75-09-2	84.94	3.3	JD	11.5		
trans-1,2-Dichloroethene	156-60-5	96.94	1.9	UD	7.53		
1,1-Dichloroethane	75-34-3	98.96	1.3	UD	5.26		
Cyclohexane	110-82-7	84.16	2.2	UD	7.57		
2-Butanone	78-93-3	72.11	21.5	D	63.4		
Carbon Tetrachloride	56-23-5	153.8	0.11	UD	0.69		
cis-1,2-Dichloroethene	156-59-2	96.94	0.89	UD	3.53		
Chloroform	67-66-3	119.4	1.4	JD	6.84		
1,1,1-Trichloroethane	71-55-6	133.4	0.1	UD	0.55		
2,2,4-Trimethylpentane	540-84-1	114.2	1	UD	4.67		
Benzene	71-43-2	78.11	0.87	UD	2.78		
1,2-Dichloroethane	107-06-2	98.96	0.91	UD	3.68		
Trichloroethene	79-01-6	131.4	0.17	UD	0.91		
1,2-Dichloropropane	78-87-5	113	1.1	UD	5.08		
Bromodichloromethane	75-27-4	163.8	0.77	UD	5.16		
4-Methyl-2-Pentanone	108-10-1	100.2	0.93	UD	3.81		
Toluene	108-88-3	92.14	1.1	UD	4.15		
t-1,3-Dichloropropene	10061-02-6	111	0.6	UD	2.72		
cis-1,3-Dichloropropene	10061-01-5	111	0.64	UD	2.91		
1,1,2-Trichloroethane	79-00-5	133.4	0.71	UD	3.87		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 03/25/25

Field Id Number : IA-B10-2-3242025DL

Analysis Date : 04/11/25

Laboratory Id Number : Q1665-03DL

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	0.66	UD	5.62		
1,2-Dibromoethane	106-93-4	187.9	0.72	UD	5.53		
Tetrachloroethene	127-18-4	165.8	0.15	UD	1.02		
Chlorobenzene	108-90-7	112.6	0.76	UD	3.5		
Ethyl Benzene	100-41-4	106.2	1.2	UD	5.21		
m/p-Xylene	179601-23-1	106.2	2.1	UD	9.12		
o-Xylene	95-47-6	106.2	1.2	UD	5.21		
Styrene	100-42-5	104.1	1.1	UD	4.68		
Bromoform	75-25-2	252.8	0.57	UD	5.89		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.11	UD	0.76		
2-Chlorotoluene	95-49-8	126.6	1.1	UD	5.7		
1,3,5-Trimethylbenzene	108-67-8	120.2	1.1	UD	5.41		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.78	UD	3.83		
1,3-Dichlorobenzene	541-73-1	147	0.8	UD	4.81		
1,4-Dichlorobenzene	106-46-7	147	0.53	UD	3.19		
1,2-Dichlorobenzene	95-50-1	147	0.75	UD	4.51		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.85	UD	6.31		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.85	UD	9.07		
Naphthalene	91-20-3	128.17	0.75	UD	3.93		
1,3-Butadiene	106-99-0	54.09	1.3	UD	2.88		
4-Ethyltoluene	622-96-8	120.2	1.2	UD	5.9		
Hexane	110-54-3	86.17	1.9	JD	6.7		
Allyl Chloride	107-05-1	76.53	1.5	UD	4.7		
1,4-Dioxane	123-91-1	88.12	2.1	UD	7.57		
Methyl Methacrylate	80-62-6	100.117	0.86	UD	3.52		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 03/25/25

Field Id Number : AA-1-3242025

Analysis Date : 04/09/25

Laboratory Id Number : Q1665-04

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	0.4	J	1.98		
Chloromethane	74-87-3	50.49	0.55		1.14		
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	0.21	J	1.18		
Dichlorotetrafluoroethane	76-14-2	170.9	0.09	U	0.63		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.16	U	1.23		
tert-Butyl alcohol	75-65-0	74.12	0.19	U	0.58		
Heptane	142-82-5	100.2	0.11	U	0.45		
1,1-Dichloroethene	75-35-4	96.94	0.14	U	0.56		
Acetone	67-64-1	58.08	3.5		8.31		
Carbon Disulfide	75-15-0	76.14	0.16	U	0.5		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.12	U	0.43		
Methylene Chloride	75-09-2	84.94	0.67		2.33		
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	0.22	U	0.76		
2-Butanone	78-93-3	72.11	0.35	J	1.03		
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	0.01	U	0.05		
2,2,4-Trimethylpentane	540-84-1	114.2	0.1	U	0.47		
Benzene	71-43-2	78.11	0.25	J	0.8		
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	0.28	J	1.06		
t-1,3-Dichloropropene	10061-02-6	111	0.06	U	0.27		
cis-1,3-Dichloropropene	10061-01-5	111	0.06	U	0.27		
1,1,2-Trichloroethane	79-00-5	133.4	0.07	U	0.38		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 03/25/25

Field Id Number : AA-1-3242025

Analysis Date : 04/09/25

Laboratory Id Number : Q1665-04

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	0.07	U	0.6		
1,2-Dibromoethane	106-93-4	187.9	0.07	U	0.54		
Tetrachloroethene	127-18-4	165.8	0.02	U	0.14		
Chlorobenzene	108-90-7	112.6	0.08	U	0.37		
Ethyl Benzene	100-41-4	106.2	0.12	U	0.52		
m/p-Xylene	179601-23-1	106.2	0.21	U	0.91		
o-Xylene	95-47-6	106.2	0.12	U	0.52		
Styrene	100-42-5	104.1	0.11	U	0.47		
Bromoform	75-25-2	252.8	0.06	U	0.62		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.01	U	0.07		
2-Chlorotoluene	95-49-8	126.6	0.11	U	0.57		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.11	U	0.54		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.08	U	0.39		
1,3-Dichlorobenzene	541-73-1	147	0.08	U	0.48		
1,4-Dichlorobenzene	106-46-7	147	0.05	U	0.3		
1,2-Dichlorobenzene	95-50-1	147	0.08	U	0.48		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.09	U	0.67		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.09	U	0.96		
Naphthalene	91-20-3	128.17	0.08	U	0.42		
1,3-Butadiene	106-99-0	54.09	0.13	U	0.29		
4-Ethyltoluene	622-96-8	120.2	0.12	U	0.59		
Hexane	110-54-3	86.17	1.1		3.88		
Allyl Chloride	107-05-1	76.53	0.15	U	0.47		
1,4-Dioxane	123-91-1	88.12	0.21	U	0.76		
Methyl Methacrylate	80-62-6	100.117	0.09	U	0.37		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 03/25/25

Field Id Number : IA-B9-1-3242025

Analysis Date : 04/09/25

Laboratory Id Number : Q1665-06

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	0.37	J	1.83		
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	0.33	J	0.97		
Trichlorofluoromethane	75-69-4	137.4	0.22	J	1.24		
Dichlorotetrafluoroethane	76-14-2	170.9	0.09	U	0.63		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.16	U	1.23		
tert-Butyl alcohol	75-65-0	74.12	0.19	U	0.58		
Heptane	142-82-5	100.2	0.12	J	0.49		
1,1-Dichloroethene	75-35-4	96.94	0.14	U	0.56		
Acetone	67-64-1	58.08	8.5		20.2		
Carbon Disulfide	75-15-0	76.14	0.16	U	0.5		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.12	U	0.43		
Methylene Chloride	75-09-2	84.94	1.1		3.82		
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	0.22	U	0.76		
2-Butanone	78-93-3	72.11	4.7		13.9		
Carbon Tetrachloride	56-23-5	153.8	0.08		0.5		
cis-1,2-Dichloroethene	156-59-2	96.94	0.09	U	0.36		
Chloroform	67-66-3	119.4	0.08	U	0.39		
1,1,1-Trichloroethane	71-55-6	133.4	0.01	U	0.05		
2,2,4-Trimethylpentane	540-84-1	114.2	0.1	U	0.47		
Benzene	71-43-2	78.11	0.29	J	0.93		
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	0.48	J	1.81		
t-1,3-Dichloropropene	10061-02-6	111	0.06	U	0.27		
cis-1,3-Dichloropropene	10061-01-5	111	0.06	U	0.27		
1,1,2-Trichloroethane	79-00-5	133.4	0.07	U	0.38		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 03/25/25

Field Id Number : IA-B9-1-3242025

Analysis Date : 04/09/25

Laboratory Id Number : Q1665-06

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	0.07	U	0.6		
1,2-Dibromoethane	106-93-4	187.9	0.07	U	0.54		
Tetrachloroethene	127-18-4	165.8	0.02	U	0.14		
Chlorobenzene	108-90-7	112.6	0.24	J	1.11		
Ethyl Benzene	100-41-4	106.2	0.12	U	0.52		
m/p-Xylene	179601-23-1	106.2	0.21	U	0.91		
o-Xylene	95-47-6	106.2	0.12	U	0.52		
Styrene	100-42-5	104.1	0.11	U	0.47		
Bromoform	75-25-2	252.8	0.06	U	0.62		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.01	U	0.07		
2-Chlorotoluene	95-49-8	126.6	0.11	U	0.57		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.11	U	0.54		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.08	U	0.39		
1,3-Dichlorobenzene	541-73-1	147	0.08	U	0.48		
1,4-Dichlorobenzene	106-46-7	147	0.05	U	0.3		
1,2-Dichlorobenzene	95-50-1	147	0.08	U	0.48		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.09	U	0.67		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.09	U	0.96		
Naphthalene	91-20-3	128.17	0.08	U	0.42		
1,3-Butadiene	106-99-0	54.09	0.13	U	0.29		
4-Ethyltoluene	622-96-8	120.2	0.12	U	0.59		
Hexane	110-54-3	86.17	2		7.05		
Allyl Chloride	107-05-1	76.53	0.15	U	0.47		
1,4-Dioxane	123-91-1	88.12	0.21	U	0.76		
Methyl Methacrylate	80-62-6	100.117	0.09	U	0.37		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 03/24/25

Field Id Number : IA-DUP-2-3242025

Analysis Date : 04/09/25

Laboratory Id Number : Q1665-08

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	0.38	J	1.88		
Chloromethane	74-87-3	50.49	1.1		2.27		
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	0.21	J	0.62		
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		
tert-Butyl alcohol	75-65-0	74.12	0.19	U	0.58		
Heptane	142-82-5	100.2	0.11	U	0.45		
1,1-Dichloroethene	75-35-4	96.94	0.14	U	0.56		
Acetone	67-64-1	58.08	11.6		27.6		
Carbon Disulfide	75-15-0	76.14	0.16	U	0.5		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.12	U	0.43		
Methylene Chloride	75-09-2	84.94	1		3.47		
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	0.22	U	0.76		
2-Butanone	78-93-3	72.11	3.3		9.73		
Carbon Tetrachloride	56-23-5	153.8	0.13		0.82		
cis-1,2-Dichloroethene	156-59-2	96.94	0.09	U	0.36		
Chloroform	67-66-3	119.4	0.32	J	1.56		
1,1,1-Trichloroethane	71-55-6	133.4	0.01	U	0.05		
2,2,4-Trimethylpentane	540-84-1	114.2	0.1	U	0.47		
Benzene	71-43-2	78.11	0.17	J	0.54		
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	0.11	U	0.41		
t-1,3-Dichloropropene	10061-02-6	111	0.06	U	0.27		
cis-1,3-Dichloropropene	10061-01-5	111	0.06	U	0.27		
1,1,2-Trichloroethane	79-00-5	133.4	0.07	U	0.38		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 03/24/25

Field Id Number : IA-DUP-2-3242025

Analysis Date : 04/09/25

Laboratory Id Number : Q1665-08

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	0.07	U	0.6		
1,2-Dibromoethane	106-93-4	187.9	0.07	U	0.54		
Tetrachloroethene	127-18-4	165.8	0.02	U	0.14		
Chlorobenzene	108-90-7	112.6	0.08	U	0.37		
Ethyl Benzene	100-41-4	106.2	0.12	U	0.52		
m/p-Xylene	179601-23-1	106.2	0.21	U	0.91		
o-Xylene	95-47-6	106.2	0.12	U	0.52		
Styrene	100-42-5	104.1	0.11	U	0.47		
Bromoform	75-25-2	252.8	0.06	U	0.62		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.01	U	0.07		
2-Chlorotoluene	95-49-8	126.6	0.11	U	0.57		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.11	U	0.54		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.08	U	0.39		
1,3-Dichlorobenzene	541-73-1	147	0.08	U	0.48		
1,4-Dichlorobenzene	106-46-7	147	0.05	U	0.3		
1,2-Dichlorobenzene	95-50-1	147	0.08	U	0.48		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.09	U	0.67		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.09	U	0.96		
Naphthalene	91-20-3	128.17	0.08	U	0.42		
1,3-Butadiene	106-99-0	54.09	0.13	U	0.29		
4-Ethyltoluene	622-96-8	120.2	0.12	U	0.59		
Hexane	110-54-3	86.17	0.94		3.31		
Allyl Chloride	107-05-1	76.53	0.15	U	0.47		
1,4-Dioxane	123-91-1	88.12	0.21	U	0.76		
Methyl Methacrylate	80-62-6	100.117	0.09	U	0.37		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 03/25/25

Field Id Number : IA-B9-2-3242025

Analysis Date : 04/09/25

Laboratory Id Number : Q1665-09

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	0.42	J	2.08		
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	0.22	J	1.24		
Dichlorotetrafluoroethane	76-14-2	170.9	0.09	U	0.63		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.16	U	1.23		
tert-Butyl alcohol	75-65-0	74.12	0.19	U	0.58		
Heptane	142-82-5	100.2	0.12	J	0.49		
1,1-Dichloroethene	75-35-4	96.94	0.14	U	0.56		
Acetone	67-64-1	58.08	6.4		15.2		
Carbon Disulfide	75-15-0	76.14	0.16	U	0.5		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.12	U	0.43		
Methylene Chloride	75-09-2	84.94	1.2		4.17		
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	0.22	U	0.76		
2-Butanone	78-93-3	72.11	3.2		9.44		
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	0.01	U	0.05		
2,2,4-Trimethylpentane	540-84-1	114.2	0.1	U	0.47		
Benzene	71-43-2	78.11	0.3	J	0.96		
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	0.39	J	1.47		
t-1,3-Dichloropropene	10061-02-6	111	0.06	U	0.27		
cis-1,3-Dichloropropene	10061-01-5	111	0.06	U	0.27		
1,1,2-Trichloroethane	79-00-5	133.4	0.07	U	0.38		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 03/25/25

Field Id Number : IA-B9-2-3242025

Analysis Date : 04/09/25

Laboratory Id Number : Q1665-09

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	0.07	U	0.6		
1,2-Dibromoethane	106-93-4	187.9	0.07	U	0.54		
Tetrachloroethene	127-18-4	165.8	0.02	U	0.14		
Chlorobenzene	108-90-7	112.6	0.2	J	0.92		
Ethyl Benzene	100-41-4	106.2	0.12	U	0.52		
m/p-Xylene	179601-23-1	106.2	0.21	U	0.91		
o-Xylene	95-47-6	106.2	0.12	U	0.52		
Styrene	100-42-5	104.1	0.11	U	0.47		
Bromoform	75-25-2	252.8	0.06	U	0.62		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.01	U	0.07		
2-Chlorotoluene	95-49-8	126.6	0.11	U	0.57		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.11	U	0.54		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.08	U	0.39		
1,3-Dichlorobenzene	541-73-1	147	0.08	U	0.48		
1,4-Dichlorobenzene	106-46-7	147	0.05	U	0.3		
1,2-Dichlorobenzene	95-50-1	147	0.08	U	0.48		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.09	U	0.67		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.09	U	0.96		
1,3-Butadiene	106-99-0	54.09	0.13	U	0.29		
Naphthalene	91-20-3	128.17	0.08	U	0.42		
4-Ethyltoluene	622-96-8	120.2	0.12	U	0.59		
Hexane	110-54-3	86.17	1.9		6.7		
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 : 03/25/25

Field Id Number : IA-B10-4-3242025

Analysis Date : 04/11/25

Laboratory Id Number : Q1665-10

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	0.39	J	1.93		
Chloromethane	74-87-3	50.49	0.61		1.26		
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	0.19	J	1.07		
Dichlorotetrafluoroethane	76-14-2	170.9	0.09	U	0.63		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.16	U	1.23		
tert-Butyl alcohol	75-65-0	74.12	0.21	J	0.64		
Heptane	142-82-5	100.2	0.14	J	0.57		
1,1-Dichloroethene	75-35-4	96.94	0.14	U	0.56		
Acetone	67-64-1	58.08	76.7	E	182		
Carbon Disulfide	75-15-0	76.14	0.16	U	0.5		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.12	U	0.43		
Methylene Chloride	75-09-2	84.94	0.59		2.05		
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	0.22	U	0.76		
2-Butanone	78-93-3	72.11	160	E	471		
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	0.58		2.83		
1,1,1-Trichloroethane	71-55-6	133.4	0.01	U	0.05		
2,2,4-Trimethylpentane	540-84-1	114.2	0.1	J	0.47		
Benzene	71-43-2	78.11	0.47	J	1.5		
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	0.42	J	1.58		
t-1,3-Dichloropropene	10061-02-6	111	0.06	U	0.27		
cis-1,3-Dichloropropene	10061-01-5	111	0.06	U	0.27		
1,1,2-Trichloroethane	79-00-5	133.4	0.07	U	0.38		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 03/25/25

Field Id Number : IA-B10-4-3242025

Analysis Date : 04/11/25

Laboratory Id Number : Q1665-10

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	0.07	U	0.6		
1,2-Dibromoethane	106-93-4	187.9	0.07	U	0.54		
Tetrachloroethene	127-18-4	165.8	0.02	U	0.14		
Chlorobenzene	108-90-7	112.6	0.08	U	0.37		
Ethyl Benzene	100-41-4	106.2	0.12	U	0.52		
m/p-Xylene	179601-23-1	106.2	0.21	U	0.91		
o-Xylene	95-47-6	106.2	0.12	U	0.52		
Styrene	100-42-5	104.1	0.11	U	0.47		
Bromoform	75-25-2	252.8	0.06	U	0.62		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.01	U	0.07		
2-Chlorotoluene	95-49-8	126.6	0.11	U	0.57		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.11	U	0.54		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.11	J	0.54		
1,3-Dichlorobenzene	541-73-1	147	0.08	U	0.48		
1,4-Dichlorobenzene	106-46-7	147	0.05	U	0.3		
1,2-Dichlorobenzene	95-50-1	147	0.08	U	0.48		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.09	U	0.67		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.09	U	0.96		
Naphthalene	91-20-3	128.17	0.08	U	0.42		
1,3-Butadiene	106-99-0	54.09	0.13	U	0.29		
4-Ethyltoluene	622-96-8	120.2	0.12	U	0.59		
Hexane	110-54-3	86.17	2.2		7.75		
Allyl Chloride	107-05-1	76.53	0.15	U	0.47		
1,4-Dioxane	123-91-1	88.12	0.21	U	0.76		
Methyl Methacrylate	80-62-6	100.117	0.09	U	0.37		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 03/25/25

Field Id Number : IA-B10-4-3242025DL

Analysis Date : 04/11/25

Laboratory Id Number : Q1665-10DL

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		
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		
tert-Butyl alcohol	75-65-0	74.12	7.6	UD	23.0		
Heptane	142-82-5	100.2	4.4	UD	18.0		
1,1-Dichloroethene	75-35-4	96.94	5.6	UD	22.2		
Acetone	67-64-1	58.08	140	D	332		
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	700	ED	2064		
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	4	UD	18.7		
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	4.4	UD	16.6		
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		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 03/25/25

Field Id Number : IA-B10-4-3242025DL

Analysis Date : 04/11/25

Laboratory Id Number : Q1665-10DL

Target Analyts : Air Results

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	8.4	UD	36.5		
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		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 03/25/25

Field Id Number : IA-B10-4-3242025DL2

Analysis Date : 04/15/25

Laboratory Id Number : Q1665-10DL2

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		
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		
tert-Butyl alcohol	75-65-0	74.12	19	UD	57.6		
Heptane	142-82-5	100.2	11	UD	45.1		
1,1-Dichloroethene	75-35-4	96.94	14	UD	55.5		
Acetone	67-64-1	58.08	120	D	285		
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	480	D	1415		
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	UD	41.4		
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		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 03/25/25

Field Id Number : IA-B10-4-3242025DL2

Analysis Date : 04/15/25

Laboratory Id Number : Q1665-10DL2

Target Analyts : Air Results

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 : 03/25/25

Field Id Number : IA-B10-1-3242025

Analysis Date : 04/11/25

Laboratory Id Number : Q1665-11

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	0.43	J	2.13		
Chloromethane	74-87-3	50.49	0.59		1.22		
Vinyl Chloride	75-01-4	62.5	0.01	U	0.03		
Bromomethane	74-83-9	94.94	0.14	U	0.54		
Chloroethane	75-00-3	64.52	0.17	U	0.45		
Tetrahydrofuran	109-99-9	72.11	0.13	U	0.38		
Trichlorofluoromethane	75-69-4	137.4	0.22	J	1.24		
Dichlorotetrafluoroethane	76-14-2	170.9	0.09	U	0.63		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.16	U	1.23		
tert-Butyl alcohol	75-65-0	74.12	0.42	J	1.27		
Heptane	142-82-5	100.2	0.11	U	0.45		
1,1-Dichloroethene	75-35-4	96.94	0.14	U	0.56		
Acetone	67-64-1	58.08	78.5	E	186		
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	14.8		51.4		
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	0.22	U	0.76		
2-Butanone	78-93-3	72.11	12.3		36.3		
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	1.1		5.37		
1,1,1-Trichloroethane	71-55-6	133.4	0.01	U	0.05		
2,2,4-Trimethylpentane	540-84-1	114.2	0.1	U	0.47		
Benzene	71-43-2	78.11	0.46	J	1.47		
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	0.16	J	0.66		
Toluene	108-88-3	92.14	0.4	J	1.51		
t-1,3-Dichloropropene	10061-02-6	111	0.06	U	0.27		
cis-1,3-Dichloropropene	10061-01-5	111	0.06	U	0.27		
1,1,2-Trichloroethane	79-00-5	133.4	0.07	U	0.38		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 03/25/25

Field Id Number : IA-B10-1-3242025

Analysis Date : 04/11/25

Laboratory Id Number : Q1665-11

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	0.07	U	0.6		
1,2-Dibromoethane	106-93-4	187.9	0.07	U	0.54		
Tetrachloroethene	127-18-4	165.8	0.02	U	0.14		
Chlorobenzene	108-90-7	112.6	0.08	U	0.37		
Ethyl Benzene	100-41-4	106.2	0.12	U	0.52		
m/p-Xylene	179601-23-1	106.2	0.22	J	0.96		
o-Xylene	95-47-6	106.2	0.15	J	0.65		
Styrene	100-42-5	104.1	0.11	U	0.47		
Bromoform	75-25-2	252.8	0.06	U	0.62		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.01	U	0.07		
2-Chlorotoluene	95-49-8	126.6	0.11	U	0.57		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.16	J	0.79		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.57		2.8		
1,3-Dichlorobenzene	541-73-1	147	0.08	U	0.48		
1,4-Dichlorobenzene	106-46-7	147	0.05	U	0.3		
1,2-Dichlorobenzene	95-50-1	147	0.08	U	0.48		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.09	U	0.67		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.09	U	0.96		
Naphthalene	91-20-3	128.17	0.08	U	0.42		
1,3-Butadiene	106-99-0	54.09	0.13	U	0.29		
4-Ethyltoluene	622-96-8	120.2	0.12	U	0.59		
Hexane	110-54-3	86.17	8.1		28.6		
Allyl Chloride	107-05-1	76.53	0.15	U	0.47		
1,4-Dioxane	123-91-1	88.12	0.21	U	0.76		
Methyl Methacrylate	80-62-6	100.117	0.09	U	0.37		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 03/25/25

Field Id Number : IA-B10-1-3242025DL

Analysis Date : 04/11/25

Laboratory Id Number : Q1665-11DL

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	2.1	UD	10.4		
Chloromethane	74-87-3	50.49	0.98	UD	2.02		
Vinyl Chloride	75-01-4	62.5	0.14	UD	0.36		
Bromomethane	74-83-9	94.94	1.4	UD	5.44		
Chloroethane	75-00-3	64.52	1.7	UD	4.49		
Tetrahydrofuran	109-99-9	72.11	1.3	UD	3.83		
Trichlorofluoromethane	75-69-4	137.4	1.6	UD	8.99		
Dichlorotetrafluoroethane	76-14-2	170.9	0.88	UD	6.15		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	1.6	UD	12.3		
tert-Butyl alcohol	75-65-0	74.12	1.9	UD	5.76		
Heptane	142-82-5	100.2	1.1	UD	4.51		
1,1-Dichloroethene	75-35-4	96.94	1.4	UD	5.55		
Acetone	67-64-1	58.08	130	D	308		
Carbon Disulfide	75-15-0	76.14	1.6	UD	4.98		
Methyl tert-Butyl Ether	1634-04-4	88.15	1.2	UD	4.33		
Methylene Chloride	75-09-2	84.94	16.4	D	57.0		
trans-1,2-Dichloroethene	156-60-5	96.94	1.9	UD	7.53		
1,1-Dichloroethane	75-34-3	98.96	1.3	UD	5.26		
Cyclohexane	110-82-7	84.16	2.2	UD	7.57		
2-Butanone	78-93-3	72.11	10	D	29.5		
Carbon Tetrachloride	56-23-5	153.8	0.11	UD	0.69		
cis-1,2-Dichloroethene	156-59-2	96.94	0.89	UD	3.53		
Chloroform	67-66-3	119.4	1	JD	4.88		
1,1,1-Trichloroethane	71-55-6	133.4	0.1	UD	0.55		
2,2,4-Trimethylpentane	540-84-1	114.2	1	UD	4.67		
Benzene	71-43-2	78.11	0.87	UD	2.78		
1,2-Dichloroethane	107-06-2	98.96	0.91	UD	3.68		
Trichloroethene	79-01-6	131.4	0.17	UD	0.91		
1,2-Dichloropropane	78-87-5	113	1.1	UD	5.08		
Bromodichloromethane	75-27-4	163.8	0.77	UD	5.16		
4-Methyl-2-Pentanone	108-10-1	100.2	0.93	UD	3.81		
Toluene	108-88-3	92.14	1.1	UD	4.15		
t-1,3-Dichloropropene	10061-02-6	111	0.6	UD	2.72		
cis-1,3-Dichloropropene	10061-01-5	111	0.64	UD	2.91		
1,1,2-Trichloroethane	79-00-5	133.4	0.71	UD	3.87		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 03/25/25

Field Id Number : IA-B10-1-3242025DL

Analysis Date : 04/11/25

Laboratory Id Number : Q1665-11DL

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	0.66	UD	5.62		
1,2-Dibromoethane	106-93-4	187.9	0.72	UD	5.53		
Tetrachloroethene	127-18-4	165.8	0.15	UD	1.02		
Chlorobenzene	108-90-7	112.6	0.76	UD	3.5		
Ethyl Benzene	100-41-4	106.2	1.2	UD	5.21		
m/p-Xylene	179601-23-1	106.2	2.1	UD	9.12		
o-Xylene	95-47-6	106.2	1.2	UD	5.21		
Styrene	100-42-5	104.1	1.1	UD	4.68		
Bromoform	75-25-2	252.8	0.57	UD	5.89		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.11	UD	0.76		
2-Chlorotoluene	95-49-8	126.6	1.1	UD	5.7		
1,3,5-Trimethylbenzene	108-67-8	120.2	1.1	UD	5.41		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.78	UD	3.83		
1,3-Dichlorobenzene	541-73-1	147	0.8	UD	4.81		
1,4-Dichlorobenzene	106-46-7	147	0.53	UD	3.19		
1,2-Dichlorobenzene	95-50-1	147	0.75	UD	4.51		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.85	UD	6.31		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.85	UD	9.07		
Naphthalene	91-20-3	128.17	0.75	UD	3.93		
1,3-Butadiene	106-99-0	54.09	1.3	UD	2.88		
4-Ethyltoluene	622-96-8	120.2	1.2	UD	5.9		
Hexane	110-54-3	86.17	4.4	JD	15.5		
Allyl Chloride	107-05-1	76.53	1.5	UD	4.7		
1,4-Dioxane	123-91-1	88.12	2.1	UD	7.57		
Methyl Methacrylate	80-62-6	100.117	0.86	UD	3.52		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 03/25/25

Field Id Number : IA-B14-1-3242025

Analysis Date : 04/17/25

Laboratory Id Number : Q1665-15

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	0.43	J	2.13		
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	0.21	J	1.18		
Dichlorotetrafluoroethane	76-14-2	170.9	0.09	U	0.63		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.16	U	1.23		
tert-Butyl alcohol	75-65-0	74.12	0.19	U	0.58		
Heptane	142-82-5	100.2	0.15	J	0.61		
1,1-Dichloroethene	75-35-4	96.94	0.14	U	0.56		
Acetone	67-64-1	58.08	38.4	E	91.2		
Carbon Disulfide	75-15-0	76.14	0.16	U	0.5		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.12	U	0.43		
Methylene Chloride	75-09-2	84.94	1.2		4.17		
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	0.22	U	0.76		
2-Butanone	78-93-3	72.11	0.74		2.18		
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	0.21	J	1.03		
1,1,1-Trichloroethane	71-55-6	133.4	0.04		0.22		
2,2,4-Trimethylpentane	540-84-1	114.2	0.18	J	0.84		
Benzene	71-43-2	78.11	0.24	J	0.77		
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	0.14	J	0.57		
Toluene	108-88-3	92.14	0.88		3.32		
t-1,3-Dichloropropene	10061-02-6	111	0.06	U	0.27		
cis-1,3-Dichloropropene	10061-01-5	111	0.06	U	0.27		
1,1,2-Trichloroethane	79-00-5	133.4	0.07	U	0.38		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 03/25/25

Field Id Number : IA-B14-1-3242025

Analysis Date : 04/17/25

Laboratory Id Number : Q1665-15

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	0.07	U	0.6		
1,2-Dibromoethane	106-93-4	187.9	0.07	U	0.54		
Tetrachloroethene	127-18-4	165.8	0.02	U	0.14		
Chlorobenzene	108-90-7	112.6	0.08	U	0.37		
Ethyl Benzene	100-41-4	106.2	5		21.7		
m/p-Xylene	179601-23-1	106.2	21.3		92.5		
o-Xylene	95-47-6	106.2	4.1		17.8		
Styrene	100-42-5	104.1	0.11	U	0.47		
Bromoform	75-25-2	252.8	0.06	U	0.62		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.01	U	0.07		
2-Chlorotoluene	95-49-8	126.6	0.11	U	0.57		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.11	J	0.54		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.27	J	1.33		
1,3-Dichlorobenzene	541-73-1	147	0.08	U	0.48		
1,4-Dichlorobenzene	106-46-7	147	0.05	U	0.3		
1,2-Dichlorobenzene	95-50-1	147	0.08	U	0.48		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.09	U	0.67		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.09	U	0.96		
Naphthalene	91-20-3	128.17	0.14		0.73		
1,3-Butadiene	106-99-0	54.09	0.13	U	0.29		
4-Ethyltoluene	622-96-8	120.2	0.12	U	0.59		
Hexane	110-54-3	86.17	2.7		9.52		
Allyl Chloride	107-05-1	76.53	0.15	U	0.47		
1,4-Dioxane	123-91-1	88.12	1		3.6		
Methyl Methacrylate	80-62-6	100.117	0.09	U	0.37		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 03/25/25

Field Id Number : IA-B14-1-3242025DL

Analysis Date : 04/17/25

Laboratory Id Number : Q1665-15DL

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	2.1	UD	10.4		
Chloromethane	74-87-3	50.49	0.98	UD	2.02		
Vinyl Chloride	75-01-4	62.5	0.14	UD	0.36		
Bromomethane	74-83-9	94.94	1.4	UD	5.44		
Chloroethane	75-00-3	64.52	1.7	UD	4.49		
Tetrahydrofuran	109-99-9	72.11	1.3	UD	3.83		
Trichlorofluoromethane	75-69-4	137.4	1.6	UD	8.99		
Dichlorotetrafluoroethane	76-14-2	170.9	0.88	UD	6.15		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	1.6	UD	12.3		
tert-Butyl alcohol	75-65-0	74.12	1.9	UD	5.76		
Heptane	142-82-5	100.2	1.1	UD	4.51		
1,1-Dichloroethene	75-35-4	96.94	1.4	UD	5.55		
Acetone	67-64-1	58.08	42.5	D	100		
Carbon Disulfide	75-15-0	76.14	1.6	UD	4.98		
Methyl tert-Butyl Ether	1634-04-4	88.15	1.2	UD	4.33		
Methylene Chloride	75-09-2	84.94	1.9	UD	6.6		
trans-1,2-Dichloroethene	156-60-5	96.94	1.9	UD	7.53		
1,1-Dichloroethane	75-34-3	98.96	1.3	UD	5.26		
Cyclohexane	110-82-7	84.16	2.2	UD	7.57		
2-Butanone	78-93-3	72.11	1.3	JD	3.83		
Carbon Tetrachloride	56-23-5	153.8	0.11	UD	0.69		
cis-1,2-Dichloroethene	156-59-2	96.94	0.89	UD	3.53		
Chloroform	67-66-3	119.4	0.83	UD	4.05		
1,1,1-Trichloroethane	71-55-6	133.4	0.1	UD	0.55		
2,2,4-Trimethylpentane	540-84-1	114.2	1	UD	4.67		
Benzene	71-43-2	78.11	0.87	UD	2.78		
1,2-Dichloroethane	107-06-2	98.96	0.91	UD	3.68		
Trichloroethene	79-01-6	131.4	0.17	UD	0.91		
1,2-Dichloropropane	78-87-5	113	1.1	UD	5.08		
Bromodichloromethane	75-27-4	163.8	0.77	UD	5.16		
4-Methyl-2-Pentanone	108-10-1	100.2	0.93	UD	3.81		
Toluene	108-88-3	92.14	1.1	UD	4.15		
t-1,3-Dichloropropene	10061-02-6	111	0.6	UD	2.72		
cis-1,3-Dichloropropene	10061-01-5	111	0.64	UD	2.91		
1,1,2-Trichloroethane	79-00-5	133.4	0.71	UD	3.87		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 03/25/25

Field Id Number : IA-B14-1-3242025DL

Analysis Date : 04/17/25

Laboratory Id Number : Q1665-15DL

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	0.66	UD	5.62		
1,2-Dibromoethane	106-93-4	187.9	0.72	UD	5.53		
Tetrachloroethene	127-18-4	165.8	0.15	UD	1.02		
Chlorobenzene	108-90-7	112.6	0.76	UD	3.5		
Ethyl Benzene	100-41-4	106.2	5.1	D	22.2		
m/p-Xylene	179601-23-1	106.2	22.3	D	96.9		
o-Xylene	95-47-6	106.2	4.1	JD	17.8		
Styrene	100-42-5	104.1	1.1	UD	4.68		
Bromoform	75-25-2	252.8	0.57	UD	5.89		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.11	UD	0.76		
2-Chlorotoluene	95-49-8	126.6	1.1	UD	5.7		
1,3,5-Trimethylbenzene	108-67-8	120.2	1.1	UD	5.41		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.78	UD	3.83		
1,3-Dichlorobenzene	541-73-1	147	0.8	UD	4.81		
1,4-Dichlorobenzene	106-46-7	147	0.53	UD	3.19		
1,2-Dichlorobenzene	95-50-1	147	0.75	UD	4.51		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.85	UD	6.31		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.85	UD	9.07		
Naphthalene	91-20-3	128.17	0.75	UD	3.93		
1,3-Butadiene	106-99-0	54.09	1.3	UD	2.88		
4-Ethyltoluene	622-96-8	120.2	1.2	UD	5.9		
Hexane	110-54-3	86.17	1.1	UD	3.88		
Allyl Chloride	107-05-1	76.53	1.5	UD	4.7		
1,4-Dioxane	123-91-1	88.12	2.1	UD	7.57		
Methyl Methacrylate	80-62-6	100.117	0.86	UD	3.52		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 03/25/25

Field Id Number : IA-B10-3-3242025

Analysis Date : 04/11/25

Laboratory Id Number : Q1665-18

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	0.44	J	2.18		
Chloromethane	74-87-3	50.49	0.61		1.26		
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	0.19	J	1.07		
Dichlorotetrafluoroethane	76-14-2	170.9	0.09	U	0.63		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.16	U	1.23		
tert-Butyl alcohol	75-65-0	74.12	0.45	J	1.36		
Heptane	142-82-5	100.2	0.19	J	0.78		
1,1-Dichloroethene	75-35-4	96.94	0.14	U	0.56		
Acetone	67-64-1	58.08	90.6	E	215		
Carbon Disulfide	75-15-0	76.14	0.16	U	0.5		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.12	U	0.43		
Methylene Chloride	75-09-2	84.94	0.9		3.13		
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	0.22	U	0.76		
2-Butanone	78-93-3	72.11	22.7	E	67.0		
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	1.5		7.33		
1,1,1-Trichloroethane	71-55-6	133.4	0.01	U	0.05		
2,2,4-Trimethylpentane	540-84-1	114.2	0.1	U	0.47		
Benzene	71-43-2	78.11	0.68		2.17		
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	0.45	J	1.84		
Toluene	108-88-3	92.14	0.54		2.03		
t-1,3-Dichloropropene	10061-02-6	111	0.06	U	0.27		
cis-1,3-Dichloropropene	10061-01-5	111	0.06	U	0.27		
1,1,2-Trichloroethane	79-00-5	133.4	0.07	U	0.38		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 03/25/25

Field Id Number : IA-B10-3-3242025

Analysis Date : 04/11/25

Laboratory Id Number : Q1665-18

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	0.07	U	0.6		
1,2-Dibromoethane	106-93-4	187.9	0.07	U	0.54		
Tetrachloroethene	127-18-4	165.8	0.04		0.27		
Chlorobenzene	108-90-7	112.6	0.08	U	0.37		
Ethyl Benzene	100-41-4	106.2	0.12	U	0.52		
m/p-Xylene	179601-23-1	106.2	0.21	U	0.91		
o-Xylene	95-47-6	106.2	0.12	U	0.52		
Styrene	100-42-5	104.1	0.11	U	0.47		
Bromoform	75-25-2	252.8	0.06	U	0.62		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.01	U	0.07		
2-Chlorotoluene	95-49-8	126.6	0.11	U	0.57		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.11	U	0.54		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.16	J	0.79		
1,3-Dichlorobenzene	541-73-1	147	0.08	U	0.48		
1,4-Dichlorobenzene	106-46-7	147	0.05	U	0.3		
1,2-Dichlorobenzene	95-50-1	147	0.08	U	0.48		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.09	U	0.67		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.09	U	0.96		
1,3-Butadiene	106-99-0	54.09	0.13	U	0.29		
Naphthalene	91-20-3	128.17	0.08	U	0.42		
4-Ethyltoluene	622-96-8	120.2	0.12	U	0.59		
Hexane	110-54-3	86.17	2.7		9.52		
Allyl Chloride	107-05-1	76.53	0.15	U	0.47		
1,4-Dioxane	123-91-1	88.12	0.21	U	0.76		
Methyl Methacrylate	80-62-6	100.117	0.09	U	0.37		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 03/25/25

Field Id Number : IA-B10-3-3242025DL

Analysis Date : 04/15/25

Laboratory Id Number : Q1665-18DL

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	2.1	UD	10.4		
Chloromethane	74-87-3	50.49	0.98	UD	2.02		
Vinyl Chloride	75-01-4	62.5	0.14	UD	0.36		
Bromomethane	74-83-9	94.94	1.4	UD	5.44		
Chloroethane	75-00-3	64.52	1.7	UD	4.49		
Tetrahydrofuran	109-99-9	72.11	1.3	UD	3.83		
Trichlorofluoromethane	75-69-4	137.4	1.6	UD	8.99		
Dichlorotetrafluoroethane	76-14-2	170.9	0.88	UD	6.15		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	1.6	UD	12.3		
tert-Butyl alcohol	75-65-0	74.12	1.9	UD	5.76		
Heptane	142-82-5	100.2	1.1	UD	4.51		
1,1-Dichloroethene	75-35-4	96.94	1.4	UD	5.55		
Acetone	67-64-1	58.08	150	D	356		
Carbon Disulfide	75-15-0	76.14	1.6	UD	4.98		
Methyl tert-Butyl Ether	1634-04-4	88.15	1.2	UD	4.33		
Methylene Chloride	75-09-2	84.94	1.9	UD	6.6		
trans-1,2-Dichloroethene	156-60-5	96.94	1.9	UD	7.53		
1,1-Dichloroethane	75-34-3	98.96	1.3	UD	5.26		
Cyclohexane	110-82-7	84.16	2.2	UD	7.57		
2-Butanone	78-93-3	72.11	15.1	D	44.5		
Carbon Tetrachloride	56-23-5	153.8	0.11	UD	0.69		
cis-1,2-Dichloroethene	156-59-2	96.94	0.89	UD	3.53		
Chloroform	67-66-3	119.4	1.3	JD	6.35		
1,1,1-Trichloroethane	71-55-6	133.4	0.1	UD	0.55		
2,2,4-Trimethylpentane	540-84-1	114.2	1	UD	4.67		
Benzene	71-43-2	78.11	0.87	UD	2.78		
1,2-Dichloroethane	107-06-2	98.96	0.91	UD	3.68		
Trichloroethene	79-01-6	131.4	0.17	UD	0.91		
1,2-Dichloropropane	78-87-5	113	1.1	UD	5.08		
Bromodichloromethane	75-27-4	163.8	0.77	UD	5.16		
4-Methyl-2-Pentanone	108-10-1	100.2	0.93	UD	3.81		
Toluene	108-88-3	92.14	1.1	UD	4.15		
t-1,3-Dichloropropene	10061-02-6	111	0.6	UD	2.72		
cis-1,3-Dichloropropene	10061-01-5	111	0.64	UD	2.91		
1,1,2-Trichloroethane	79-00-5	133.4	0.71	UD	3.87		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 03/25/25

Field Id Number : IA-B10-3-3242025DL

Analysis Date : 04/15/25

Laboratory Id Number : Q1665-18DL

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	0.66	UD	5.62		
1,2-Dibromoethane	106-93-4	187.9	0.72	UD	5.53		
Tetrachloroethene	127-18-4	165.8	0.15	UD	1.02		
Chlorobenzene	108-90-7	112.6	0.76	UD	3.5		
Ethyl Benzene	100-41-4	106.2	1.2	UD	5.21		
m/p-Xylene	179601-23-1	106.2	2.1	UD	9.12		
o-Xylene	95-47-6	106.2	1.2	UD	5.21		
Styrene	100-42-5	104.1	1.1	UD	4.68		
Bromoform	75-25-2	252.8	0.57	UD	5.89		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.11	UD	0.76		
2-Chlorotoluene	95-49-8	126.6	1.1	UD	5.7		
1,3,5-Trimethylbenzene	108-67-8	120.2	1.1	UD	5.41		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.78	UD	3.83		
1,3-Dichlorobenzene	541-73-1	147	0.8	UD	4.81		
1,4-Dichlorobenzene	106-46-7	147	0.53	UD	3.19		
1,2-Dichlorobenzene	95-50-1	147	0.75	UD	4.51		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.85	UD	6.31		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.85	UD	9.07		
Naphthalene	91-20-3	128.17	0.75	UD	3.93		
1,3-Butadiene	106-99-0	54.09	1.3	UD	2.88		
4-Ethyltoluene	622-96-8	120.2	1.2	UD	5.9		
Hexane	110-54-3	86.17	1.7	JD	5.99		
Allyl Chloride	107-05-1	76.53	1.5	UD	4.7		
1,4-Dioxane	123-91-1	88.12	2.1	UD	7.57		
Methyl Methacrylate	80-62-6	100.117	0.86	UD	3.52		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 03/25/25

Field Id Number : IA-B9-3-3242025

Analysis Date : 04/09/25

Laboratory Id Number : Q1665-20

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	0.42	J	2.08		
Chloromethane	74-87-3	50.49	0.49	J	1.01		
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	0.28	J	0.83		
Trichlorofluoromethane	75-69-4	137.4	0.21	J	1.18		
Dichlorotetrafluoroethane	76-14-2	170.9	0.09	U	0.63		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.16	U	1.23		
tert-Butyl alcohol	75-65-0	74.12	0.19	U	0.58		
Heptane	142-82-5	100.2	0.16	J	0.66		
1,1-Dichloroethene	75-35-4	96.94	0.14	U	0.56		
Acetone	67-64-1	58.08	8		19		
Carbon Disulfide	75-15-0	76.14	0.16	U	0.5		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.12	U	0.43		
Methylene Chloride	75-09-2	84.94	1.3		4.52		
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	0.22	U	0.76		
2-Butanone	78-93-3	72.11	2.5		7.37		
Carbon Tetrachloride	56-23-5	153.8	0.08		0.5		
cis-1,2-Dichloroethene	156-59-2	96.94	0.09	U	0.36		
Chloroform	67-66-3	119.4	0.08	U	0.39		
1,1,1-Trichloroethane	71-55-6	133.4	0.01	U	0.05		
2,2,4-Trimethylpentane	540-84-1	114.2	0.1	U	0.47		
Benzene	71-43-2	78.11	0.28	J	0.89		
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	0.53		2		
t-1,3-Dichloropropene	10061-02-6	111	0.06	U	0.27		
cis-1,3-Dichloropropene	10061-01-5	111	0.06	U	0.27		
1,1,2-Trichloroethane	79-00-5	133.4	0.07	U	0.38		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 03/25/25

Field Id Number : IA-B9-3-3242025

Analysis Date : 04/09/25

Laboratory Id Number : Q1665-20

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	0.07	U	0.6		
1,2-Dibromoethane	106-93-4	187.9	0.07	U	0.54		
Tetrachloroethene	127-18-4	165.8	0.02	U	0.14		
Chlorobenzene	108-90-7	112.6	0.13	J	0.6		
Ethyl Benzene	100-41-4	106.2	0.12	U	0.52		
m/p-Xylene	179601-23-1	106.2	0.22	J	0.96		
o-Xylene	95-47-6	106.2	0.13	J	0.56		
Styrene	100-42-5	104.1	0.11	U	0.47		
Bromoform	75-25-2	252.8	0.06	U	0.62		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.01	U	0.07		
2-Chlorotoluene	95-49-8	126.6	0.11	U	0.57		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.11	U	0.54		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.08	U	0.39		
1,3-Dichlorobenzene	541-73-1	147	0.08	U	0.48		
1,4-Dichlorobenzene	106-46-7	147	0.05	U	0.3		
1,2-Dichlorobenzene	95-50-1	147	0.08	U	0.48		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.09	U	0.67		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.09	U	0.96		
Naphthalene	91-20-3	128.17	0.08	U	0.42		
1,3-Butadiene	106-99-0	54.09	0.13	U	0.29		
4-Ethyltoluene	622-96-8	120.2	0.12	U	0.59		
Hexane	110-54-3	86.17	1.5		5.29		
Allyl Chloride	107-05-1	76.53	0.15	U	0.47		
1,4-Dioxane	123-91-1	88.12	0.21	U	0.76		
Methyl Methacrylate	80-62-6	100.117	0.09	U	0.37		

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

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

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

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

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

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

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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

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QC SUMMARY

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Surrogate Summary

SDG No.: **Q1665**

Client: **Woodard & Curran**

Analytical Method: **SWTO-15**

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
Q1665-01	AA-DUP-1-3242025	1-Bromo-4-Fluorobenzene	10	9.12	91	70 (65)	130 (135)
Q1665-01DUP	AA-DUP-1-3242025DUP	1-Bromo-4-Fluorobenzene	10	9.35	93	70 (65)	130 (135)
Q1665-03	IA-B10-2-3242025	1-Bromo-4-Fluorobenzene	10	9.83	98	70 (65)	130 (135)
Q1665-03DL	IA-B10-2-3242025DL	1-Bromo-4-Fluorobenzene	10	9.07	91	70 (65)	130 (135)
Q1665-03DUP	IA-B10-2-3242025DUP	1-Bromo-4-Fluorobenzene	10	9.74	97	70 (65)	130 (135)
Q1665-04	AA-1-3242025	1-Bromo-4-Fluorobenzene	10	9.22	92	70 (65)	130 (135)
Q1665-06	IA-B9-1-3242025	1-Bromo-4-Fluorobenzene	10	9.36	94	70 (65)	130 (135)
Q1665-08	IA-DUP-2-3242025	1-Bromo-4-Fluorobenzene	10	9.13	91	70 (65)	130 (135)
Q1665-09	IA-B9-2-3242025	1-Bromo-4-Fluorobenzene	10	9.71	97	70 (65)	130 (135)
Q1665-10	IA-B10-4-3242025	1-Bromo-4-Fluorobenzene	10	9.57	96	70 (65)	130 (135)
Q1665-10DL	IA-B10-4-3242025DL	1-Bromo-4-Fluorobenzene	10	9.14	91	70 (65)	130 (135)
Q1665-10DL2	IA-B10-4-3242025DL2	1-Bromo-4-Fluorobenzene	10	9.33	93	70 (65)	130 (135)
Q1665-11	IA-B10-1-3242025	1-Bromo-4-Fluorobenzene	10	10.0	100	70 (65)	130 (135)
Q1665-11DL	IA-B10-1-3242025DL	1-Bromo-4-Fluorobenzene	10	9.22	92	70 (65)	130 (135)
Q1665-15	IA-B14-1-3242025	1-Bromo-4-Fluorobenzene	10	10.1	101	70 (65)	130 (135)
Q1665-15DL	IA-B14-1-3242025DL	1-Bromo-4-Fluorobenzene	10	10.2	102	70 (65)	130 (135)
Q1665-18	IA-B10-3-3242025	1-Bromo-4-Fluorobenzene	10	9.39	94	70 (65)	130 (135)
Q1665-18DL	IA-B10-3-3242025DL	1-Bromo-4-Fluorobenzene	10	9.51	95	70 (65)	130 (135)
Q1665-20	IA-B9-3-3242025	1-Bromo-4-Fluorobenzene	10	9.39	94	70 (65)	130 (135)
VL0409ABL01	VL0409ABL01	1-Bromo-4-Fluorobenzene	10	9.13	91	70 (65)	130 (135)
VL0409ABS02	VL0409ABS02	1-Bromo-4-Fluorobenzene	10	9.52	95	70 (65)	130 (135)
VL0411ABL01	VL0411ABL01	1-Bromo-4-Fluorobenzene	10	9.05	91	70 (65)	130 (135)
VL0411ABS01	VL0411ABS01	1-Bromo-4-Fluorobenzene	10	9.91	99	70 (65)	130 (135)
VL0415ABL01	VL0415ABL01	1-Bromo-4-Fluorobenzene	10	9.25	93	70 (65)	130 (135)
VL0415ABS01	VL0415ABS01	1-Bromo-4-Fluorobenzene	10	9.72	97	70 (65)	130 (135)
VL0417ABL01	VL0417ABL01	1-Bromo-4-Fluorobenzene	10	10.1	101	70 (65)	130 (135)
VL0417ABS01	VL0417ABS01	1-Bromo-4-Fluorobenzene	10	10.1	101	70 (65)	130 (135)

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1665

Client: Woodard & Curran

Analytical Method: SWTO-15

Datafile : VL042289.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VL0409ABS02	Dichlorodifluoromethane	10	9.60	ppbv	96			40 (70)	160 (130)	
	Chloromethane	10	9.80	ppbv	98			40 (70)	160 (130)	
	Vinyl Chloride	10	8.70	ppbv	87			70 (70)	130 (130)	
	Bromomethane	10	9.00	ppbv	90			40 (70)	160 (130)	
	Chloroethane	10	9.20	ppbv	92			40 (70)	160 (130)	
	Tetrahydrofuran	10	10.7	ppbv	107			70 (70)	130 (130)	
	Trichlorofluoromethane	10	9.50	ppbv	95			40 (70)	160 (130)	
	1,1,2-Trichlorotrifluoroethane	10	9.50	ppbv	95			70 (70)	130 (130)	
	Dichlorotetrafluoroethane	10	9.70	ppbv	97			70 (70)	130 (130)	
	tert-Butyl Alcohol	10	8.30	ppbv	83			70 (70)	130 (130)	
	Heptane	10	9.70	ppbv	97			70 (70)	130 (130)	
	1,1-Dichloroethene	10	8.90	ppbv	89			70 (70)	130 (130)	
	Acetone	10	8.90	ppbv	89			40 (70)	160 (130)	
	Carbon disulfide	10	9.30	ppbv	93			40 (70)	160 (130)	
	Methyl tert-butyl Ether	10	8.50	ppbv	85			70 (70)	130 (130)	
	Methylene Chloride	10	8.40	ppbv	84			70 (70)	130 (130)	
	trans-1,2-Dichloroethene	10	8.80	ppbv	88			70 (70)	130 (130)	
	1,1-Dichloroethane	10	9.70	ppbv	97			70 (70)	130 (130)	
	Cyclohexane	10	9.40	ppbv	94			70 (70)	130 (130)	
	2-Butanone	10	10.9	ppbv	109			40 (70)	160 (130)	
	Carbon Tetrachloride	10	10.4	ppbv	104			70 (70)	130 (130)	
	cis-1,2-Dichloroethene	10	9.70	ppbv	97			70 (70)	130 (130)	
	Chloroform	10	10.4	ppbv	104			70 (70)	130 (130)	
	1,1,1-Trichloroethane	10	8.90	ppbv	89			70 (70)	130 (130)	
	2,2,4-Trimethylpentane	10	10.7	ppbv	107			70 (70)	130 (130)	
	Benzene	10	10.6	ppbv	106			70 (70)	130 (130)	
	1,2-Dichloroethane	10	11.0	ppbv	110			70 (70)	130 (130)	
	Trichloroethene	10	10.1	ppbv	101			70 (70)	130 (130)	
	1,2-Dichloropropane	10	10.6	ppbv	106			70 (70)	130 (130)	
	Bromodichloromethane	10	10.9	ppbv	109			70 (70)	130 (130)	
	4-Methyl-2-Pentanone	10	9.60	ppbv	96			40 (70)	160 (130)	
	Toluene	10	9.90	ppbv	99			70 (70)	130 (130)	
	t-1,3-Dichloropropene	10	8.50	ppbv	85			70 (70)	130 (130)	
	cis-1,3-Dichloropropene	10	9.20	ppbv	92			70 (70)	130 (130)	
	1,1,2-Trichloroethane	10	10.8	ppbv	108			70 (70)	130 (130)	
	Dibromochloromethane	10	10.5	ppbv	105			70 (70)	130 (130)	
	1,2-Dibromoethane	10	10.6	ppbv	106			70 (70)	130 (130)	
	Tetrachloroethene	10	8.90	ppbv	89			70 (70)	130 (130)	
	Chlorobenzene	10	11.4	ppbv	114			70 (70)	130 (130)	
	Ethyl Benzene	10	10.6	ppbv	106			70 (70)	130 (130)	
	m/p-Xylene	20	22.2	ppbv	111			70 (70)	130 (130)	
	o-Xylene	10	11.0	ppbv	110			70 (70)	130 (130)	
	Styrene	10	10.0	ppbv	100			70 (70)	130 (130)	
	Bromoform	10	10.4	ppbv	104			70 (70)	130 (130)	
	1,1,2,2-Tetrachloroethane	10	11.8	ppbv	118			70 (70)	130 (130)	
	2-Chlorotoluene	10	10.9	ppbv	109			70 (70)	130 (130)	
	1,3,5-Trimethylbenzene	10	10.9	ppbv	109			70 (70)	130 (130)	
	1,2,4-Trimethylbenzene	10	10.7	ppbv	107			70 (70)	130 (130)	

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1665
Client: Woodard & Curran
Analytical Method: SWTO-15 Datafile : VL042289.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VL0409ABS02	1,3-Dichlorobenzene	10	11.6	ppbv	116			70 (70)	130 (130)	
	1,4-Dichlorobenzene	10	11.7	ppbv	117			70 (70)	130 (130)	
	1,2-Dichlorobenzene	10	11.9	ppbv	119			70 (70)	130 (130)	
	1,2,4-Trichlorobenzene	10	10.8	ppbv	108			70 (70)	130 (130)	
	Hexachloro-1,3-butadiene	10	9.30	ppbv	93			70 (70)	130 (130)	
	Naphthalene	10	11.3	ppbv	113			40 (70)	160 (130)	
	1,3-Butadiene	10	8.60	ppbv	86			70 (70)	130 (130)	
	4-Ethyltoluene	10	11.1	ppbv	111			70 (70)	130 (130)	
	Hexane	10	9.90	ppbv	99			70 (70)	130 (130)	
	Allyl Chloride	10	9.30	ppbv	93			70 (70)	130 (130)	
	1,4-Dioxane	10	9.40	ppbv	94			40 (70)	160 (130)	
	Methyl methacrylate	10	9.40	ppbv	94			70 (70)	130 (130)	

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1665

Client: Woodard & Curran

Analytical Method: SWTO-15

Datafile : VL042314.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VL0411ABS01	Dichlorodifluoromethane	10	9.90	ppbv	99			40 (70)	160 (130)	
	Chloromethane	10	10.2	ppbv	102			40 (70)	160 (130)	
	Vinyl Chloride	10	8.70	ppbv	87			70 (70)	130 (130)	
	Bromomethane	10	8.90	ppbv	89			40 (70)	160 (130)	
	Chloroethane	10	9.30	ppbv	93			40 (70)	160 (130)	
	Tetrahydrofuran	10	10.9	ppbv	109			70 (70)	130 (130)	
	Trichlorofluoromethane	10	9.60	ppbv	96			40 (70)	160 (130)	
	1,1,2-Trichlorotrifluoroethane	10	9.10	ppbv	91			70 (70)	130 (130)	
	Dichlorotetrafluoroethane	10	9.80	ppbv	98			70 (70)	130 (130)	
	tert-Butyl Alcohol	10	7.80	ppbv	78			70 (70)	130 (130)	
	Heptane	10	9.90	ppbv	99			70 (70)	130 (130)	
	1,1-Dichloroethene	10	8.40	ppbv	84			70 (70)	130 (130)	
	Acetone	10	9.20	ppbv	92			40 (70)	160 (130)	
	Carbon disulfide	10	8.80	ppbv	88			40 (70)	160 (130)	
	Methyl tert-butyl Ether	10	7.90	ppbv	79			70 (70)	130 (130)	
	Methylene Chloride	10	8.10	ppbv	81			70 (70)	130 (130)	
	trans-1,2-Dichloroethene	10	8.70	ppbv	87			70 (70)	130 (130)	
	1,1-Dichloroethane	10	9.80	ppbv	98			70 (70)	130 (130)	
	Cyclohexane	10	9.00	ppbv	90			70 (70)	130 (130)	
	2-Butanone	10	11.3	ppbv	113			40 (70)	160 (130)	
	Carbon Tetrachloride	10	11.2	ppbv	112			70 (70)	130 (130)	
	cis-1,2-Dichloroethene	10	9.20	ppbv	92			70 (70)	130 (130)	
	Chloroform	10	10.5	ppbv	105			70 (70)	130 (130)	
	1,1,1-Trichloroethane	10	8.80	ppbv	88			70 (70)	130 (130)	
	2,2,4-Trimethylpentane	10	11.4	ppbv	114			70 (70)	130 (130)	
	Benzene	10	11.1	ppbv	111			70 (70)	130 (130)	
	1,2-Dichloroethane	10	11.5	ppbv	115			70 (70)	130 (130)	
	Trichloroethene	10	10.6	ppbv	106			70 (70)	130 (130)	
	1,2-Dichloropropane	10	11.2	ppbv	112			70 (70)	130 (130)	
	Bromodichloromethane	10	11.7	ppbv	117			70 (70)	130 (130)	
	4-Methyl-2-Pentanone	10	10.1	ppbv	101			40 (70)	160 (130)	
	Toluene	10	10.1	ppbv	101			70 (70)	130 (130)	
	t-1,3-Dichloropropene	10	8.30	ppbv	83			70 (70)	130 (130)	
	cis-1,3-Dichloropropene	10	9.20	ppbv	92			70 (70)	130 (130)	
	1,1,2-Trichloroethane	10	11.7	ppbv	117			70 (70)	130 (130)	
	Dibromochloromethane	10	11.2	ppbv	112			70 (70)	130 (130)	
	1,2-Dibromoethane	10	11.2	ppbv	112			70 (70)	130 (130)	
	Tetrachloroethene	10	9.50	ppbv	95			70 (70)	130 (130)	
	Chlorobenzene	10	12.5	ppbv	125			70 (70)	130 (130)	
	Ethyl Benzene	10	11.1	ppbv	111			70 (70)	130 (130)	
	m/p-Xylene	20	24.2	ppbv	121			70 (70)	130 (130)	
	o-Xylene	10	11.9	ppbv	119			70 (70)	130 (130)	
	Styrene	10	10.5	ppbv	105			70 (70)	130 (130)	
	Bromoform	10	11.3	ppbv	113			70 (70)	130 (130)	
	1,1,2,2-Tetrachloroethane	10	13.2	ppbv	132		*	70 (70)	130 (130)	
	2-Chlorotoluene	10	11.8	ppbv	118			70 (70)	130 (130)	
	1,3,5-Trimethylbenzene	10	11.9	ppbv	119			70 (70)	130 (130)	
	1,2,4-Trimethylbenzene	10	11.9	ppbv	119			70 (70)	130 (130)	

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1665

Client: Woodard & Curran

Analytical Method: SWTO-15

Datafile : VL042314.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VL0411ABS01	1,3-Dichlorobenzene	10	12.8	ppbv	128			70 (70)	130 (130)	
	1,4-Dichlorobenzene	10	12.9	ppbv	129			70 (70)	130 (130)	
	1,2-Dichlorobenzene	10	13.2	ppbv	132		*	70 (70)	130 (130)	
	1,2,4-Trichlorobenzene	10	10.8	ppbv	108			70 (70)	130 (130)	
	Hexachloro-1,3-butadiene	10	9.80	ppbv	98			70 (70)	130 (130)	
	Naphthalene	10	10.9	ppbv	109			40 (70)	160 (130)	
	1,3-Butadiene	10	9.10	ppbv	91			70 (70)	130 (130)	
	4-Ethyltoluene	10	12.1	ppbv	121			70 (70)	130 (130)	
	Hexane	10	10.0	ppbv	100			70 (70)	130 (130)	
	Allyl Chloride	10	8.90	ppbv	89			70 (70)	130 (130)	
	1,4-Dioxane	10	9.40	ppbv	94			40 (70)	160 (130)	
	Methyl methacrylate	10	9.50	ppbv	95			70 (70)	130 (130)	

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1665

Client: Woodard & Curran

Analytical Method: SWTO-15

Datafile : VL042328.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VL0415ABS01	Dichlorodifluoromethane	10	8.40	ppbv	84			40 (70)	160 (130)	
	Chloromethane	10	8.50	ppbv	85			40 (70)	160 (130)	
	Vinyl Chloride	10	7.50	ppbv	75			70 (70)	130 (130)	
	Bromomethane	10	7.70	ppbv	77			40 (70)	160 (130)	
	Chloroethane	10	7.90	ppbv	79			40 (70)	160 (130)	
	Tetrahydrofuran	10	9.40	ppbv	94			70 (70)	130 (130)	
	Trichlorofluoromethane	10	8.20	ppbv	82			40 (70)	160 (130)	
	1,1,2-Trichlorotrifluoroethane	10	7.60	ppbv	76			70 (70)	130 (130)	
	Dichlorotetrafluoroethane	10	8.20	ppbv	82			70 (70)	130 (130)	
	tert-Butyl Alcohol	10	6.80	ppbv	68		*	70 (70)	130 (130)	
	Heptane	10	8.50	ppbv	85			70 (70)	130 (130)	
	1,1-Dichloroethene	10	7.30	ppbv	73			70 (70)	130 (130)	
	Acetone	10	7.40	ppbv	74			40 (70)	160 (130)	
	Carbon disulfide	10	7.40	ppbv	74			40 (70)	160 (130)	
	Methyl tert-butyl Ether	10	7.20	ppbv	72			70 (70)	130 (130)	
	Methylene Chloride	10	6.70	ppbv	67		*	70 (70)	130 (130)	
	trans-1,2-Dichloroethene	10	7.20	ppbv	72			70 (70)	130 (130)	
	1,1-Dichloroethane	10	8.30	ppbv	83			70 (70)	130 (130)	
	Cyclohexane	10	7.90	ppbv	79			70 (70)	130 (130)	
	2-Butanone	10	9.30	ppbv	93			40 (70)	160 (130)	
	Carbon Tetrachloride	10	9.10	ppbv	91			70 (70)	130 (130)	
	cis-1,2-Dichloroethene	10	8.10	ppbv	81			70 (70)	130 (130)	
	Chloroform	10	8.80	ppbv	88			70 (70)	130 (130)	
	1,1,1-Trichloroethane	10	7.50	ppbv	75			70 (70)	130 (130)	
	2,2,4-Trimethylpentane	10	9.50	ppbv	95			70 (70)	130 (130)	
	Benzene	10	9.30	ppbv	93			70 (70)	130 (130)	
	1,2-Dichloroethane	10	9.30	ppbv	93			70 (70)	130 (130)	
	Trichloroethene	10	9.00	ppbv	90			70 (70)	130 (130)	
	1,2-Dichloropropane	10	9.30	ppbv	93			70 (70)	130 (130)	
	Bromodichloromethane	10	9.40	ppbv	94			70 (70)	130 (130)	
	4-Methyl-2-Pentanone	10	8.40	ppbv	84			40 (70)	160 (130)	
	Toluene	10	8.60	ppbv	86			70 (70)	130 (130)	
	t-1,3-Dichloropropene	10	7.20	ppbv	72			70 (70)	130 (130)	
	cis-1,3-Dichloropropene	10	7.80	ppbv	78			70 (70)	130 (130)	
	1,1,2-Trichloroethane	10	9.60	ppbv	96			70 (70)	130 (130)	
	Dibromochloromethane	10	9.30	ppbv	93			70 (70)	130 (130)	
	1,2-Dibromoethane	10	9.10	ppbv	91			70 (70)	130 (130)	
	Tetrachloroethene	10	8.00	ppbv	80			70 (70)	130 (130)	
	Chlorobenzene	10	9.70	ppbv	97			70 (70)	130 (130)	
	Ethyl Benzene	10	8.70	ppbv	87			70 (70)	130 (130)	
	m/p-Xylene	20	18.5	ppbv	93			70 (70)	130 (130)	
	o-Xylene	10	9.10	ppbv	91			70 (70)	130 (130)	
	Styrene	10	8.20	ppbv	82			70 (70)	130 (130)	
	Bromoform	10	9.20	ppbv	92			70 (70)	130 (130)	
	1,1,2,2-Tetrachloroethane	10	10.2	ppbv	102			70 (70)	130 (130)	
	2-Chlorotoluene	10	9.00	ppbv	90			70 (70)	130 (130)	
	1,3,5-Trimethylbenzene	10	9.10	ppbv	91			70 (70)	130 (130)	
	1,2,4-Trimethylbenzene	10	8.90	ppbv	89			70 (70)	130 (130)	

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1665

Client: Woodard & Curran

Analytical Method: SWTO-15

Datafile : VL042328.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VL0415ABS01	1,3-Dichlorobenzene	10	9.80	ppbv	98			70 (70)	130 (130)	
	1,4-Dichlorobenzene	10	9.90	ppbv	99			70 (70)	130 (130)	
	1,2-Dichlorobenzene	10	10.2	ppbv	102			70 (70)	130 (130)	
	1,2,4-Trichlorobenzene	10	9.60	ppbv	96			70 (70)	130 (130)	
	Hexachloro-1,3-butadiene	10	8.10	ppbv	81			70 (70)	130 (130)	
	Naphthalene	10	10.0	ppbv	100			40 (70)	160 (130)	
	1,3-Butadiene	10	7.60	ppbv	76			70 (70)	130 (130)	
	4-Ethyltoluene	10	9.20	ppbv	92			70 (70)	130 (130)	
	Hexane	10	8.50	ppbv	85			70 (70)	130 (130)	
	Allyl Chloride	10	7.50	ppbv	75			70 (70)	130 (130)	
	1,4-Dioxane	10	8.10	ppbv	81			40 (70)	160 (130)	
	Methyl methacrylate	10	8.10	ppbv	81			70 (70)	130 (130)	

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1665

Client: Woodard & Curran

Analytical Method: SWTO-15

Datafile : VL042358.D

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

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1665
Client: Woodard & Curran
Analytical Method: SWTO-15 Datafile : VL042358.D

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

() = LABORATORY INHOUSE LIMIT

Duplicate Sample Summary

Lab Sample Id :	Q1665-01DUP	Q1665-01
Client Id :	AA-DUP-1-3242025DUP	AA-DUP-1-3242025
DF :	1	1
Datafile :	VL042291.D	VL042290.D
Anal Date & Time :	04/09/2025 14:02	04/09/2025 13:25

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	0.33	0.36	8.7
2-Chlorotoluene	0	0	0
4-Ethyltoluene	0	0	0
4-Methyl-2-Pentanone	0	0	0
Acetone	3.6	3.6	0
Allyl Chloride	0	0	0
Benzene	0.24	0.25	4.1
Bromodichloromethane	0	0	0
Bromoform	0	0	0
Bromomethane	0	0	0
Carbon Disulfide	0	0	0
Carbon Tetrachloride	0.08	0.07	13.3

Duplicate Sample Summary

Lab Sample Id :	Q1665-01DUP	Q1665-01
Client Id :	AA-DUP-1-3242025DUP	AA-DUP-1-3242025
DF :	1	1
Datafile :	VL042291.D	VL042290.D
Anal Date & Time :	04/09/2025 14:02	04/09/2025 13:25

Parameter	Result	Result	RPD
Chlorobenzene	0	0	0
Chloroethane	0	0	0
Chloroform	0	0	0
Chloromethane	0.55	0.56	1.8
cis-1,2-Dichloroethene	0	0	0
cis-1,3-Dichloropropene	0	0	0
Cyclohexane	0	0	0
Dibromochloromethane	0	0	0
Dichlorodifluoromethane	0.38	0.4	5.1
Dichlorotetrafluoroethane	0	0	0
Ethyl Benzene	0	0	0
Heptane	0.1	0.11	9.5
Hexachloro-1,3-Butadiene	0	0	0
Hexane	1.4	1.6	13.3
m/p-Xylene	0.12	0	200 *
Methyl Methacrylate	0	0	0
Methyl tert-Butyl Ether	0	0	0
Methylene Chloride	0.95	0.95	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	0.28	0.32	13.3
trans-1,2-Dichloroethene	0	0	0
Trichloroethene	0	0	0
Trichlorofluoromethane	0.22	0.21	4.7
Vinyl Chloride	0	0	0
1,1,1-Trichloroethane	0	0	0

Duplicate Sample Summary

Lab Sample Id :	Q1665-03DUP	Q1665-03
Client Id :	IA-B10-2-3242025DUP	IA-B10-2-3242025
DF :	1	1
Datafile :	VL042318.D	VL042317.D
Anal Date & Time :	04/11/2025 13:52	04/11/2025 13:15

Parameter	Result	Result	RPD
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	0.13	0.12	8
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	26.6	26.8	0.75
2-Chlorotoluene	0	0	0
4-Ethyltoluene	0	0	0
4-Methyl-2-Pentanone	0	0	0
Acetone	82.1	82.7	0.73
Allyl Chloride	0	0	0
Benzene	0.6	0.6	0
Bromodichloromethane	0	0	0
Bromoform	0	0	0
Bromomethane	0	0	0
Carbon Disulfide	0	0	0
Carbon Tetrachloride	0.09	0.09	0
Chlorobenzene	0	0	0
Chloroethane	0	0	0

Duplicate Sample Summary

Lab Sample Id :	Q1665-03DUP	Q1665-03
Client Id :	IA-B10-2-3242025DUP	IA-B10-2-3242025
DF :	1	1
Datafile :	VL042318.D	VL042317.D
Anal Date & Time :	04/11/2025 13:52	04/11/2025 13:15

Parameter	Result	Result	RPD
Chloroform	1.4	1.4	0
Chloromethane	0.59	0.59	0
cis-1,2-Dichloroethene	0	0	0
cis-1,3-Dichloropropene	0	0	0
Cyclohexane	0	0	0
Dibromochloromethane	0	0	0
Dichlorodifluoromethane	0.42	0.4	4.9
Dichlorotetrafluoroethane	0	0	0
Ethyl Benzene	0	0	0
Heptane	0.19	0.17	11.1
Hexachloro-1,3-Butadiene	0	0	0
Hexane	2.7	2.5	7.7
m/p-Xylene	0.2	0	200 *
Methyl Methacrylate	0	0	0
Methyl tert-Butyl Ether	0	0	0
Methylene Chloride	1.6	1.6	0
Naphthalene	0	0	0
o-Xylene	0.12	0.12	0
Styrene	0	0	0
t-1,3-Dichloropropene	0	0	0
tert-Butyl alcohol	0.46	0.47	2.2
Tetrachloroethene	0.04	0.04	0
Tetrahydrofuran	0	0	0
Toluene	0.51	0.49	4
trans-1,2-Dichloroethene	0	0	0
Trichloroethene	0	0	0
Trichlorofluoromethane	0.22	0.21	4.7
Vinyl Chloride	0	0	0

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VL0409ABL01

Lab Name: CHEMTECH

Contract: WOOD06

Lab Code: CHEM Case No.: Q1665

SAS No.: Q1665 SDG NO.: Q1665

Lab File ID: VL042287.D

Lab Sample ID: VL0409ABL01

Date Analyzed: 04/09/2025

Time Analyzed: 11:03

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
VL0409ABS02	VL0409ABS02	VL042289.D	04/09/2025
AA-DUP-1-3242025	Q1665-01	VL042290.D	04/09/2025
AA-DUP-1-3242025DUP	Q1665-01DUP	VL042291.D	04/09/2025
AA-1-3242025	Q1665-04	VL042292.D	04/09/2025
IA-B9-1-3242025	Q1665-06	VL042293.D	04/09/2025
IA-DUP-2-3242025	Q1665-08	VL042294.D	04/09/2025
IA-B9-2-3242025	Q1665-09	VL042295.D	04/09/2025
IA-B9-3-3242025	Q1665-20	VL042296.D	04/09/2025

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VL0411ABL01

Lab Name: CHEMTECH

Contract: WOOD06

Lab Code: CHEM Case No.: Q1665

SAS No.: Q1665 SDG NO.: Q1665

Lab File ID: VL042313.D

Lab Sample ID: VL0411ABL01

Date Analyzed: 04/11/2025

Time Analyzed: 10:36

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
VL0411ABS01	VL0411ABS01	VL042314.D	04/11/2025
IA-B10-2-3242025	Q1665-03	VL042317.D	04/11/2025
IA-B10-2-3242025DUP	Q1665-03DUP	VL042318.D	04/11/2025
IA-B10-4-3242025	Q1665-10	VL042319.D	04/11/2025
IA-B10-1-3242025	Q1665-11	VL042320.D	04/11/2025
IA-B10-3-3242025	Q1665-18	VL042321.D	04/11/2025
IA-B10-2-3242025DL	Q1665-03DL	VL042322.D	04/11/2025
IA-B10-4-3242025DL	Q1665-10DL	VL042323.D	04/11/2025
IA-B10-1-3242025DL	Q1665-11DL	VL042324.D	04/11/2025

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VL0415ABL01

Lab Name: CHEMTECH

Contract: WOOD06

Lab Code: CHEM Case No.: Q1665

SAS No.: Q1665 SDG NO.: Q1665

Lab File ID: VL042327.D

Lab Sample ID: VL0415ABL01

Date Analyzed: 04/15/2025

Time Analyzed: 12:12

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
VL0415ABS01	VL0415ABS01	VL042328.D	04/15/2025
IA-B10-3-3242025DL	Q1665-18DL	VL042331.D	04/15/2025
IA-B10-4-3242025DL2	Q1665-10DL2	VL042332.D	04/15/2025

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VL0417ABL01

Lab Name: CHEMTECH

Contract: WOOD06

Lab Code: CHEM Case No.: Q1665

SAS No.: Q1665 SDG NO.: Q1665

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-B14-1-3242025	Q1665-15	VL042359.D	04/17/2025
IA-B14-1-3242025DL	Q1665-15DL	VL042360.D	04/17/2025

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: WOOD06
Lab Code: CHEM Case No.: Q1665 SAS No.: Q1665 SDG NO.: Q1665
Lab File ID: VL042171.D BFB Injection Date: 03/27/2025
Instrument ID: MSVOA_L BFB Injection Time: 07:44
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
75	30.0 - 66.0% of mass 95	56.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 120.0% of mass 95	63.8
175	4.0 - 9.0% of mass 174	5.1 (8) 1
176	93.0 - 101.0% of mass 174	61.1 (95.7) 1
177	5.0 - 9.0% of mass 176	4.2 (6.8) 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	VL042172.D	03/27/2025	08:26
VSTDICCC002	VSTDICCC002	VL042173.D	03/27/2025	08:59
VSTDICCC001	VSTDICCC001	VL042174.D	03/27/2025	09:30
VSTDICCC0.5	VSTDICCC0.5	VL042175.D	03/27/2025	10:01
VSTDICCC0.1	VSTDICCC0.1	VL042176.D	03/27/2025	10:32
VSTDICCC0.03	VSTDICCC0.03	VL042177.D	03/27/2025	11:03
VSTDICCC015	VSTDICCC015	VL042178.D	03/27/2025	11:36

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: WOOD06
Lab Code: CHEM Case No.: Q1665 SAS No.: Q1665 SDG NO.: Q1665
Lab File ID: VL042285.D BFB Injection Date: 04/09/2025
Instrument ID: MSVOA_L BFB Injection Time: 09:38
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	23.2
75	30.0 - 66.0% of mass 95	57.1
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	0.5 (0.8) 1
174	50.0 - 120.0% of mass 95	61.3
175	4.0 - 9.0% of mass 174	4.2 (6.9) 1
176	93.0 - 101.0% of mass 174	57.5 (93.9) 1
177	5.0 - 9.0% of mass 176	3.7 (6.4) 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	VL042286.D	04/09/2025	10:20
VL0409ABL01	VL0409ABL01	VL042287.D	04/09/2025	11:03
VL0409ABS02	VL0409ABS02	VL042289.D	04/09/2025	12:31
AA-DUP-1-3242025	Q1665-01	VL042290.D	04/09/2025	13:25
AA-DUP-1-3242025DUP	Q1665-01DUP	VL042291.D	04/09/2025	14:02
AA-1-3242025	Q1665-04	VL042292.D	04/09/2025	14:36
IA-B9-1-3242025	Q1665-06	VL042293.D	04/09/2025	15:15
IA-DUP-2-3242025	Q1665-08	VL042294.D	04/09/2025	15:50
IA-B9-2-3242025	Q1665-09	VL042295.D	04/09/2025	16:23
IA-B9-3-3242025	Q1665-20	VL042296.D	04/09/2025	16:57

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: WOOD06
Lab Code: CHEM Case No.: Q1665 SAS No.: Q1665 SDG NO.: Q1665
Lab File ID: VL042311.D BFB Injection Date: 04/11/2025
Instrument ID: MSVOA_L BFB Injection Time: 08:18
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	24.4
75	30.0 - 66.0% of mass 95	57.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.3 (0.5) 1
174	50.0 - 120.0% of mass 95	61.1
175	4.0 - 9.0% of mass 174	4.6 (7.5) 1
176	93.0 - 101.0% of mass 174	57.9 (94.7) 1
177	5.0 - 9.0% of mass 176	3.8 (6.6) 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	VL042312.D	04/11/2025	09:50
VL0411ABL01	VL0411ABL01	VL042313.D	04/11/2025	10:36
VL0411ABS01	VL0411ABS01	VL042314.D	04/11/2025	11:23
IA-B10-2-3242025	Q1665-03	VL042317.D	04/11/2025	13:15
IA-B10-2-3242025DUP	Q1665-03DUP	VL042318.D	04/11/2025	13:52
IA-B10-4-3242025	Q1665-10	VL042319.D	04/11/2025	14:27
IA-B10-1-3242025	Q1665-11	VL042320.D	04/11/2025	15:01
IA-B10-3-3242025	Q1665-18	VL042321.D	04/11/2025	15:36
IA-B10-2-3242025DL	Q1665-03DL	VL042322.D	04/11/2025	16:08
IA-B10-4-3242025DL	Q1665-10DL	VL042323.D	04/11/2025	16:39
IA-B10-1-3242025DL	Q1665-11DL	VL042324.D	04/11/2025	17:10

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: WOOD06
Lab Code: CHEM Case No.: Q1665 SAS No.: Q1665 SDG NO.: Q1665
Lab File ID: VL042325.D BFB Injection Date: 04/15/2025
Instrument ID: MSVOA_L BFB Injection Time: 07:45
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	24
75	30.0 - 66.0% of mass 95	55.5
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.8 (1.3) 1
174	50.0 - 120.0% of mass 95	62.4
175	4.0 - 9.0% of mass 174	4.3 (6.8) 1
176	93.0 - 101.0% of mass 174	59.1 (94.8) 1
177	5.0 - 9.0% of mass 176	3.7 (6.2) 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	VL042326.D	04/15/2025	11:30
VL0415ABL01	VL0415ABL01	VL042327.D	04/15/2025	12:12
VL0415ABS01	VL0415ABS01	VL042328.D	04/15/2025	12:54
IA-B10-3-3242025DL	Q1665-18DL	VL042331.D	04/15/2025	14:29
IA-B10-4-3242025DL2	Q1665-10DL2	VL042332.D	04/15/2025	15:01

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: WOOD06
Lab Code: CHEM Case No.: Q1665 SAS No.: Q1665 SDG NO.: Q1665
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-B14-1-3242025	Q1665-15	VL042359.D	04/17/2025	16:12
IA-B14-1-3242025DL	Q1665-15DL	VL042360.D	04/17/2025	16:44

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: WOOD06
Lab Code: CHEM Case No.: Q1665 SAS No.: Q1665 SDG NO.: Q1665
Lab File ID: VL042286.D Date Analyzed: 04/09/2025
Instrument ID: MSVOA_L Time Analyzed: 10:20
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	155631	2.78	397176	3.96	350140	8.88
UPPER LIMIT	217883	3.11	556046	4.29	490196	9.21
LOWER LIMIT	93378.6	2.45	238306	3.63	210084	8.55
EPA SAMPLE NO.						
AA-DUP-1-3242025	159221	2.78	408039	3.95	345931	8.88
AA-DUP-1-3242025DUP	156655	2.78	397453	3.95	332015	8.88
AA-1-3242025	157856	2.78	383411	3.96	331322	8.88
IA-B9-1-3242025	162172	2.78	394727	3.95	338809	8.88
IA-DUP-2-3242025	159184	2.79	384747	3.96	314874	8.88
IA-B9-2-3242025	157163	2.79	385586	3.96	326865	8.88
IA-B9-3-3242025	161865	2.79	384782	3.96	329132	8.88
VL0409ABL01	156784	2.78	391570	3.96	334054	8.88
VL0409ABS02	160536	2.78	421845	3.95	368487	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.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: WOOD06
Lab Code: CHEM Case No.: Q1665 SAS No.: Q1665 SDG NO.: Q1665
Lab File ID: VL042312.D Date Analyzed: 04/11/2025
Instrument ID: MSVOA_L Time Analyzed: 09:50
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	183700	2.79	463746	3.96	401340	8.89
UPPER LIMIT	257180	3.12	649244	4.29	561876	9.22
LOWER LIMIT	110220	2.46	278248	3.63	240804	8.56
EPA SAMPLE NO.						
IA-B10-2-3242025	179309	2.79	422807	3.97	360993	8.89
IA-B10-2-3242025DL	183437	2.79	437835	3.97	360512	8.89
IA-B10-2-3242025DUP	183054	2.79	442590	3.96	380933	8.88
IA-B10-4-3242025	190778	2.79	461210	3.96	383940	8.89
IA-B10-4-3242025DL	173105	2.79	400666	3.96	338211	8.89
IA-B10-1-3242025	183875	2.79	460651	3.96	381290	8.88
IA-B10-1-3242025DL	176603	2.79	398133	3.97	325777	8.89
IA-B10-3-3242025	184452	2.79	454008	3.96	391031	8.88
VL0411ABL01	180225	2.79	445487	3.96	373548	8.89
VL0411ABS01	178456	2.78	444353	3.96	386060	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.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: WOOD06
Lab Code: CHEM Case No.: Q1665 SAS No.: Q1665 SDG NO.: Q1665
Lab File ID: VL042326.D Date Analyzed: 04/15/2025
Instrument ID: MSVOA_L Time Analyzed: 11:30
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	172263	2.81	457227	3.99	411493	8.91
UPPER LIMIT	241168	3.14	640118	4.32	576090	9.24
LOWER LIMIT	103358	2.48	274336	3.66	246896	8.58
EPA SAMPLE NO.						
IA-B10-4-3242025DL2	164444	2.81	385228	4.00	327587	8.92
IA-B10-3-3242025DL	168977	2.81	401158	3.99	339800	8.91
VL0415ABL01	173729	2.81	447320	3.99	385318	8.92
VL0415ABS01	171986	2.81	444595	3.99	399604	8.92

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.: Q1665 SAS No.: Q1665 SDG NO.: Q1665
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-B14-1-3242025	123457	2.79	354157	3.96	318284	8.88
IA-B14-1-3242025DL	121918	2.79	347081	3.96	308280	8.88
VL0417ABL01	113566	2.79	328716	3.97	297633	8.89
VL0417ABS01	122375	2.79	352201	3.97	321521	8.89

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

AREA UPPER LIMIT = +40% of internal standard area
AREA LOWER LIMIT = -40% of internal standard area
RT UPPER LIMIT = +0.33 minutes of internal standard RT
RT LOWER LIMIT = -0.33 minutes of internal standard RT

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



SAMPLE DATA

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Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/25/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	03/26/25
Client Sample ID:	AA-DUP-1-3242025	SDG No.:	Q1665
Lab Sample ID:	Q1665-01	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
VL042290.D	1		04/09/25 13:25	VL040925

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.40	1.98	J	1.04	2.47	ug/m3
74-87-3	Chloromethane	0.56	1.16		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	0.21	1.18	J	0.90	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.16	1.23	U	1.23	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.090	0.63	U	0.63	3.49	ug/m3
75-65-0	tert-Butyl alcohol	0.19	0.58	U	0.58	1.52	ug/m3
142-82-5	Heptane	0.11	0.45	J	0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
67-64-1	Acetone	3.60	8.55		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	0.95	3.30		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	0.22	0.76	U	0.76	1.72	ug/m3
78-93-3	2-Butanone	0.36	1.06	J	0.35	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.070	0.44		0.060	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.090	0.36	U	0.36	1.98	ug/m3
67-66-3	Chloroform	0.080	0.39	U	0.39	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.010	0.050	U	0.050	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.10	0.47	U	0.47	2.34	ug/m3
71-43-2	Benzene	0.25	0.80	J	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	0.32	1.21	J	0.41	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.070	0.38	U	0.38	2.73	ug/m3

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/25/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	03/26/25
Client Sample ID:	AA-DUP-1-3242025	SDG No.:	Q1665
Lab Sample ID:	Q1665-01	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
VL042290.D	1		04/09/25 13:25	VL040925

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.070	0.60	U	0.60	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.070	0.54	U	0.54	0.77	ug/m3
127-18-4	Tetrachloroethene	0.020	0.14	U	0.14	0.20	ug/m3
108-90-7	Chlorobenzene	0.080	0.37	U	0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	0.12	0.52	U	0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	0.21	0.91	U	0.91	4.34	ug/m3
95-47-6	o-Xylene	0.12	0.52	U	0.52	2.17	ug/m3
100-42-5	Styrene	0.11	0.47	U	0.47	2.13	ug/m3
75-25-2	Bromoform	0.060	0.62	U	0.62	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.010	0.070	U	0.070	0.21	ug/m3
95-49-8	2-Chlorotoluene	0.11	0.57	U	0.57	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.11	0.54	U	0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.080	0.39	U	0.39	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.050	0.30	U	0.30	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.090	0.67	U	0.67	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.090	0.96	U	0.96	5.33	ug/m3
106-99-0	1,3-Butadiene	0.13	0.29	U	0.29	1.11	ug/m3
91-20-3	Naphthalene	0.080	0.42	U	0.42	0.52	ug/m3
622-96-8	4-Ethyltoluene	0.12	0.59	U	0.59	2.46	ug/m3
110-54-3	Hexane	1.60	5.64		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	9.10		70 (65) - 130 (135)	91%	SPK: 10
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INTERNAL STANDARDS

74-97-5	Bromochloromethane	159000	2.784
540-36-3	1,4-Difluorobenzene	408000	3.952
3114-55-4	Chlorobenzene-d5	346000	8.875

TENTATIVE IDENTIFIED COMPOUNDS

75-45-6	Chlorodifluoromethane	0.33	J	1.47	ppbv
115-07-1	Propene	0.85	J	1.49	ppbv
000106-97-8	Butane	1.10	J	1.62	ppbv

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/25/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	03/26/25
Client Sample ID:	AA-DUP-1-3242025	SDG No.:	Q1665
Lab Sample ID:	Q1665-01	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
VL042290.D	1		04/09/25 13:25	VL040925

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
64-17-5	Ethanol	13.4		J		1.72	ppbv
67-63-0	Isopropyl Alcohol	1.80		J		1.88	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\VL040925\
 Data File : VL042290.D
 Acq On : 09 Apr 2025 13:25
 Operator : SY/MD
 Sample : Q1665-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 AA-DUP-1-3242025

Quant Time: Apr 10 01:43:08 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025
 QLast Update : Fri Mar 28 02:00:52 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 04/10/2025
 Supervised By : Mahesh Dadoda 04/10/2025

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

Internal Standards						
1) Bromochloromethane	2.784	49	159221	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	408039	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	345931	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.371	95	258960	9.116	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	91.200%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.496	85	9289	0.395	ppbv	96
3) Chlorodifluoromethane	1.473	51	7907m	0.329	ppbv	
4) Chloromethane	1.531	50	5425	0.565	ppbv	93
9) Propene	1.486	41	9320	0.847	ppbv #	80
10) Heptane	4.972	43	3212m	0.110	ppbv	
11) Trichlorofluoromethane	1.874	101	4760	0.208	ppbv	94
13) Ethanol	1.719	45	13916	13.373	ppbv	84
15) Acetone	1.835	43	79179	3.556	ppbv	93
19) Isopropyl Alcohol	1.884	45	22614	1.800	ppbv #	35
20) Methylene Chloride	2.059	84	7901	0.953	ppbv	93
26) Hexane	2.823	57	34660	1.553	ppbv #	37
34) 2-Butanone	2.561	43	10562	0.357	ppbv	99
35) Carbon Tetrachloride	3.761	117	2251m	0.071	ppbv	
36) Benzene	3.651	78	9975m	0.247	ppbv	
53) Toluene	6.930	91	15442m	0.322	ppbv	
59) m/p-Xylene	9.529	91	6464m	0.132	ppbv	

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

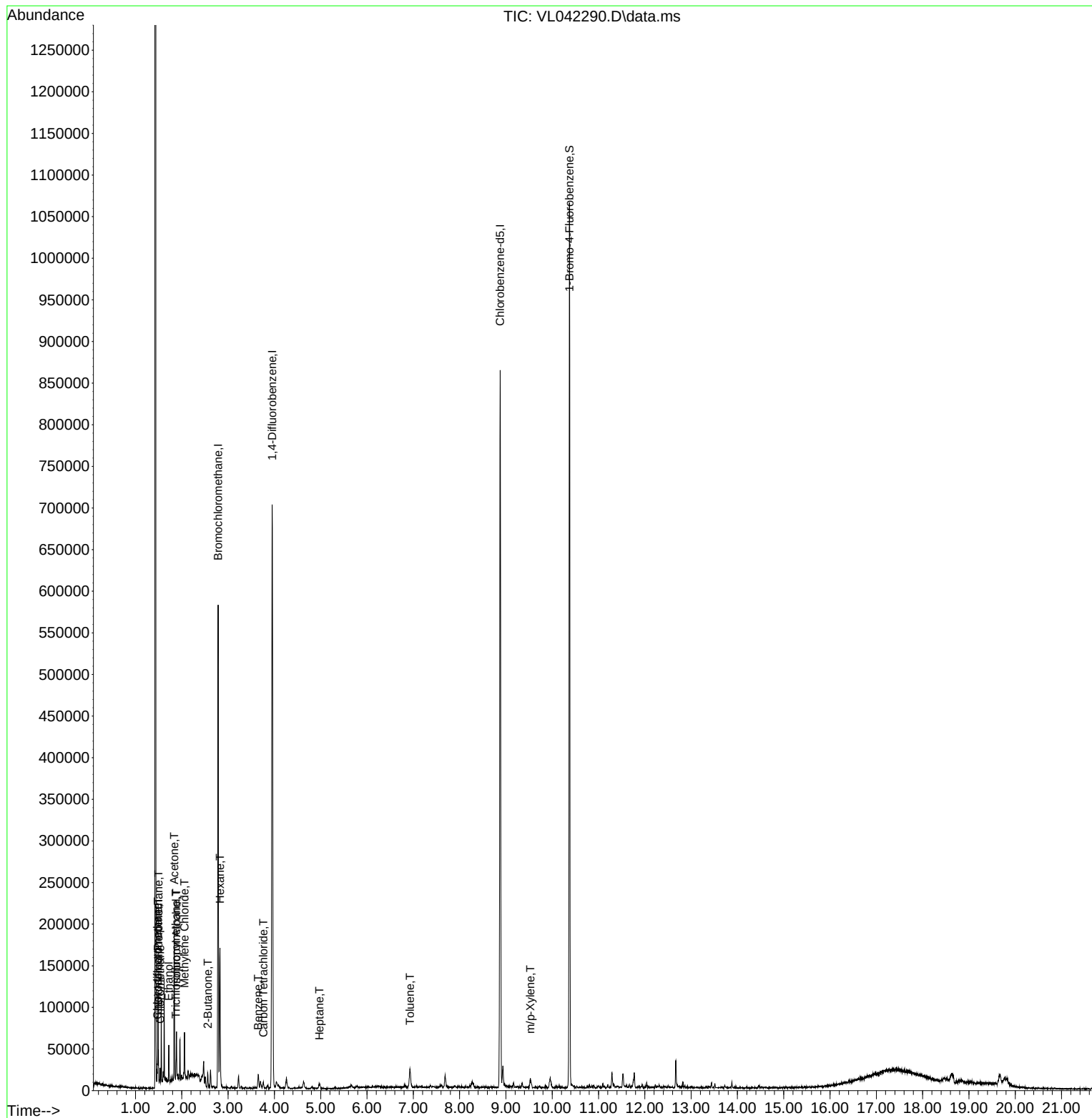
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042290.D
Acq On : 09 Apr 2025 13:25
Operator : SY/MD
Sample : Q1665-01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

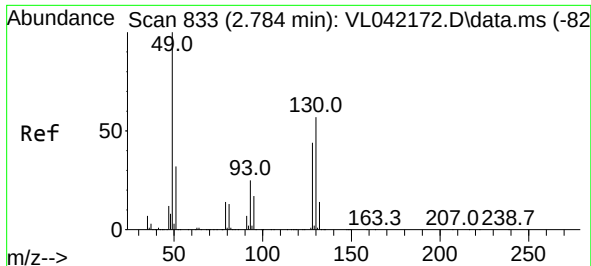
Instrument :
MSVOA_L
ClientSampleId :
AA-DUP-1-3242025

Quant Time: Apr 10 01:43:08 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 02:00:52 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

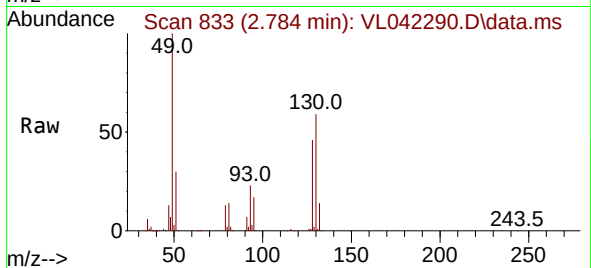
Reviewed By : Semsettin Yesilyurt 04/10/2025
Supervised By : Mahesh Dadoda 04/10/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. -0.000 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25

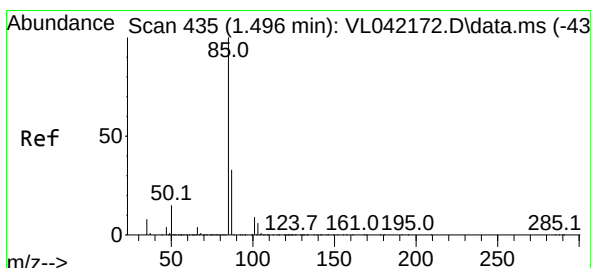
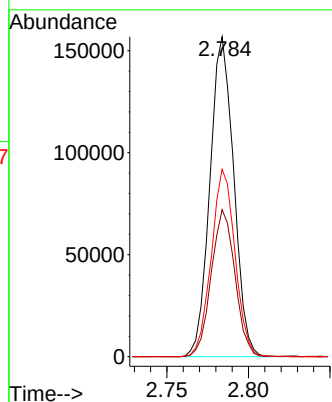
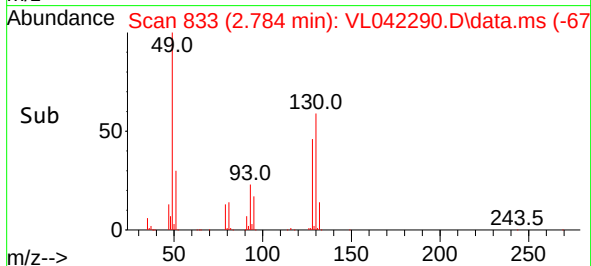
Instrument :
MSVOA_L
ClientSampleId :
AA-DUP-1-3242025



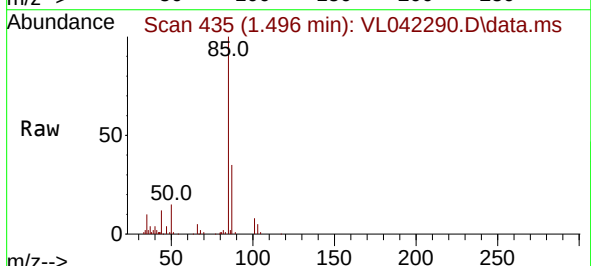
Tgt Ion: 49 Resp: 15922
Ion Ratio Lower Upper
49 100
128 45.7 22.9 68.5
130 58.4 28.8 86.4

Manual Integrations
APPROVED

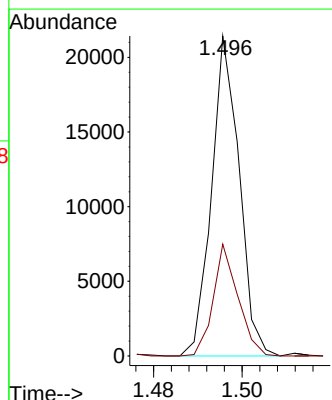
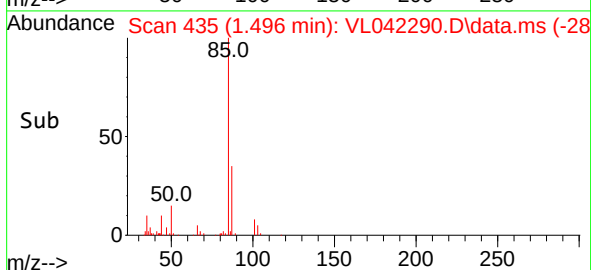
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

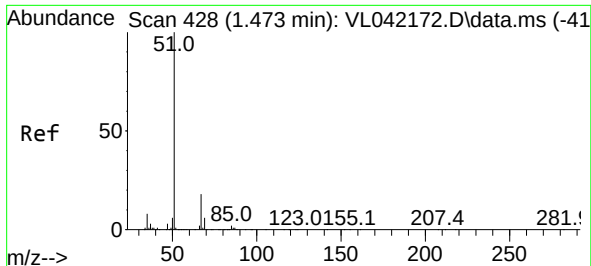


#2
Dichlorodifluoromethane
Concen: 0.395 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25



Tgt Ion: 85 Resp: 9289
Ion Ratio Lower Upper
85 100
87 34.9 26.1 39.1





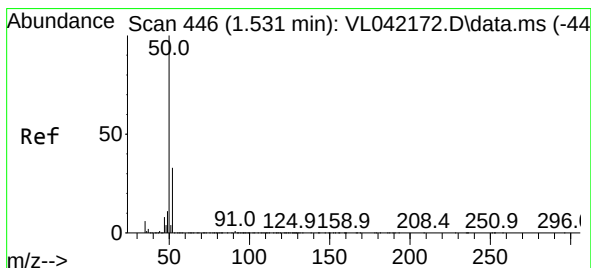
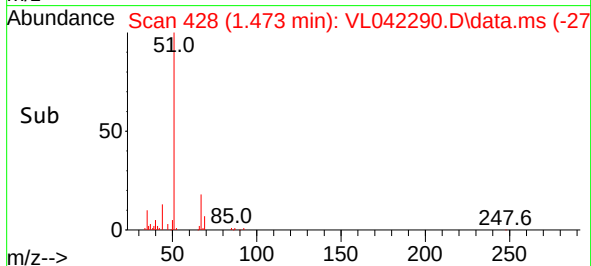
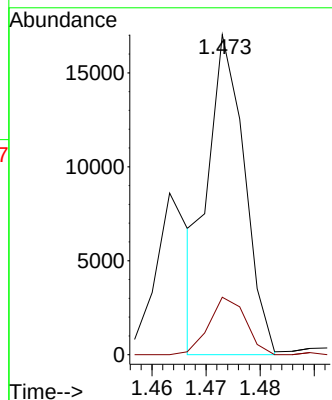
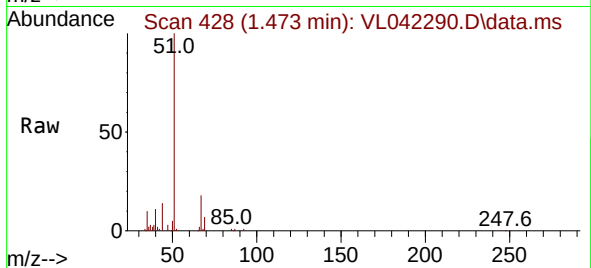
#3
Chlorodifluoromethane
Concen: 0.329 ppbv m
RT: 1.473 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25

Instrument :
MSVOA_L
ClientSampleId :
AA-DUP-1-3242025

Tgt Ion: 51 Resp: 790
Ion Ratio Lower Upper
51 100
67 18.8 15.0 22.6

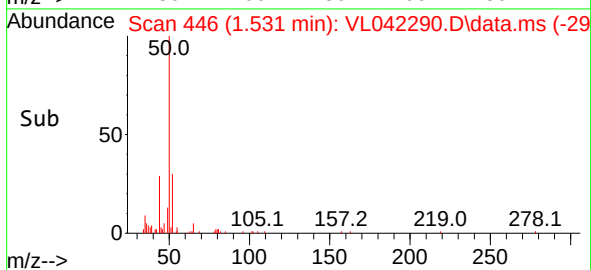
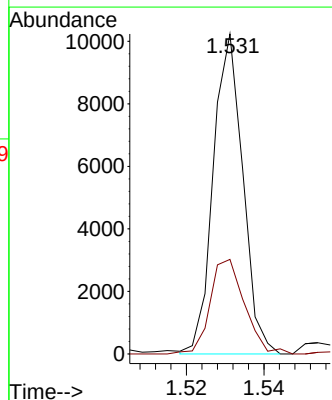
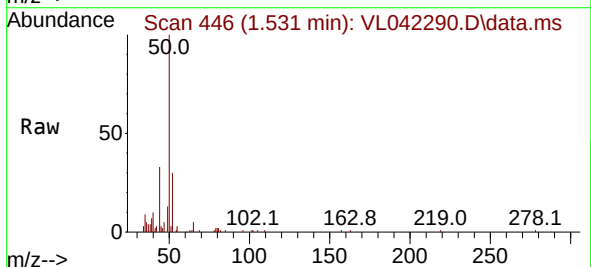
Manual Integrations
APPROVED

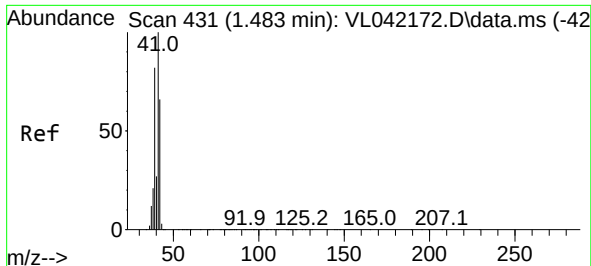
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#4
Chloromethane
Concen: 0.565 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25

Tgt Ion: 50 Resp: 5425
Ion Ratio Lower Upper
50 100
52 28.9 26.1 39.1





#9

Propene

Concen: 0.847 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042290.D

Acq: 09 Apr 2025 13:25

Instrument :

MSVOA_L

ClientSampleId :

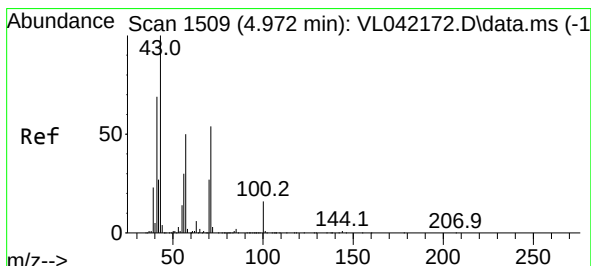
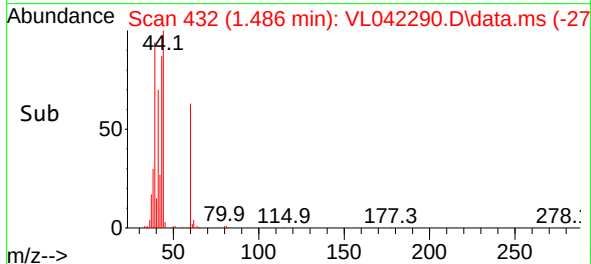
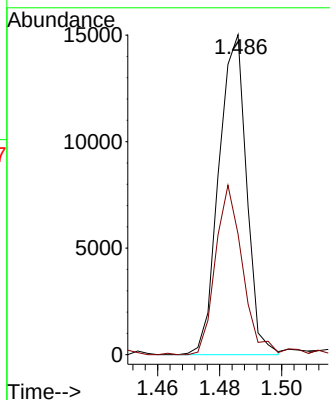
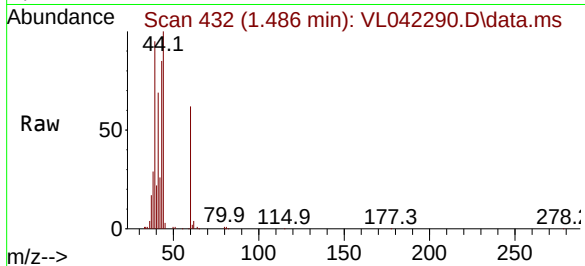
AA-DUP-1-3242025

Tgt Ion: 41 Resp: 9320
 Ion Ratio Lower Upper
 41 100
 42 52.7 55.4 83.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/10/2025
 Supervised By :Mahesh Dadoda 04/10/2025



#10

Heptane

Concen: 0.110 ppbv m

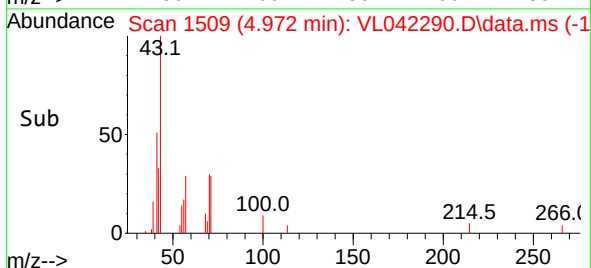
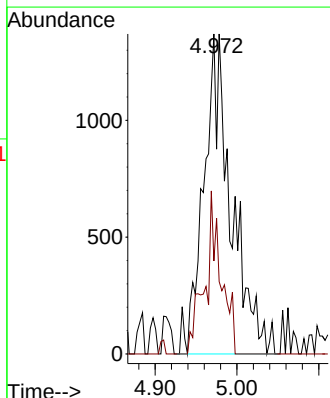
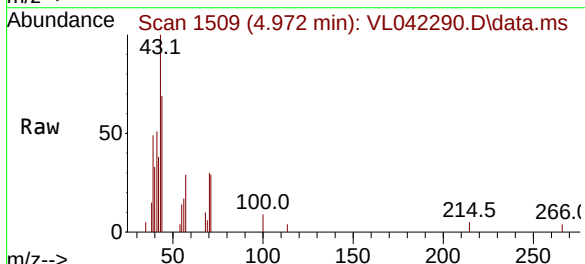
RT: 4.972 min Scan# 1509

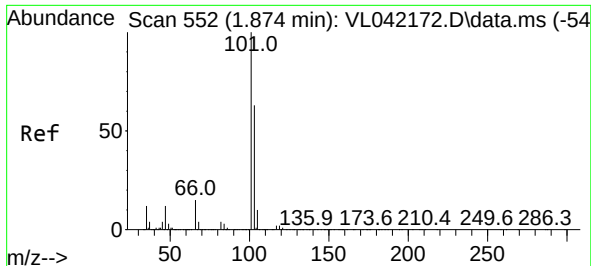
Delta R.T. -0.000 min

Lab File: VL042290.D

Acq: 09 Apr 2025 13:25

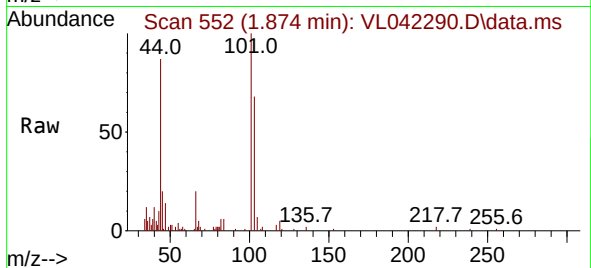
Tgt Ion: 43 Resp: 3212
 Ion Ratio Lower Upper
 43 100
 57 29.6 39.4 59.2





#11
Trichlorofluoromethane
Concen: 0.208 ppbv
RT: 1.874 min Scan# 511
Delta R.T. -0.000 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25

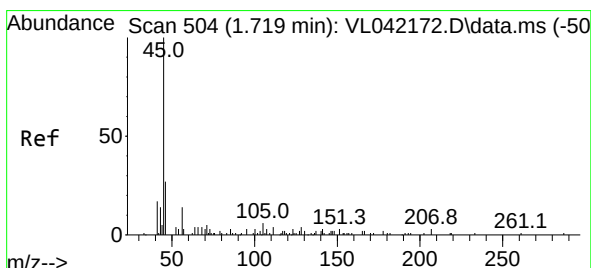
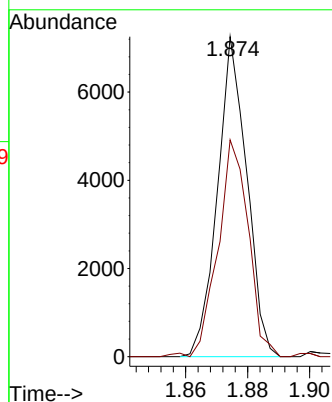
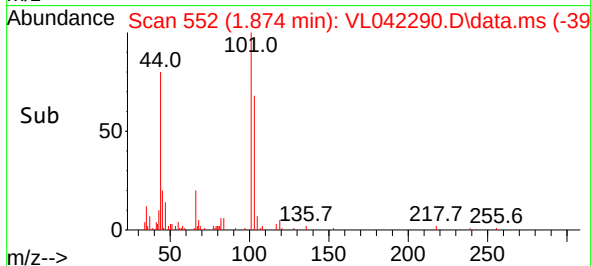
Instrument :
MSVOA_L
ClientSampleId :
AA-DUP-1-3242025



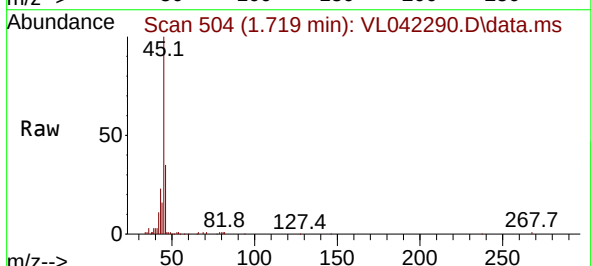
Tgt Ion:101 Resp: 4760
Ion Ratio Lower Upper
101 100
103 67.7 50.2 75.2

Manual Integrations
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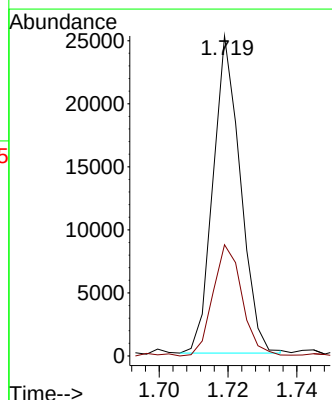
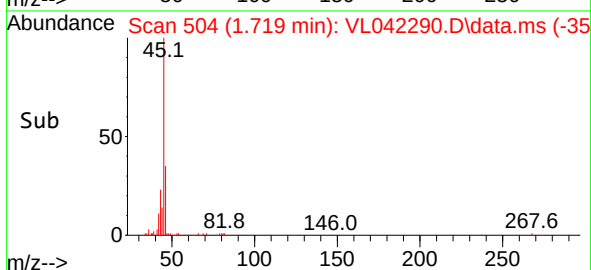
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

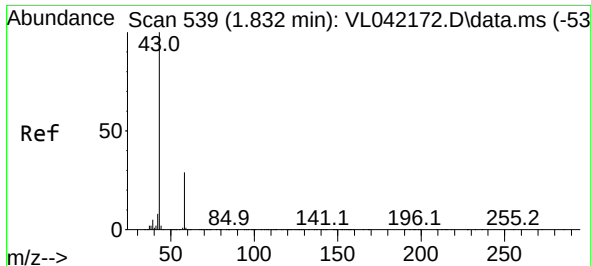


#13
Ethanol
Concen: 13.373 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25



Tgt Ion: 45 Resp: 13916
Ion Ratio Lower Upper
45 100
46 39.5 20.2 80.8





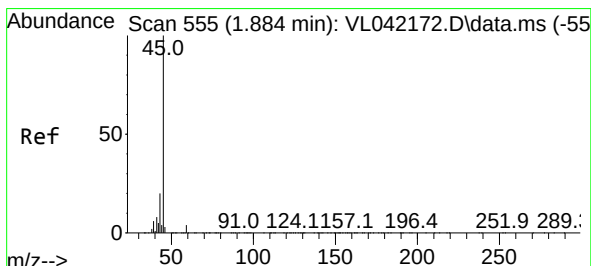
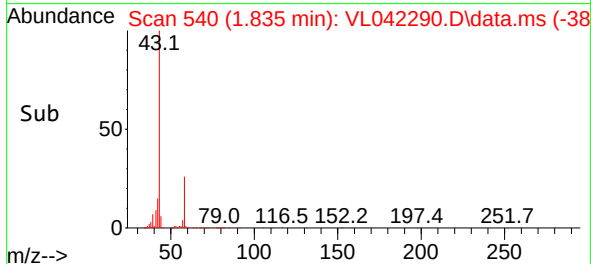
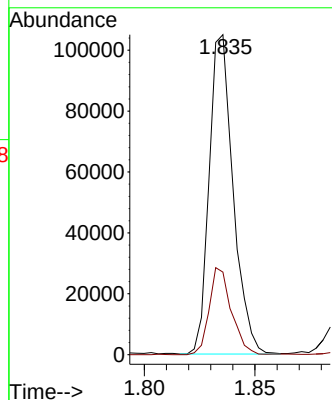
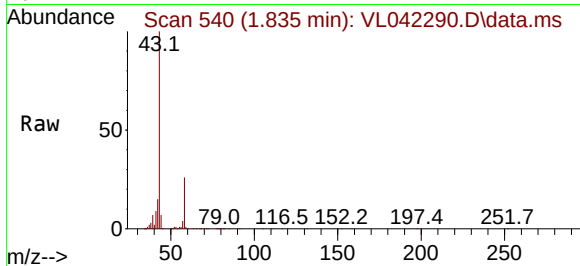
#15
Acetone
Concen: 3.556 ppbv
RT: 1.835 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25

Instrument :
MSVOA_L
ClientSampleId :
AA-DUP-1-3242025

Tgt Ion: 43 Resp: 79179
Ion Ratio Lower Upper
43 100
58 25.4 23.2 34.8

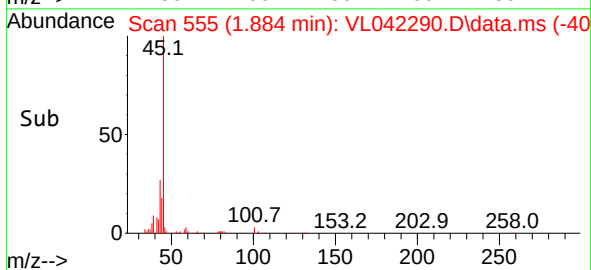
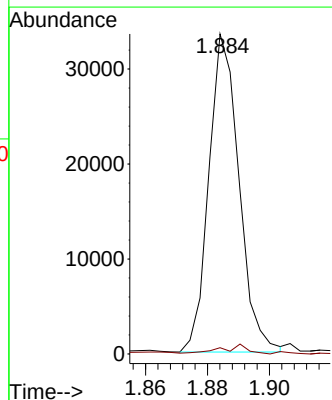
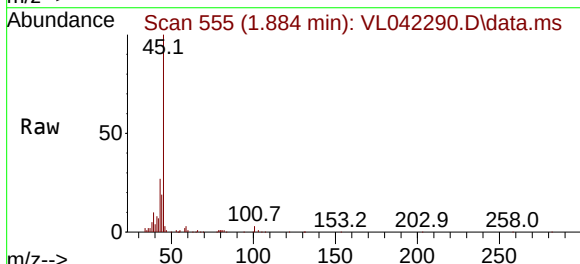
Manual Integrations
APPROVED

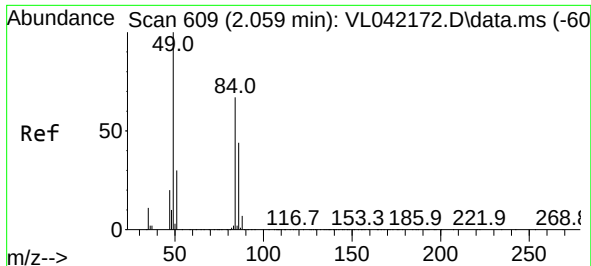
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#19
Isopropyl Alcohol
Concen: 1.800 ppbv
RT: 1.884 min Scan# 555
Delta R.T. -0.000 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25

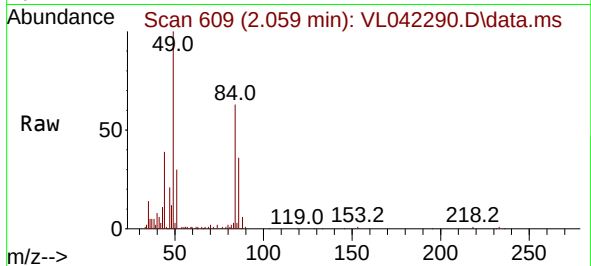
Tgt Ion: 45 Resp: 22614
Ion Ratio Lower Upper
45 100
58 89.0 36.9 55.3#





#20
Methylene Chloride
Concen: 0.953 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25

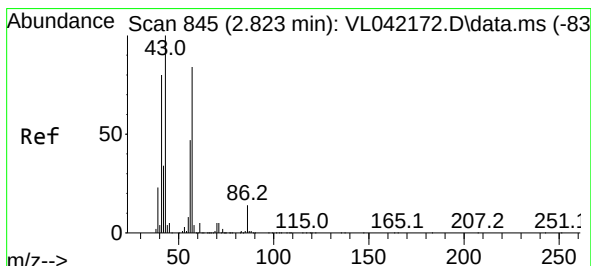
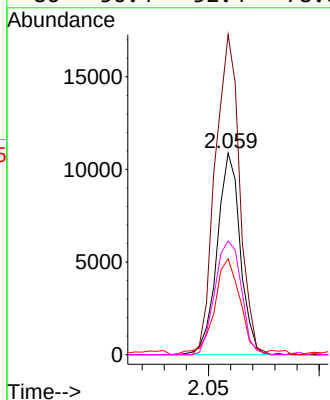
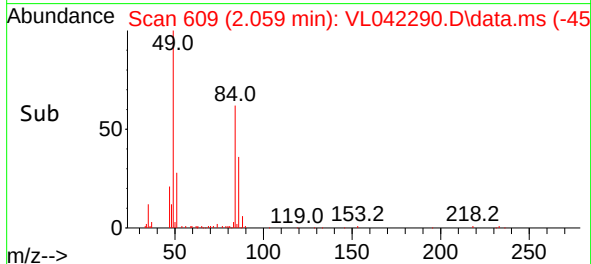
Instrument :
MSVOA_L
ClientSampleId :
AA-DUP-1-3242025



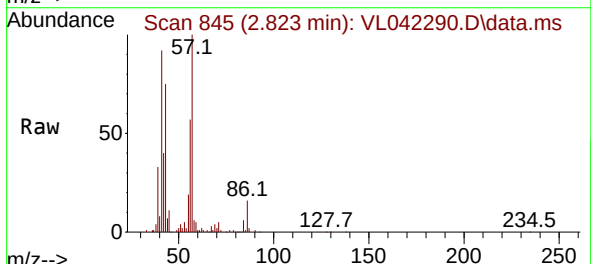
Tgt Ion: 84	Resp: 790
Ion Ratio	Lower Upper
84 100	
49 158.8	120.2 180.4
51 47.0	37.4 56.0
86 56.4	52.4 78.6

Manual Integrations
APPROVED

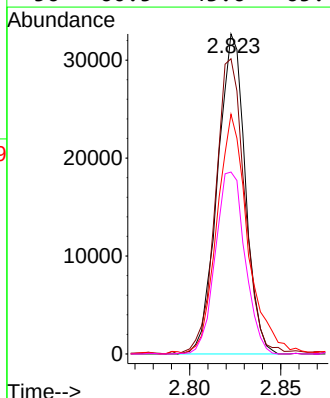
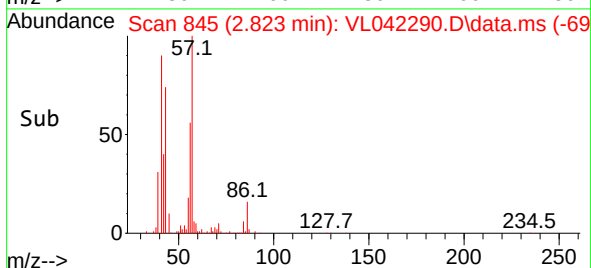
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

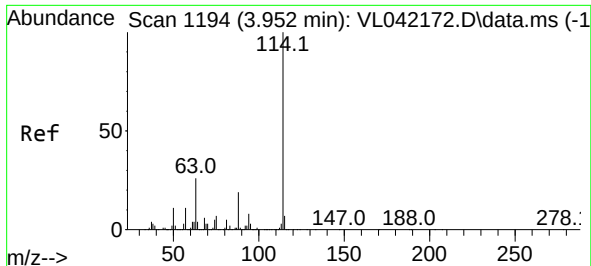


#26
Hexane
Concen: 1.553 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.000 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25



Tgt Ion: 57	Resp: 34660
Ion Ratio	Lower Upper
57 100	
41 96.0	76.6 114.8
43 85.4	207.8 311.8#
56 60.5	43.6 65.4





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.952 min Scan# 1194

Delta R.T. -0.000 min

Lab File: VL042290.D

Acq: 09 Apr 2025 13:25

Instrument :

MSVOA_L

ClientSampleId :

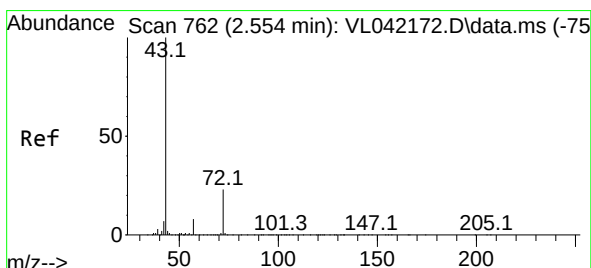
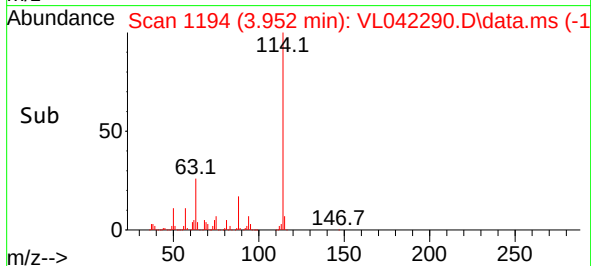
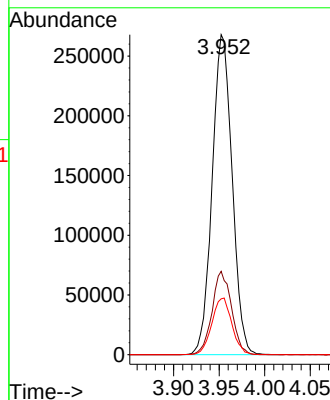
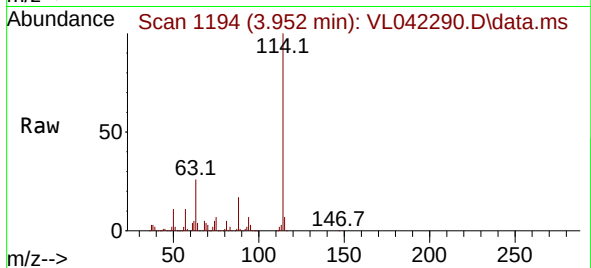
AA-DUP-1-3242025

Tgt Ion:114	Resp:	408039
Ion Ratio	Lower	Upper
114	100	
63	25.4	20.7 31.1
88	17.8	15.0 22.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#34

2-Butanone

Concen: 0.357 ppbv

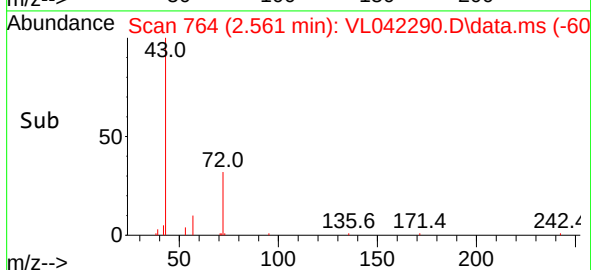
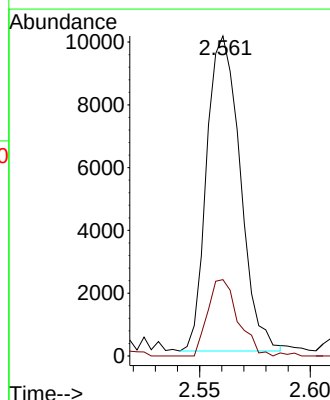
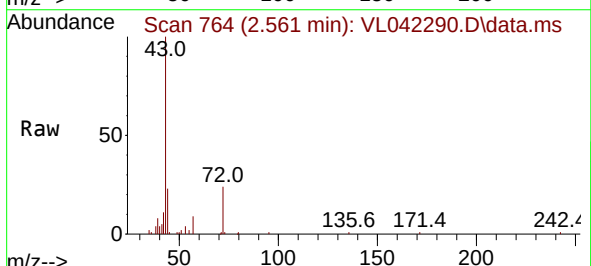
RT: 2.561 min Scan# 764

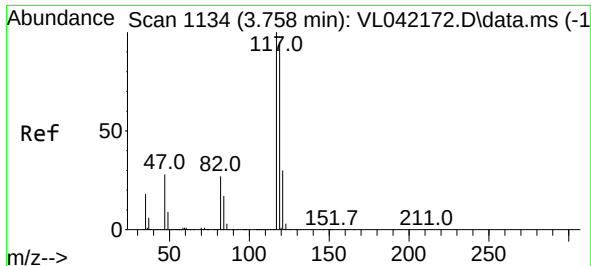
Delta R.T. 0.006 min

Lab File: VL042290.D

Acq: 09 Apr 2025 13:25

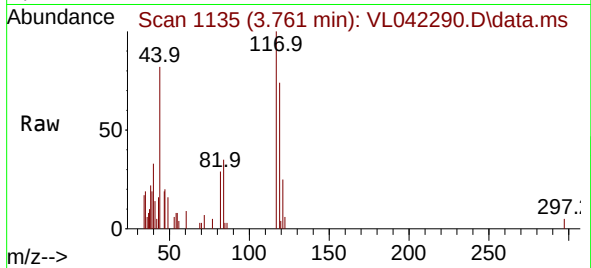
Tgt Ion: 43	Resp:	10562
Ion Ratio	Lower	Upper
43	100	
72	22.3	18.2 27.2





#35
Carbon Tetrachloride
Concen: 0.071 ppbv m
RT: 3.761 min Scan# 1135
Delta R.T. 0.003 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25

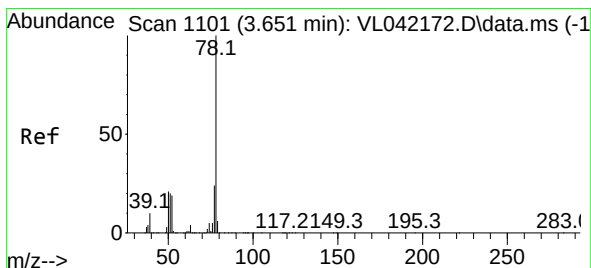
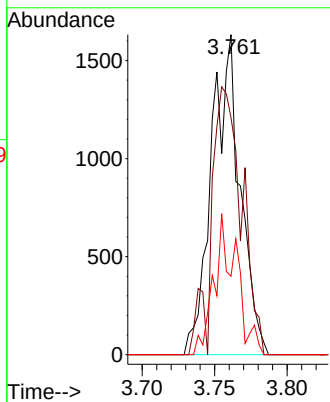
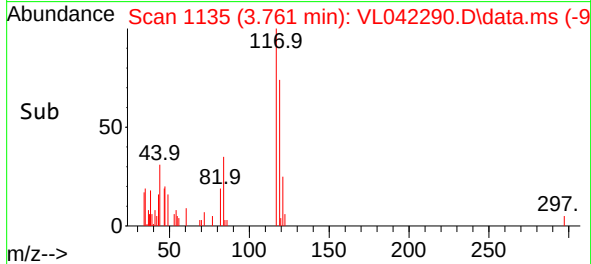
Instrument :
MSVOA_L
ClientSampleId :
AA-DUP-1-3242025



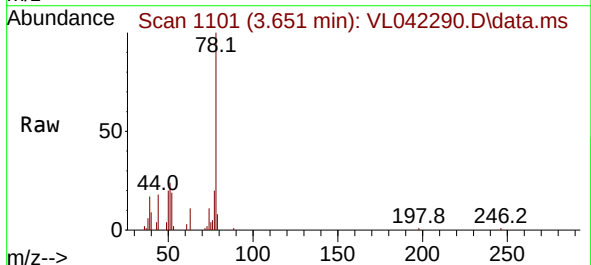
Tgt Ion: 117 Resp: 225
Ion Ratio Lower Upper
117 100
119 74.1 76.2 114.2
121 24.5 24.2 36.4

Manual Integrations
APPROVED

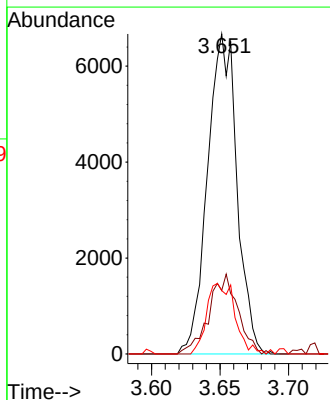
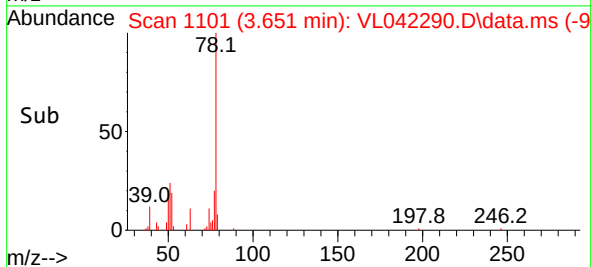
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

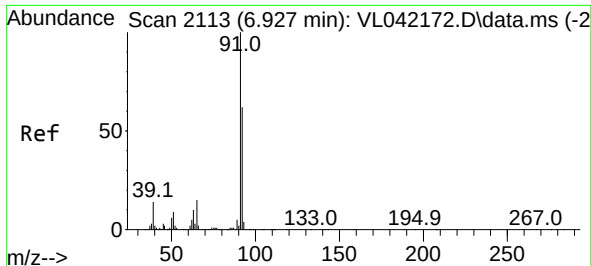


#36
Benzene
Concen: 0.247 ppbv m
RT: 3.651 min Scan# 1101
Delta R.T. -0.000 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25



Tgt Ion: 78 Resp: 9975
Ion Ratio Lower Upper
78 100
77 19.9 19.1 28.7
50 19.8 16.6 24.8





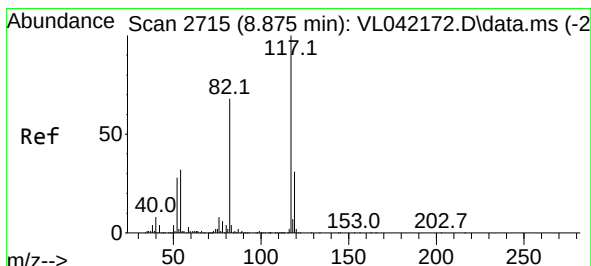
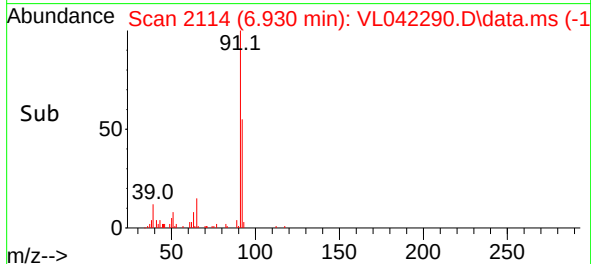
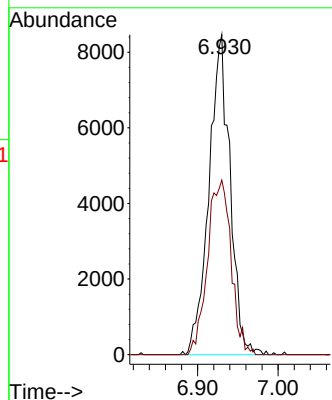
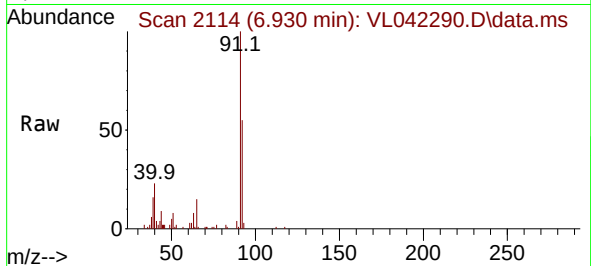
#53
Toluene
Concen: 0.322 ppbv m
RT: 6.930 min Scan# 2114
Delta R.T. 0.003 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25

Instrument :
MSVOA_L
ClientSampleId :
AA-DUP-1-3242025

Tgt Ion: 91 Resp: 1544
Ion Ratio Lower Upper
91 100
92 60.7 48.4 72.6

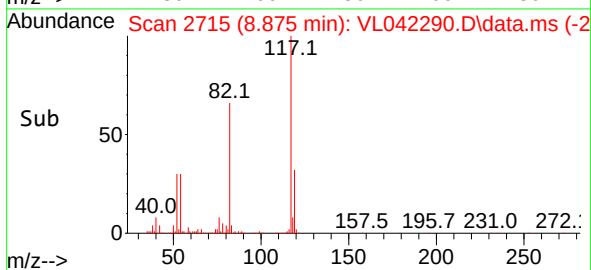
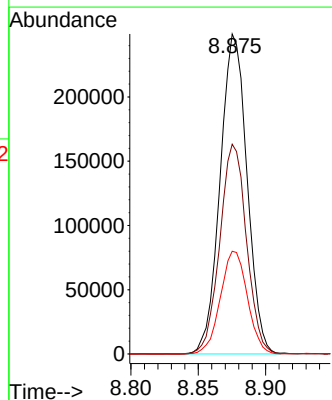
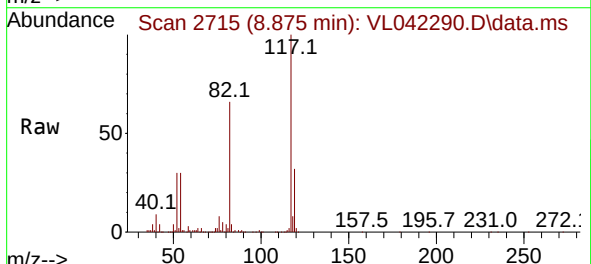
Manual Integrations
APPROVED

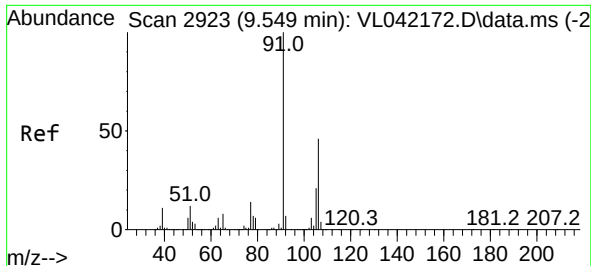
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. -0.000 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25

Tgt Ion:117 Resp: 345931
Ion Ratio Lower Upper
117 100
82 65.1 55.8 83.6
119 32.4 25.5 38.3





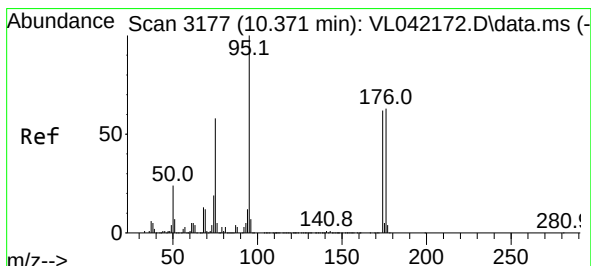
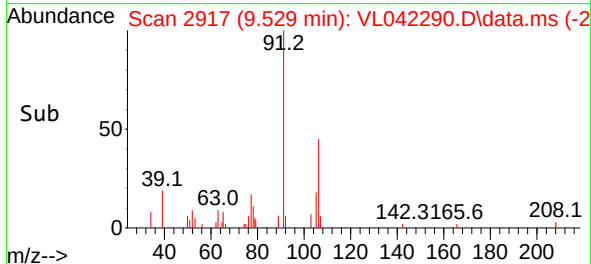
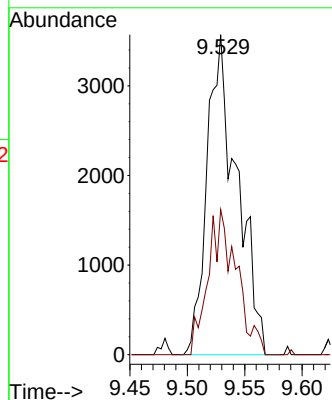
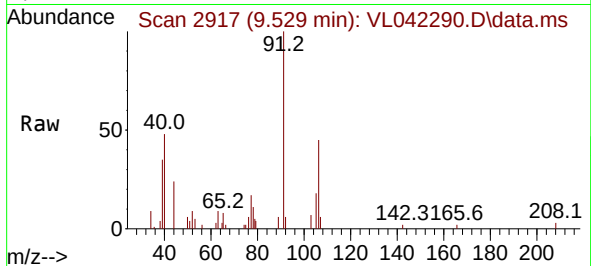
#59
m/p-Xylene
Concen: 0.132 ppbv m
RT: 9.529 min Scan# 2917
Delta R.T. -0.020 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25

Instrument :
MSVOA_L
ClientSampleId :
AA-DUP-1-3242025

Tgt Ion: 91 Resp: 646
Ion Ratio Lower Upper
91 100
106 0.0 36.4 54.6

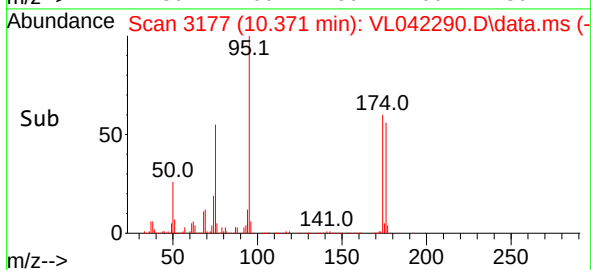
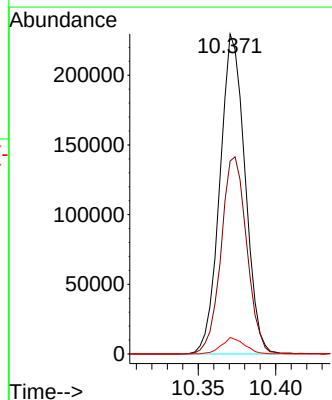
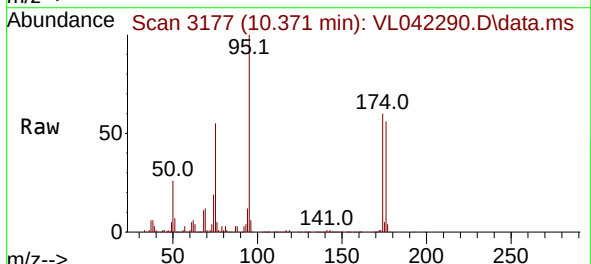
Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 9.116 ppbv
RT: 10.371 min Scan# 3177
Delta R.T. -0.000 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25

Tgt Ion: 95 Resp: 258960
Ion Ratio Lower Upper
95 100
174 63.3 50.6 76.0
175 4.8 3.8 5.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042290.D
Acq On : 09 Apr 2025 13:25
Operator : SY/MD
Sample : Q1665-01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
AA-DUP-1-3242025

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\VL032725AIR.M

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

Signal : TIC: VL042290.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	409	414	420	rBV	4043153	4322373	100.00%	47.520%
2	1.486	427	432	434	rBV2	94090	49930	1.16%	0.549%
3	1.557	449	454	458	rBV	97756	50996	1.18%	0.561%
4	1.619	470	473	477	rVB	122404	63382	1.47%	0.697%
5	1.835	533	540	549	rBV2	182262	162453	3.76%	1.786%
6	1.884	549	555	560	rBV2	57956	51799	1.20%	0.569%
7	2.059	605	609	617	rVB	54805	45166	1.04%	0.497%
8	2.784	825	833	839	rBV	579526	591430	13.68%	6.502%
9	2.823	839	845	855	rVB2	165579	187537	4.34%	2.062%
10	3.952	1182	1194	1209	rBV	700409	1073780	24.84%	11.805%
11	6.927	2100	2113	2123	rBV3	21740	43524	1.01%	0.479%
12	8.875	2703	2715	2726	rBV	862041	1216021	28.13%	13.369%
13	10.371	3163	3177	3187	rBV	1063377	1237447	28.63%	13.605%

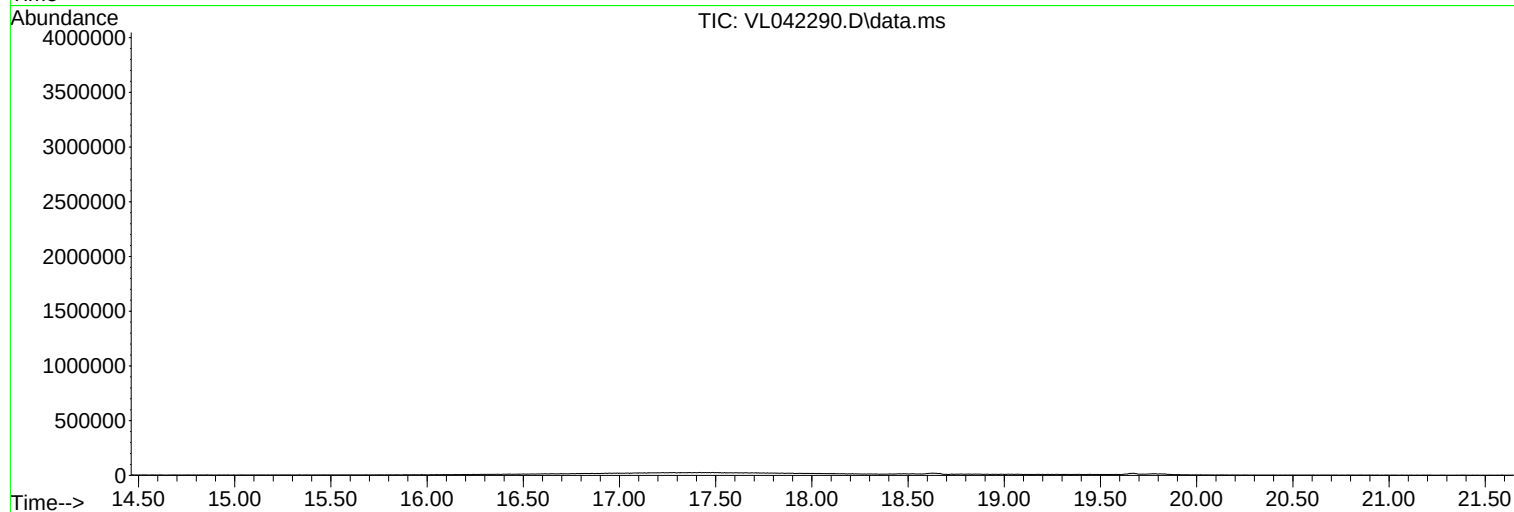
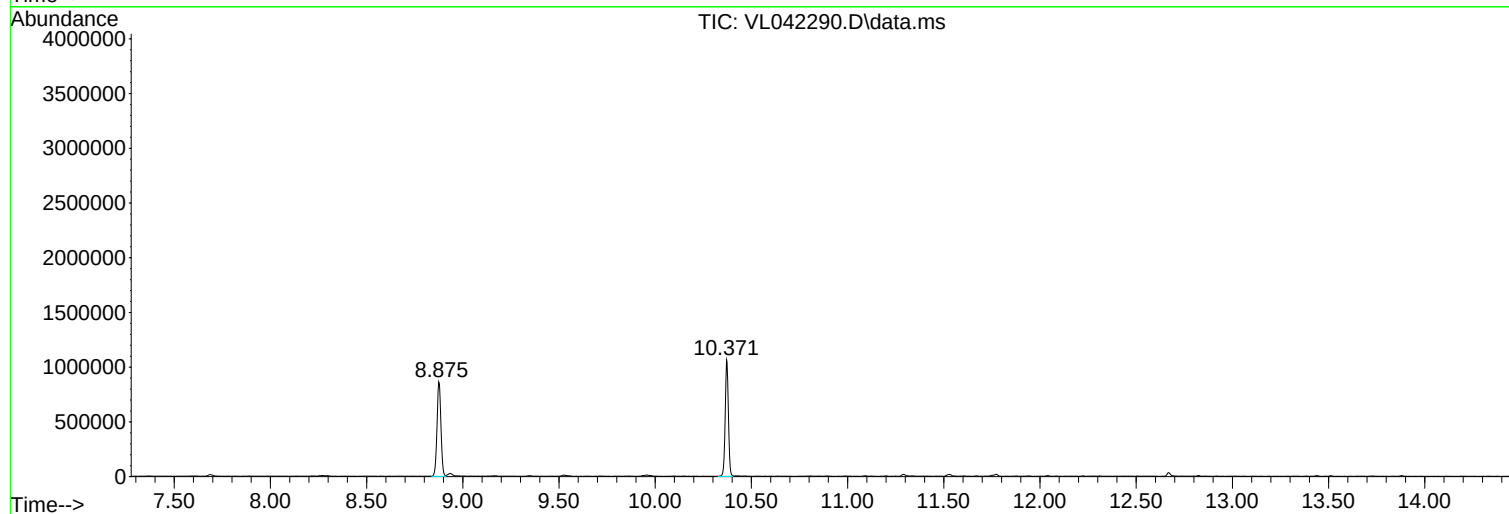
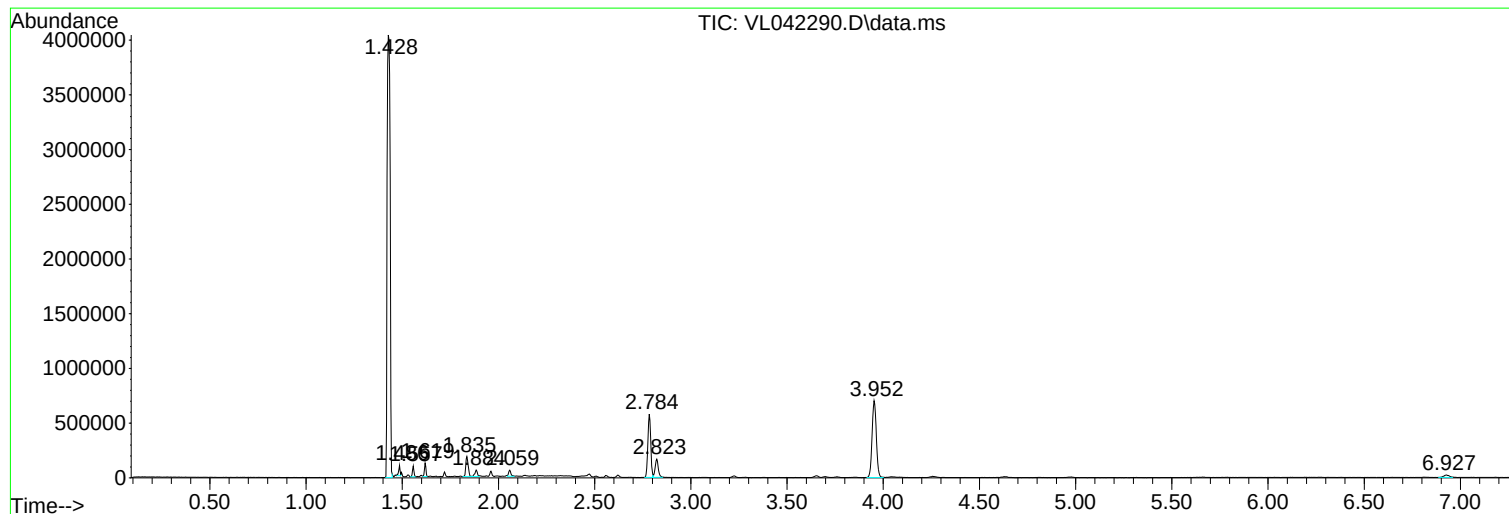
Sum of corrected areas: 9095838

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042290.D
Acq On : 09 Apr 2025 13:25
Operator : SY/MD
Sample : Q1665-01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
AA-DUP-1-3242025

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

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042290.D
Acq On : 09 Apr 2025 13:25
Operator : SY/MD
Sample : Q1665-01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
AA-DUP-1-3242025

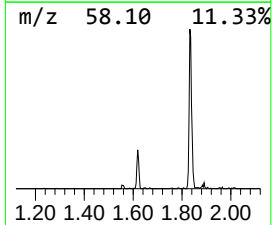
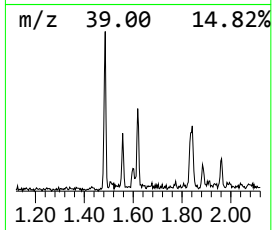
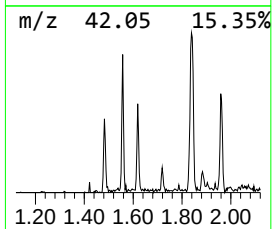
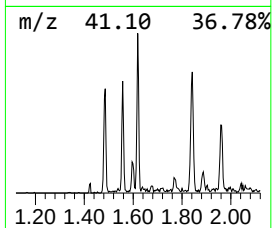
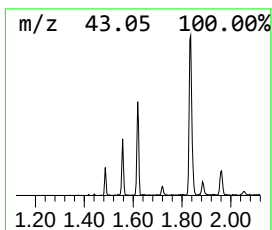
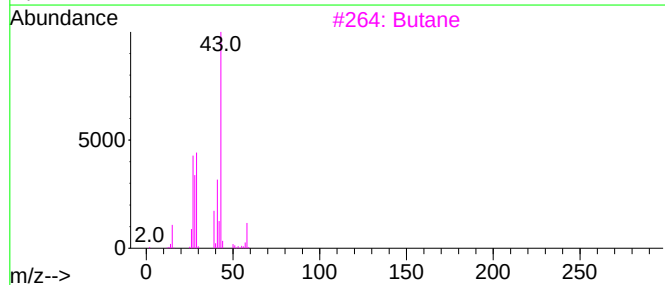
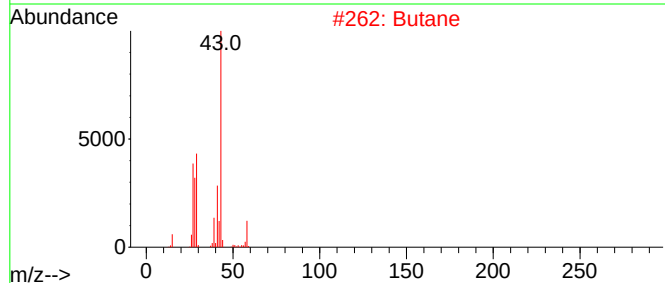
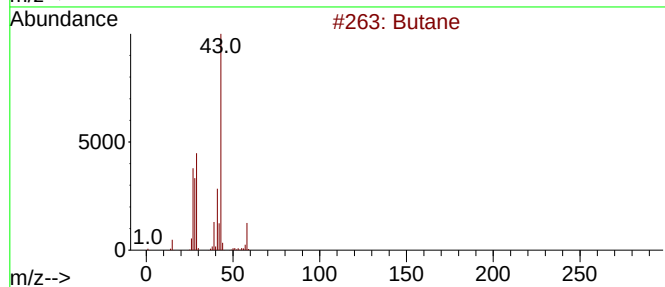
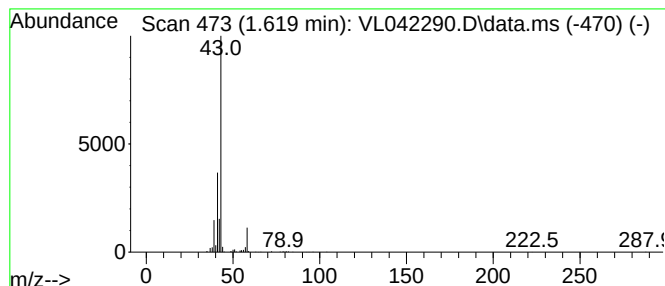
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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	1.07 ppbv	63382	Bromochloromethane	2.784

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	45
4	Isopropylsulfonyl chloride			142	C3H7ClO2S	010147-37-2	23
5	Butane			58	C4H10	000106-97-8	9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042290.D
Acq On : 09 Apr 2025 13:25
Operator : SY/MD
Sample : Q1665-01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
AA-DUP-1-3242025

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

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	1.619	1.1	ppbv	63382	1	2.784	591430	10.0

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/25/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	03/26/25
Client Sample ID:	IA-B10-2-3242025	SDG No.:	Q1665
Lab Sample ID:	Q1665-03	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
VL042317.D	1		04/11/25 13:15	VL041125

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.40	1.98	J	1.04	2.47	ug/m3
74-87-3	Chloromethane	0.59	1.22		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	0.21	1.18	J	0.90	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.16	1.23	U	1.23	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.090	0.63	U	0.63	3.49	ug/m3
75-65-0	tert-Butyl alcohol	0.47	1.42	J	0.58	1.52	ug/m3
142-82-5	Heptane	0.17	0.70	J	0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
67-64-1	Acetone	82.7	196	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	1.60	5.56		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	26.8	79.0	E	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	1.40	6.84		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	0.60	1.92		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	0.49	1.85	J	0.41	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.070	0.38	U	0.38	2.73	ug/m3

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/25/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	03/26/25
Client Sample ID:	IA-B10-2-3242025	SDG No.:	Q1665
Lab Sample ID:	Q1665-03	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
VL042317.D	1		04/11/25 13:15	VL041125

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.070	0.60	U	0.60	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.070	0.54	U	0.54	0.77	ug/m3
127-18-4	Tetrachloroethene	0.040	0.27		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	J	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	UQ	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	0.12	0.59	J	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	UQ	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	2.50	8.81		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
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INTERNAL STANDARDS

74-97-5	Bromochloromethane	179000	2.79
540-36-3	1,4-Difluorobenzene	423000	3.965
3114-55-4	Chlorobenzene-d5	361000	8.888

TENTATIVE IDENTIFIED COMPOUNDS

115-07-1	Propene	4.30	J	1.49	ppbv
000106-97-8	Butane	1.30	J	1.62	ppbv
64-17-5	Ethanol	1300	J	1.73	ppbv

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/25/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	03/26/25
Client Sample ID:	IA-B10-2-3242025	SDG No.:	Q1665
Lab Sample ID:	Q1665-03	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
VL042317.D	1		04/11/25 13:15	VL041125

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
67-63-0	Isopropyl Alcohol	81.1		J		1.89	ppbv
007452-79-1	Butanoic acid, 2-methyl-, ethyl es	1.50		J		9.16	ppbv
005989-27-5	D-Limonene	21.3		J		12.0	ppbv
001762-27-2	Plumbane, diethyldimethyl-	65.1		J		13.4	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\VL041125\
 Data File : VL042317.D
 Acq On : 11 Apr 2025 13:15
 Operator : SY/MD
 Sample : Q1665-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B10-2-3242025

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/16/2025
 Supervised By :Mahesh Dadoda 04/17/2025

Quant Time: Apr 11 22:59:23 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	2.790	49	179309	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	422807	10.000	ppbv	0.01
55) Chlorobenzene-d5	8.888	117	360993	10.000	ppbv	0.01
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	291371	9.829	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.300%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	10578	0.400	ppbv	98
4) Chloromethane	1.531	50	6409	0.592	ppbv	93
9) Propene	1.489	41	53741m	4.335	ppbv	
10) Heptane	4.978	43	5613m	0.170	ppbv	
11) Trichlorofluoromethane	1.881	101	5509	0.214	ppbv	86
13) Ethanol	1.725	45	1540169	1314.265	ppbv	93
15) Acetone	1.835	43	2074699	82.732	ppbv #	78
17) tert-Butyl alcohol	2.046	59	14565	0.466	ppbv	97
19) Isopropyl Alcohol	1.887	45	1147205	81.079	ppbv #	58
20) Methylene Chloride	2.065	84	14725	1.577	ppbv	90
26) Hexane	2.829	57	64050	2.548	ppbv	93
29) Chloroform	2.855	83	50104	1.362	ppbv	95
34) 2-Butanone	2.560	43	822701	26.834	ppbv	98
35) Carbon Tetrachloride	3.768	117	2921m	0.088	ppbv	
36) Benzene	3.664	78	25066	0.598	ppbv #	90
52) Tetrachloroethene	8.228	164	585m	0.035	ppbv	
53) Toluene	6.939	91	24232	0.488	ppbv	99
59) m/p-Xylene	9.535	91	9717m	0.190	ppbv	
60) o-Xylene	9.969	91	5940	0.116	ppbv	89
74) 1,2,4-Trimethylbenzene	11.542	105	7764	0.121	ppbv #	72

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

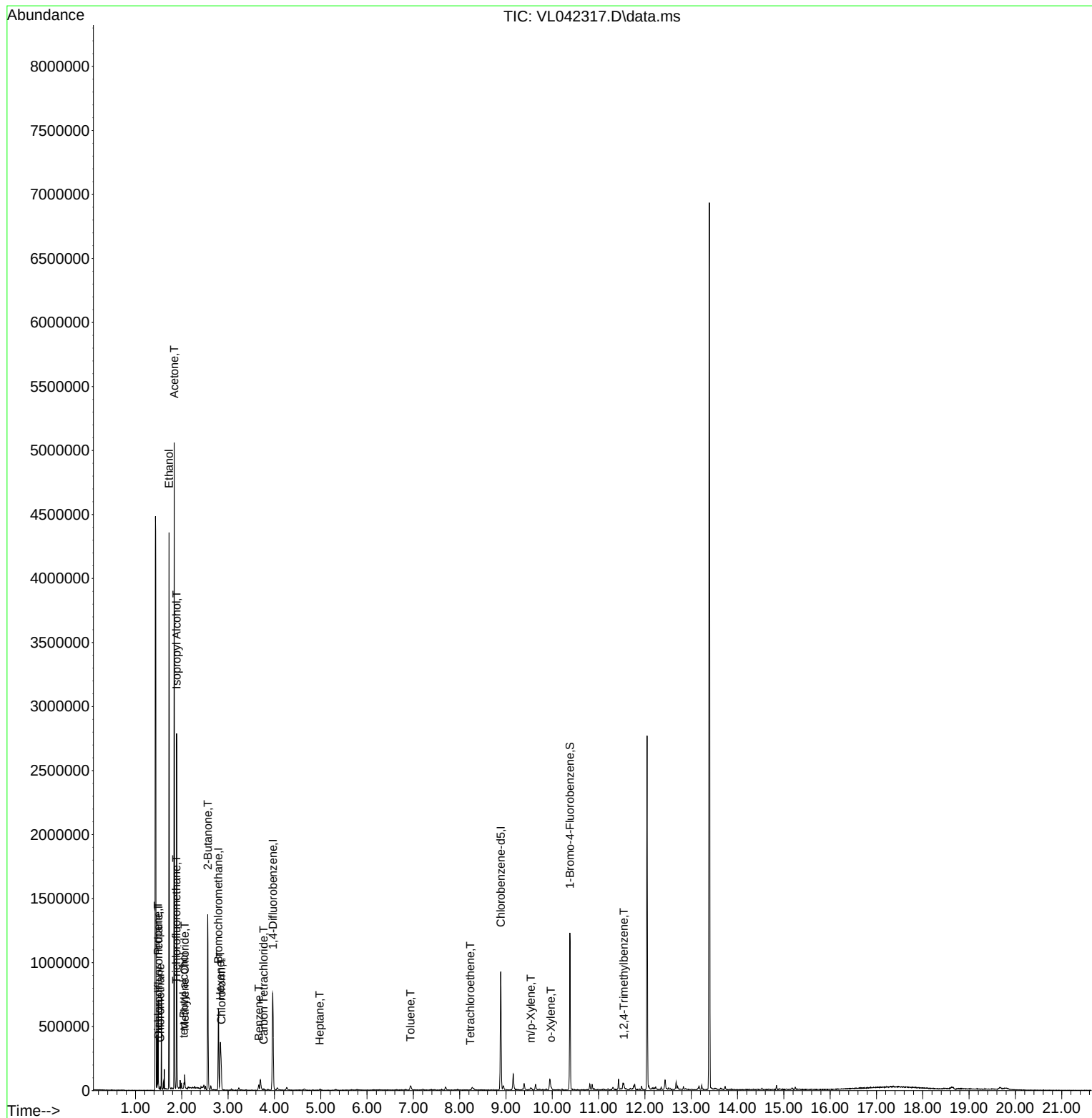
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042317.D
Acq On : 11 Apr 2025 13:15
Operator : SY/MD
Sample : Q1665-03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

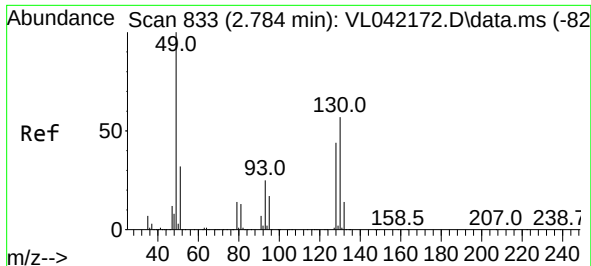
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-2-3242025

Quant Time: Apr 11 22:59:23 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 02:00:52 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025





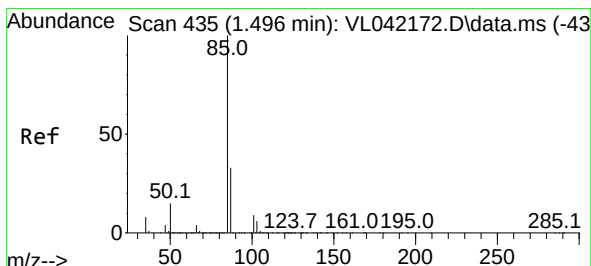
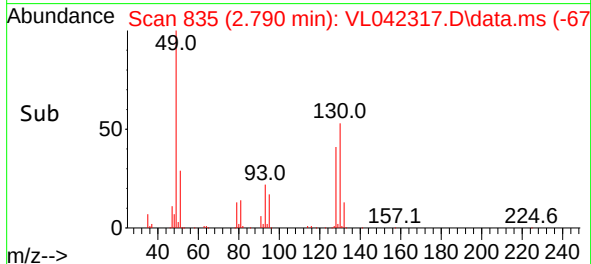
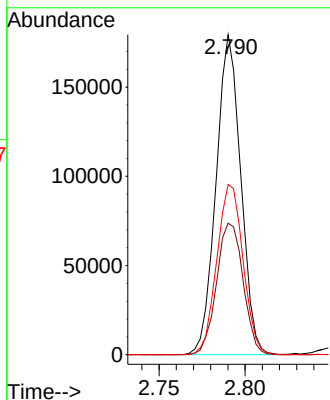
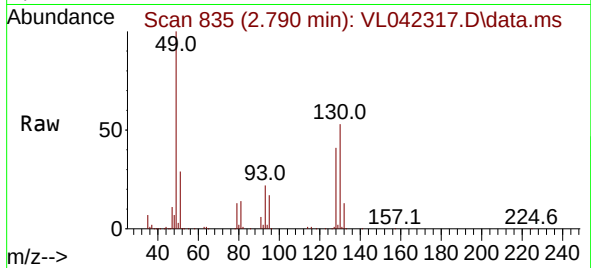
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 81
Delta R.T. 0.006 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

Instrument :
MSVOA_L
ClientSampleId :
IA-B10-2-3242025

Tgt Ion: 49 Resp: 179309
Ion Ratio Lower Upper
49 100
128 44.1 22.9 68.5
130 56.5 28.8 86.4

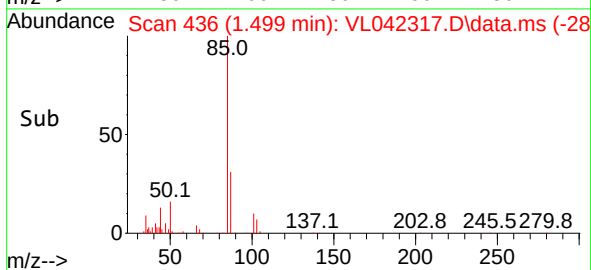
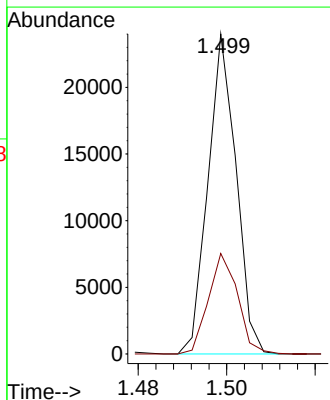
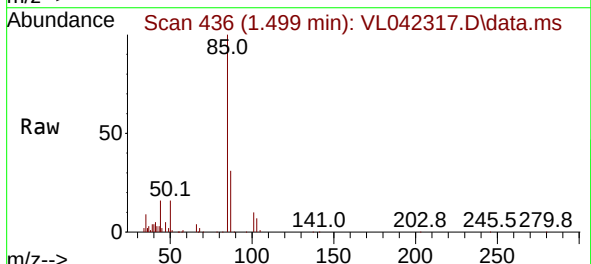
Manual Integrations
APPROVED

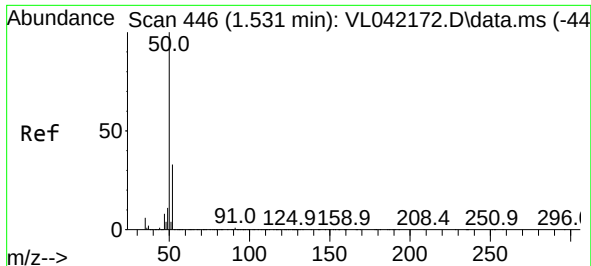
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#2
Dichlorodifluoromethane
Concen: 0.400 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

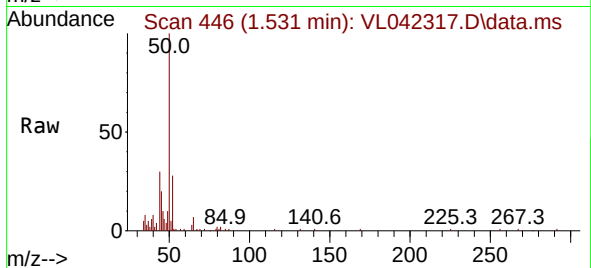
Tgt Ion: 85 Resp: 10578
Ion Ratio Lower Upper
85 100
87 31.4 26.1 39.1





#4
Chloromethane
Concen: 0.592 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

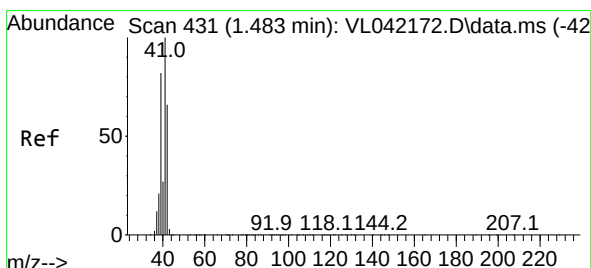
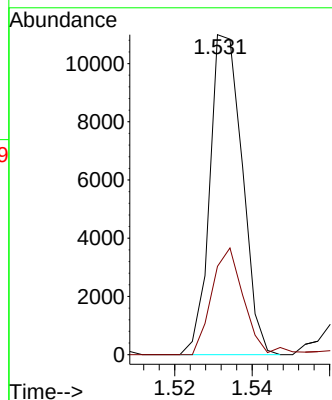
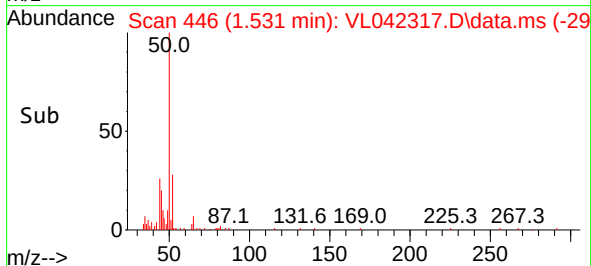
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-2-3242025



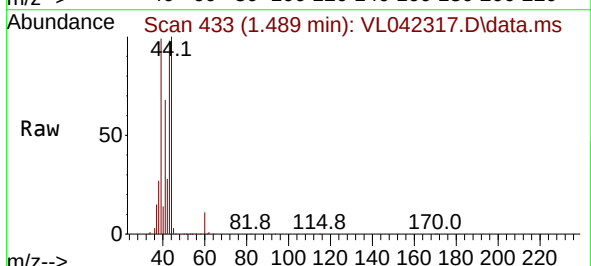
Tgt Ion: 50 Resp: 6409
Ion Ratio Lower Upper
50 100
52 28.9 26.1 39.1

Manual Integrations
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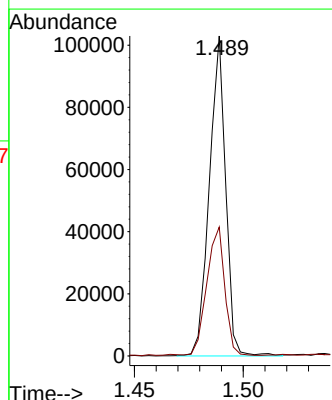
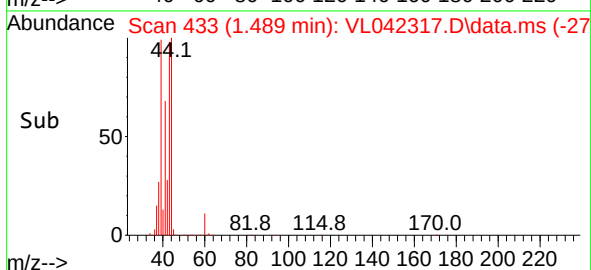
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

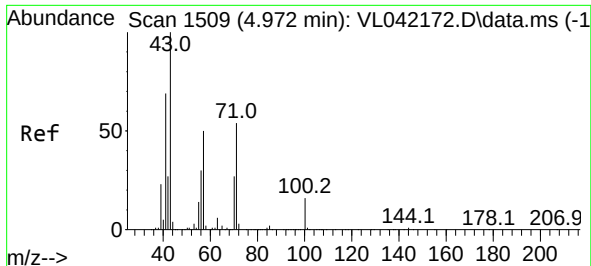


#9
Propene
Concen: 4.335 ppbv m
RT: 1.489 min Scan# 433
Delta R.T. 0.006 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15



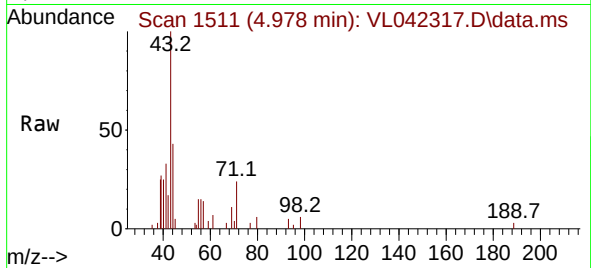
Tgt Ion: 41 Resp: 53741
Ion Ratio Lower Upper
41 100
42 131.6 55.4 83.2#





#10
Heptane
Concen: 0.170 ppbv m
RT: 4.978 min Scan# 11
Delta R.T. 0.006 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

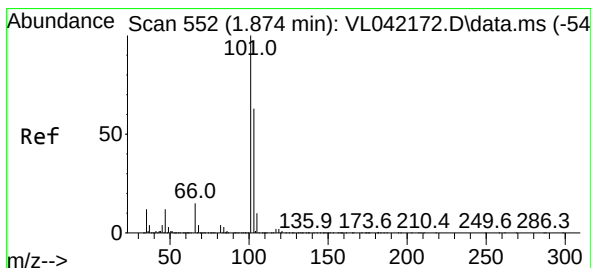
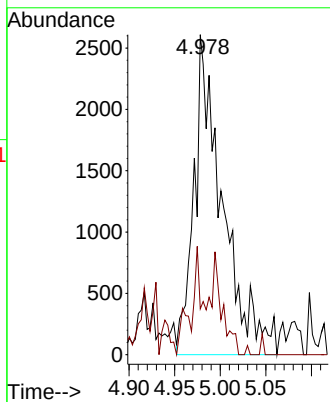
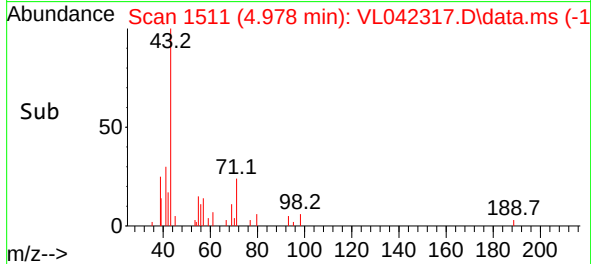
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-2-3242025



Tgt Ion: 43 Resp: 561
Ion Ratio Lower Upper
43 100
57 0.0 39.4 59.2

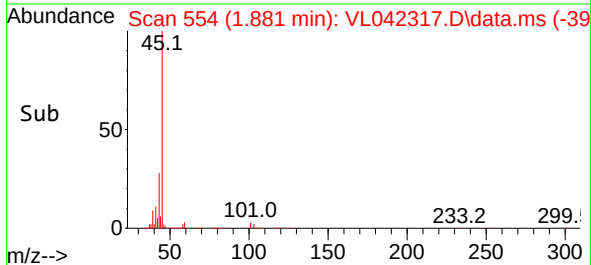
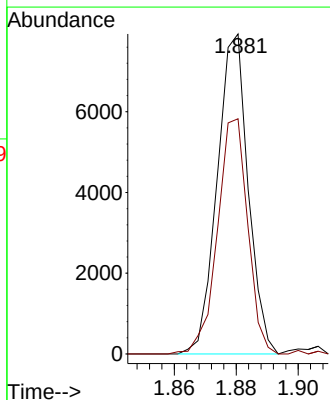
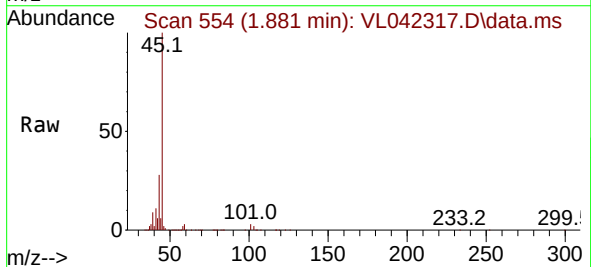
Manual Integrations
APPROVED

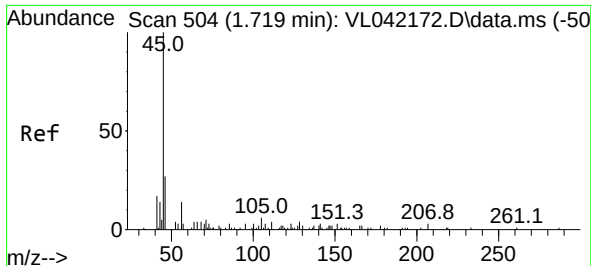
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#11
Trichlorofluoromethane
Concen: 0.214 ppbv
RT: 1.881 min Scan# 554
Delta R.T. 0.006 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

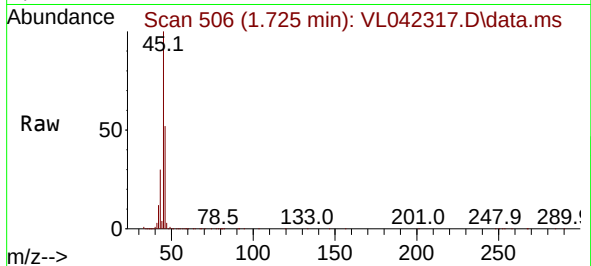
Tgt Ion:101 Resp: 5509
Ion Ratio Lower Upper
101 100
103 73.5 50.2 75.2





#13
Ethanol
Concen: 1314.265 ppbv
RT: 1.725 min Scan# 504
Delta R.T. 0.006 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

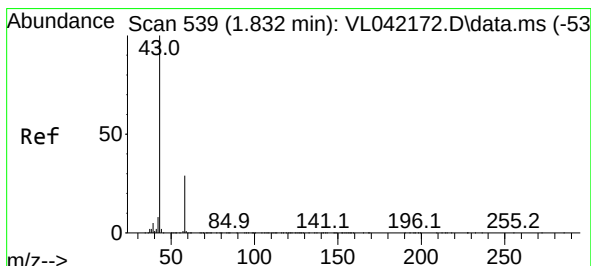
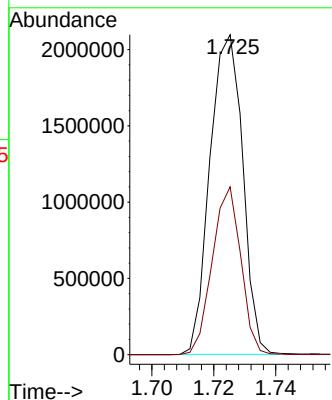
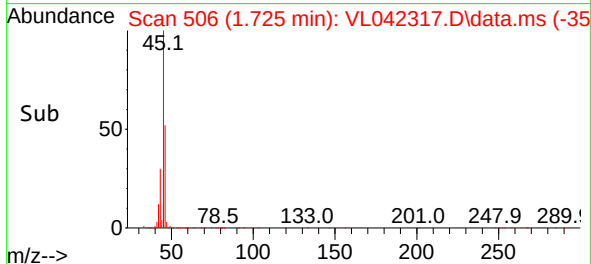
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-2-3242025



Tgt Ion: 45 Resp: 1540169
Ion Ratio Lower Upper
45 100
46 45.9 20.2 80.8

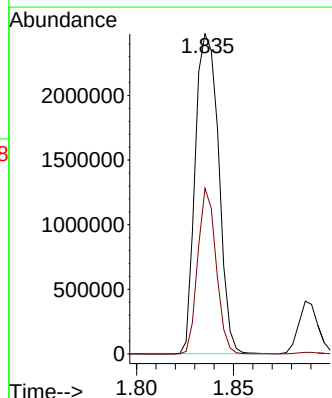
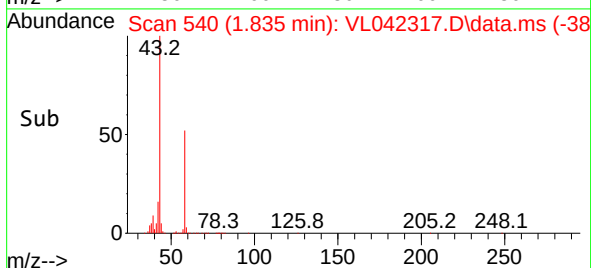
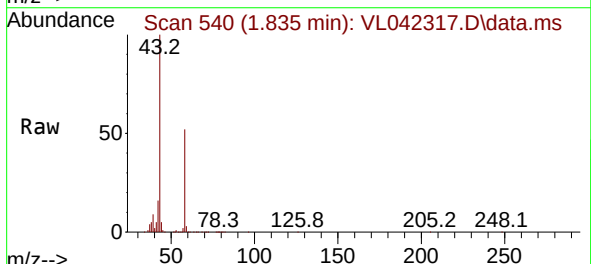
Manual Integrations
APPROVED

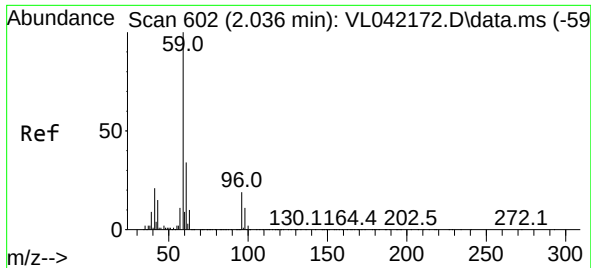
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#15
Acetone
Concen: 82.732 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.003 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

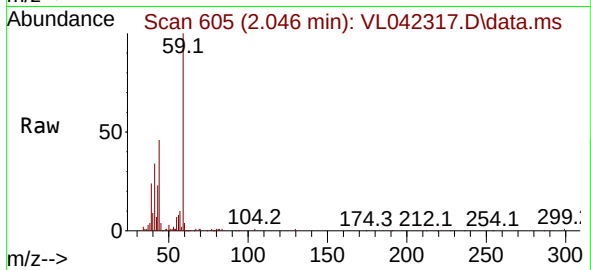
Tgt Ion: 43 Resp: 2074699
Ion Ratio Lower Upper
43 100
58 40.8 23.2 34.8#





#17
tert-Butyl alcohol
Concen: 0.466 ppbv
RT: 2.046 min Scan# 602
Delta R.T. 0.009 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

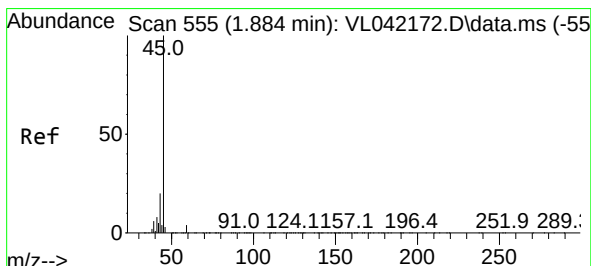
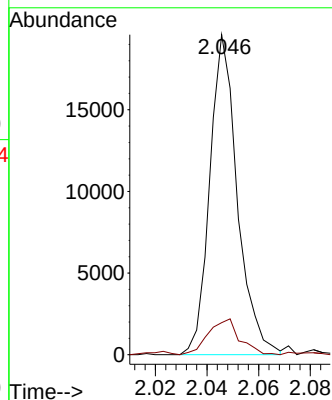
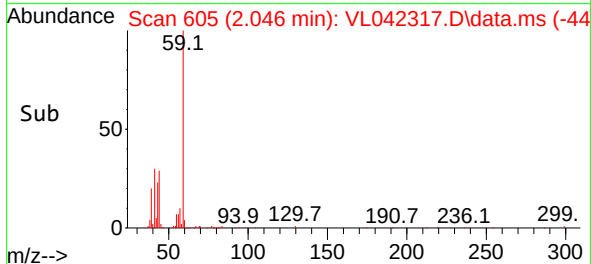
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-2-3242025



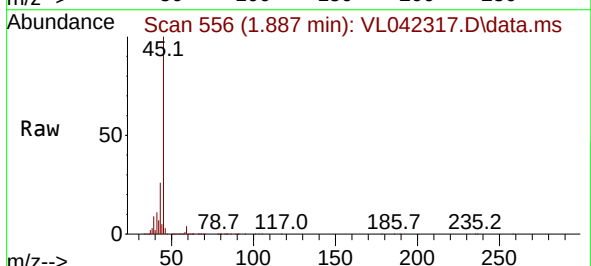
Tgt Ion: 59 Resp: 1456
Ion Ratio Lower Upper
59 100
57 12.2 8.9 13.3

Manual Integrations
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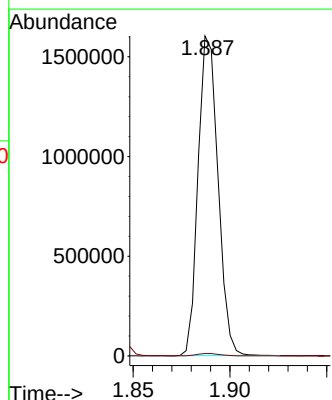
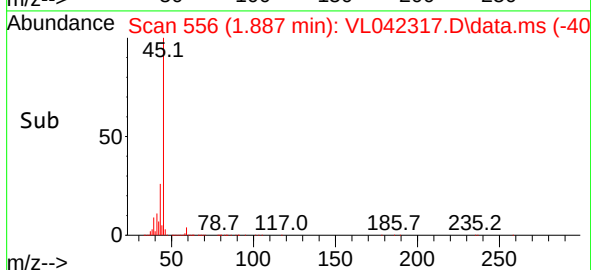
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

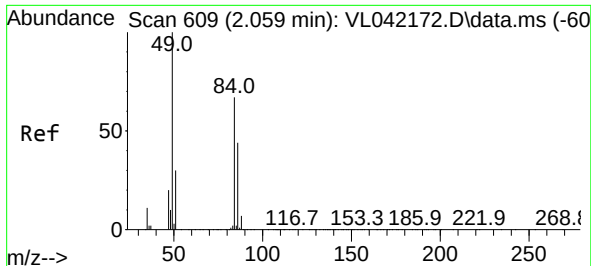


#19
Isopropyl Alcohol
Concen: 81.079 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.003 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15



Tgt Ion: 45 Resp: 1147205
Ion Ratio Lower Upper
45 100
58 73.9 36.9 55.3#





#20

Methylene Chloride

Concen: 1.577 ppbv

RT: 2.065 min Scan# 611

Delta R.T. 0.006 min

Lab File: VL042317.D

Acq: 11 Apr 2025 13:15

Instrument :

MSVOA_L

ClientSampleId :

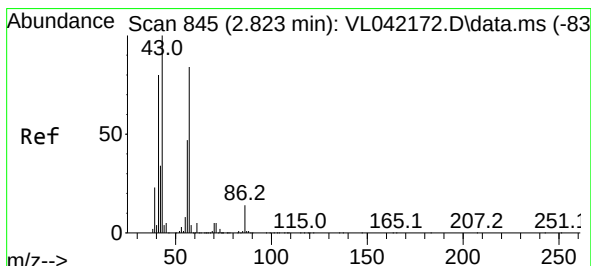
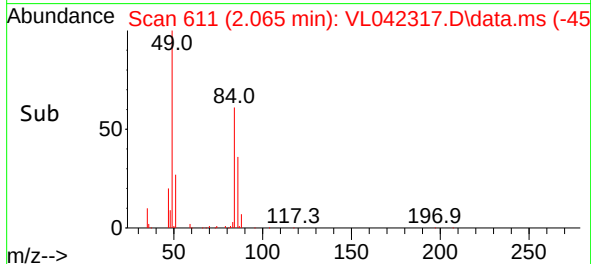
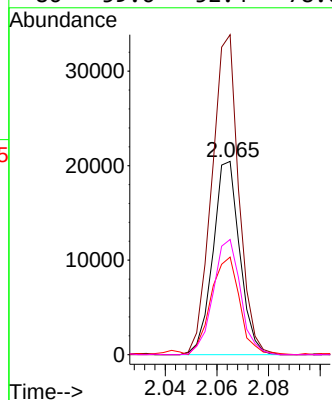
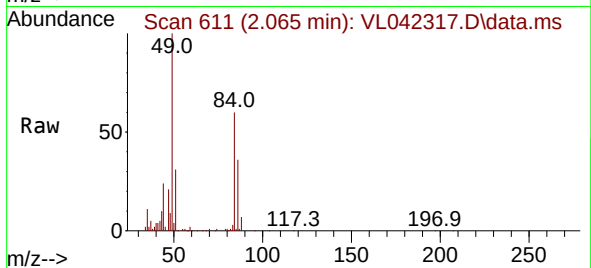
IA-B10-2-3242025

Tgt Ion: 84	Resp: 1472
Ion Ratio	Lower Upper
84 100	
49 165.6	120.2 180.4
51 49.9	37.4 56.0
86 59.6	52.4 78.6

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#26

Hexane

Concen: 2.548 ppbv

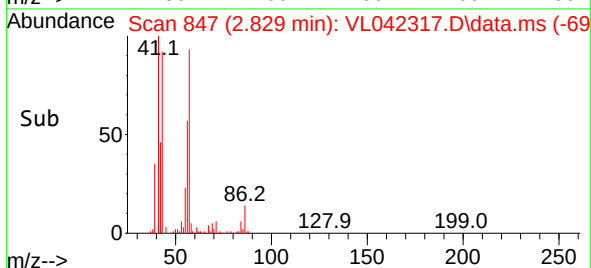
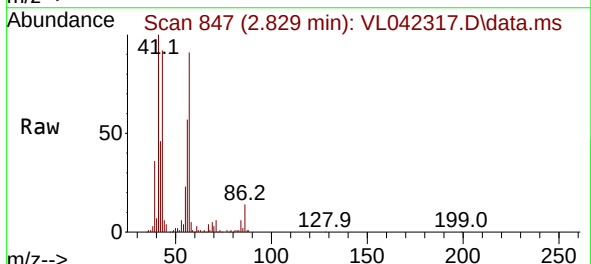
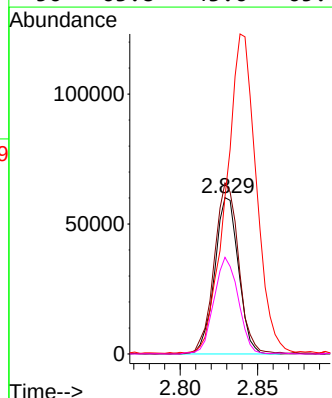
RT: 2.829 min Scan# 847

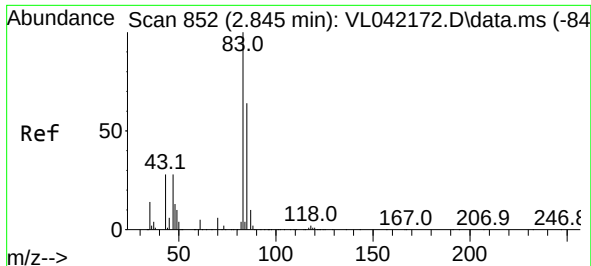
Delta R.T. 0.006 min

Lab File: VL042317.D

Acq: 11 Apr 2025 13:15

Tgt Ion: 57	Resp: 64050
Ion Ratio	Lower Upper
57 100	
41 113.9	76.6 114.8
43 263.8	207.8 311.8
56 63.8	43.6 65.4





#29

Chloroform

Concen: 1.362 ppbv

RT: 2.855 min Scan# 855

Delta R.T. 0.009 min

Lab File: VL042317.D

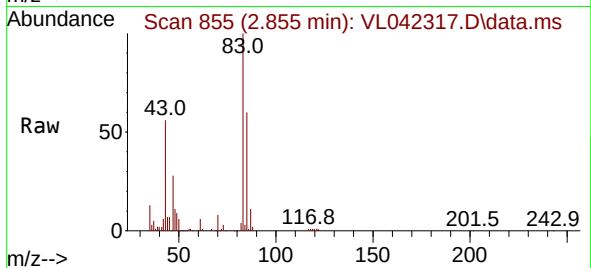
Acq: 11 Apr 2025 13:15

Instrument :

MSVOA_L

ClientSampleId :

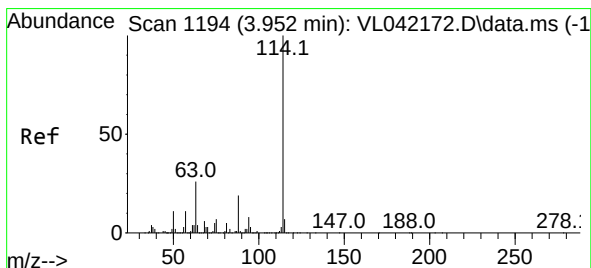
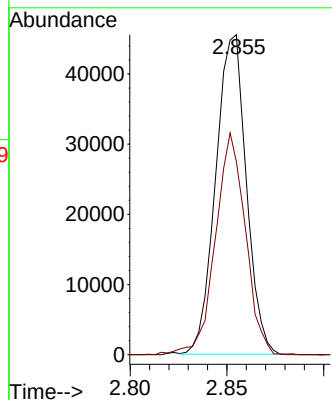
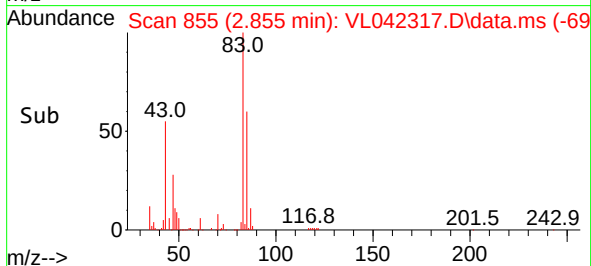
IA-B10-2-3242025



Tgt Ion: 83 Resp: 50104
Ion Ratio Lower Upper
83 100
85 60.2 51.4 77.2

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

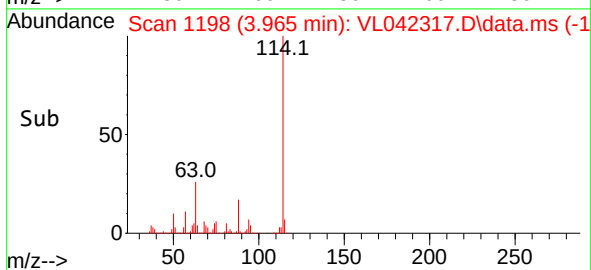
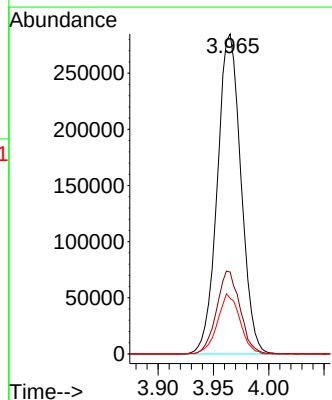
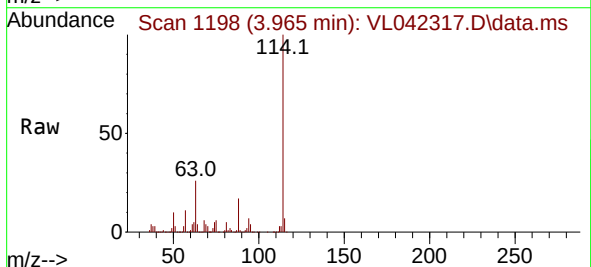
RT: 3.965 min Scan# 1198

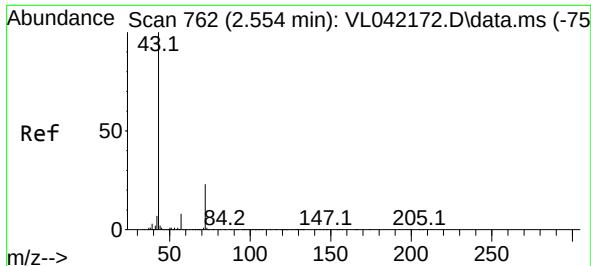
Delta R.T. 0.013 min

Lab File: VL042317.D

Acq: 11 Apr 2025 13:15

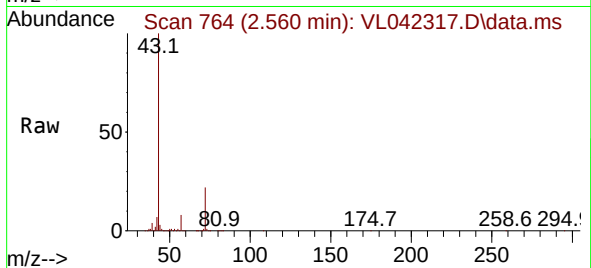
Tgt Ion:114 Resp: 422807
Ion Ratio Lower Upper
114 100
63 25.8 20.7 31.1
88 17.9 15.0 22.4





#34
2-Butanone
Concen: 26.834 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.006 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

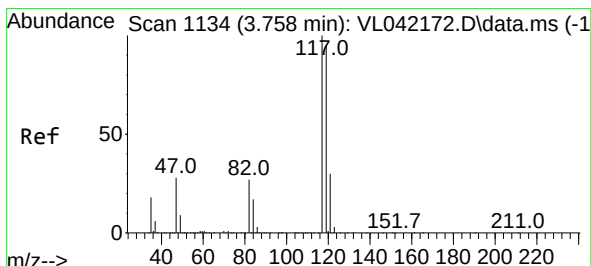
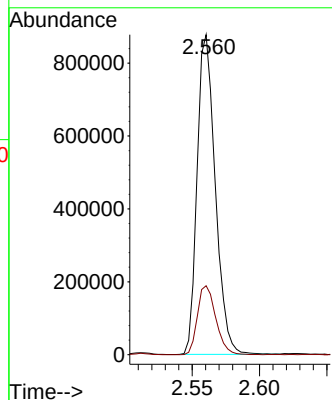
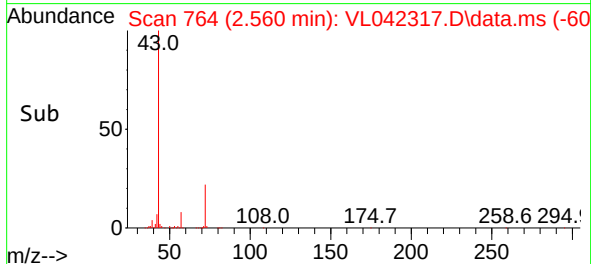
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-2-3242025



Tgt Ion: 43 Resp: 82270
Ion Ratio Lower Upper
43 100
72 21.9 18.2 27.2

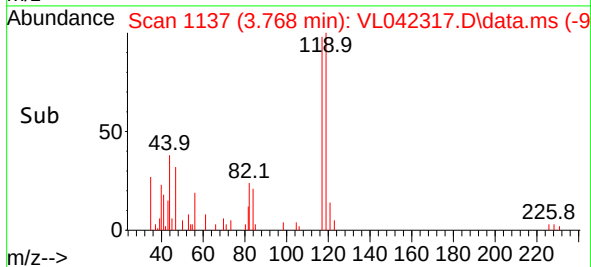
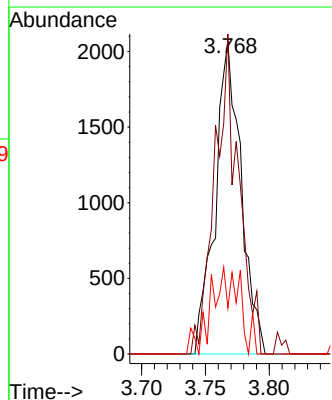
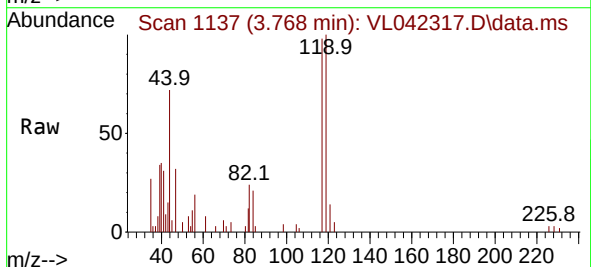
Manual Integrations
APPROVED

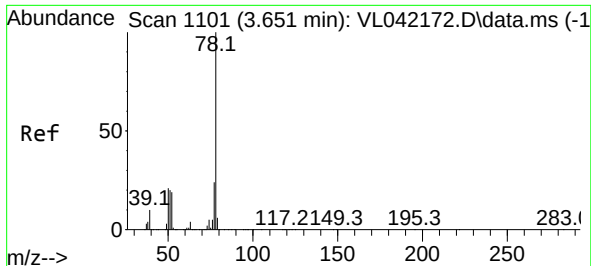
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#35
Carbon Tetrachloride
Concen: 0.088 ppbv m
RT: 3.768 min Scan# 1137
Delta R.T. 0.009 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

Tgt Ion:117 Resp: 2921
Ion Ratio Lower Upper
117 100
119 102.2 76.2 114.2
121 14.7 24.2 36.4#





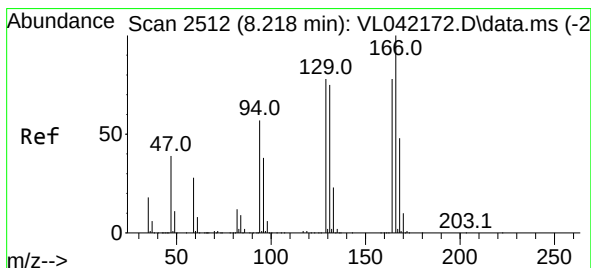
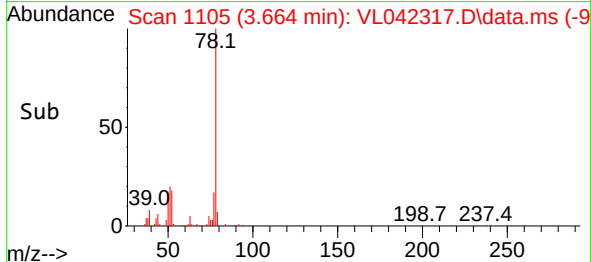
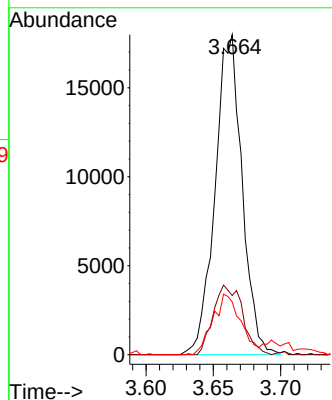
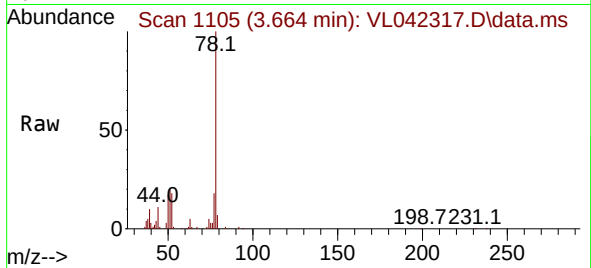
#36
Benzene
Concen: 0.598 ppbv
RT: 3.664 min Scan# 1105
Delta R.T. 0.013 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

Instrument :
MSVOA_L
ClientSampleId :
LA-B10-2-3242025

Tgt Ion: 78 Resp: 2506
Ion Ratio Lower Upper
78 100
77 18.5 19.1 28.7
50 16.5 16.6 24.8

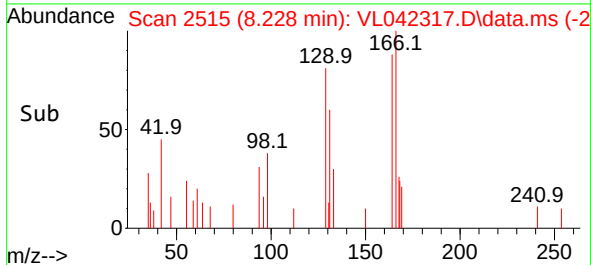
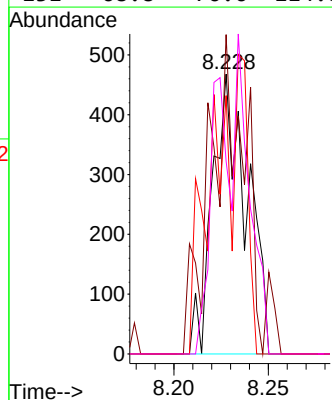
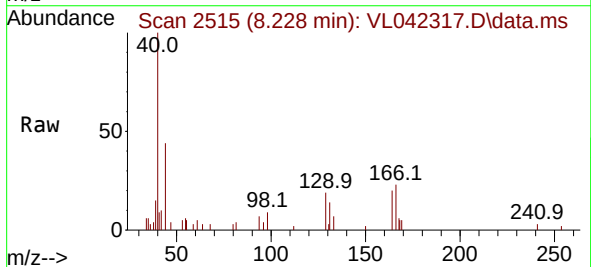
Manual Integrations
APPROVED

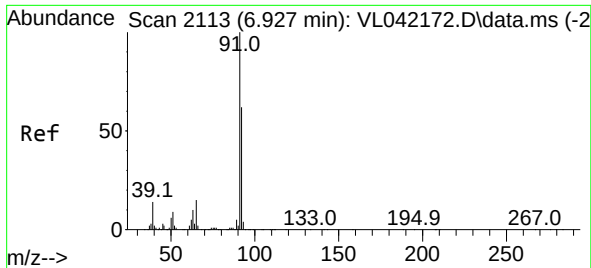
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#52
Tetrachloroethene
Concen: 0.035 ppbv m
RT: 8.228 min Scan# 2515
Delta R.T. 0.009 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

Tgt Ion:164 Resp: 585
Ion Ratio Lower Upper
164 100
166 114.1 102.5 153.7
129 92.3 79.8 119.8
131 68.8 76.6 114.8





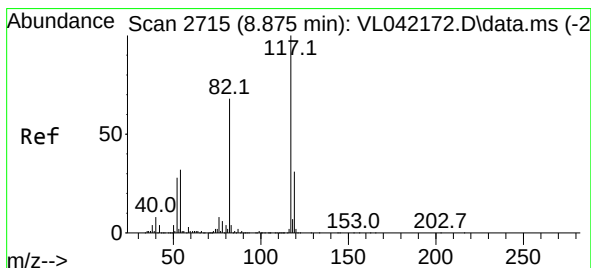
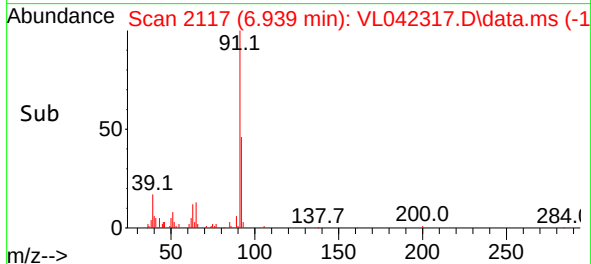
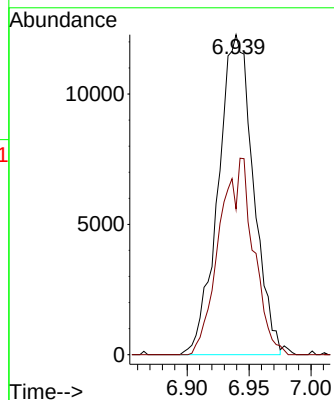
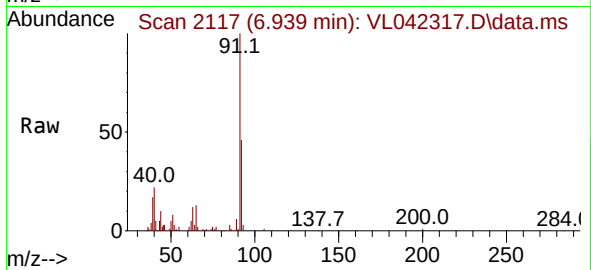
#53
Toluene
Concen: 0.488 ppbv
RT: 6.939 min Scan# 2117
Delta R.T. 0.013 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

Instrument :
MSVOA_L
ClientSampleId :
IA-B10-2-3242025

Tgt Ion: 91 Resp: 2423
Ion Ratio Lower Upper
91 100
92 60.1 48.4 72.6

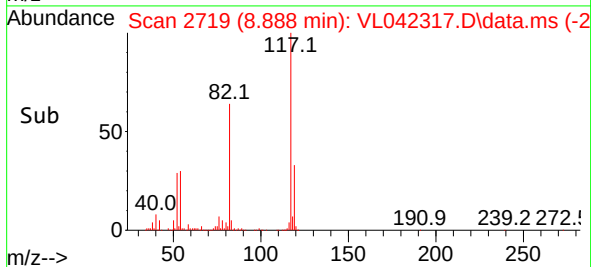
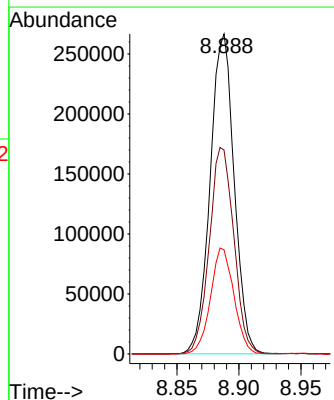
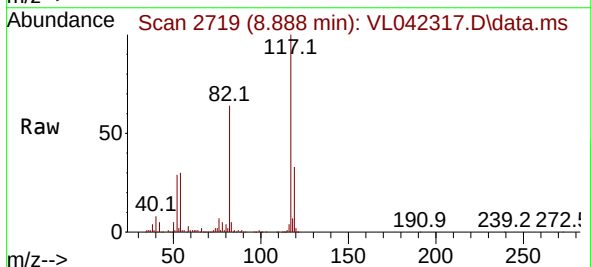
Manual Integrations
APPROVED

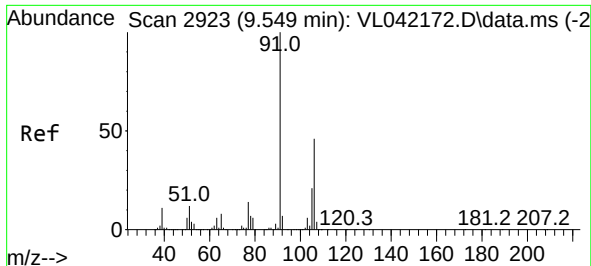
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2719
Delta R.T. 0.013 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

Tgt Ion:117 Resp: 360993
Ion Ratio Lower Upper
117 100
82 65.8 55.8 83.6
119 32.5 25.5 38.3





#59

m/p-Xylene

Concen: 0.190 ppbv m

RT: 9.535 min Scan# 2919

Delta R.T. -0.013 min

Lab File: VL042317.D

Acq: 11 Apr 2025 13:15

Instrument :

MSVOA_L

ClientSampleId :

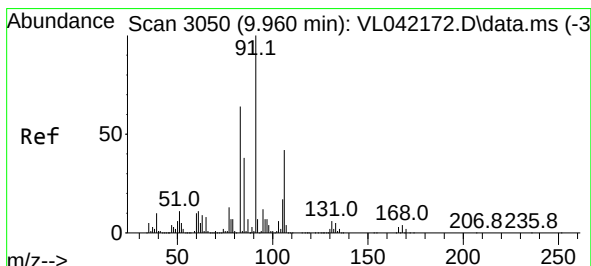
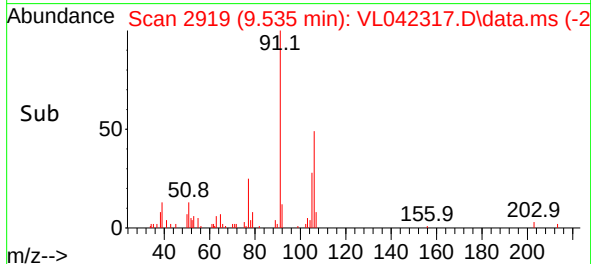
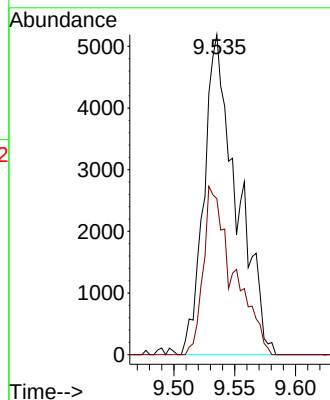
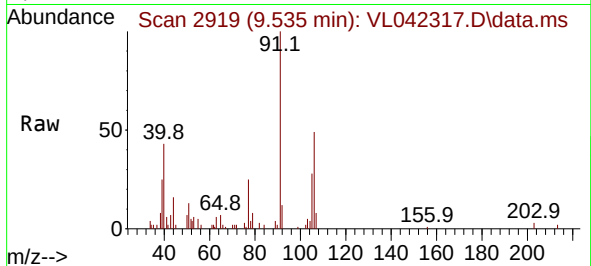
IA-B10-2-3242025

Tgt Ion: 91 Resp: 971
 Ion Ratio Lower Upper
 91 100
 106 0.0 36.4 54.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/16/2025
 Supervised By :Mahesh Dadoda 04/17/2025



#60

o-Xylene

Concen: 0.116 ppbv

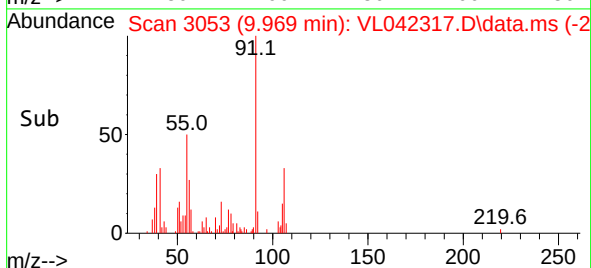
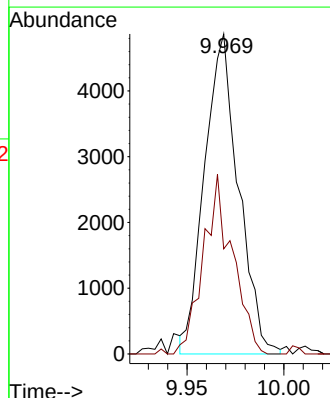
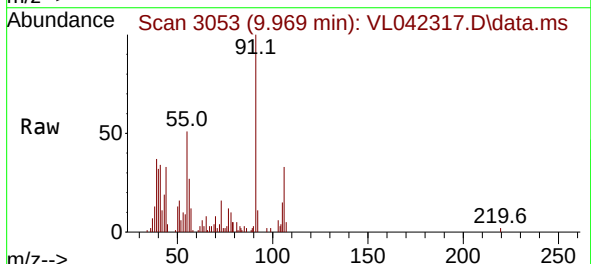
RT: 9.969 min Scan# 3053

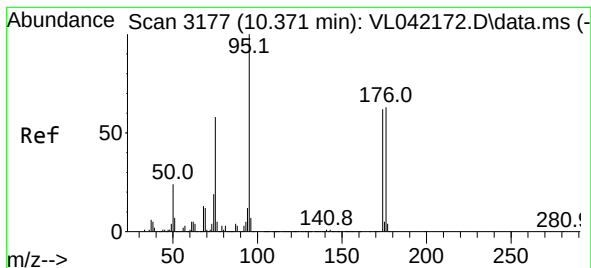
Delta R.T. 0.009 min

Lab File: VL042317.D

Acq: 11 Apr 2025 13:15

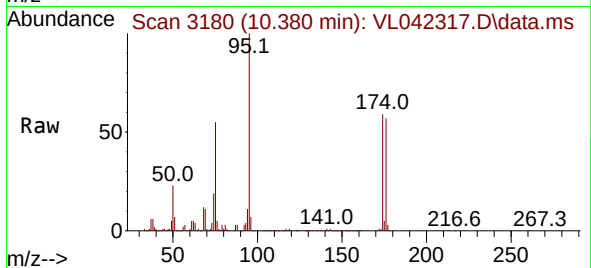
Tgt Ion: 91 Resp: 5940
 Ion Ratio Lower Upper
 91 100
 106 48.4 20.8 62.5





#68
1-Bromo-4-Fluorobenzene
Concen: 9.829 ppbv
RT: 10.380 min Scan# 3177
Delta R.T. 0.009 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

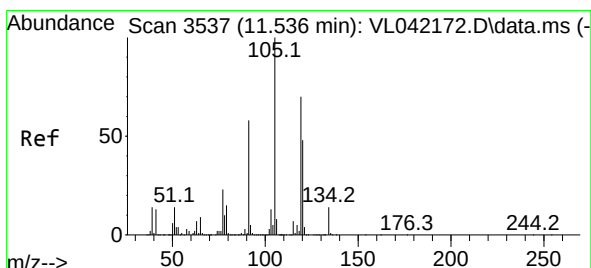
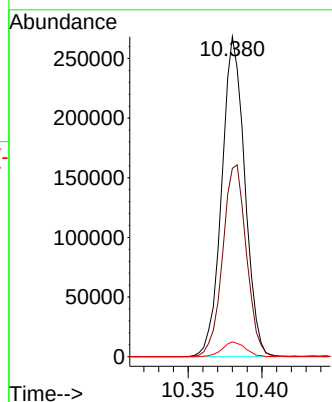
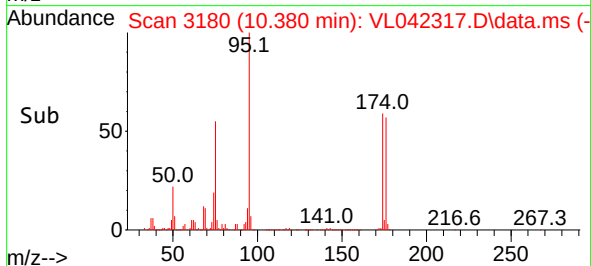
Instrument : MSVOA_L
ClientSampleId : IA-B10-2-3242025



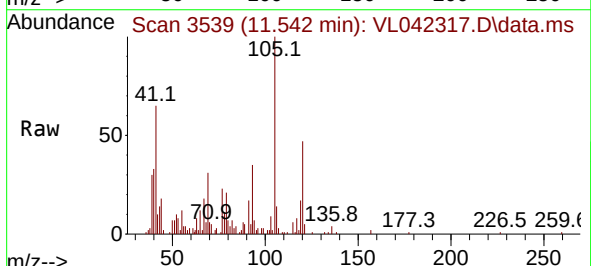
Tgt Ion: 95 Resp: 29137
Ion Ratio Lower Upper
95 100
174 62.0 50.6 76.0
175 4.7 3.8 5.6

Manual Integrations
APPROVED

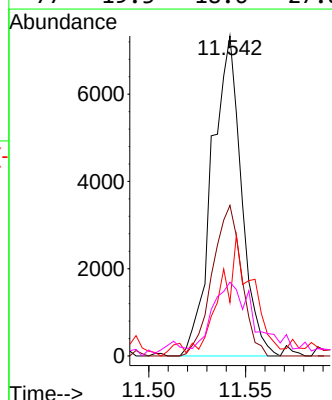
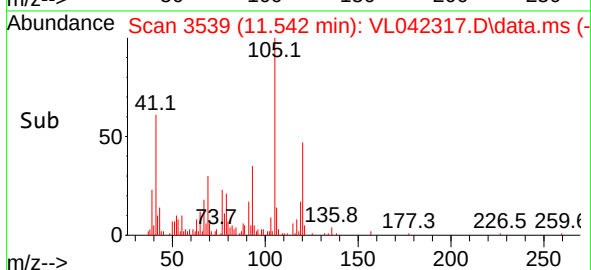
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#74
1,2,4-Trimethylbenzene
Concen: 0.121 ppbv
RT: 11.542 min Scan# 3539
Delta R.T. 0.006 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15



Tgt Ion:105 Resp: 7764
Ion Ratio Lower Upper
105 100
120 47.1 38.6 58.0
91 14.6 46.2 69.2#
77 19.3 18.6 27.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042317.D
Acq On : 11 Apr 2025 13:15
Operator : SY/MD
Sample : Q1665-03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B10-2-3242025

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\VL032725AIR.M

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

Signal : TIC: VL042317.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	4482541	5052124	60.26%	15.216%
2	1.466	423	426	429	rBV	386882	185005	2.21%	0.557%
3	1.489	429	433	436	rVV	662537	293642	3.50%	0.884%
4	1.560	450	455	463	rVB	716250	427524	5.10%	1.288%
5	1.622	471	474	478	rVB	154258	84399	1.01%	0.254%
6	1.725	501	506	515	rBV	4344863	2985888	35.62%	8.993%
7	1.835	536	540	549	rVB	5042209	3811166	45.46%	11.478%
8	1.887	549	556	569	rVB	2772547	1964262	23.43%	5.916%
9	2.062	607	610	619	rVB2	105530	85340	1.02%	0.257%
10	2.560	758	764	777	rBV	1369531	1292354	15.42%	3.892%
11	2.790	827	835	841	rBV	638381	661936	7.90%	1.994%
12	2.832	841	848	864	rVB3	372995	685725	8.18%	2.065%
13	3.696	1109	1115	1128	rVB4	76520	119959	1.43%	0.361%
14	3.962	1184	1197	1212	rBV	758733	1148776	13.70%	3.460%
15	8.888	2703	2719	2729	rBV	924924	1287814	15.36%	3.879%
16	9.157	2790	2802	2814	rBV3	125181	197996	2.36%	0.596%
17	9.946	3035	3046	3064	rBV8	85724	187553	2.24%	0.565%
18	10.380	3166	3180	3193	rBV	1227490	1385001	16.52%	4.171%
19	11.429	3492	3504	3512	rBV3	81675	101412	1.21%	0.305%
20	12.047	3686	3695	3705	rBV	2763242	2746269	32.76%	8.271%
21	12.435	3803	3815	3824	rBV7	74961	116054	1.38%	0.350%
22	13.390	4100	4110	4121	rBV2	6926152	8383575	100.00%	25.249%

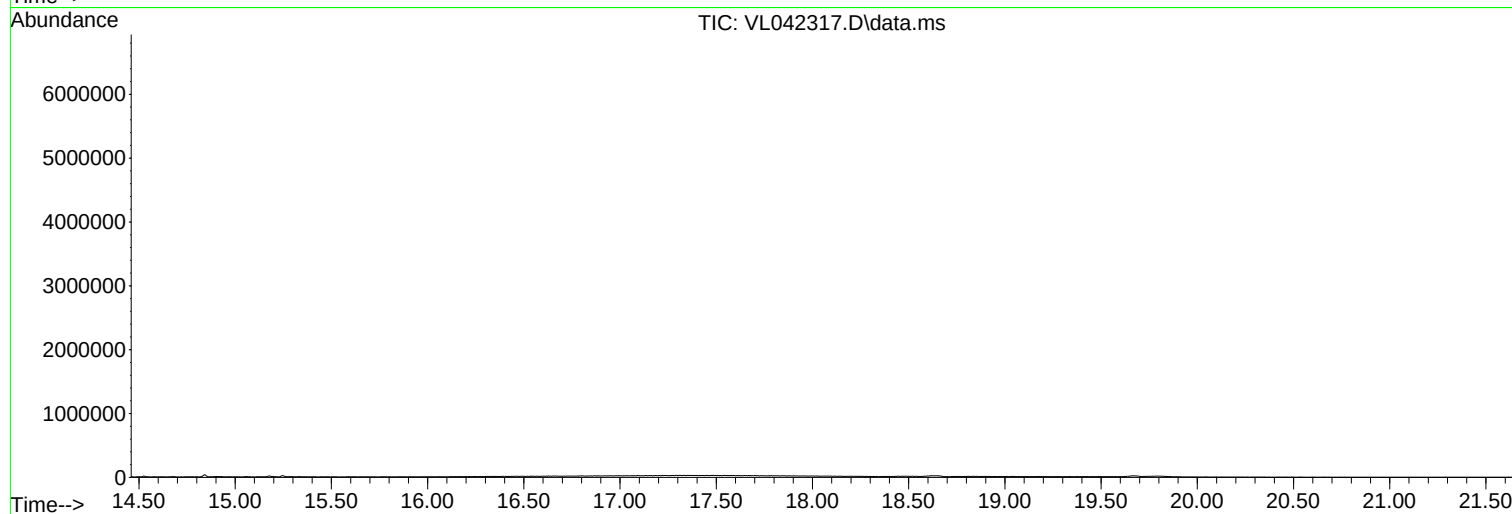
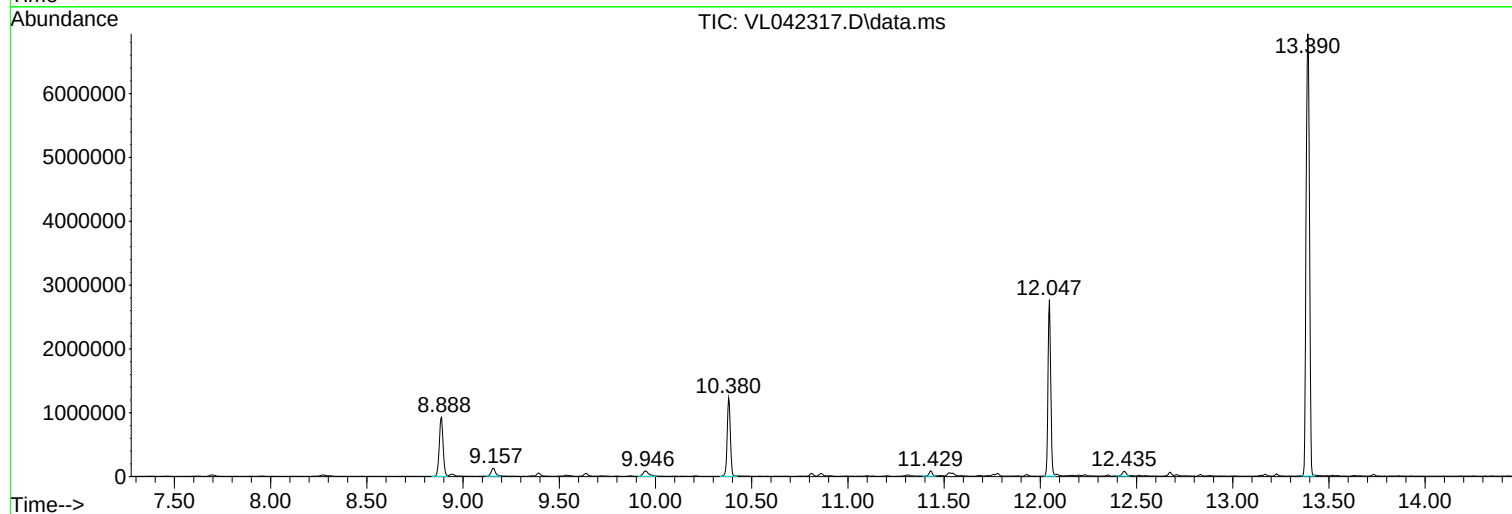
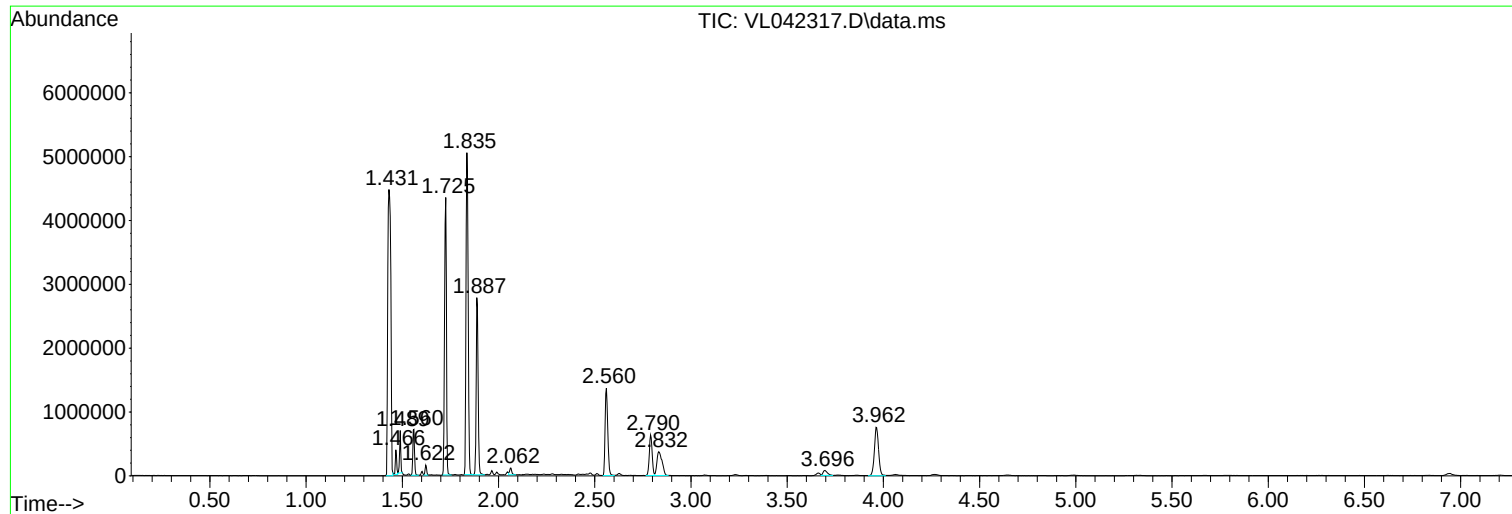
Sum of corrected areas: 33203774

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042317.D
Acq On : 11 Apr 2025 13:15
Operator : SY/MD
Sample : Q1665-03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B10-2-3242025

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

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042317.D
Acq On : 11 Apr 2025 13:15
Operator : SY/MD
Sample : Q1665-03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B10-2-3242025

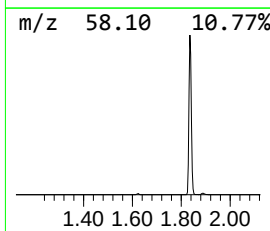
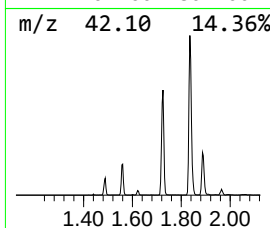
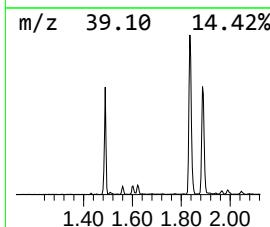
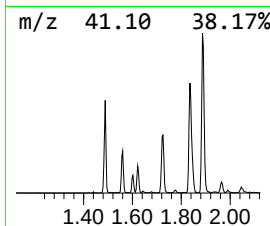
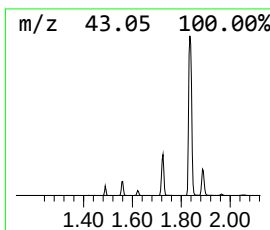
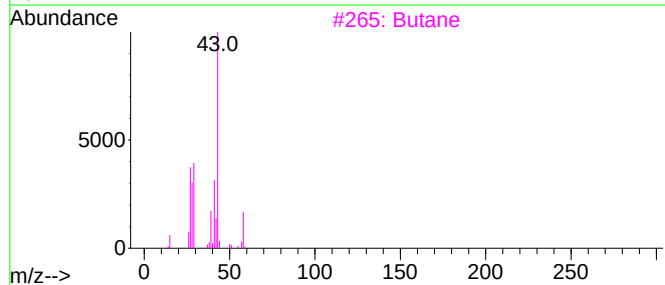
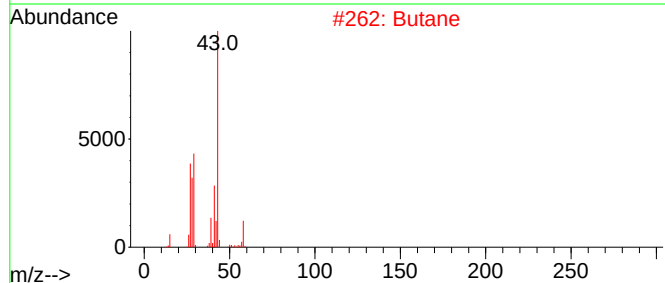
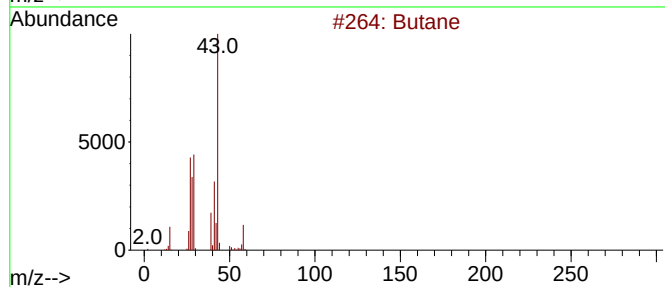
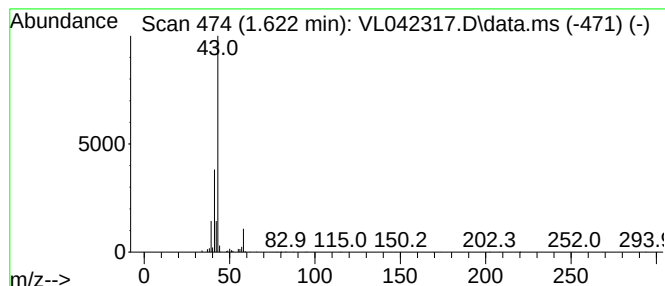
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 1 Butane Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.622	1.28 ppbv	84399	Bromochloromethane	2.790

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane			58	C4H10	000106-97-8	72
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\VL041125\
Data File : VL042317.D
Acq On : 11 Apr 2025 13:15
Operator : SY/MD
Sample : Q1665-03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B10-2-3242025

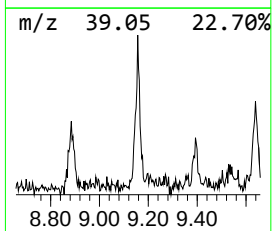
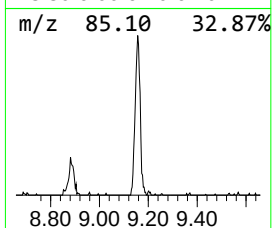
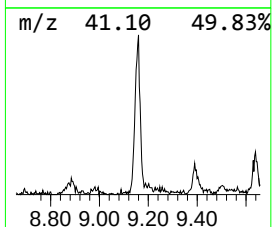
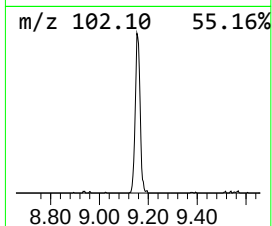
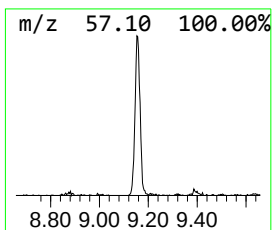
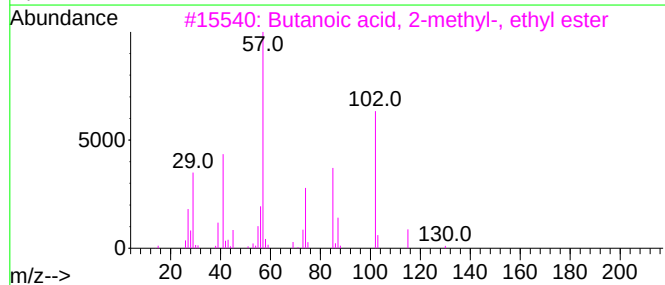
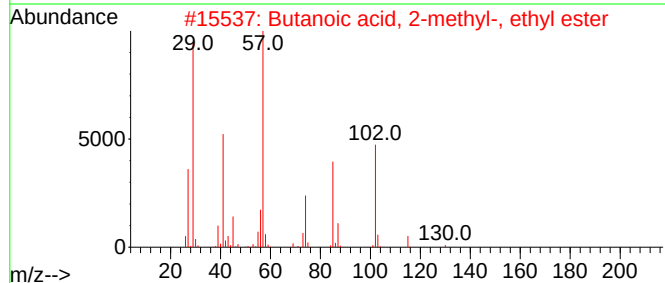
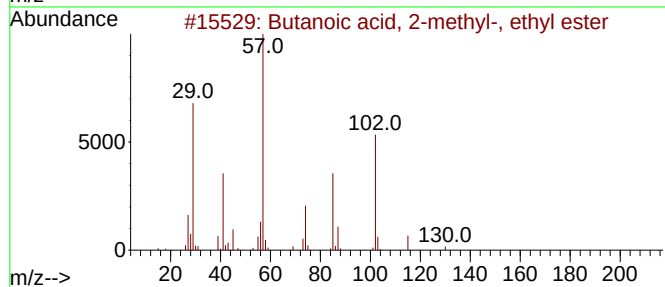
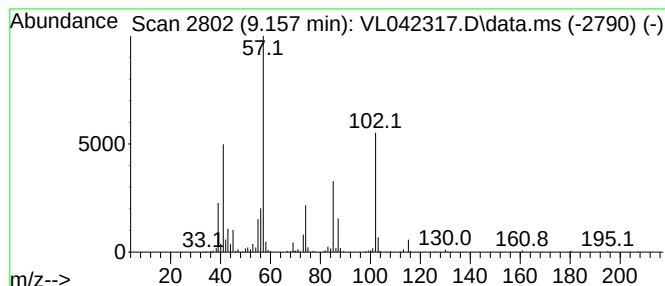
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 2 Butanoic acid, 2-methyl-, e... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.157	1.54 ppbv	197996	Chlorobenzene-d5	8.888

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		Butanoic acid, 2-methyl-, ethyl ...	130	C7H14O2	007452-79-1	93
2		Butanoic acid, 2-methyl-, ethyl ...	130	C7H14O2	007452-79-1	81
3		Butanoic acid, 2-methyl-, ethyl ...	130	C7H14O2	007452-79-1	76
4		Butanoic acid, 2-methyl-, ethyl ...	130	C7H14O2	007452-79-1	74
5		Propanoic acid, ethyl ester	102	C5H10O2	000105-37-3	40



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042317.D
Acq On : 11 Apr 2025 13:15
Operator : SY/MD
Sample : Q1665-03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

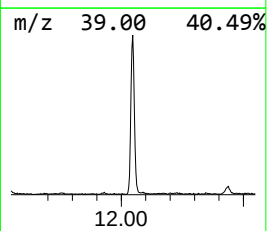
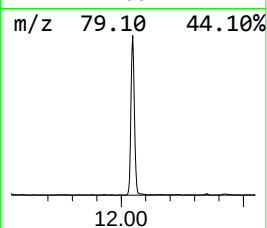
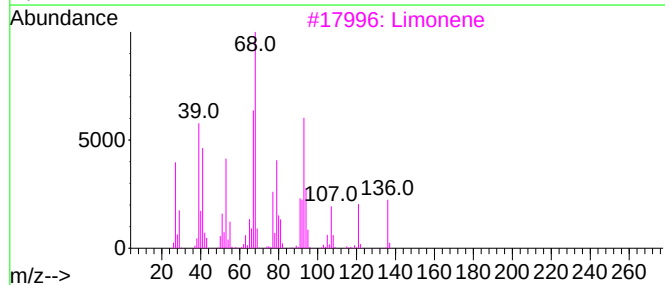
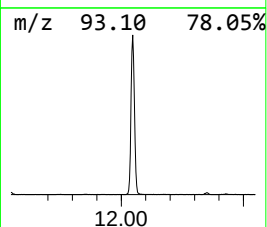
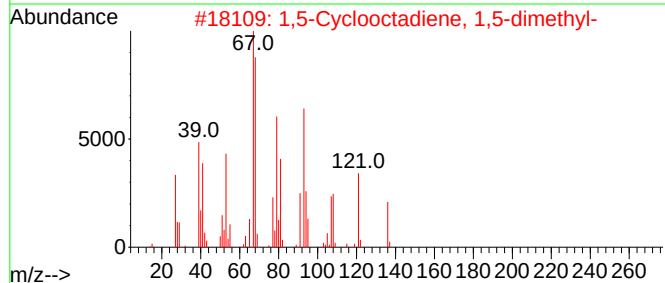
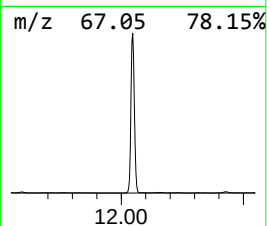
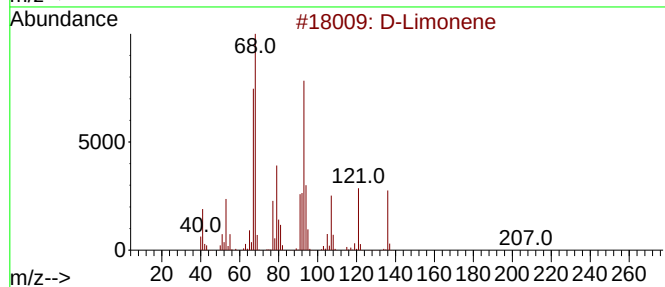
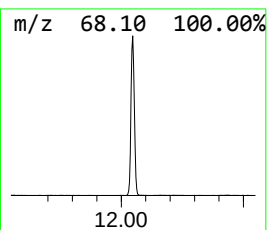
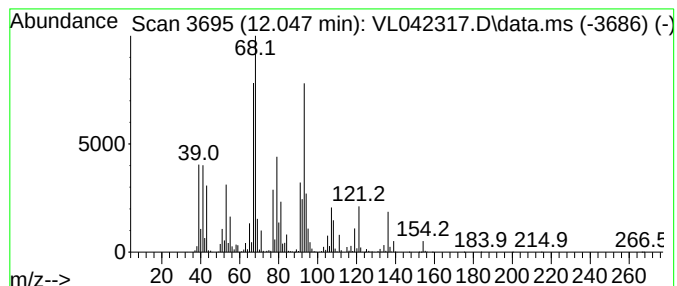
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-2-3242025

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

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

Peak Number 3 D-Limonene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD			R.T.
12.047	21.32 ppbv	2746270	Chlorobenzene-d5			8.888
Hit# of 5	Tentative ID		MW	MolForm	CAS#	Qual
1	D-Limonene		136	C10H16	005989-27-5	97
2	1,5-Cyclooctadiene, 1,5-dimethyl-		136	C10H16	003760-14-3	92
3	Limonene		136	C10H16	000138-86-3	86
4	Limonene		136	C10H16	000138-86-3	81
5	D-Limonene		136	C10H16	005989-27-5	81



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042317.D
Acq On : 11 Apr 2025 13:15
Operator : SY/MD
Sample : Q1665-03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

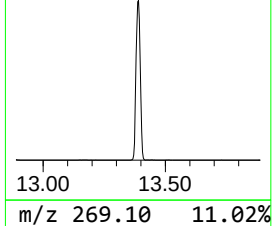
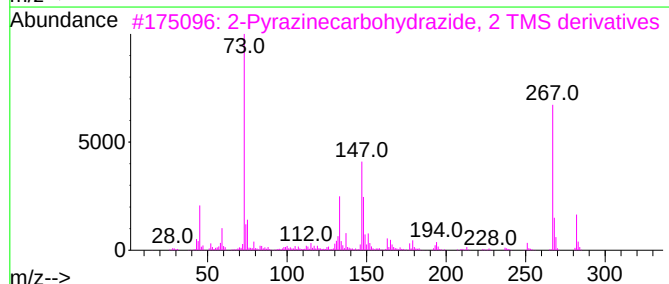
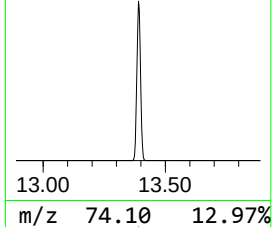
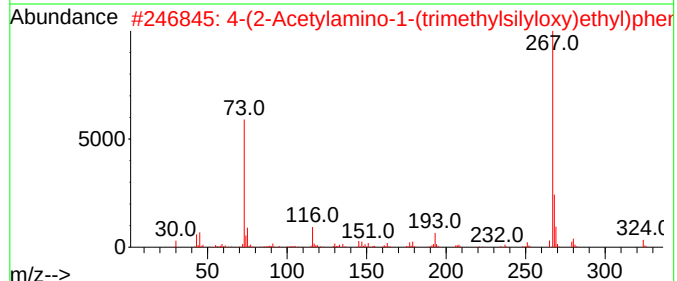
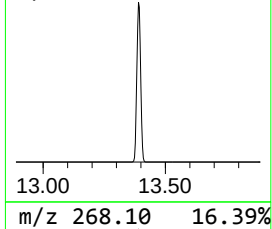
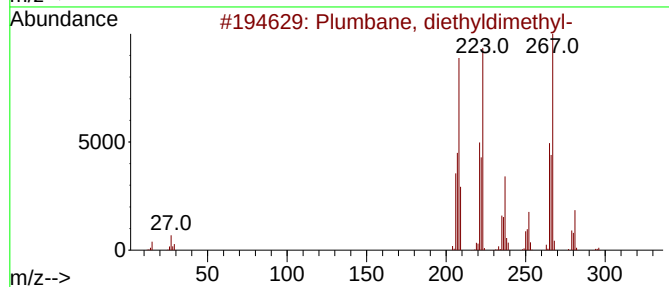
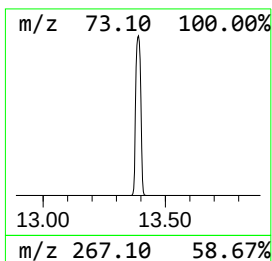
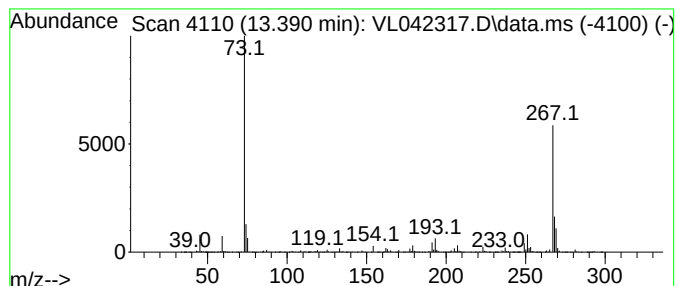
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-2-3242025

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

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

Peak Number 4 Plumbane, diethyldimethyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.	
13.390	65.10 ppbv	8383580	Chlorobenzene-d5	8.888	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Plumbane, diethyldimethyl-	296	C6H16Pb	001762-27-2	91
2	4-(2-Acetylamino-1-(trimethylsil...	339	C16H29N03Si2	1000373-43-5	72
3	2-Pyrazinecarbohydrazide, 2 TMS ...	282	C11H22N4OSi2	1000477-45-2	72
4	2,5-Dihydroxybenzaldehyde, 2TMS ...	282	C13H22O3Si2	056114-69-3	64
5	Salicylic acid, 2TMS derivative	282	C13H22O3Si2	003789-85-3	64



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042317.D
Acq On : 11 Apr 2025 13:15
Operator : SY/MD
Sample : Q1665-03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B10-2-3242025

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

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	1.3	ppbv	84399	1	2.790	661936	10.0
Butanoic acid, ...	9.157	1.5	ppbv	197996	3	8.888	1287810	10.0
D-Limonene	12.047	21.3	ppbv	2746270	3	8.888	1287810	10.0
Plumbane, dieth...	13.390	65.1	ppbv	8383580	3	8.888	1287810	10.0

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/25/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	03/26/25
Client Sample ID:	IA-B10-2-3242025DL	SDG No.:	Q1665
Lab Sample ID:	Q1665-03DL	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
VL042322.D	10		04/11/25 16:08	VL041125

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	2.10	10.4	UD	10.4	24.7	ug/m3
74-87-3	Chloromethane	0.98	2.02	UD	2.02	10.3	ug/m3
75-01-4	Vinyl Chloride	0.14	0.36	UD	0.36	0.77	ug/m3
74-83-9	Bromomethane	1.40	5.44	UD	5.44	19.4	ug/m3
75-00-3	Chloroethane	1.70	4.49	UD	4.49	13.2	ug/m3
109-99-9	Tetrahydrofuran	1.30	3.83	UD	3.83	14.8	ug/m3
75-69-4	Trichlorofluoromethane	1.60	8.99	UD	8.99	28.1	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	1.60	12.3	UD	12.3	38.3	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.88	6.15	UD	6.15	35.0	ug/m3
75-65-0	tert-Butyl alcohol	1.90	5.76	UD	5.76	15.2	ug/m3
142-82-5	Heptane	1.10	4.51	UD	4.51	20.5	ug/m3
75-35-4	1,1-Dichloroethene	1.40	5.55	UD	5.55	19.8	ug/m3
67-64-1	Acetone	140	333	D	5.70	11.9	ug/m3
75-15-0	Carbon Disulfide	1.60	4.98	UD	4.98	15.6	ug/m3
1634-04-4	Methyl tert-Butyl Ether	1.20	4.33	UD	4.33	18.0	ug/m3
75-09-2	Methylene Chloride	3.30	11.5	JD	6.60	17.4	ug/m3
156-60-5	trans-1,2-Dichloroethene	1.90	7.53	UD	7.53	19.8	ug/m3
75-34-3	1,1-Dichloroethane	1.30	5.26	UD	5.26	20.2	ug/m3
110-82-7	Cyclohexane	2.20	7.57	UD	7.57	17.2	ug/m3
78-93-3	2-Butanone	21.5	63.4	D	3.54	14.8	ug/m3
56-23-5	Carbon Tetrachloride	0.11	0.69	UD	0.69	1.89	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.89	3.53	UD	3.53	19.8	ug/m3
67-66-3	Chloroform	1.40	6.84	JD	4.05	24.4	ug/m3
71-55-6	1,1,1-Trichloroethane	0.10	0.55	UD	0.55	1.64	ug/m3
540-84-1	2,2,4-Trimethylpentane	1.00	4.67	UD	4.67	23.4	ug/m3
71-43-2	Benzene	0.87	2.78	UD	2.78	16.0	ug/m3
107-06-2	1,2-Dichloroethane	0.91	3.68	UD	3.68	20.2	ug/m3
79-01-6	Trichloroethene	0.17	0.91	UD	0.91	1.61	ug/m3
78-87-5	1,2-Dichloropropane	1.10	5.08	UD	5.08	23.1	ug/m3
75-27-4	Bromodichloromethane	0.77	5.16	UD	5.16	33.5	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.93	3.81	UD	3.81	20.5	ug/m3
108-88-3	Toluene	1.10	4.15	UD	4.15	18.8	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.60	2.72	UD	2.72	22.7	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.64	2.91	UD	2.91	22.7	ug/m3
79-00-5	1,1,2-Trichloroethane	0.71	3.87	UD	3.87	27.3	ug/m3

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/25/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	03/26/25
Client Sample ID:	IA-B10-2-3242025DL	SDG No.:	Q1665
Lab Sample ID:	Q1665-03DL	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
VL042322.D	10		04/11/25 16:08	VL041125

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.66	5.62	UD	5.62	42.6	ug/m3
106-93-4	1,2-Dibromoethane	0.72	5.53	UD	5.53	7.69	ug/m3
127-18-4	Tetrachloroethene	0.15	1.02	UD	1.02	2.03	ug/m3
108-90-7	Chlorobenzene	0.76	3.50	UD	3.50	23.0	ug/m3
100-41-4	Ethyl Benzene	1.20	5.21	UD	5.21	21.7	ug/m3
179601-23-1	m/p-Xylene	2.10	9.12	UD	9.12	43.4	ug/m3
95-47-6	o-Xylene	1.20	5.21	UD	5.21	21.7	ug/m3
100-42-5	Styrene	1.10	4.68	UD	4.68	21.3	ug/m3
75-25-2	Bromoform	0.57	5.89	UD	5.89	51.7	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.11	0.76	UDQ	0.76	2.06	ug/m3
95-49-8	2-Chlorotoluene	1.10	5.70	UD	5.70	25.9	ug/m3
108-67-8	1,3,5-Trimethylbenzene	1.10	5.41	UD	5.41	24.6	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.78	3.83	UD	3.83	24.6	ug/m3
541-73-1	1,3-Dichlorobenzene	0.80	4.81	UD	4.81	30.1	ug/m3
106-46-7	1,4-Dichlorobenzene	0.53	3.19	UD	3.19	30.1	ug/m3
95-50-1	1,2-Dichlorobenzene	0.75	4.51	UDQ	4.51	30.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.85	6.31	UD	6.31	37.1	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.85	9.07	UD	9.07	53.3	ug/m3
106-99-0	1,3-Butadiene	1.30	2.88	UD	2.88	11.1	ug/m3
91-20-3	Naphthalene	0.75	3.93	UD	3.93	5.24	ug/m3
622-96-8	4-Ethyltoluene	1.20	5.90	UD	5.90	24.6	ug/m3
110-54-3	Hexane	1.90	6.70	JD	3.88	17.6	ug/m3
107-05-1	Allyl Chloride	1.50	4.70	UD	4.70	15.7	ug/m3
123-91-1	1,4-Dioxane	2.10	7.57	UD	7.57	18.0	ug/m3
80-62-6	Methyl Methacrylate	0.86	3.52	UD	3.52	20.5	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.10			70 (65) - 130 (135)	91%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	183000		2.791			
540-36-3	1,4-Difluorobenzene	438000		3.965			
3114-55-4	Chlorobenzene-d5	361000		8.885			

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/25/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	03/26/25
Client Sample ID:	IA-B10-2-3242025DL	SDG No.:	Q1665
Lab Sample ID:	Q1665-03DL	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
VL042322.D	10		04/11/25 16:08	VL041125

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
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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\VL041125\
 Data File : VL042322.D
 Acq On : 11 Apr 2025 16:08
 Operator : SY/MD
 Sample : Q1665-03DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B10-2-3242025DL

Quant Time: Apr 11 23:02:16 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)

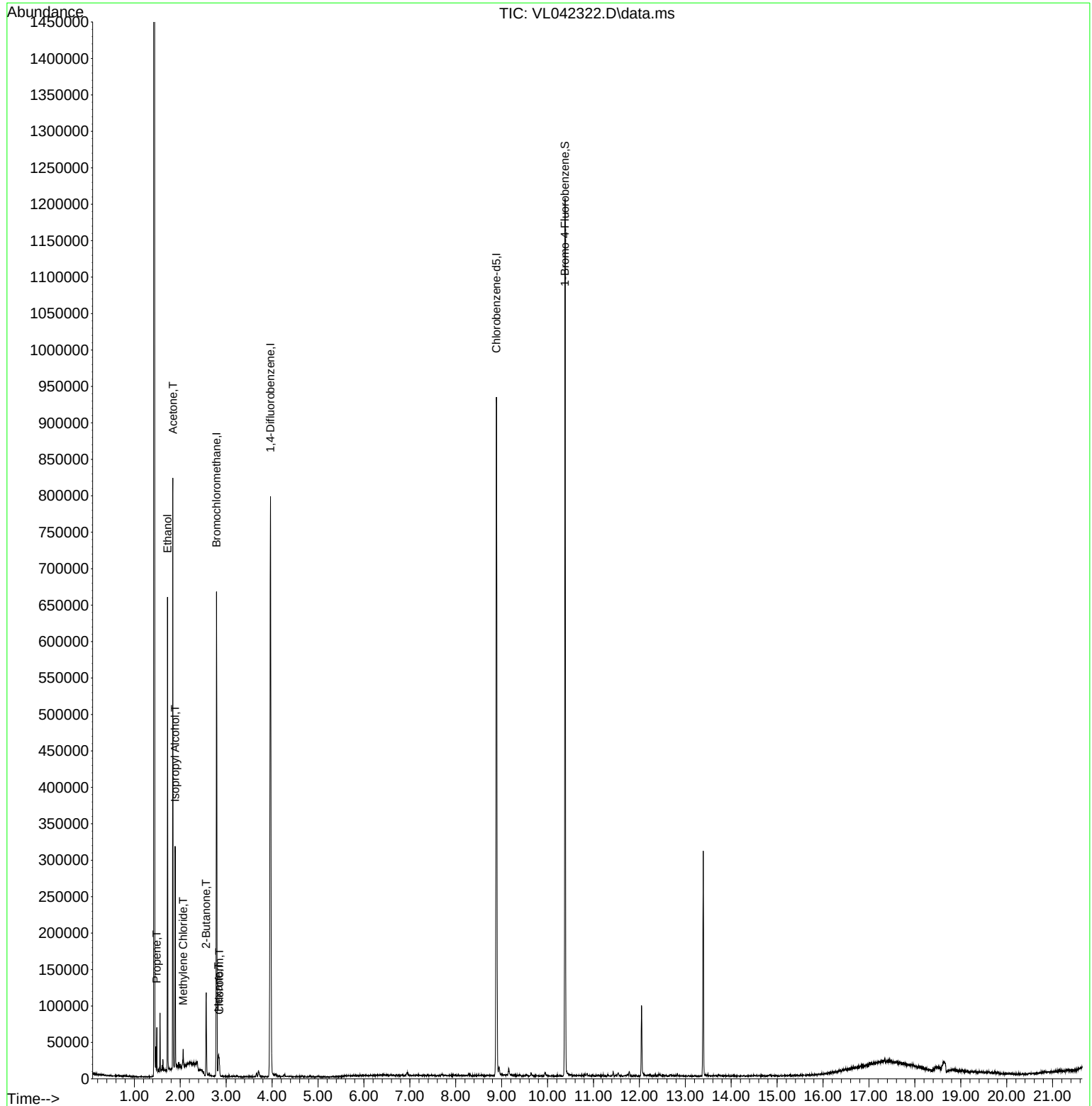
Internal Standards						
1) Bromochloromethane	2.791	49	183437	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	437835	10.000	ppbv	0.01
55) Chlorobenzene-d5	8.885	117	360512	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	268511	9.070	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	90.700%
Target Compounds						
					Qvalue	
9) Propene	1.489	41	5497	0.433	ppbv	91
13) Ethanol	1.722	45	212244	177.037	ppbv	84
15) Acetone	1.839	43	354601	13.822	ppbv	95
19) Isopropyl Alcohol	1.888	45	127328	8.796	ppbv #	59
20) Methylene Chloride	2.062	84	3179	0.333	ppbv	93
26) Hexane	2.829	57	4958	0.193	ppbv #	79
29) Chloroform	2.852	83	5087	0.135	ppbv	100
34) 2-Butanone	2.564	43	68236	2.149	ppbv	97

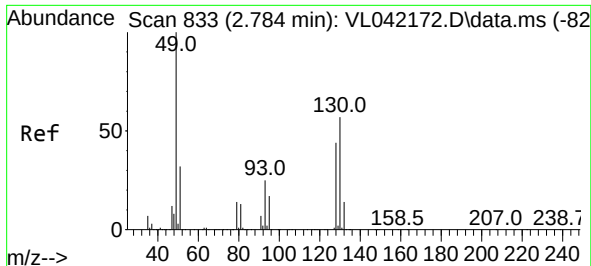
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042322.D
Acq On : 11 Apr 2025 16:08
Operator : SY/MD
Sample : Q1665-03DL 10X
Misc : 400mL/MSVOA_L
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B10-2-3242025DL

Quant Time: Apr 11 23:02:16 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

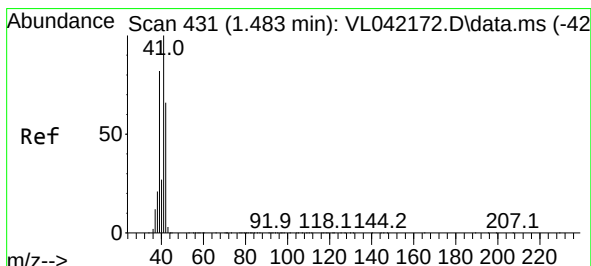
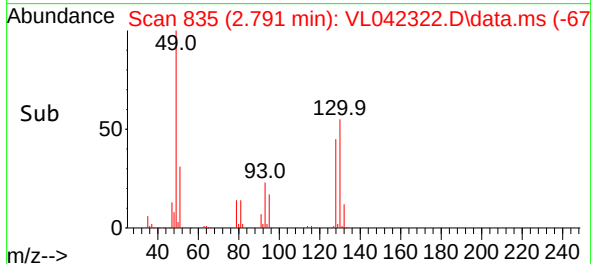
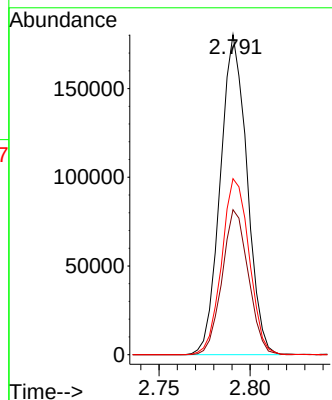
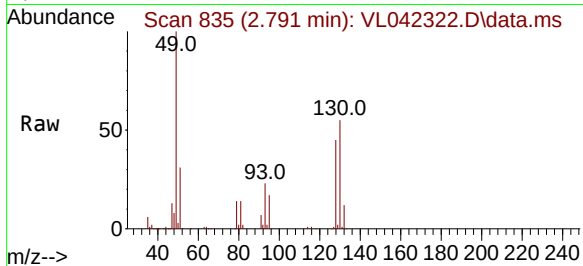




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.791 min Scan# 81
Delta R.T. 0.007 min
Lab File: VL042322.D
Acq: 11 Apr 2025 16:08

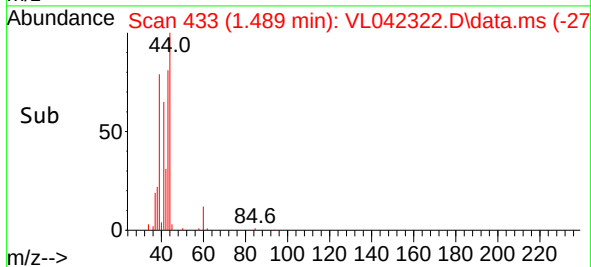
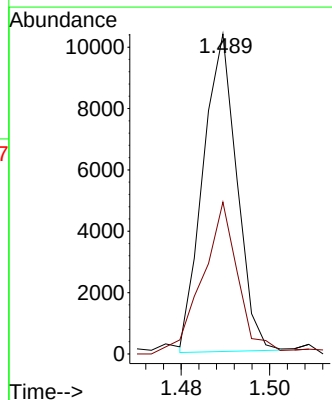
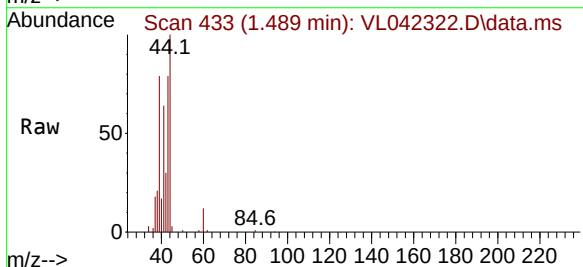
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-2-3242025DL

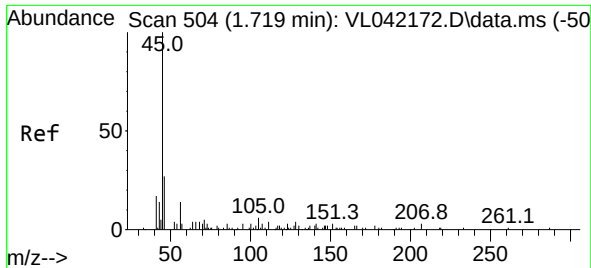
Tgt Ion: 49 Resp: 183437
Ion Ratio Lower Upper
49 100
128 44.6 22.9 68.5
130 56.8 28.8 86.4



#9
Propene
Concen: 0.433 ppbv
RT: 1.489 min Scan# 433
Delta R.T. 0.007 min
Lab File: VL042322.D
Acq: 11 Apr 2025 16:08

Tgt Ion: 41 Resp: 5497
Ion Ratio Lower Upper
41 100
42 62.3 55.4 83.2

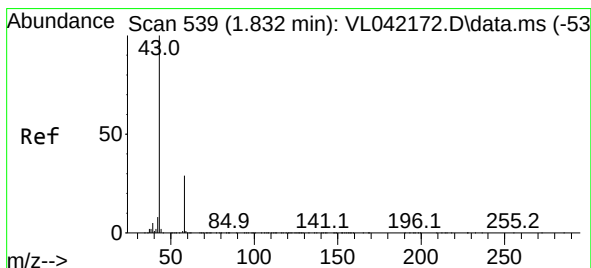
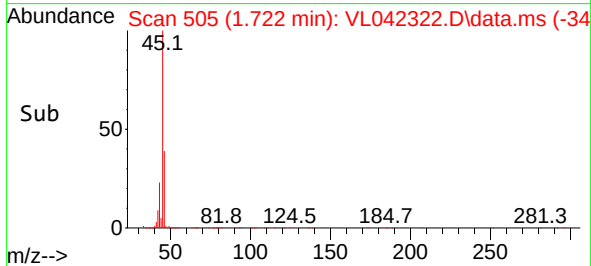
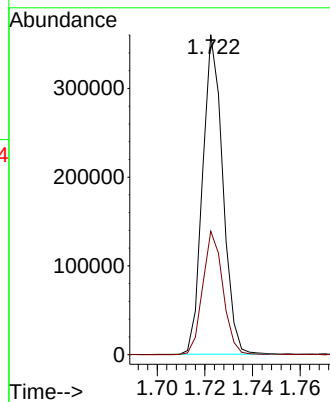
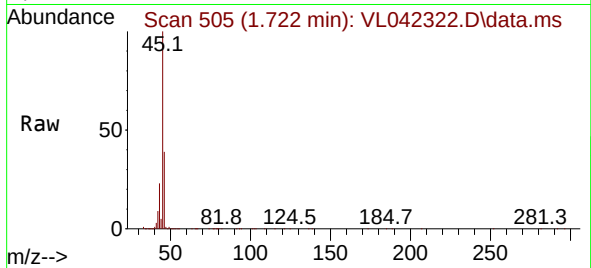




#13
Ethanol
Concen: 177.037 ppbv
RT: 1.722 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL042322.D
Acq: 11 Apr 2025 16:08

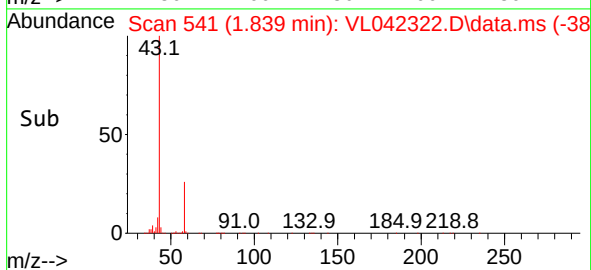
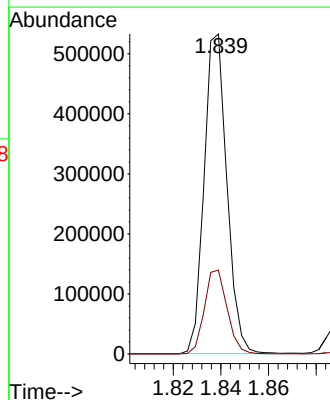
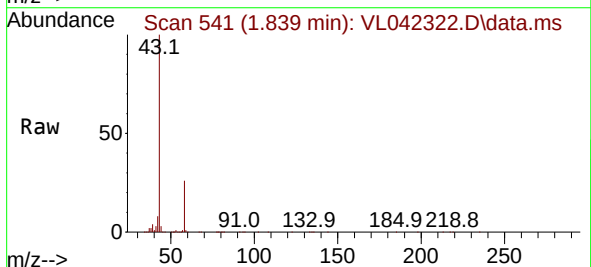
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-2-3242025DL

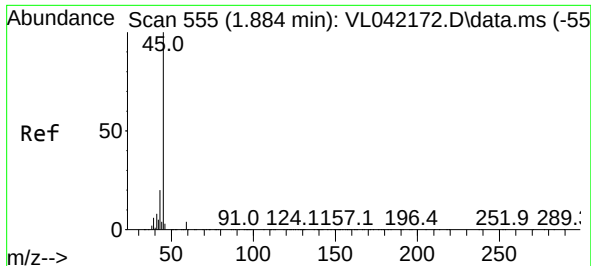
Tgt Ion: 45 Resp: 212244
Ion Ratio Lower Upper
45 100
46 39.1 20.2 80.8



#15
Acetone
Concen: 13.822 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.007 min
Lab File: VL042322.D
Acq: 11 Apr 2025 16:08

Tgt Ion: 43 Resp: 354601
Ion Ratio Lower Upper
43 100
58 26.3 23.2 34.8

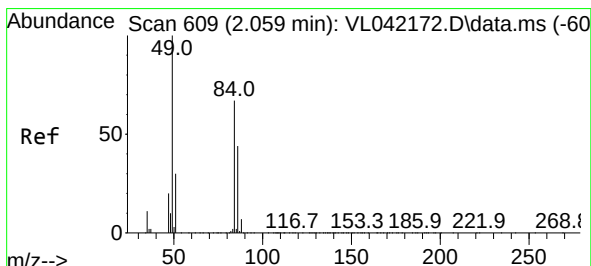
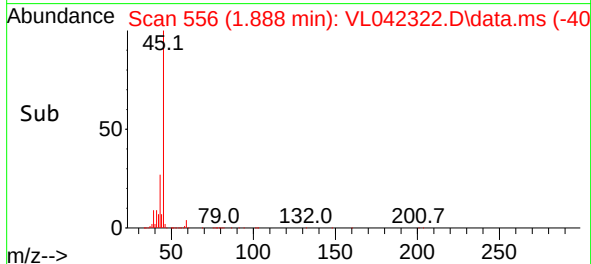
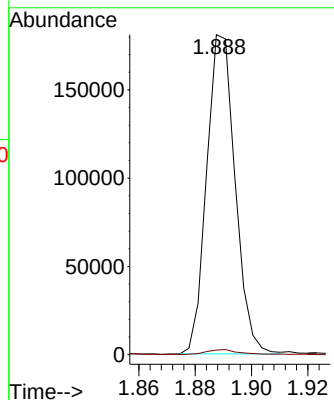
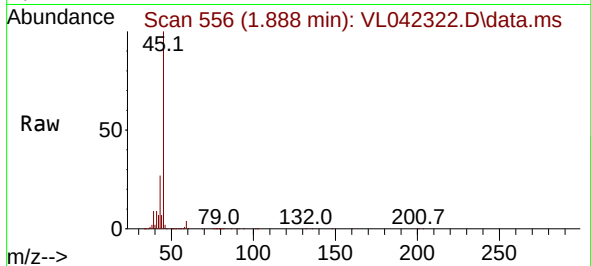




#19
Isopropyl Alcohol
Concen: 8.796 ppbv
RT: 1.888 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042322.D
Acq: 11 Apr 2025 16:08

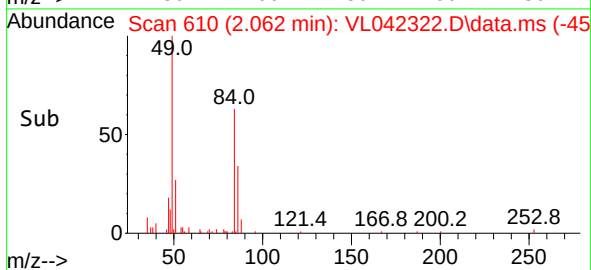
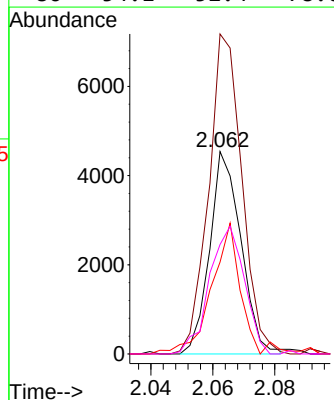
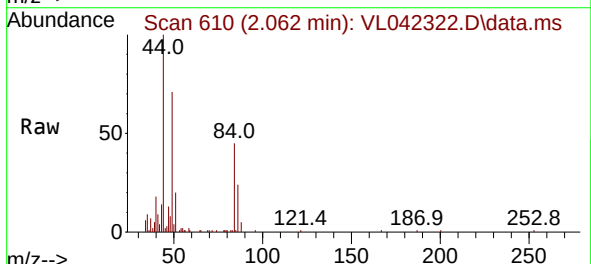
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-2-3242025DL

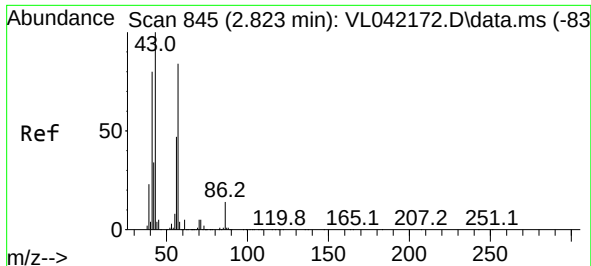
Tgt Ion: 45 Resp: 127328
Ion Ratio Lower Upper
45 100
58 73.2 36.9 55.3#



#20
Methylene Chloride
Concen: 0.333 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042322.D
Acq: 11 Apr 2025 16:08

Tgt Ion: 84 Resp: 3179
Ion Ratio Lower Upper
84 100
49 156.6 120.2 180.4
51 43.2 37.4 56.0
86 54.1 52.4 78.6

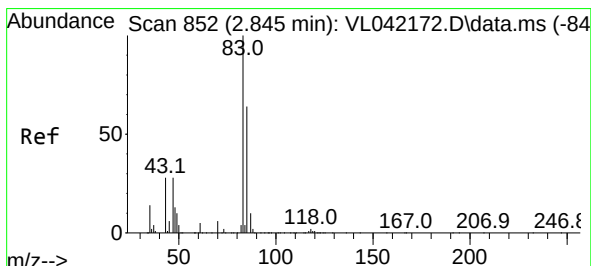
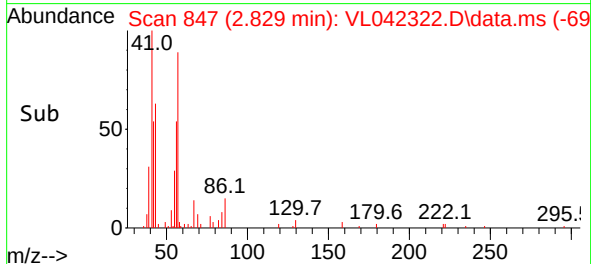
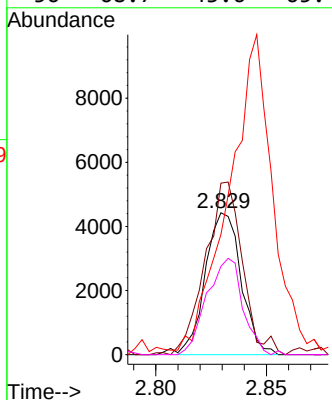
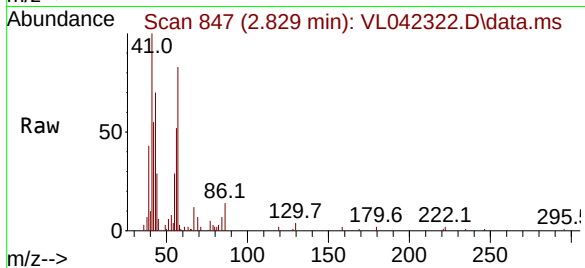




#26
Hexane
Concen: 0.193 ppbv
RT: 2.829 min Scan# 845
Delta R.T. 0.007 min
Lab File: VL042322.D
Acq: 11 Apr 2025 16:08

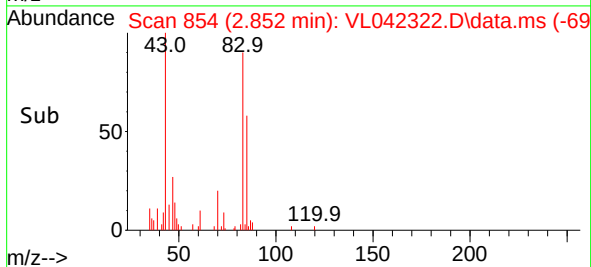
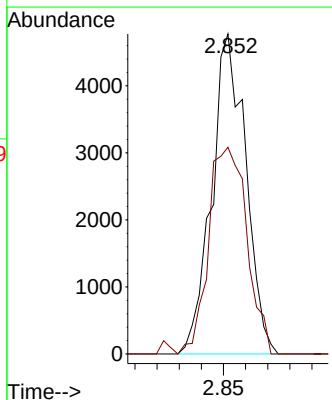
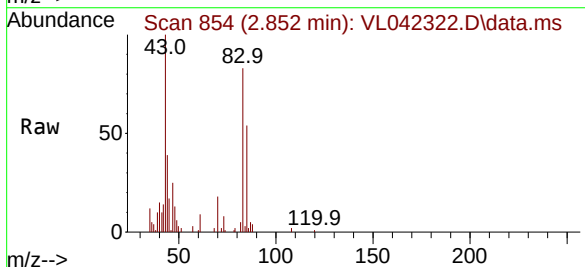
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-2-3242025DL

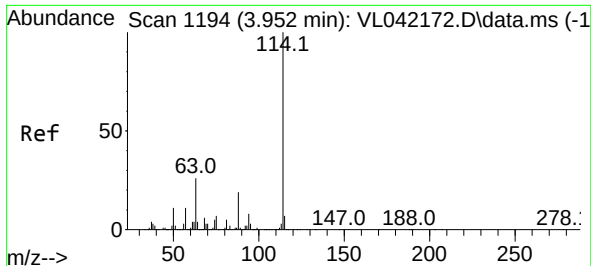
Tgt Ion: 57 Resp: 4958
Ion Ratio Lower Upper
57 100
41 135.9 76.6 114.8#
43 284.3 207.8 311.8
56 68.7 43.6 65.4#



#29
Chloroform
Concen: 0.135 ppbv
RT: 2.852 min Scan# 854
Delta R.T. 0.007 min
Lab File: VL042322.D
Acq: 11 Apr 2025 16:08

Tgt Ion: 83 Resp: 5087
Ion Ratio Lower Upper
83 100
85 64.6 51.4 77.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.965 min Scan# 1198

Delta R.T. 0.013 min

Lab File: VL042322.D

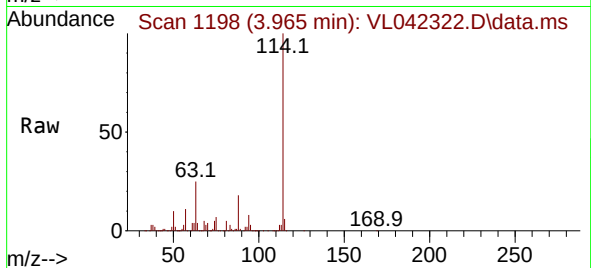
Acq: 11 Apr 2025 16:08

Instrument :

MSVOA_L

ClientSampleId :

IA-B10-2-3242025DL



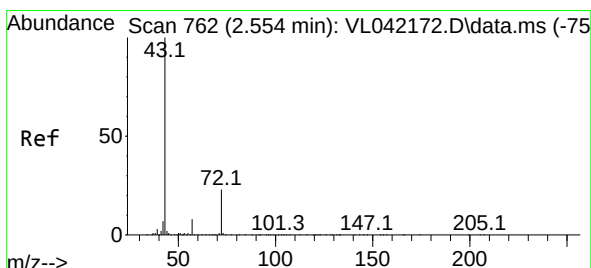
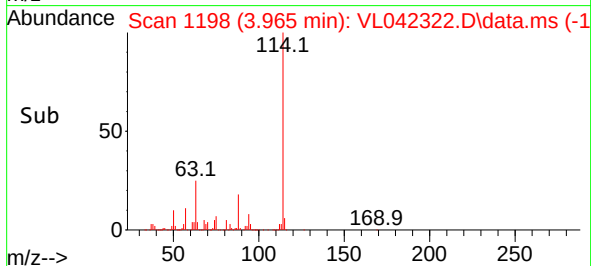
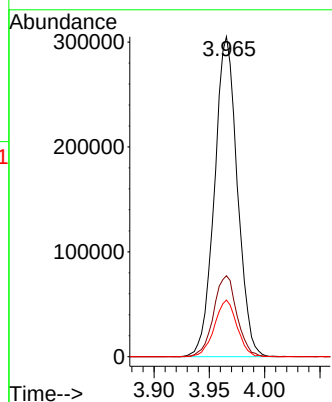
Tgt Ion:114 Resp: 437835

Ion Ratio Lower Upper

114 100

63 25.9 20.7 31.1

88 17.5 15.0 22.4



#34

2-Butanone

Concen: 2.149 ppbv

RT: 2.564 min Scan# 765

Delta R.T. 0.010 min

Lab File: VL042322.D

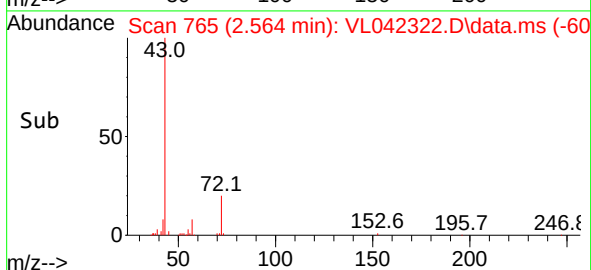
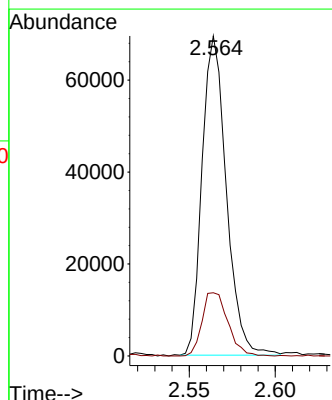
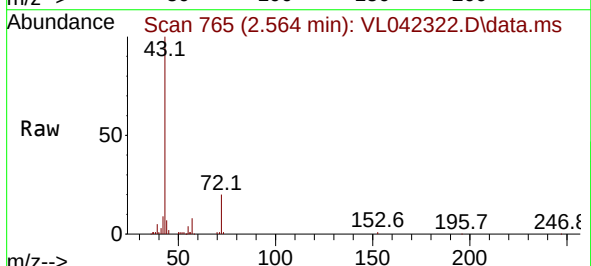
Acq: 11 Apr 2025 16:08

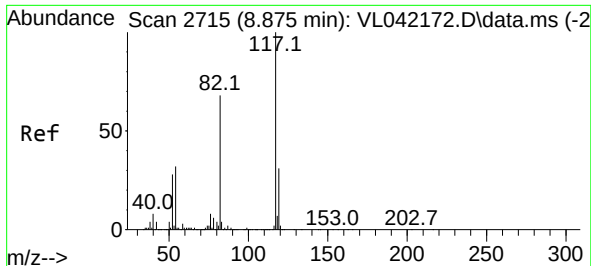
Tgt Ion: 43 Resp: 68236

Ion Ratio Lower Upper

43 100

72 21.2 18.2 27.2

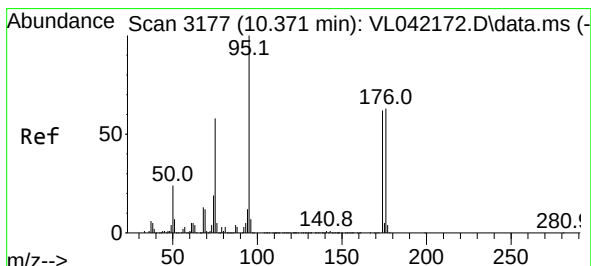
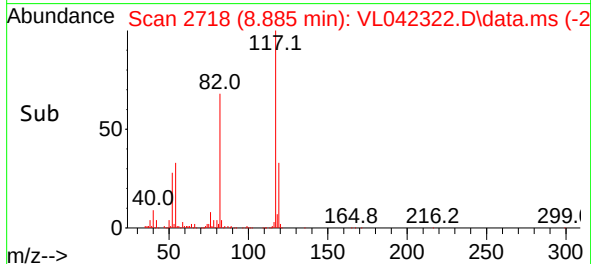
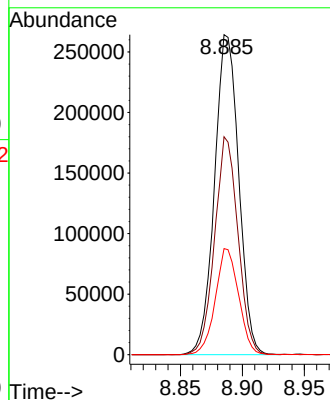
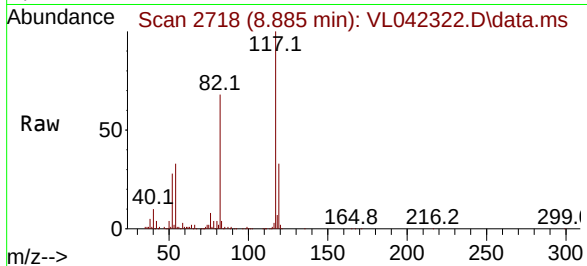




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL042322.D
Acq: 11 Apr 2025 16:08

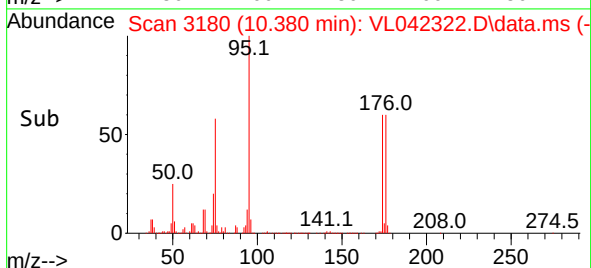
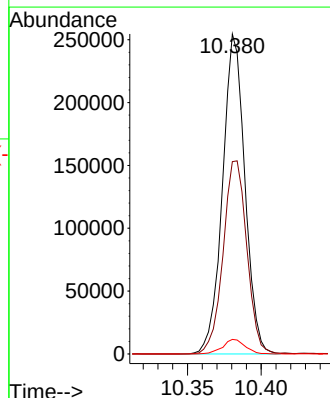
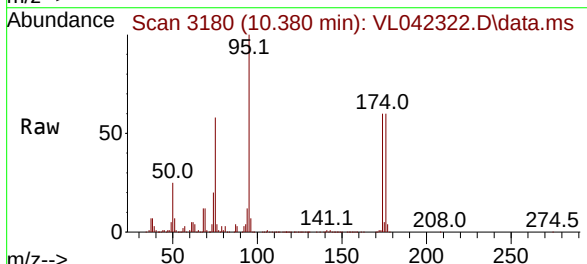
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-2-3242025DL

Tgt Ion:117 Resp: 360512
Ion Ratio Lower Upper
117 100
82 65.6 55.8 83.6
119 31.9 25.5 38.3



#68
1-Bromo-4-Fluorobenzene
Concen: 9.070 ppbv
RT: 10.380 min Scan# 3180
Delta R.T. 0.010 min
Lab File: VL042322.D
Acq: 11 Apr 2025 16:08

Tgt Ion: 95 Resp: 268511
Ion Ratio Lower Upper
95 100
174 64.6 50.6 76.0
175 4.7 3.8 5.6



Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/25/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	03/26/25
Client Sample ID:	AA-1-3242025	SDG No.:	Q1665
Lab Sample ID:	Q1665-04	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
VL042292.D	1		04/09/25 14:36	VL040925

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.40	1.98	J	1.04	2.47	ug/m3
74-87-3	Chloromethane	0.55	1.14		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	0.21	1.18	J	0.90	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.16	1.23	U	1.23	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.090	0.63	U	0.63	3.49	ug/m3
75-65-0	tert-Butyl alcohol	0.19	0.58	U	0.58	1.52	ug/m3
142-82-5	Heptane	0.11	0.45	U	0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
67-64-1	Acetone	3.50	8.31		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	0.67	2.33		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	0.35	1.03	J	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	0.010	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	0.25	0.80	J	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	0.28	1.06	J	0.41	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.070	0.38	U	0.38	2.73	ug/m3

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/25/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	03/26/25
Client Sample ID:	AA-1-3242025	SDG No.:	Q1665
Lab Sample ID:	Q1665-04	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
VL042292.D	1		04/09/25 14:36	VL040925

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.070	0.60	U	0.60	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.070	0.54	U	0.54	0.77	ug/m3
127-18-4	Tetrachloroethene	0.020	0.14	U	0.14	0.20	ug/m3
108-90-7	Chlorobenzene	0.080	0.37	U	0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	0.12	0.52	U	0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	0.21	0.91	U	0.91	4.34	ug/m3
95-47-6	o-Xylene	0.12	0.52	U	0.52	2.17	ug/m3
100-42-5	Styrene	0.11	0.47	U	0.47	2.13	ug/m3
75-25-2	Bromoform	0.060	0.62	U	0.62	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.010	0.070	U	0.070	0.21	ug/m3
95-49-8	2-Chlorotoluene	0.11	0.57	U	0.57	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.11	0.54	U	0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.080	0.39	U	0.39	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.050	0.30	U	0.30	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.090	0.67	U	0.67	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.090	0.96	U	0.96	5.33	ug/m3
106-99-0	1,3-Butadiene	0.13	0.29	U	0.29	1.11	ug/m3
91-20-3	Naphthalene	0.080	0.42	U	0.42	0.52	ug/m3
622-96-8	4-Ethyltoluene	0.12	0.59	U	0.59	2.46	ug/m3
110-54-3	Hexane	1.10	3.88		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	9.20		70 (65) - 130 (135)	92%	SPK: 10
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INTERNAL STANDARDS

74-97-5	Bromochloromethane	158000	2.784
540-36-3	1,4-Difluorobenzene	383000	3.956
3114-55-4	Chlorobenzene-d5	331000	8.879

TENTATIVE IDENTIFIED COMPOUNDS

75-45-6	Chlorodifluoromethane	0.29	J	1.47	ppbv
115-07-1	Propene	0.75	J	1.49	ppbv
000106-97-8	Butane	1.00	J	1.62	ppbv

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/25/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	03/26/25
Client Sample ID:	AA-1-3242025	SDG No.:	Q1665
Lab Sample ID:	Q1665-04	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
VL042292.D	1		04/09/25 14:36	VL040925

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
64-17-5	Ethanol	12.8		J		1.72	ppbv
67-63-0	Isopropyl Alcohol	1.20		J		1.88	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\VL040925\
 Data File : VL042292.D
 Acq On : 09 Apr 2025 14:36
 Operator : SY/MD
 Sample : Q1665-04
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 AA-1-3242025

Quant Time: Apr 10 01:44:34 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

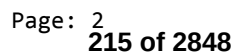
Reviewed By : Semsettin Yesilyurt 04/10/2025
 Supervised By : Mahesh Dadoda 04/10/2025

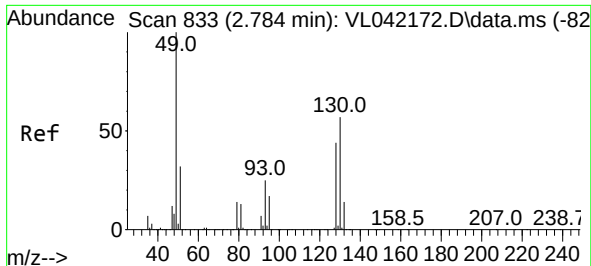
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.784	49	157856	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.956	114	383411	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.879	117	331322	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	250999	9.225	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.200%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.496	85	9272	0.398	ppbv	99
3) Chlorodifluoromethane	1.473	51	6821m	0.286	ppbv	
4) Chloromethane	1.531	50	5277	0.554	ppbv	92
9) Propene	1.486	41	8231	0.754	ppbv	93
11) Trichlorofluoromethane	1.874	101	4773	0.210	ppbv	100
13) Ethanol	1.719	45	13232	12.826	ppbv	88
15) Acetone	1.836	43	76719	3.475	ppbv	91
19) Isopropyl Alcohol	1.884	45	14854	1.192	ppbv #	1
20) Methylene Chloride	2.059	84	5511	0.670	ppbv	96
26) Hexane	2.823	57	23758	1.073	ppbv #	35
34) 2-Butanone	2.561	43	9840	0.354	ppbv	99
35) Carbon Tetrachloride	3.758	117	2688	0.090	ppbv	89
36) Benzene	3.651	78	9637	0.254	ppbv #	85
53) Toluene	6.937	91	12644m	0.281	ppbv	
59) m/p-Xylene	9.529	91	5742m	0.122	ppbv	

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

Manual Integrations

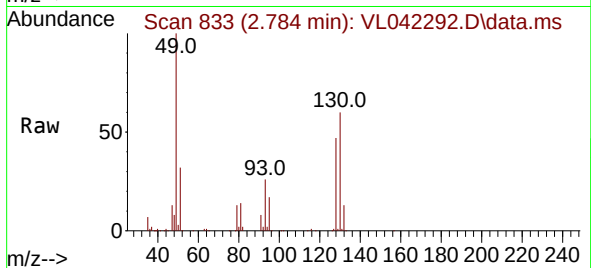
Quant Time: Apr 10 01:44:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. -0.000 min
Lab File: VL042292.D
Acq: 09 Apr 2025 14:36

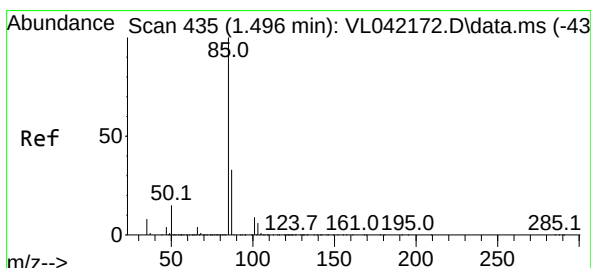
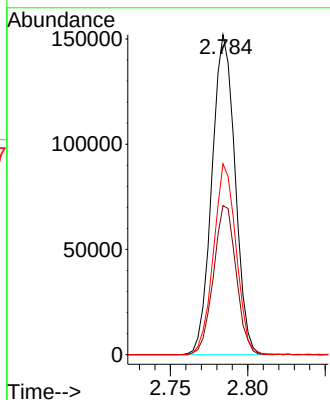
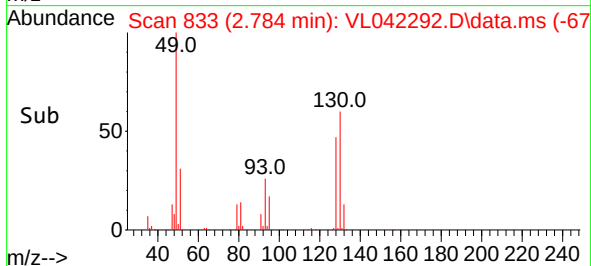
Instrument :
MSVOA_L
ClientSampleId :
AA-1-3242025



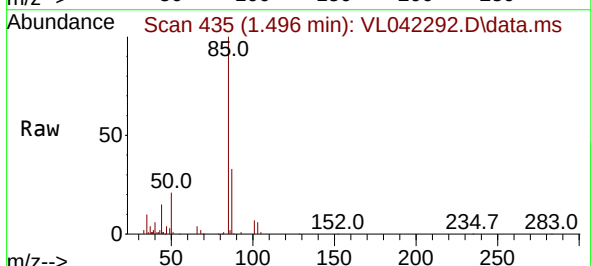
Tgt Ion: 49 Resp: 157850
Ion Ratio Lower Upper
49 100
128 45.7 22.9 68.5
130 58.3 28.8 86.4

Manual Integrations
APPROVED

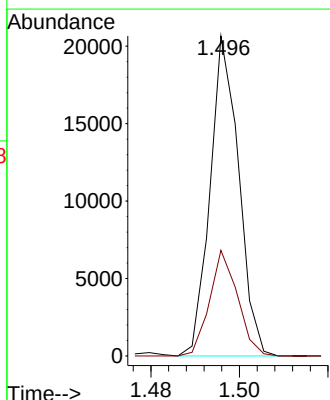
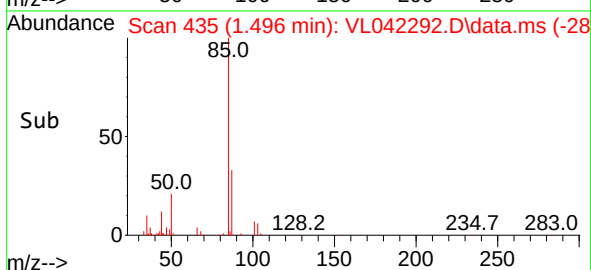
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

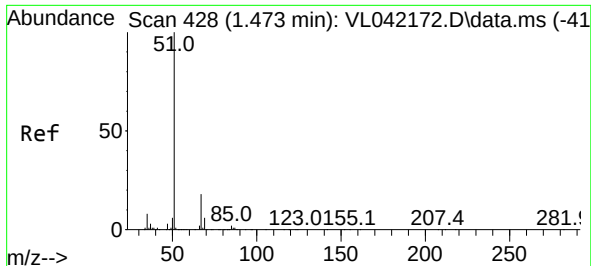


#2
Dichlorodifluoromethane
Concen: 0.398 ppbv
RT: 1.496 min Scan# 435
Delta R.T. 0.000 min
Lab File: VL042292.D
Acq: 09 Apr 2025 14:36



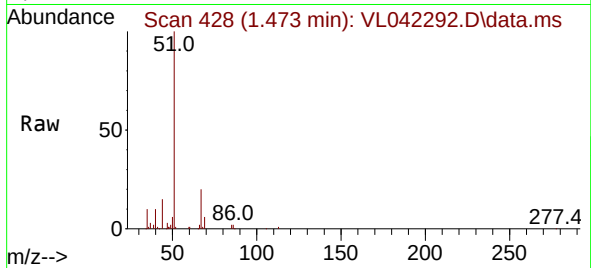
Tgt Ion: 85 Resp: 9272
Ion Ratio Lower Upper
85 100
87 33.0 26.1 39.1





#3
Chlorodifluoromethane
Concen: 0.286 ppbv m
RT: 1.473 min Scan# 428
Delta R.T. 0.000 min
Lab File: VL042292.D
Acq: 09 Apr 2025 14:36

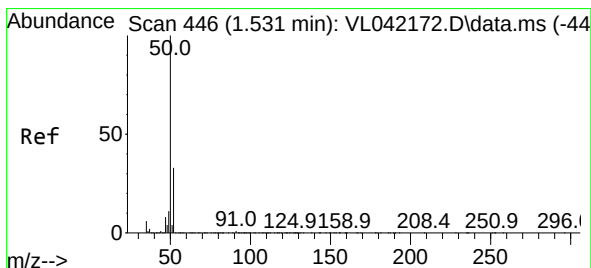
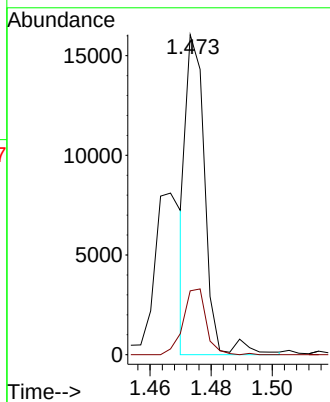
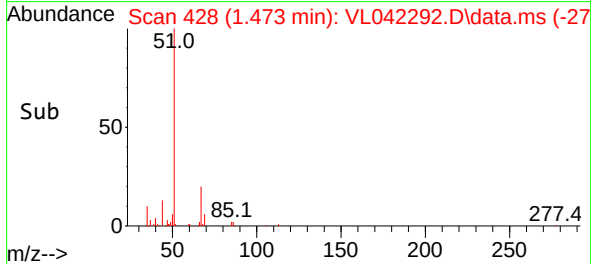
Instrument :
MSVOA_L
ClientSampleId :
AA-1-3242025



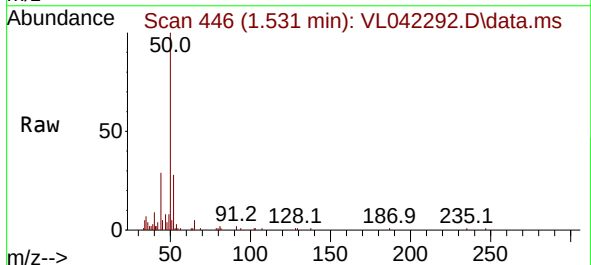
Tgt Ion: 51 Resp: 682
Ion Ratio Lower Upper
51 100
67 25.2 15.0 22.6

Manual Integrations
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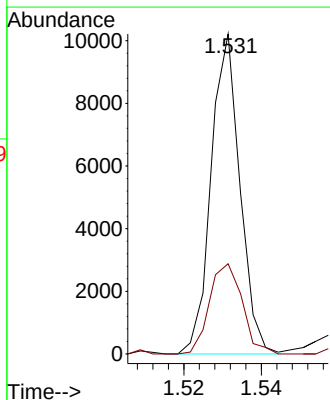
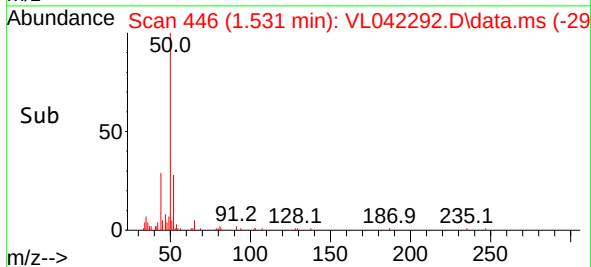
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

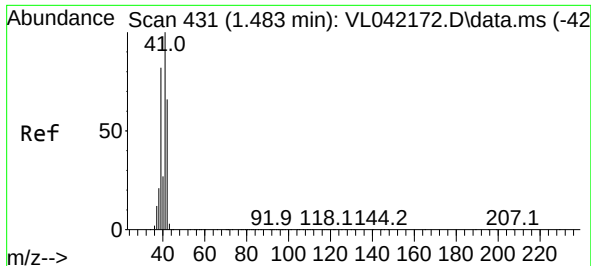


#4
Chloromethane
Concen: 0.554 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042292.D
Acq: 09 Apr 2025 14:36



Tgt Ion: 50 Resp: 5277
Ion Ratio Lower Upper
50 100
52 28.2 26.1 39.1





#9

Propene

Concen: 0.754 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042292.D

Acq: 09 Apr 2025 14:36

Instrument :

MSVOA_L

ClientSampleId :

AA-1-3242025

Tgt Ion: 41 Resp: 823

Ion Ratio Lower Upper

41 100

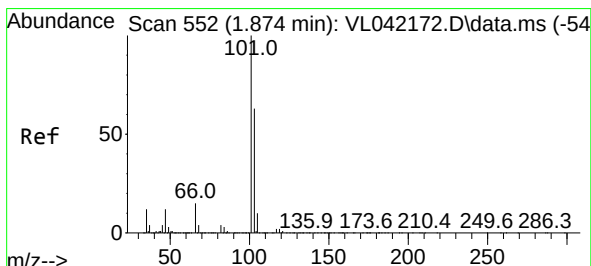
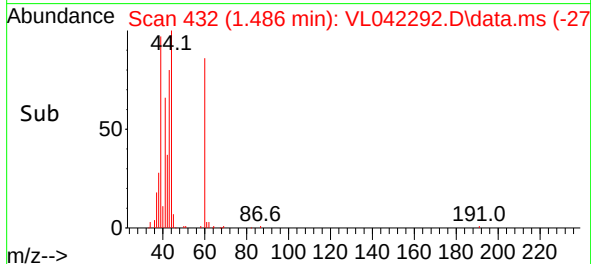
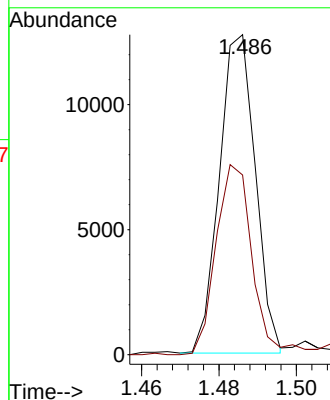
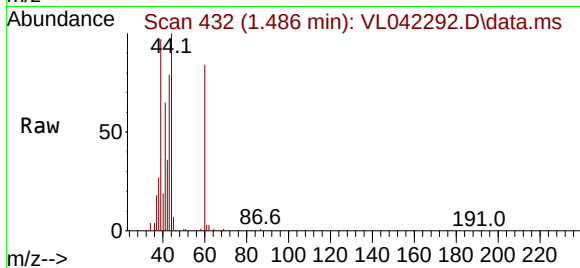
42 63.3 55.4 83.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#11

Trichlorofluoromethane

Concen: 0.210 ppbv

RT: 1.874 min Scan# 552

Delta R.T. 0.000 min

Lab File: VL042292.D

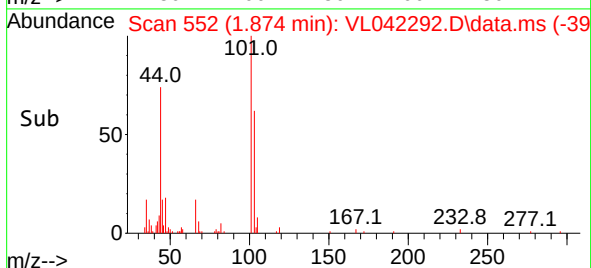
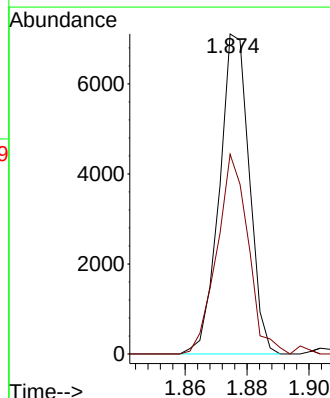
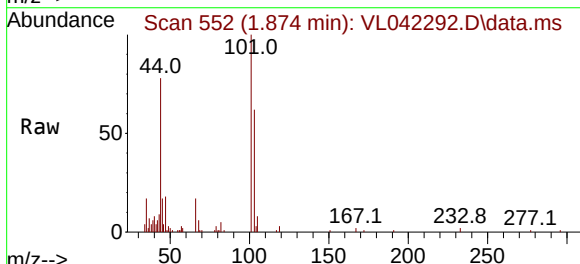
Acq: 09 Apr 2025 14:36

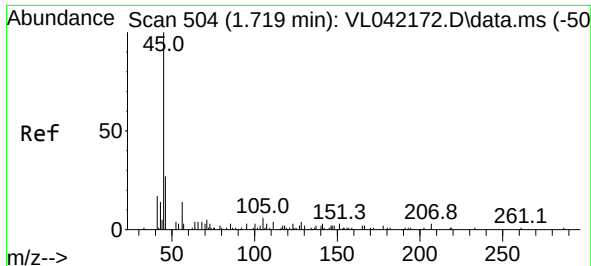
Tgt Ion:101 Resp: 4773

Ion Ratio Lower Upper

101 100

103 62.4 50.2 75.2





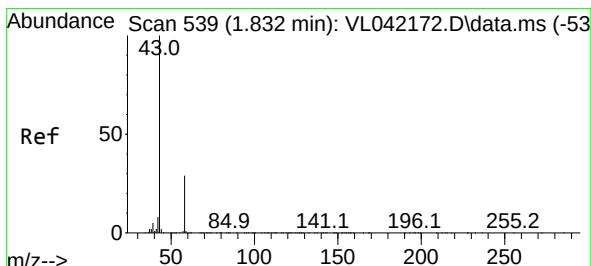
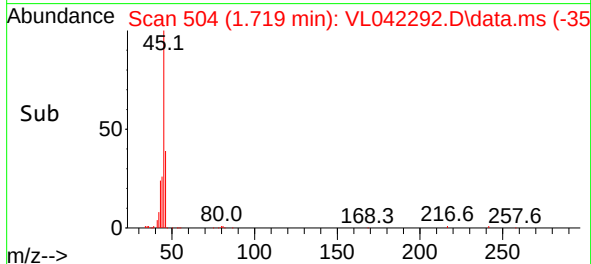
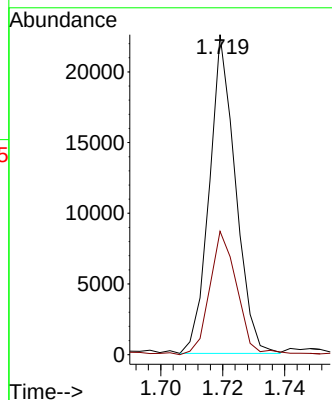
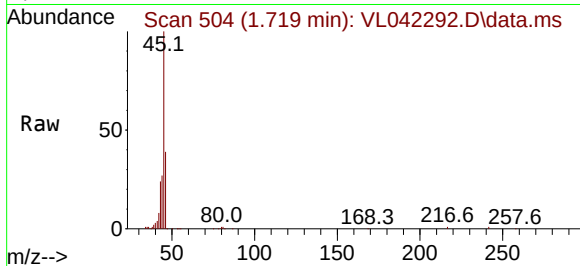
#13
Ethanol
Concen: 12.826 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.000 min
Lab File: VL042292.D
Acq: 09 Apr 2025 14:36

Instrument :
MSVOA_L
ClientSampleId :
AA-1-3242025

Tgt Ion: 45 Resp: 1323
Ion Ratio Lower Upper
45 100
46 42.5 20.2 80.8

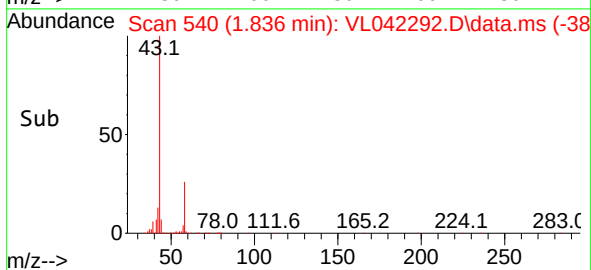
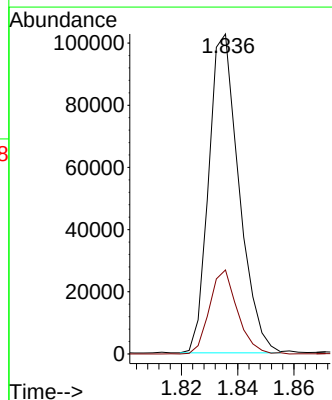
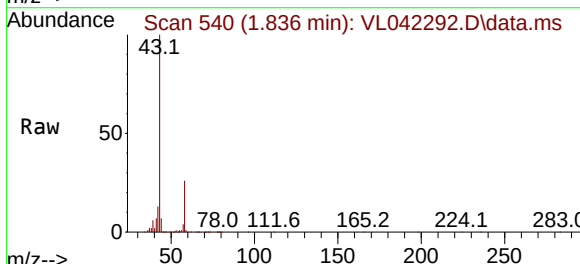
Manual Integrations
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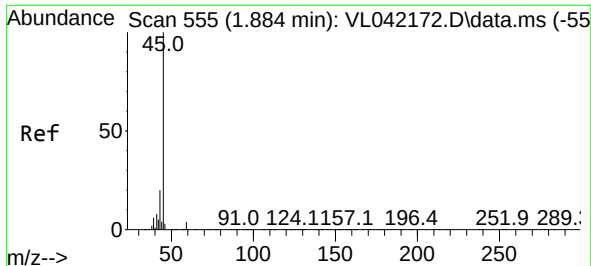
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#15
Acetone
Concen: 3.475 ppbv
RT: 1.836 min Scan# 540
Delta R.T. 0.003 min
Lab File: VL042292.D
Acq: 09 Apr 2025 14:36

Tgt Ion: 43 Resp: 76719
Ion Ratio Lower Upper
43 100
58 24.3 23.2 34.8





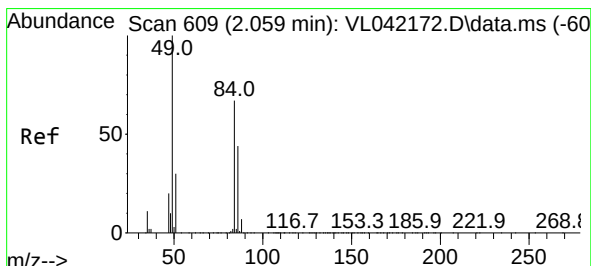
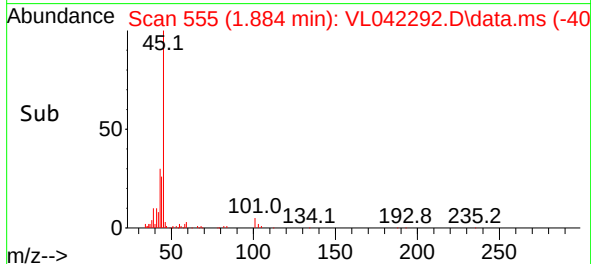
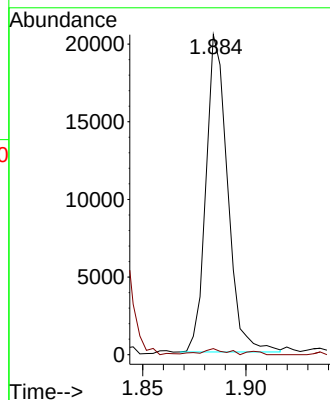
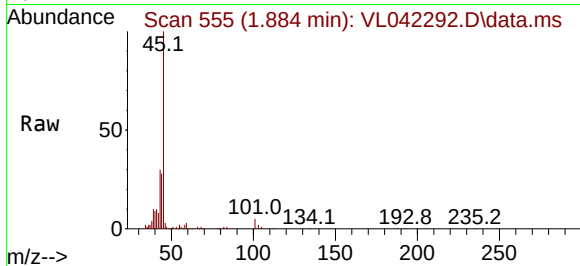
#19
Isopropyl Alcohol
Concen: 1.192 ppbv
RT: 1.884 min Scan# 511
Delta R.T. 0.000 min
Lab File: VL042292.D
Acq: 09 Apr 2025 14:36

Instrument :
MSVOA_L
ClientSampleId :
AA-1-3242025

Tgt Ion: 45 Resp: 14854
Ion Ratio Lower Upper
45 100
58 125.4 36.9 55.3

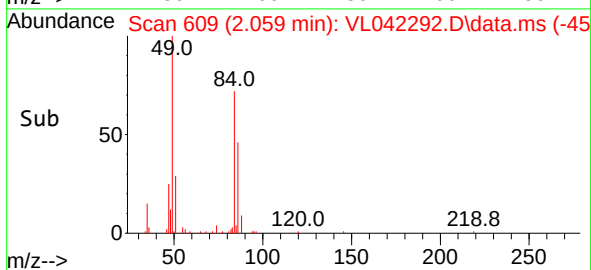
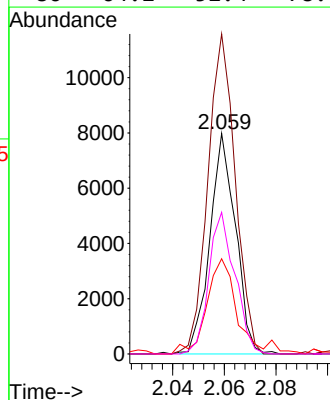
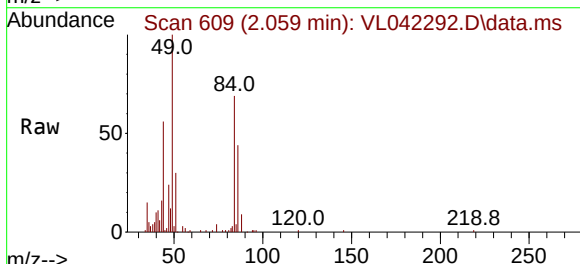
Manual Integrations
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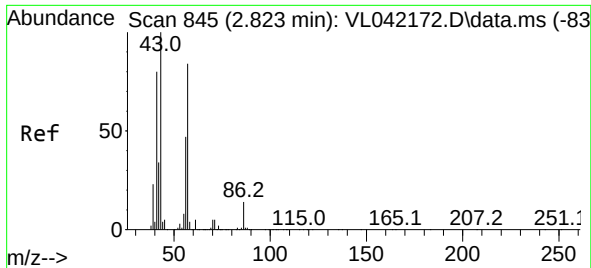
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#20
Methylene Chloride
Concen: 0.670 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.000 min
Lab File: VL042292.D
Acq: 09 Apr 2025 14:36

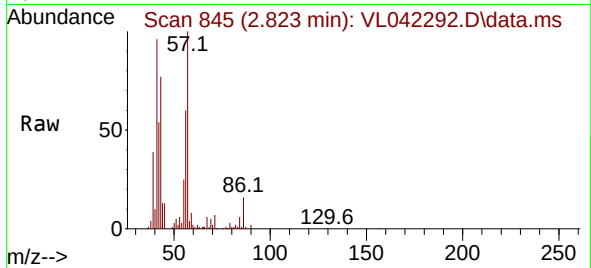
Tgt Ion: 84 Resp: 5511
Ion Ratio Lower Upper
84 100
49 145.1 120.2 180.4
51 42.4 37.4 56.0
86 64.2 52.4 78.6





#26
Hexane
Concen: 1.073 ppbv
RT: 2.823 min Scan# 845
Delta R.T. 0.000 min
Lab File: VL042292.D
Acq: 09 Apr 2025 14:36

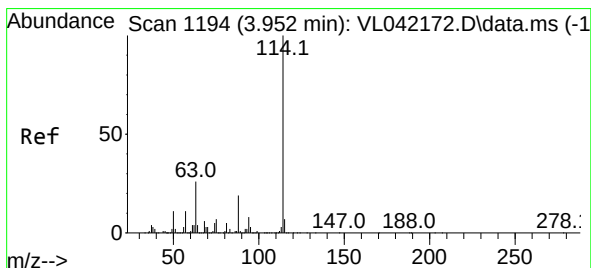
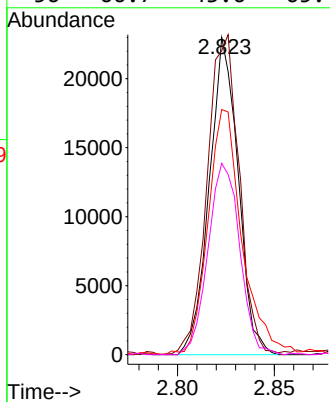
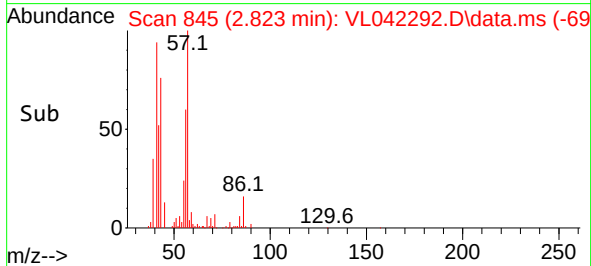
Instrument :
MSVOA_L
ClientSampleId :
AA-1-3242025



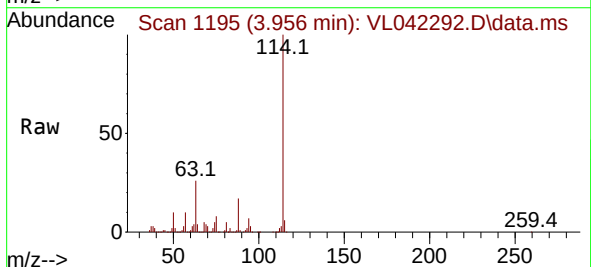
Tgt Ion	Ratio	Lower	Upper
57	100		
41	112.9	76.6	114.8
43	94.2	207.8	311.8
56	66.7	43.6	65.4

Manual Integrations
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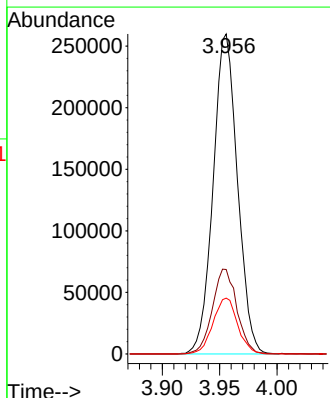
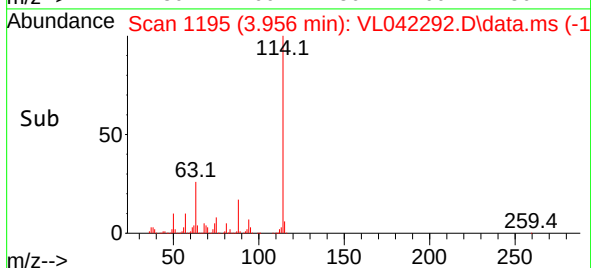
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

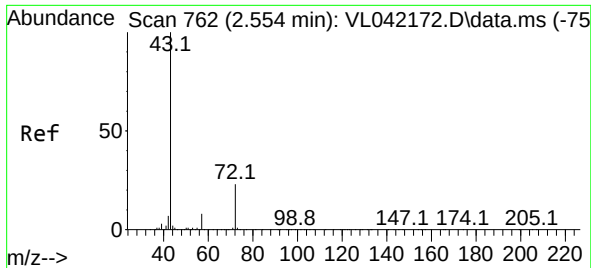


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.956 min Scan# 1195
Delta R.T. 0.003 min
Lab File: VL042292.D
Acq: 09 Apr 2025 14:36



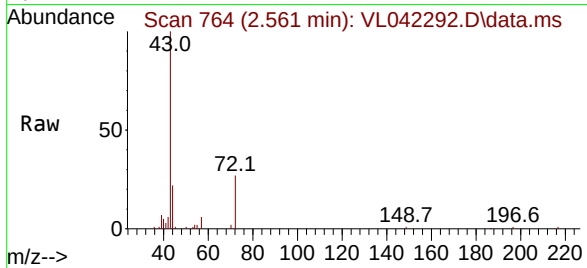
Tgt Ion	Ratio	Lower	Upper
114	100		
63	26.7	20.7	31.1
88	17.7	15.0	22.4





#34
2-Butanone
Concen: 0.354 ppbv
RT: 2.561 min Scan# 764
Delta R.T. 0.006 min
Lab File: VL042292.D
Acq: 09 Apr 2025 14:36

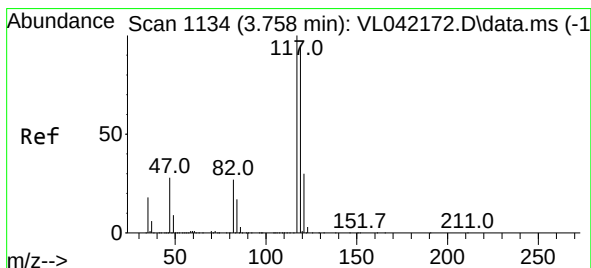
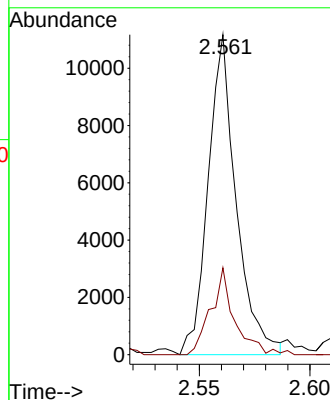
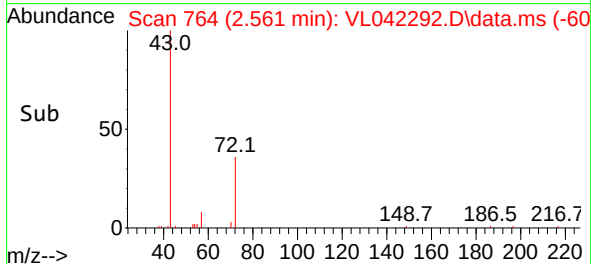
Instrument :
MSVOA_L
ClientSampleId :
AA-1-3242025



Tgt Ion: 43 Resp: 9840
Ion Ratio Lower Upper
43 100
72 23.2 18.2 27.2

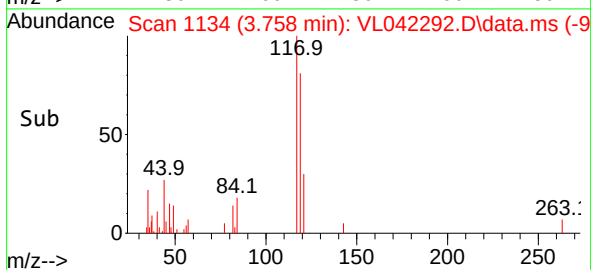
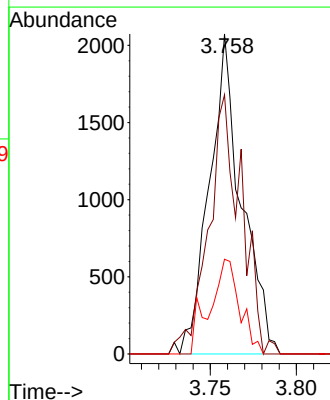
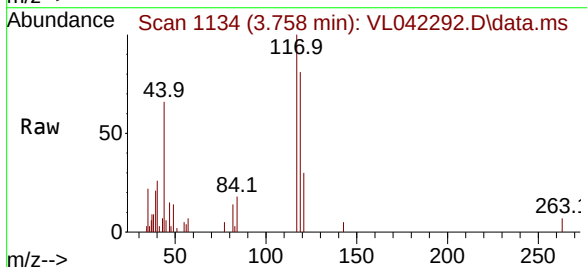
Manual Integrations
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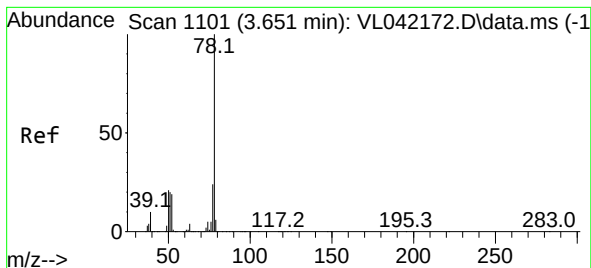
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#35
Carbon Tetrachloride
Concen: 0.090 ppbv
RT: 3.758 min Scan# 1134
Delta R.T. 0.000 min
Lab File: VL042292.D
Acq: 09 Apr 2025 14:36

Tgt Ion:117 Resp: 2688
Ion Ratio Lower Upper
117 100
119 81.0 76.2 114.2
121 29.6 24.2 36.4





#36

Benzene

Concen: 0.254 ppbv

RT: 3.651 min Scan# 1101

Delta R.T. 0.000 min

Lab File: VL042292.D

Acq: 09 Apr 2025 14:36

Instrument :

MSVOA_L

ClientSampleId :

AA-1-3242025

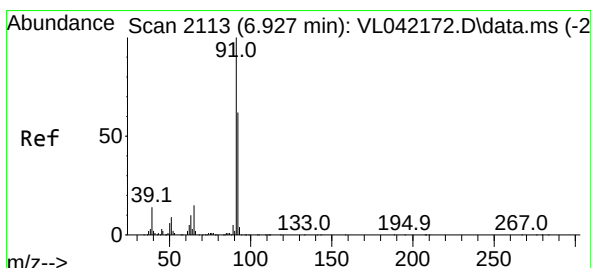
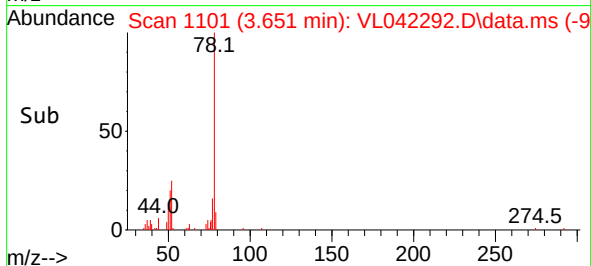
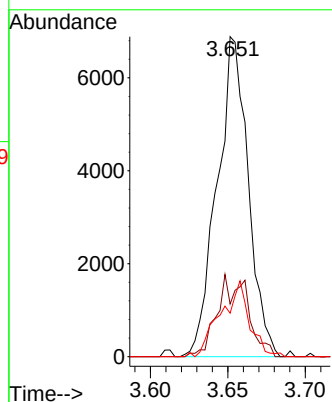
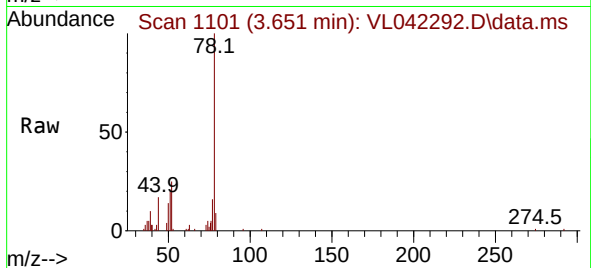
Tgt Ion: 78 Resp: 963

Ion	Ratio	Lower	Upper
78	100		
77	16.4	19.1	28.7
50	13.6	16.6	24.8

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#53

Toluene

Concen: 0.281 ppbv m

RT: 6.937 min Scan# 2116

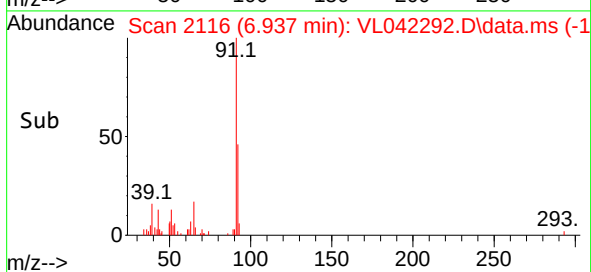
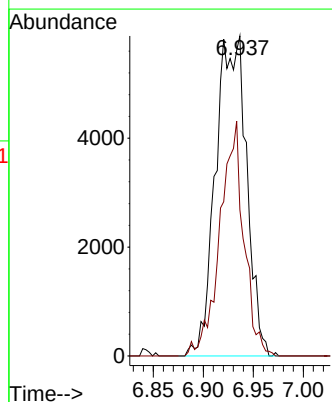
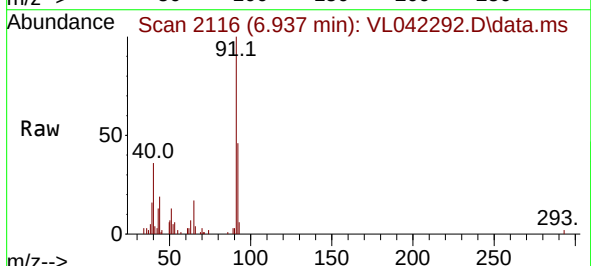
Delta R.T. 0.010 min

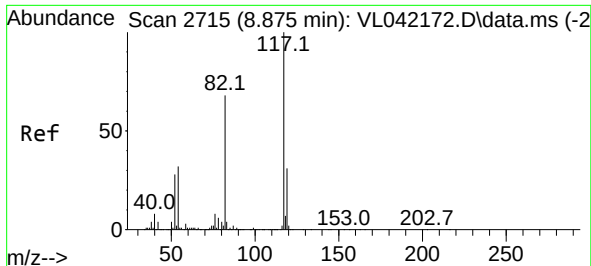
Lab File: VL042292.D

Acq: 09 Apr 2025 14:36

Tgt Ion: 91 Resp: 12644

Ion	Ratio	Lower	Upper
91	100		
92	56.7	48.4	72.6





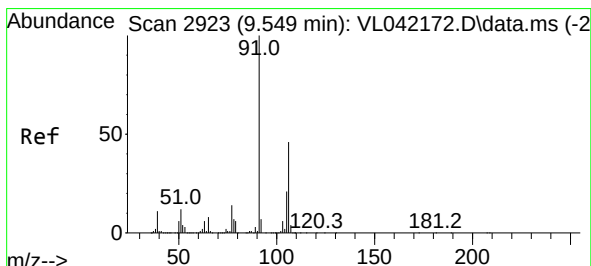
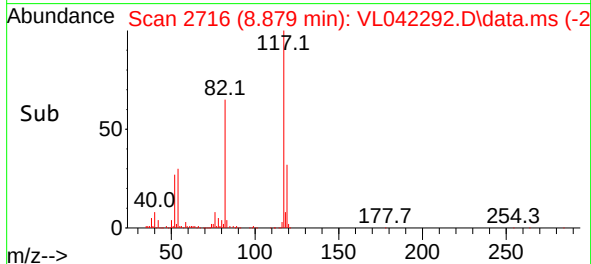
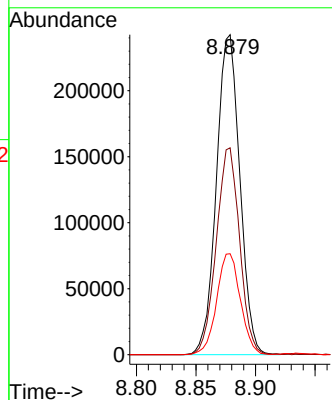
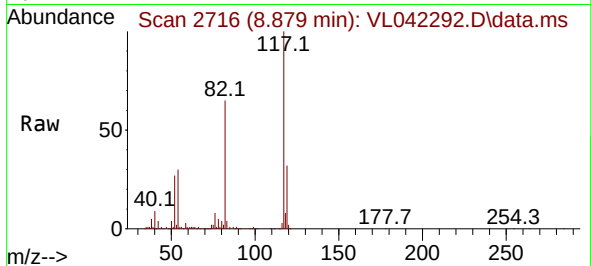
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.879 min Scan# 2117
Delta R.T. 0.003 min
Lab File: VL042292.D
Acq: 09 Apr 2025 14:36

Instrument :
MSVOA_L
ClientSampleId :
AA-1-3242025

Tgt Ion:117 Resp: 33132
Ion Ratio Lower Upper
117 100
82 64.4 55.8 83.6
119 31.9 25.5 38.3

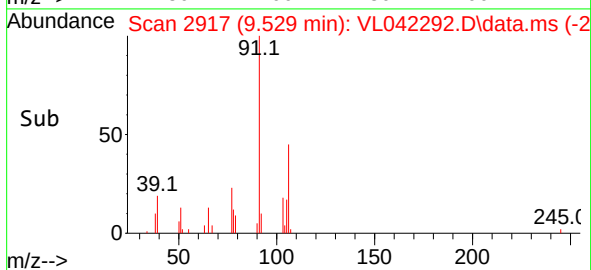
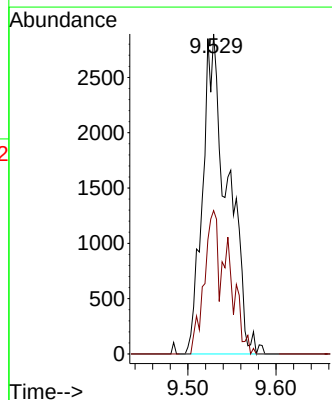
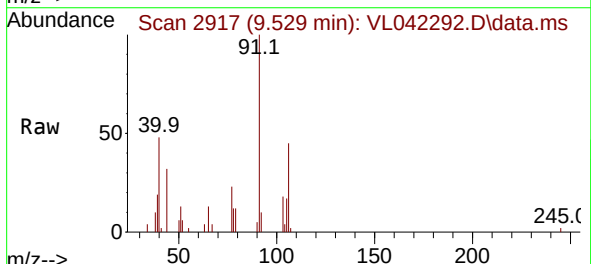
Manual Integrations
APPROVED

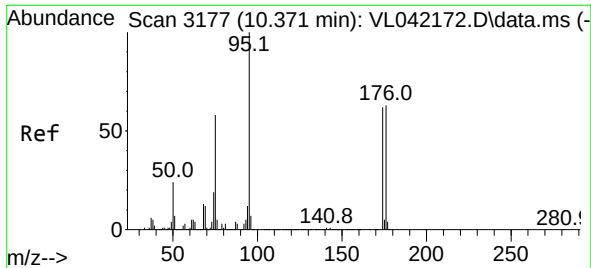
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#59
m/p-Xylene
Concen: 0.122 ppbv m
RT: 9.529 min Scan# 2917
Delta R.T. -0.019 min
Lab File: VL042292.D
Acq: 09 Apr 2025 14:36

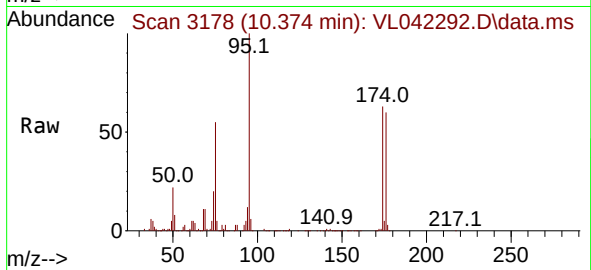
Tgt Ion: 91 Resp: 5742
Ion Ratio Lower Upper
91 100
106 0.0 36.4 54.6#





#68
1-Bromo-4-Fluorobenzene
Concen: 9.225 ppbv
RT: 10.374 min Scan# 3177
Delta R.T. 0.003 min
Lab File: VL042292.D
Acq: 09 Apr 2025 14:36

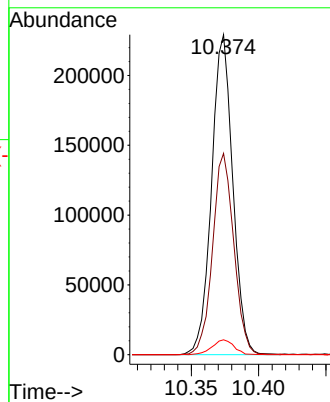
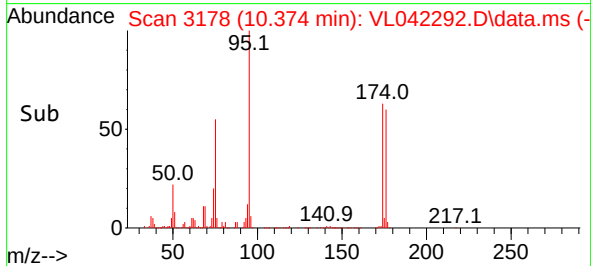
Instrument :
MSVOA_L
ClientSampleId :
AA-1-3242025



Tgt Ion: 95 Resp: 250999
Ion Ratio Lower Upper
95 100
174 63.1 50.6 76.0
175 4.8 3.8 5.6

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042292.D
Acq On : 09 Apr 2025 14:36
Operator : SY/MD
Sample : Q1665-04
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
AA-1-3242025

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\VL032725AIR.M

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

Signal : TIC: VL042292.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	409	414	420	rBV	4055154	4358881	100.00%	48.851%
2	1.486	427	432	434	rBV2	89859	48474	1.11%	0.543%
3	1.557	449	454	458	rVB	91331	47137	1.08%	0.528%
4	1.619	470	473	477	rVB	118004	60050	1.38%	0.673%
5	1.836	535	540	547	rBV2	174929	156752	3.60%	1.757%
6	2.784	825	833	840	rBV	576389	591579	13.57%	6.630%
7	2.823	840	845	860	rVB2	132350	156487	3.59%	1.754%
8	3.952	1180	1194	1213	rBV	682675	1044834	23.97%	11.710%
9	8.879	2704	2716	2726	rBV	833986	1156517	26.53%	12.961%
10	8.937	2726	2734	2745	rVB5	59177	101204	2.32%	1.134%
11	10.374	3161	3178	3190	rBV	1070379	1200804	27.55%	13.458%

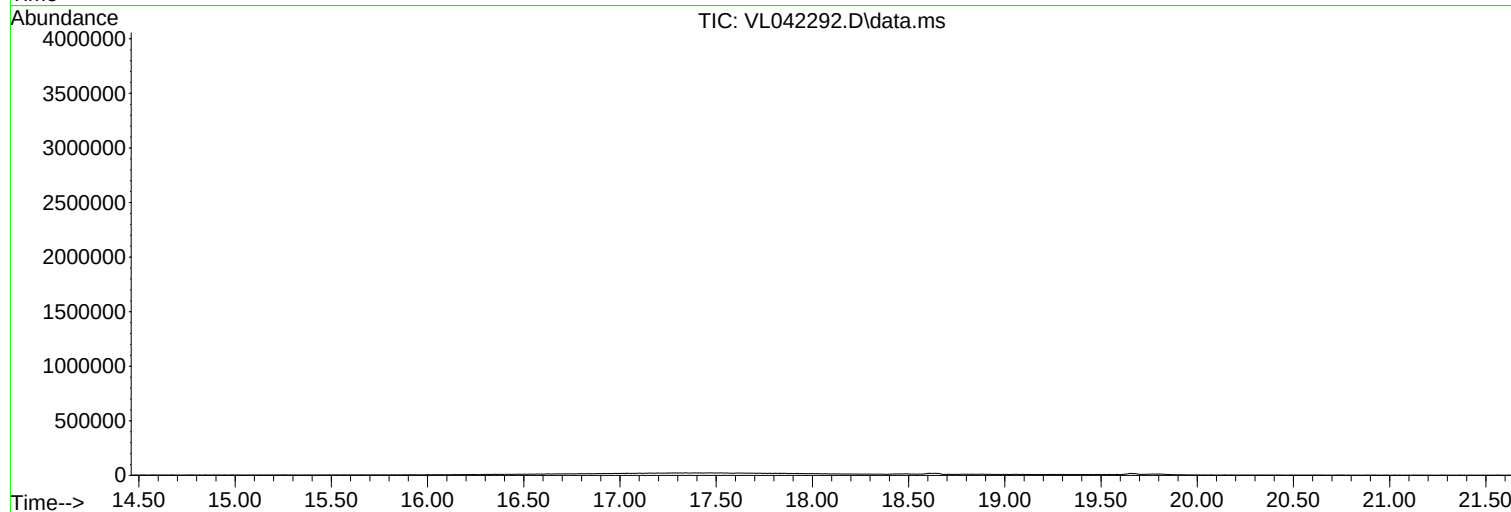
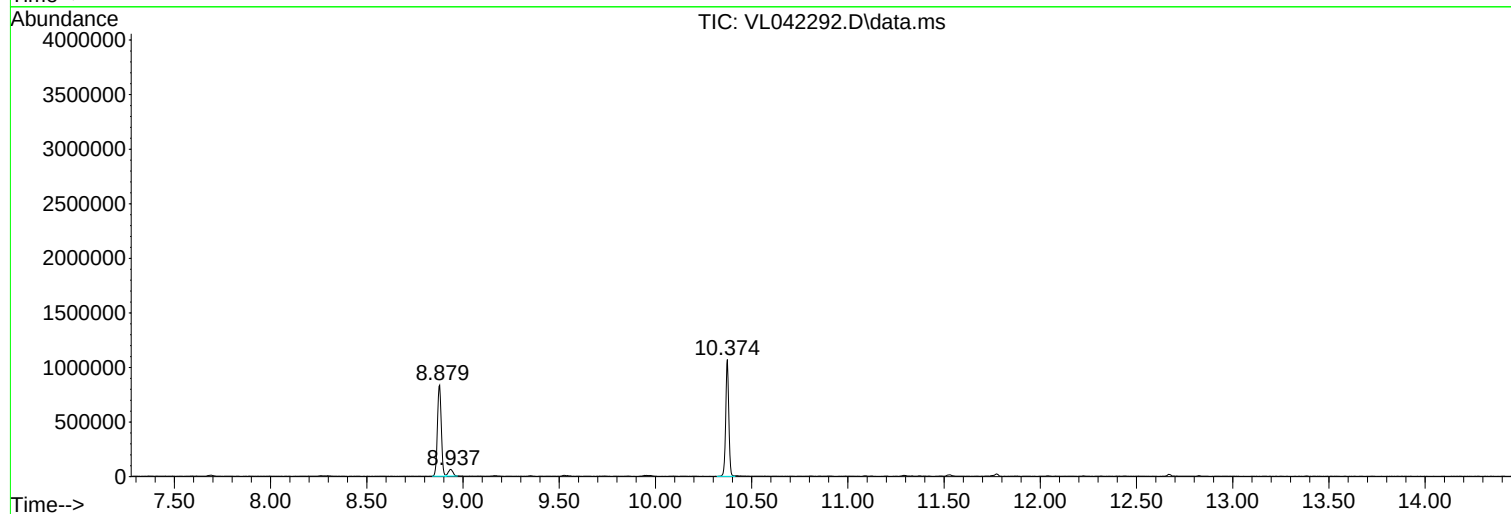
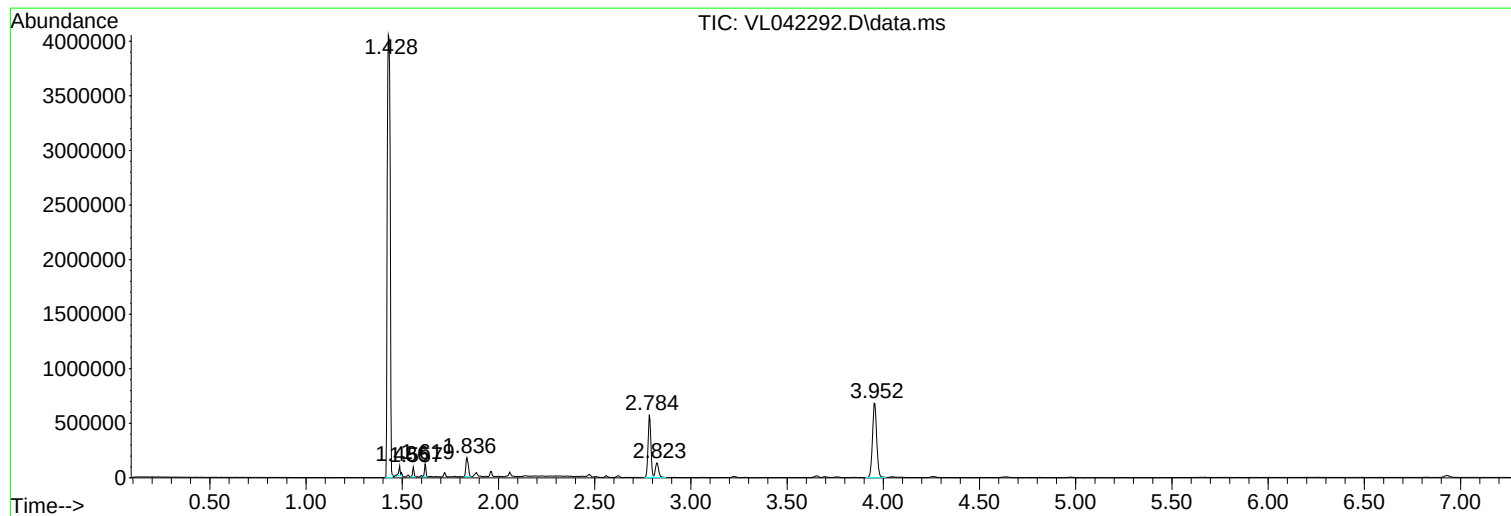
Sum of corrected areas: 8922719

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042292.D
Acq On : 09 Apr 2025 14:36
Operator : SY/MD
Sample : Q1665-04
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
AA-1-3242025

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

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042292.D
Acq On : 09 Apr 2025 14:36
Operator : SY/MD
Sample : Q1665-04
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
AA-1-3242025

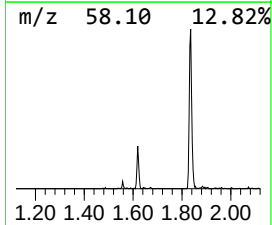
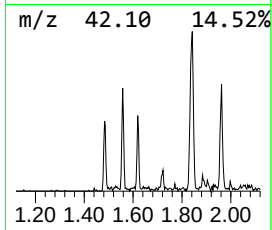
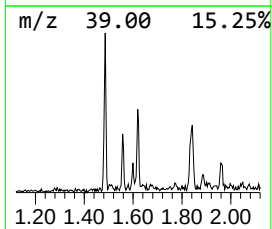
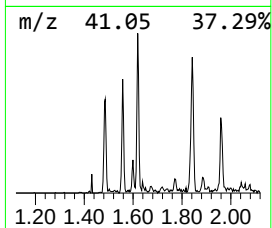
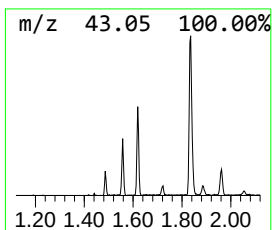
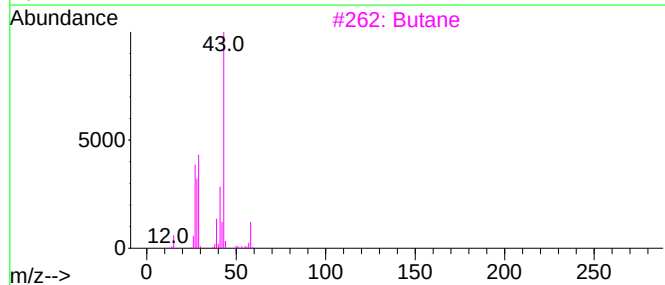
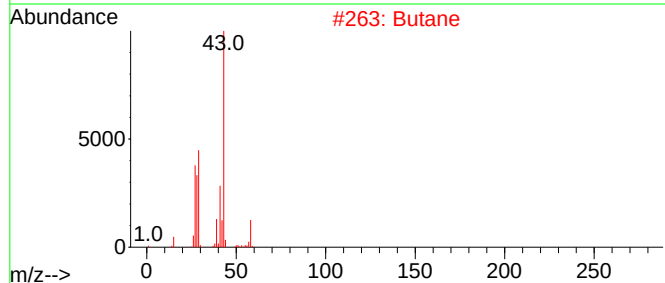
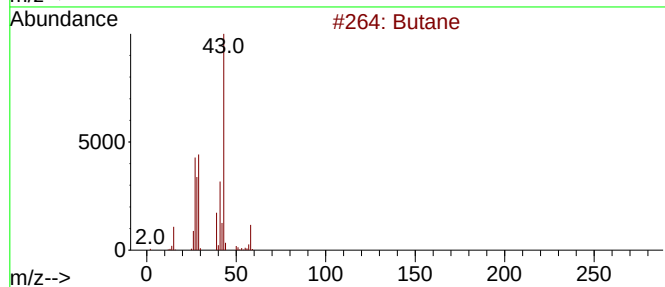
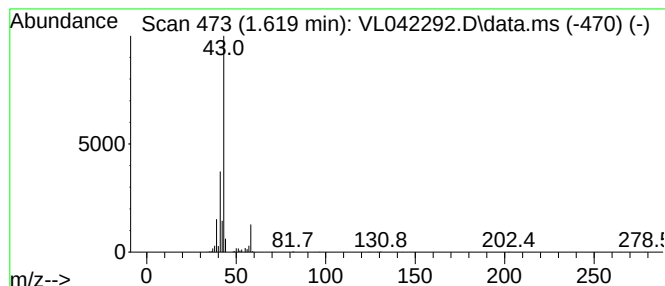
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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	1.02 ppbv	60050	Bromochloromethane	2.784

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane			58	C4H10	000106-97-8	64
2	Butane			58	C4H10	000106-97-8	64
3	Butane			58	C4H10	000106-97-8	64
4	Butane			58	C4H10	000106-97-8	64
5	Formic acid, chloro-, (3,4,4-tri...			194	C7H11ClO4	107323-92-2	39



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042292.D
Acq On : 09 Apr 2025 14:36
Operator : SY/MD
Sample : Q1665-04
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
AA-1-3242025

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

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	1.619	1.0	ppbv	60050	1	2.784	591579	10.0

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/25/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	03/26/25
Client Sample ID:	IA-B9-1-3242025	SDG No.:	Q1665
Lab Sample ID:	Q1665-06	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
VL042293.D	1		04/09/25 15:15	VL040925

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.37	1.83	J	1.04	2.47	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	0.33	0.97	J	0.38	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.22	1.24	J	0.90	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.16	1.23	U	1.23	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.090	0.63	U	0.63	3.49	ug/m3
75-65-0	tert-Butyl alcohol	0.19	0.58	U	0.58	1.52	ug/m3
142-82-5	Heptane	0.12	0.49	J	0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
67-64-1	Acetone	8.50	20.2		0.57	1.19	ug/m3
75-15-0	Carbon Disulfide	0.16	0.50	U	0.50	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.12	0.43	U	0.43	1.80	ug/m3
75-09-2	Methylene Chloride	1.10	3.82		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	4.70	13.9		0.35	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.080	0.50		0.060	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.090	0.36	U	0.36	1.98	ug/m3
67-66-3	Chloroform	0.080	0.39	U	0.39	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.010	0.050	U	0.050	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.10	0.47	U	0.47	2.34	ug/m3
71-43-2	Benzene	0.29	0.93	J	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	0.48	1.81	J	0.41	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.070	0.38	U	0.38	2.73	ug/m3

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/25/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	03/26/25
Client Sample ID:	IA-B9-1-3242025	SDG No.:	Q1665
Lab Sample ID:	Q1665-06	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
VL042293.D	1		04/09/25 15:15	VL040925

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.070	0.60	U	0.60	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.070	0.54	U	0.54	0.77	ug/m3
127-18-4	Tetrachloroethene	0.020	0.14	U	0.14	0.20	ug/m3
108-90-7	Chlorobenzene	0.24	1.11	J	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	2.00	7.05		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	9.40		70 (65) - 130 (135)	94%	SPK: 10
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INTERNAL STANDARDS

74-97-5	Bromochloromethane	162000	2.784
540-36-3	1,4-Difluorobenzene	395000	3.952
3114-55-4	Chlorobenzene-d5	339000	8.875

TENTATIVE IDENTIFIED COMPOUNDS

75-45-6	Chlorodifluoromethane	0.90	J	1.47	ppbv
115-07-1	Propene	2.20	J	1.49	ppbv
000106-97-8	Butane	1.30	J	1.62	ppbv

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/25/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	03/26/25
Client Sample ID:	IA-B9-1-3242025	SDG No.:	Q1665
Lab Sample ID:	Q1665-06	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
VL042293.D	1		04/09/25 15:15	VL040925

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
64-17-5	Ethanol	37.8		J		1.72	ppbv
67-63-0	Isopropyl Alcohol	23.4		J		1.88	ppbv
000100-52-7	Benzaldehyde	6.60		J		10.8	ppbv
000080-56-8	.alpha.-Pinene	1.70		J		10.9	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\VL040925\
 Data File : VL042293.D
 Acq On : 09 Apr 2025 15:15
 Operator : SY/MD
 Sample : Q1665-06
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B9-1-3242025

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/10/2025
 Supervised By :Mahesh Dadoda 04/10/2025

Quant Time: Apr 10 01:45:06 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	162172	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	394727	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	338809	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	260496	9.362	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.600%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.496	85	8768	0.366	ppbv	100
3) Chlorodifluoromethane	1.473	51	21947m	0.897	ppbv	
4) Chloromethane	1.531	50	5713	0.584	ppbv	94
9) Propene	1.486	41	24421m	2.178	ppbv	
10) Heptane	4.975	43	3638m	0.122	ppbv	
11) Trichlorofluoromethane	1.874	101	5120	0.220	ppbv	94
13) Ethanol	1.719	45	40099	37.833	ppbv	81
15) Acetone	1.832	43	192031	8.467	ppbv	94
19) Isopropyl Alcohol	1.884	45	298845	23.353	ppbv #	32
20) Methylene Chloride	2.059	84	9248	1.095	ppbv	97
26) Hexane	2.823	57	46406	2.041	ppbv #	35
34) 2-Butanone	2.554	43	134955	4.715	ppbv	98
35) Carbon Tetrachloride	3.758	117	2420m	0.078	ppbv	
36) Benzene	3.651	78	11524	0.294	ppbv #	90
41) Tetrahydrofuran	3.062	42	5513m	0.334	ppbv	
53) Toluene	6.930	91	22070	0.476	ppbv	98
57) Chlorobenzene	8.914	112	7743	0.241	ppbv #	83
59) m/p-Xylene	9.529	91	8935	0.186	ppbv	95

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

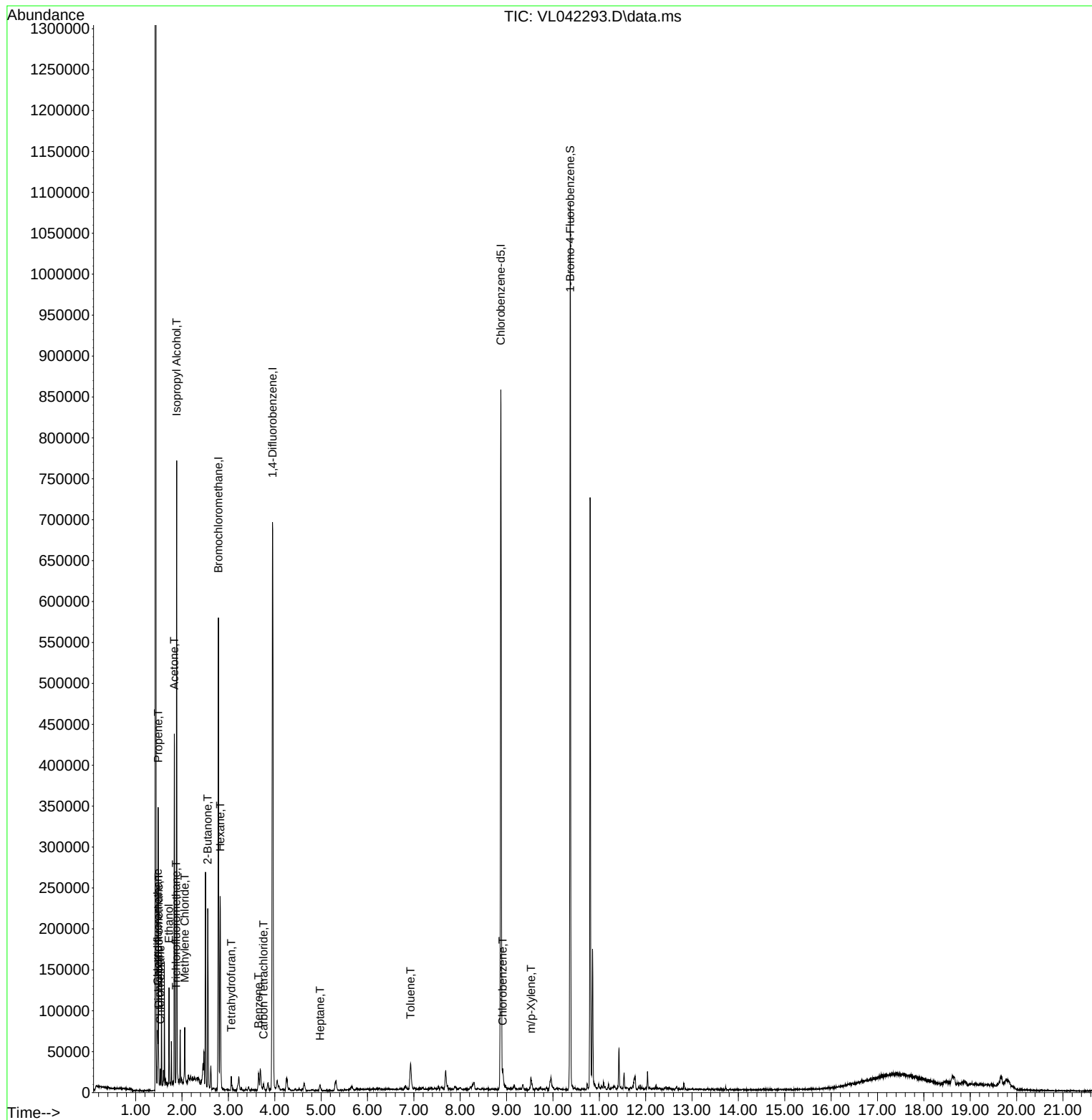
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042293.D
Acq On : 09 Apr 2025 15:15
Operator : SY/MD
Sample : Q1665-06
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

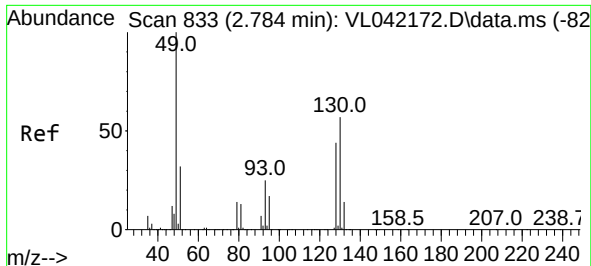
Instrument :
MSVOA_L
ClientSampleId :
IA-B9-1-3242025

Quant Time: Apr 10 01:45:06 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 02:00:52 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

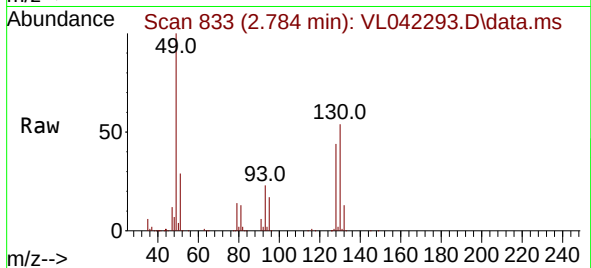
Reviewed By : Semsettin Yesilyurt 04/10/2025
Supervised By : Mahesh Dadoda 04/10/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. -0.000 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

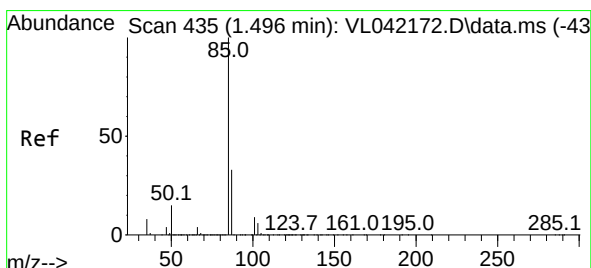
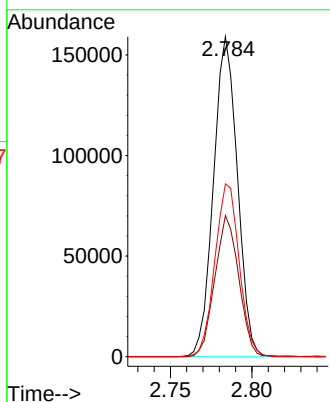
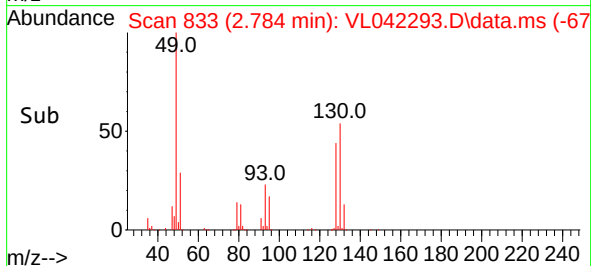
Instrument :
MSVOA_L
ClientSampleId :
IA-B9-1-3242025



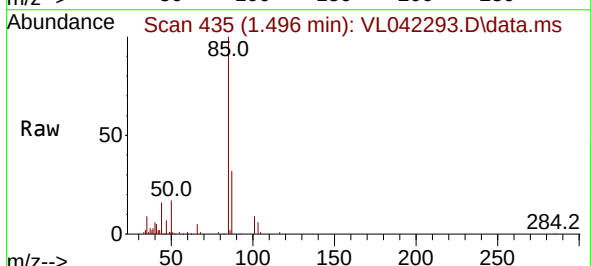
Tgt Ion: 49 Resp: 162172
Ion Ratio Lower Upper
49 100
128 44.1 22.9 68.5
130 55.0 28.8 86.4

Manual Integrations
APPROVED

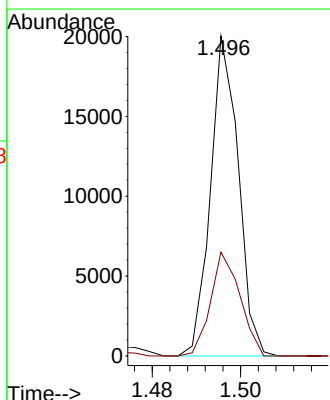
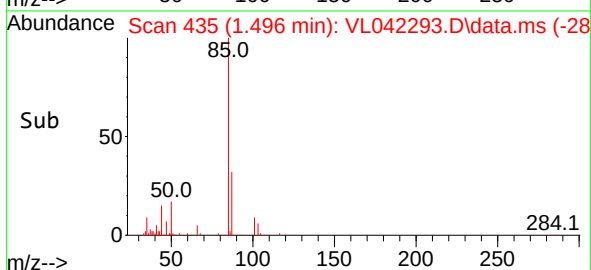
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

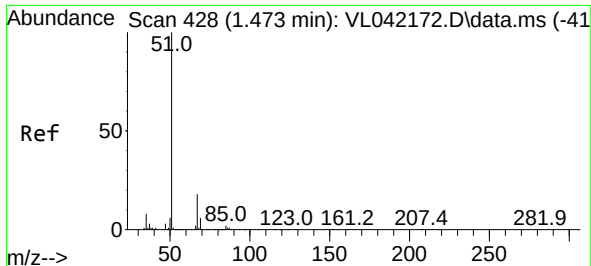


#2
Dichlorodifluoromethane
Concen: 0.366 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15



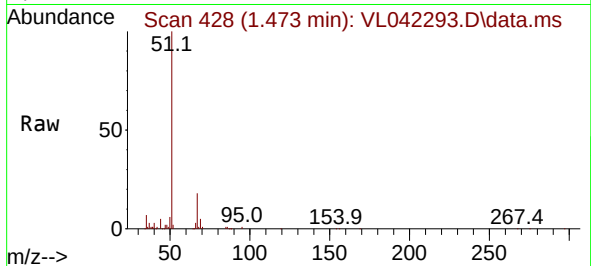
Tgt Ion: 85 Resp: 8768
Ion Ratio Lower Upper
85 100
87 32.5 26.1 39.1





#3
Chlorodifluoromethane
Concen: 0.897 ppbv m
RT: 1.473 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

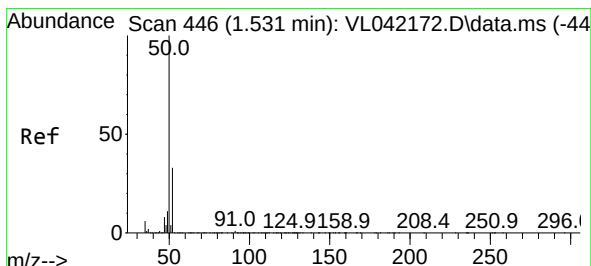
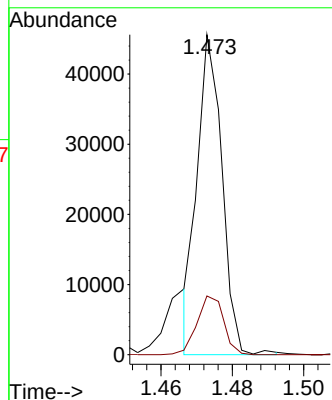
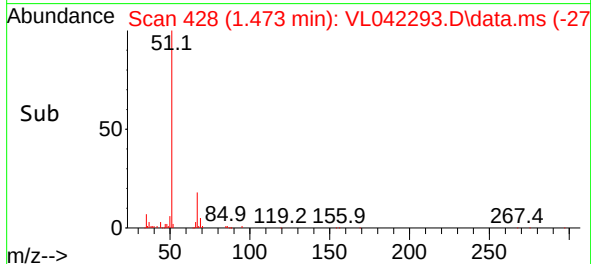
Instrument :
MSVOA_L
ClientSampleId :
IA-B9-1-3242025



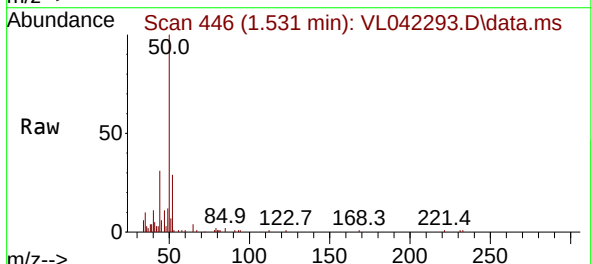
Tgt Ion: 51 Resp: 2194
Ion Ratio Lower Upper
51 100
67 19.8 15.0 22.6

Manual Integrations
APPROVED

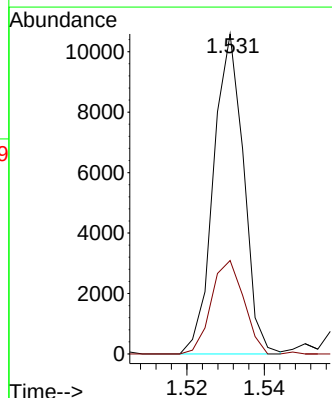
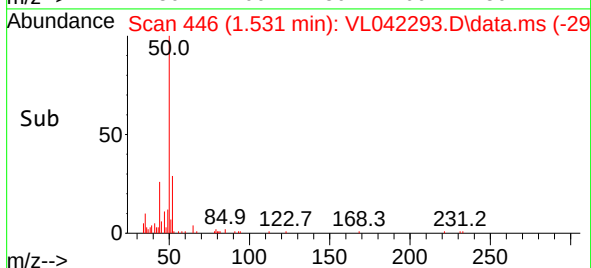
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

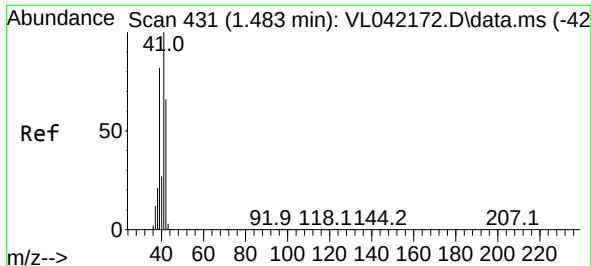


#4
Chloromethane
Concen: 0.584 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15



Tgt Ion: 50 Resp: 5713
Ion Ratio Lower Upper
50 100
52 29.2 26.1 39.1





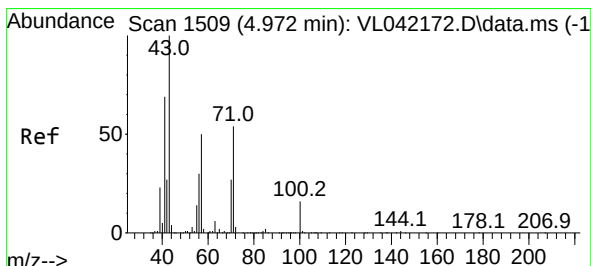
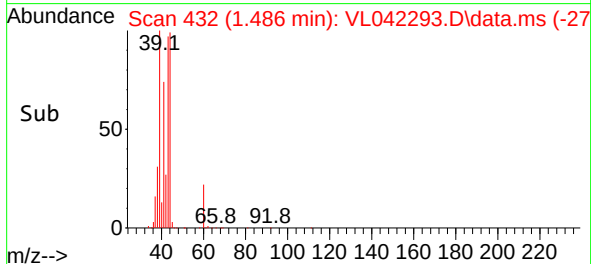
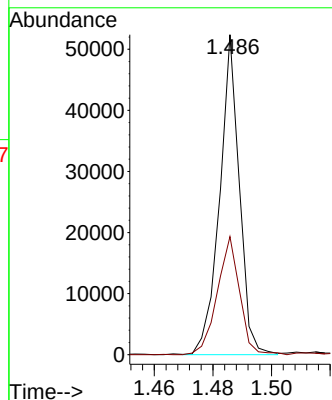
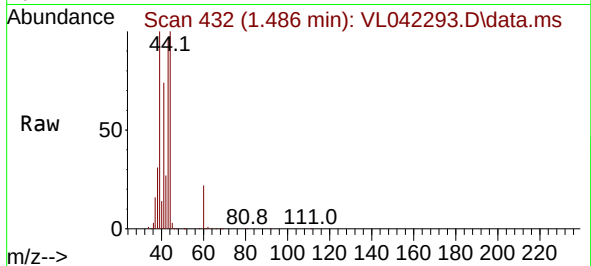
#9
Propene
Concen: 2.178 ppbv m
RT: 1.486 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

Instrument :
MSVOA_L
ClientSampleId :
IA-B9-1-3242025

Tgt Ion: 41 Resp: 2442
Ion Ratio Lower Upper
41 100
42 76.6 55.4 83.2

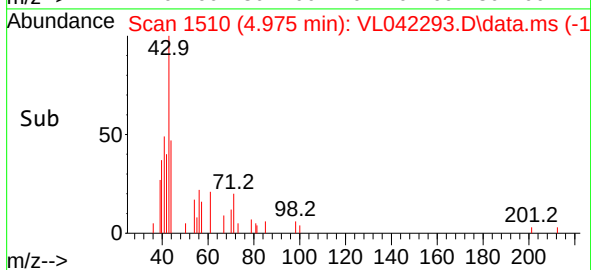
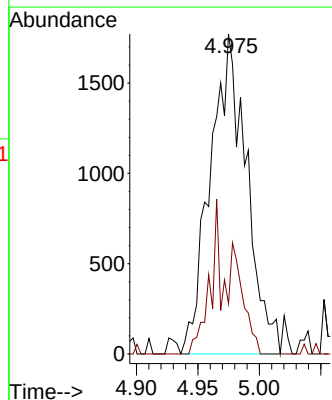
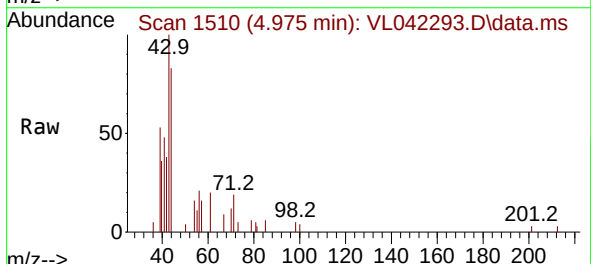
Manual Integrations
APPROVED

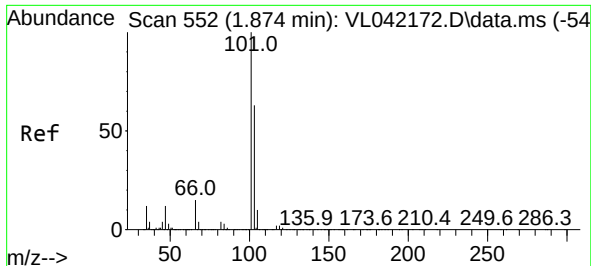
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#10
Heptane
Concen: 0.122 ppbv m
RT: 4.975 min Scan# 1510
Delta R.T. 0.003 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

Tgt Ion: 43 Resp: 3638
Ion Ratio Lower Upper
43 100
57 0.0 39.4 59.2#





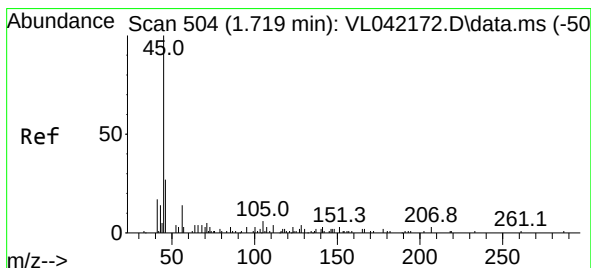
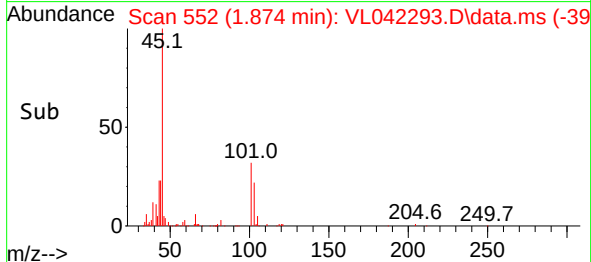
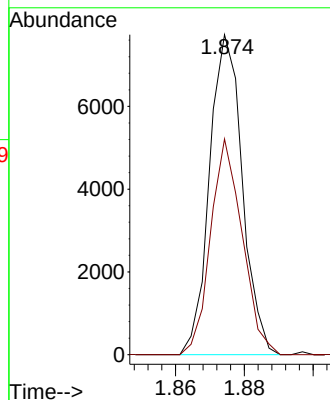
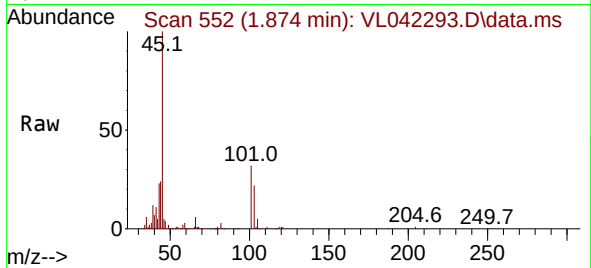
#11
Trichlorofluoromethane
Concen: 0.220 ppbv
RT: 1.874 min Scan# 5120
Delta R.T. -0.000 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

Instrument :
MSVOA_L
ClientSampleId :
IA-B9-1-3242025

Tgt Ion: 101 Resp: 5120
Ion Ratio Lower Upper
101 100
103 67.4 50.2 75.2

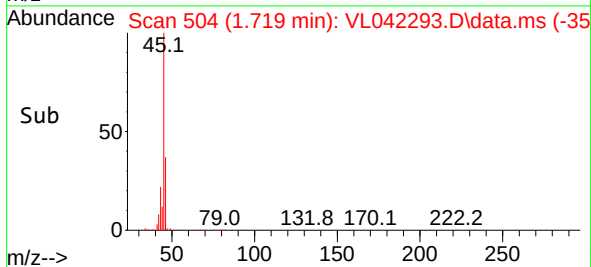
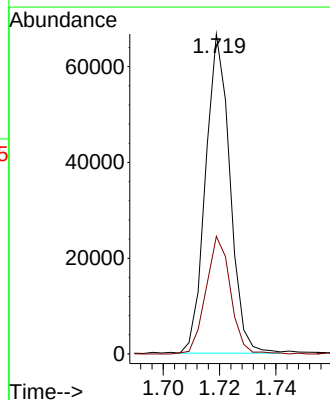
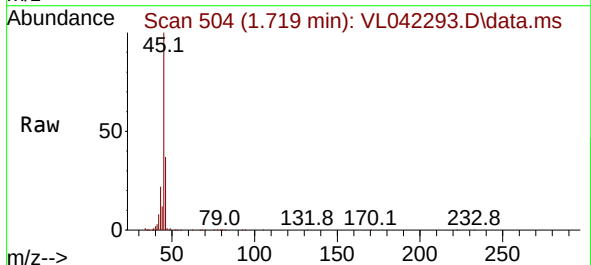
Manual Integrations
APPROVED

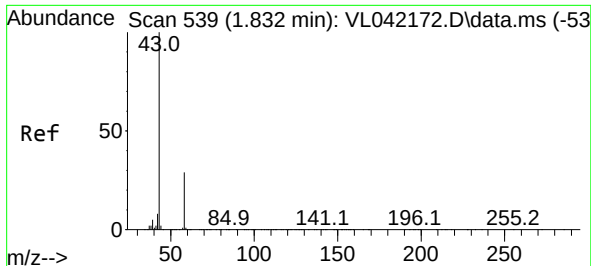
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#13
Ethanol
Concen: 37.833 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

Tgt Ion: 45 Resp: 40099
Ion Ratio Lower Upper
45 100
46 37.4 20.2 80.8





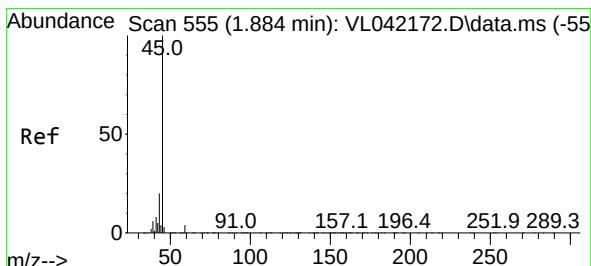
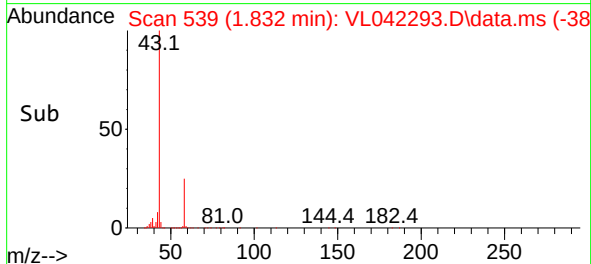
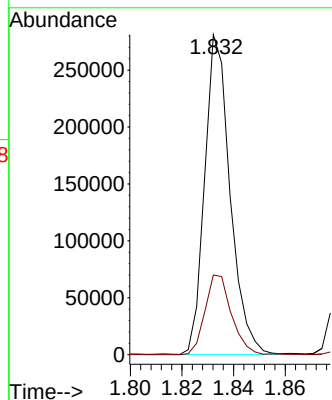
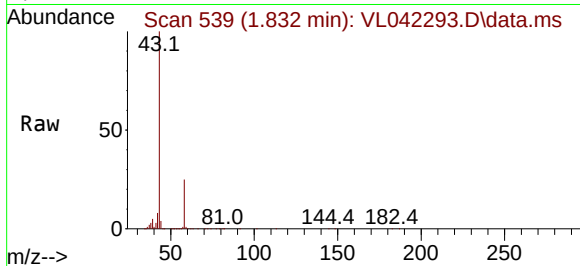
#15
Acetone
Concen: 8.467 ppbv
RT: 1.832 min Scan# 51
Delta R.T. -0.000 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

Instrument :
MSVOA_L
ClientSampleId :
IA-B9-1-3242025

Tgt Ion: 43 Resp: 19203
Ion Ratio Lower Upper
43 100
58 26.1 23.2 34.8

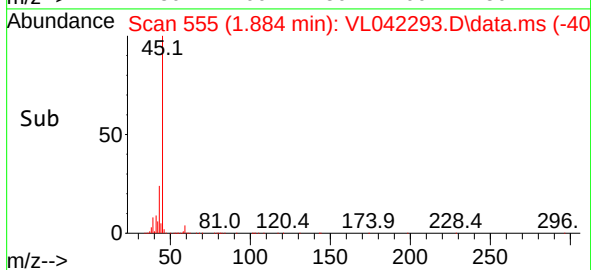
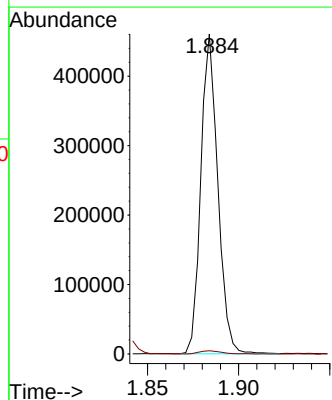
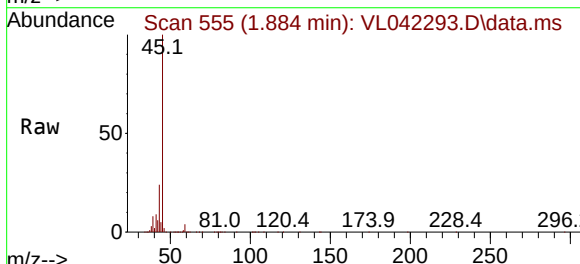
Manual Integrations
APPROVED

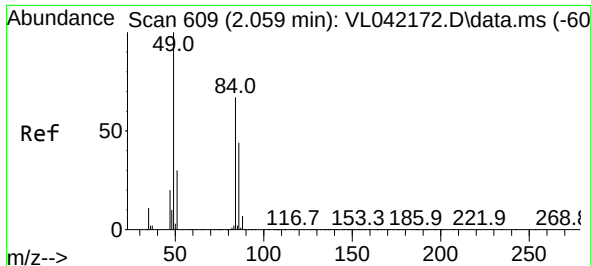
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#19
Isopropyl Alcohol
Concen: 23.353 ppbv
RT: 1.884 min Scan# 555
Delta R.T. -0.000 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

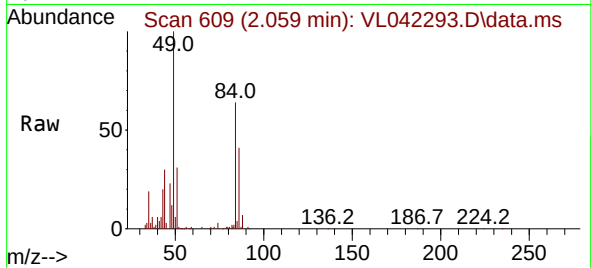
Tgt Ion: 45 Resp: 298845
Ion Ratio Lower Upper
45 100
58 1.3 36.9 55.3#





#20
Methylene Chloride
Concen: 1.095 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

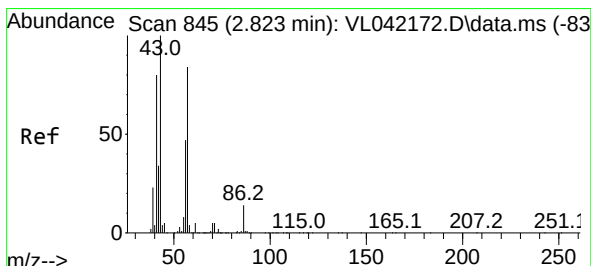
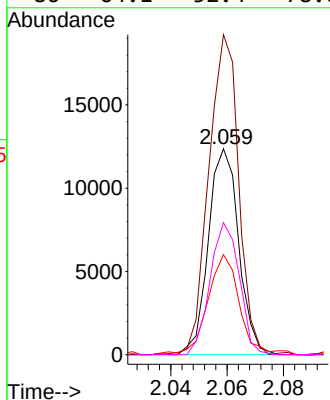
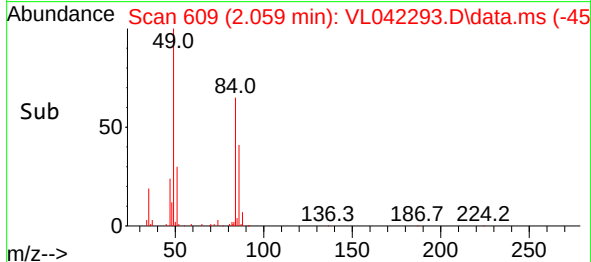
Instrument :
MSVOA_L
ClientSampleId :
IA-B9-1-3242025



Tgt Ion: 84	Resp: 924
Ion Ratio	Lower Upper
84 100	
49 154.7	120.2 180.4
51 47.8	37.4 56.0
86 64.1	52.4 78.6

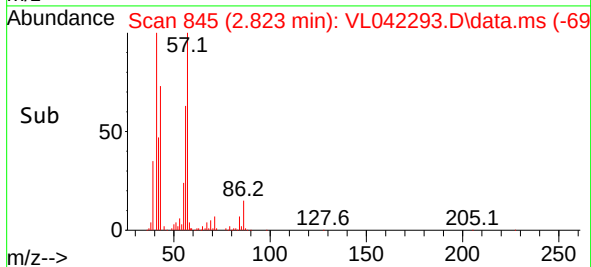
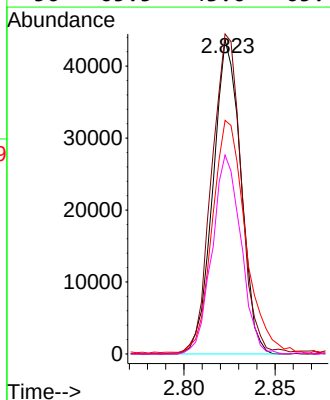
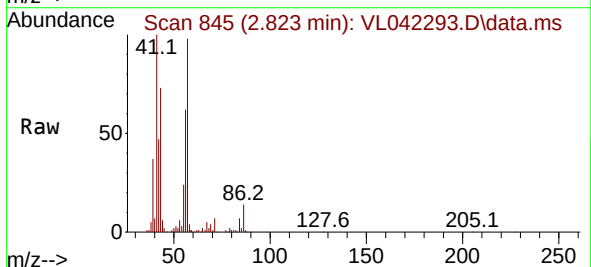
Manual Integrations
APPROVED

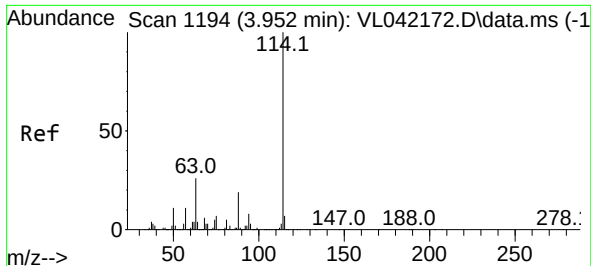
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#26
Hexane
Concen: 2.041 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.000 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

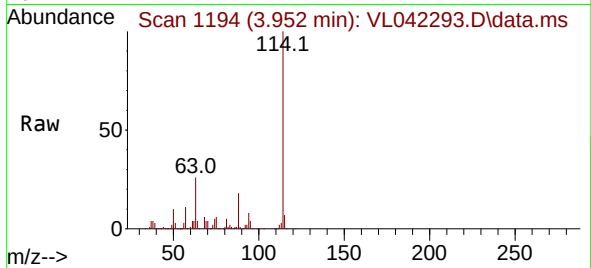
Tgt Ion: 57	Resp: 46406
Ion Ratio	Lower Upper
57 100	
41 108.6	76.6 114.8
43 89.9	207.8 311.8#
56 65.5	43.6 65.4#





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

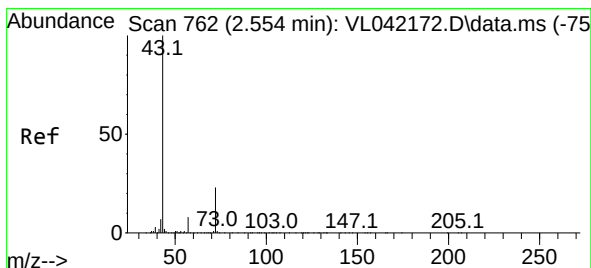
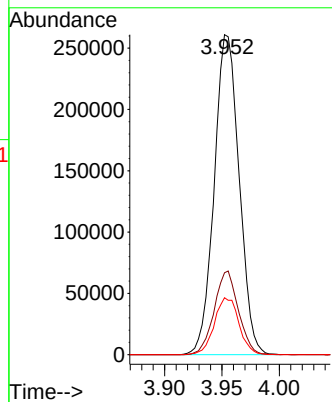
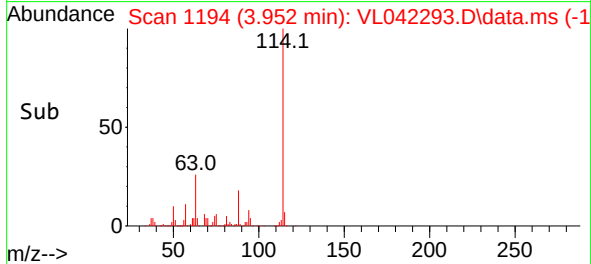
Instrument : MSVOA_L
ClientSampleId : IA-B9-1-3242025



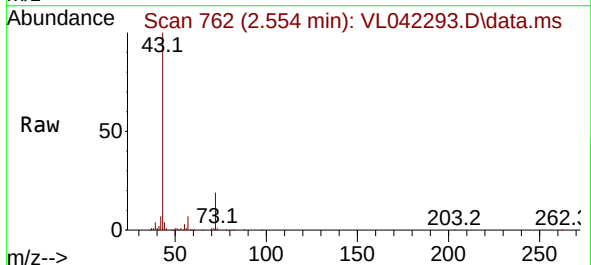
Tgt Ion:114 Resp: 39472
Ion Ratio Lower Upper
114 100
63 25.3 20.7 31.1
88 17.6 15.0 22.4

Manual Integrations
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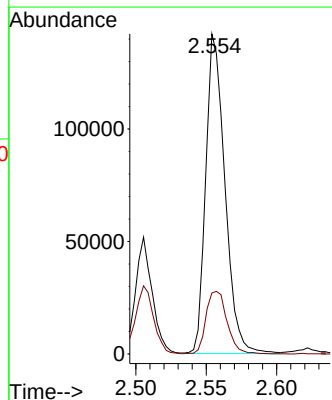
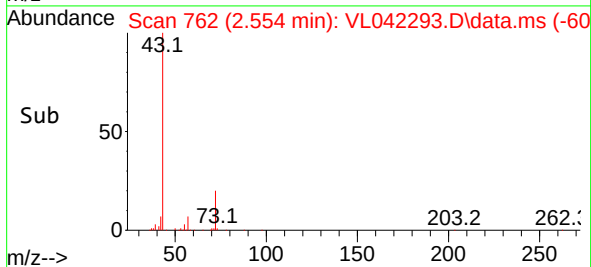
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

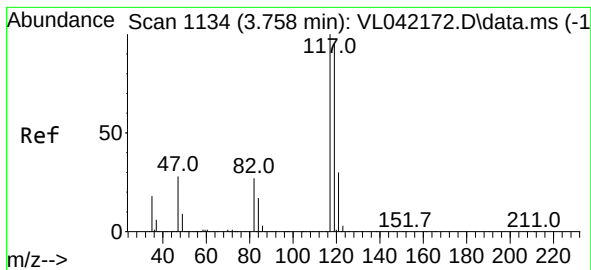


#34
2-Butanone
Concen: 4.715 ppbv
RT: 2.554 min Scan# 762
Delta R.T. -0.000 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15



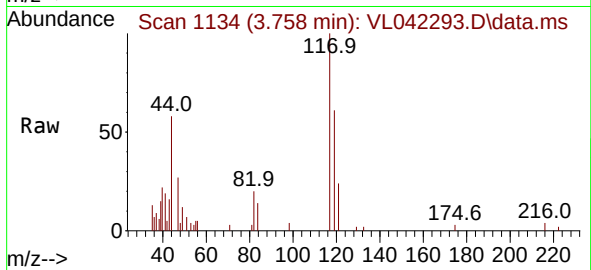
Tgt Ion: 43 Resp: 134955
Ion Ratio Lower Upper
43 100
72 21.5 18.2 27.2





#35
Carbon Tetrachloride
Concen: 0.078 ppbv m
RT: 3.758 min Scan# 1134
Delta R.T. -0.000 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

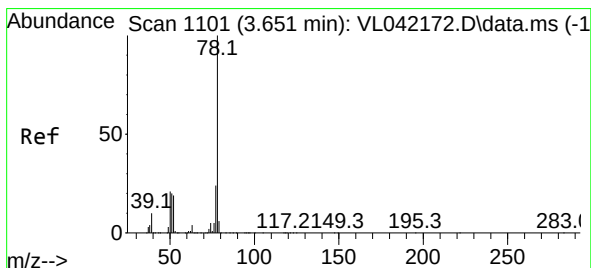
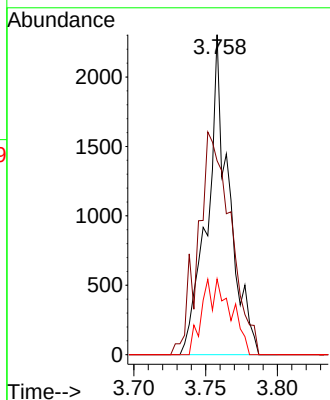
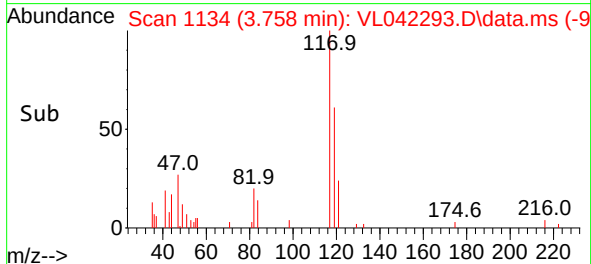
Instrument :
MSVOA_L
ClientSampleId :
IA-B9-1-3242025



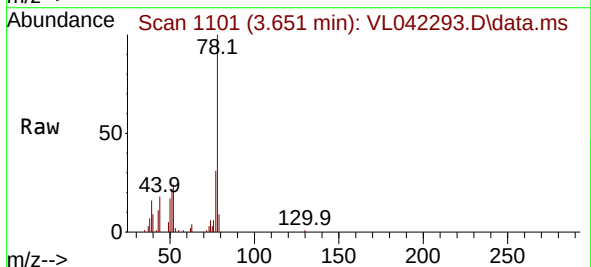
Tgt Ion: 117 Resp: 2420
Ion Ratio Lower Upper
117 100
119 60.6 76.2 114.2
121 23.6 24.2 36.4

Manual Integrations
APPROVED

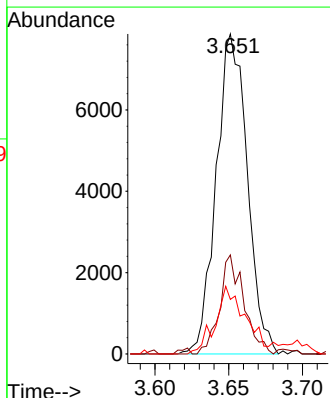
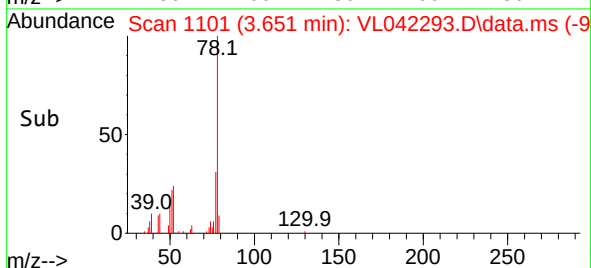
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

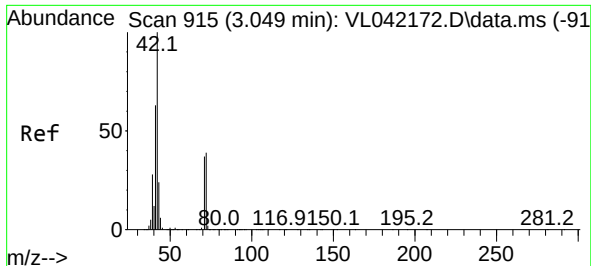


#36
Benzene
Concen: 0.294 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. -0.000 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15



Tgt Ion: 78 Resp: 11524
Ion Ratio Lower Upper
78 100
77 29.8 19.1 28.7
50 17.1 16.6 24.8





#41

Tetrahydrofuran

Concen: 0.334 ppbv m

RT: 3.062 min Scan# 91

Delta R.T. 0.013 min

Lab File: VL042293.D

Acq: 09 Apr 2025 15:15

Instrument :

MSVOA_L

ClientSampleId :

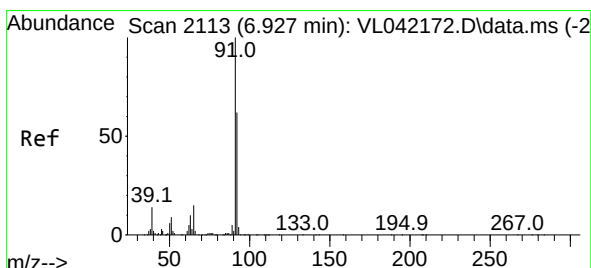
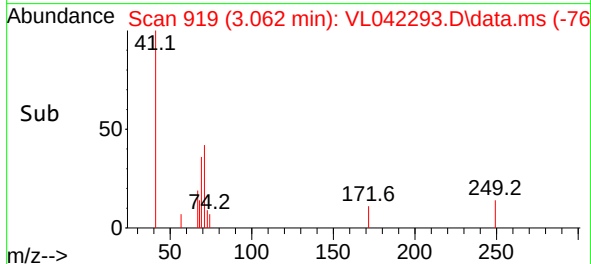
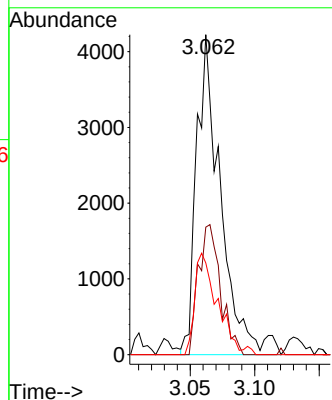
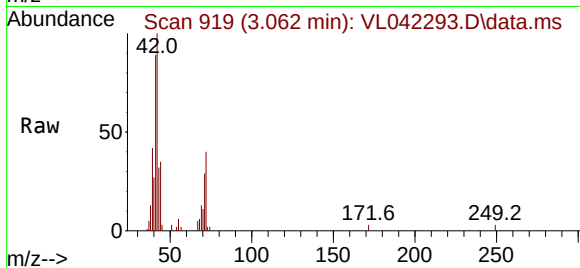
IA-B9-1-3242025

Tgt Ion: 42	Resp: 551
Ion Ratio	Lower Upper
42 100	
72 37.1	31.4 47.0
71 30.0	30.2 45.4

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#53

Toluene

Concen: 0.476 ppbv

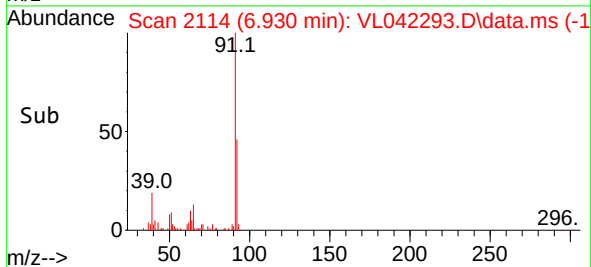
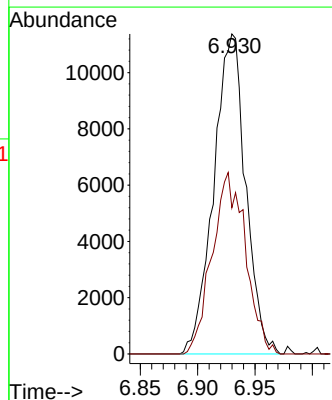
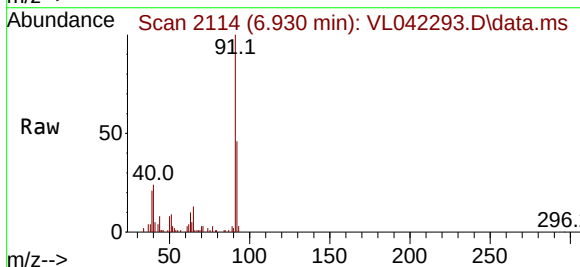
RT: 6.930 min Scan# 2114

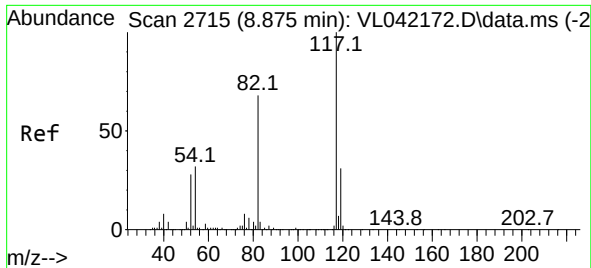
Delta R.T. 0.003 min

Lab File: VL042293.D

Acq: 09 Apr 2025 15:15

Tgt Ion: 91	Resp: 22070
Ion Ratio	Lower Upper
91 100	
92 59.2	48.4 72.6





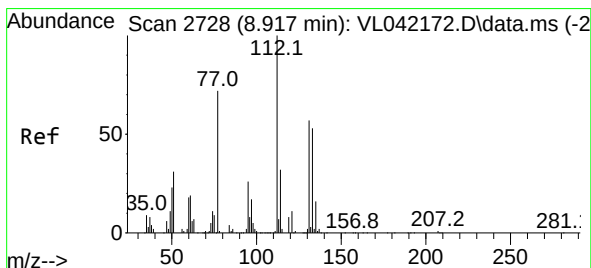
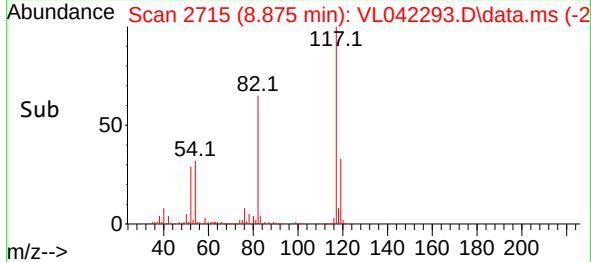
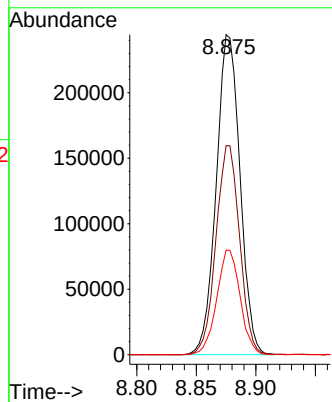
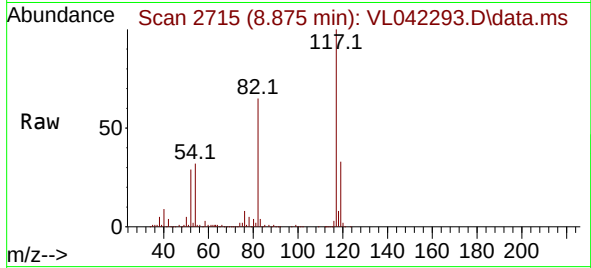
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. -0.000 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

Instrument :
MSVOA_L
ClientSampleId :
IA-B9-1-3242025

Tgt Ion:117 Resp: 338809
Ion Ratio Lower Upper
117 100
82 65.0 55.8 83.6
119 32.2 25.5 38.3

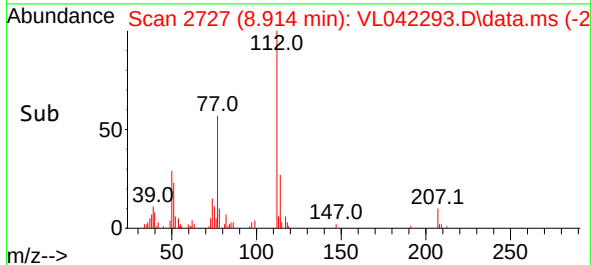
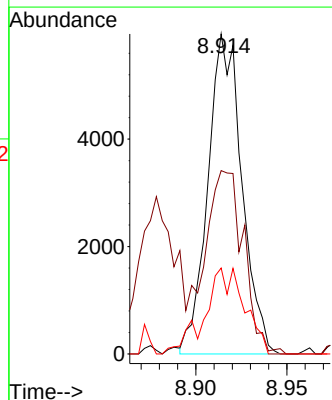
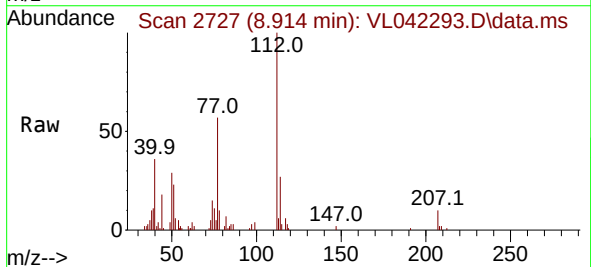
Manual Integrations
APPROVED

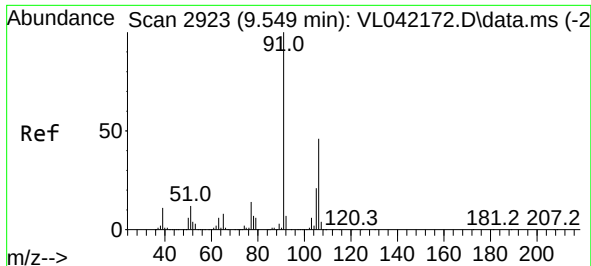
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#57
Chlorobenzene
Concen: 0.241 ppbv
RT: 8.914 min Scan# 2727
Delta R.T. -0.003 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

Tgt Ion:112 Resp: 7743
Ion Ratio Lower Upper
112 100
77 55.6 58.2 87.2#
114 26.9 29.1 35.5#





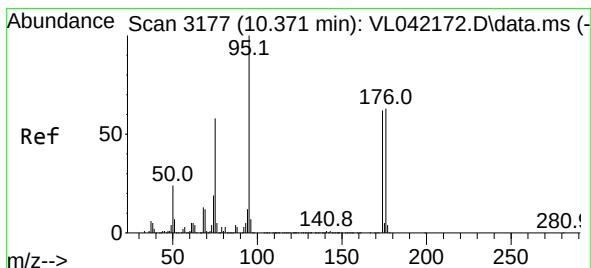
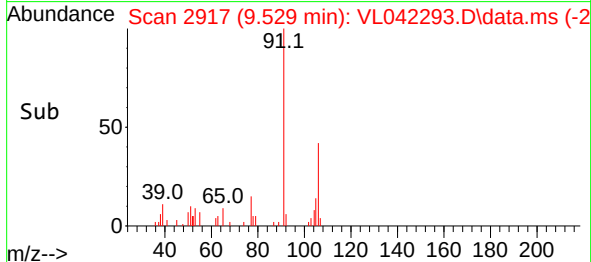
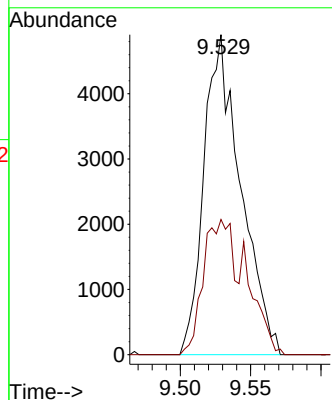
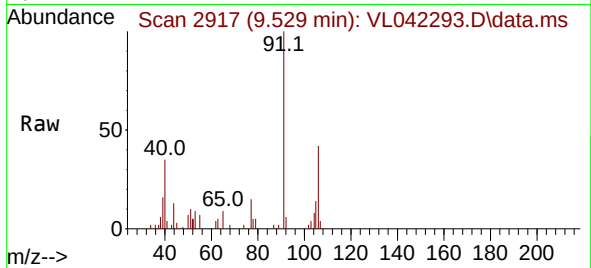
#59
m/p-Xylene
Concen: 0.186 ppbv
RT: 9.529 min Scan# 2923
Delta R.T. -0.020 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

Instrument : MSVOA_L
ClientSampleId : IA-B9-1-3242025

Tgt Ion: 91 Resp: 893
Ion Ratio Lower Upper
91 100
106 48.6 36.4 54.6

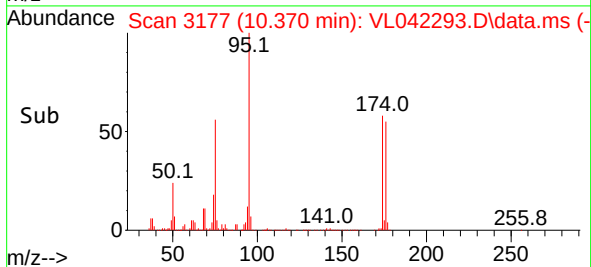
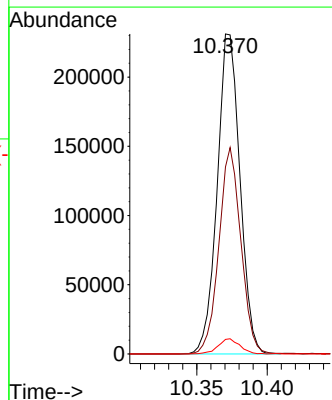
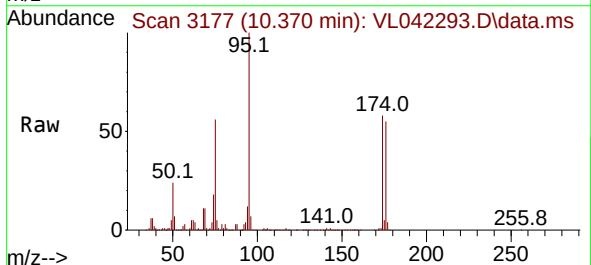
Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 9.362 ppbv
RT: 10.370 min Scan# 3177
Delta R.T. -0.000 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

Tgt Ion: 95 Resp: 260496
Ion Ratio Lower Upper
95 100
174 62.4 50.6 76.0
175 4.6 3.8 5.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042293.D
Acq On : 09 Apr 2025 15:15
Operator : SY/MD
Sample : Q1665-06
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B9-1-3242025

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\VL032725AIR.M

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

Signal : TIC: VL042293.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	409	414	420	rBV	4017627	4259013	100.00%	36.952%
2	1.473	423	428	430	rBV	65327	47061	1.10%	0.408%
3	1.486	430	432	435	rVB	301256	120629	2.83%	1.047%
4	1.557	449	454	458	rBV2	147440	77747	1.83%	0.675%
5	1.619	470	473	477	rVB	151441	76764	1.80%	0.666%
6	1.719	500	504	509	rBV	117390	70063	1.65%	0.608%
7	1.832	535	539	547	rBV	427013	342294	8.04%	2.970%
8	1.884	547	555	567	rVV	760467	514963	12.09%	4.468%
9	1.962	575	579	584	rVB	64942	43543	1.02%	0.378%
10	2.059	600	609	620	rBV3	67970	63176	1.48%	0.548%
11	2.505	741	747	756	rVB2	262854	238162	5.59%	2.066%
12	2.554	756	762	774	rVB	219238	210809	4.95%	1.829%
13	2.784	824	833	840	rBV	577319	600058	14.09%	5.206%
14	2.823	840	845	856	rVB2	234561	264482	6.21%	2.295%
15	3.952	1181	1194	1206	rBV	693894	1051476	24.69%	9.123%
16	6.930	2100	2114	2129	rBV2	32120	73043	1.72%	0.634%
17	8.875	2702	2715	2725	rBV	854795	1196039	28.08%	10.377%
18	10.374	3164	3178	3191	rBV	1083409	1235983	29.02%	10.724%
19	10.801	3297	3310	3320	rBV	722340	786914	18.48%	6.827%
20	10.853	3320	3326	3335	rVB	165665	197699	4.64%	1.715%
21	11.422	3496	3502	3512	rVB4	47525	55874	1.31%	0.485%

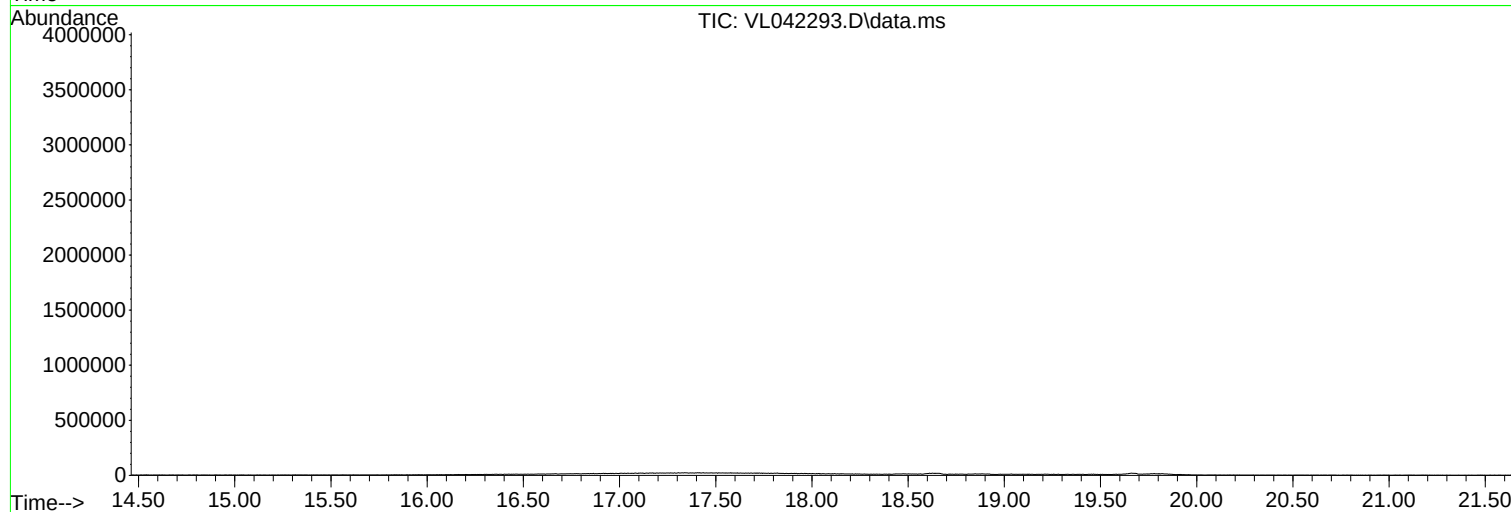
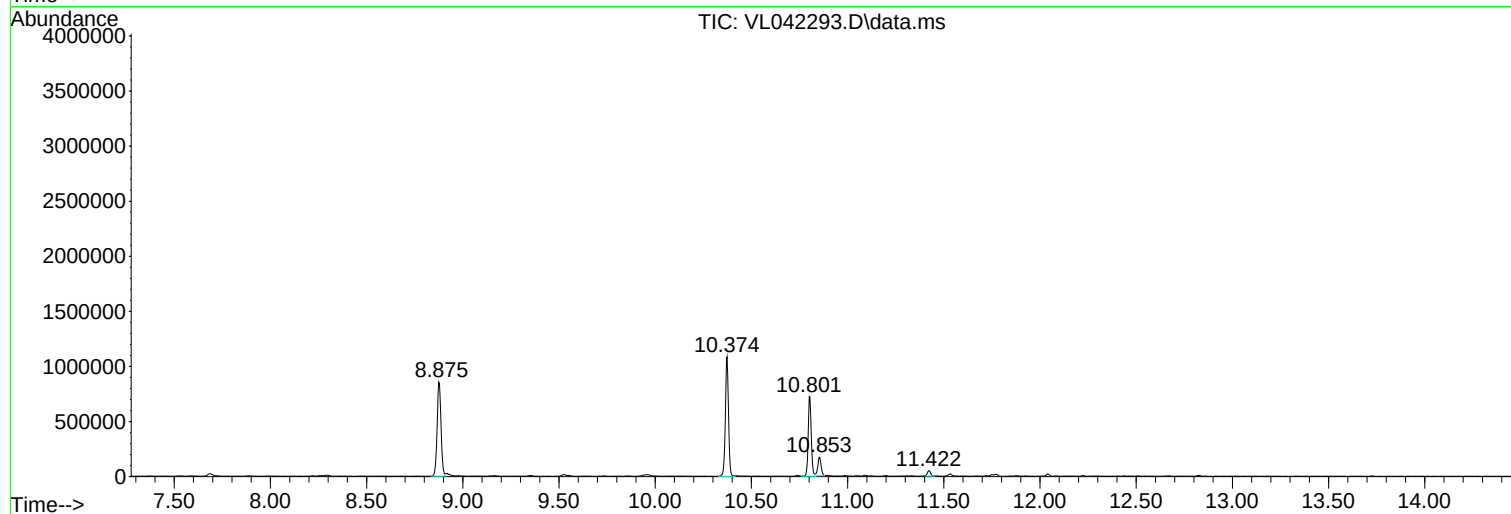
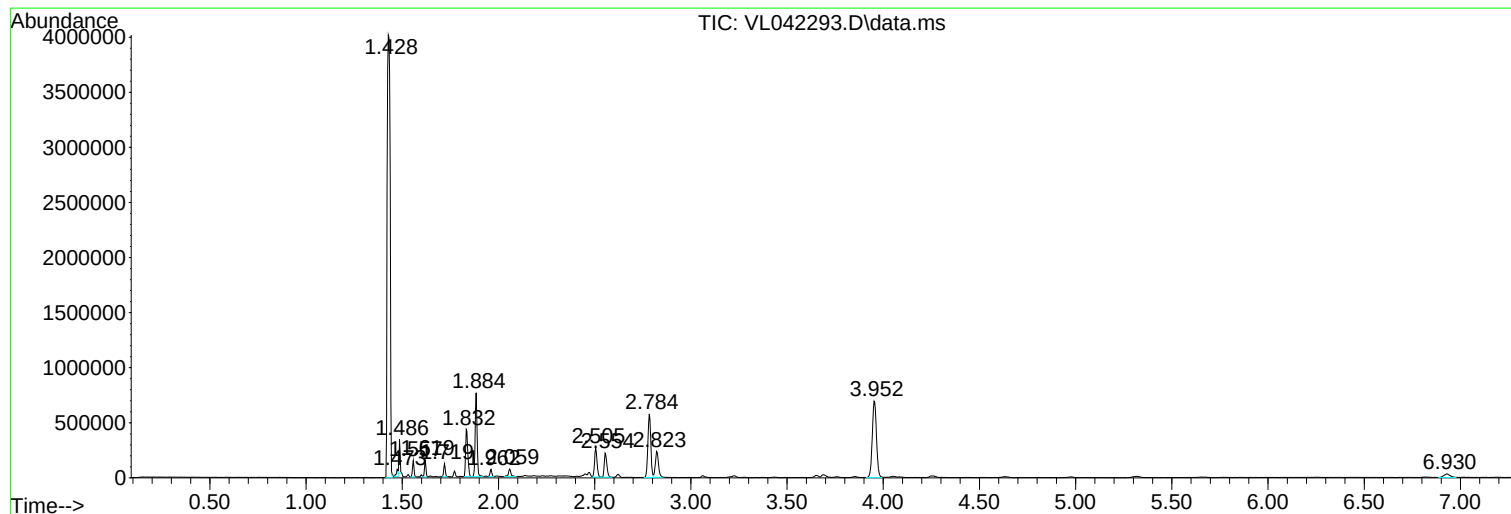
Sum of corrected areas: 11525792

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042293.D
Acq On : 09 Apr 2025 15:15
Operator : SY/MD
Sample : Q1665-06
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B9-1-3242025

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

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042293.D
Acq On : 09 Apr 2025 15:15
Operator : SY/MD
Sample : Q1665-06
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B9-1-3242025

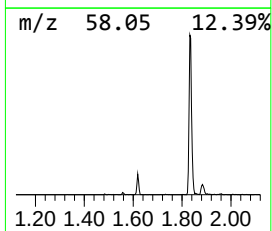
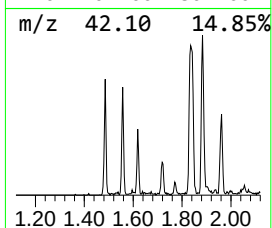
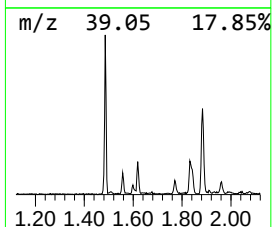
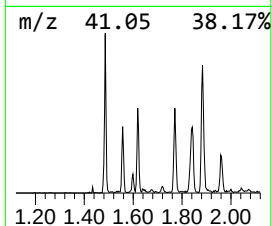
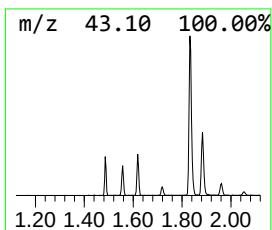
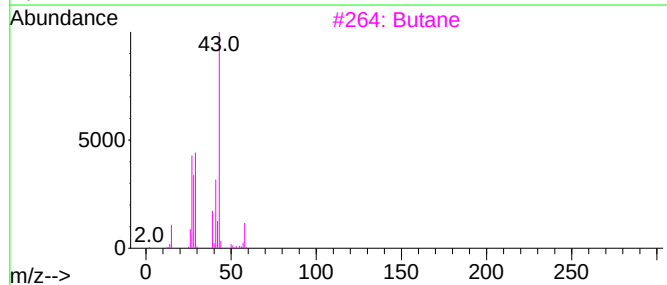
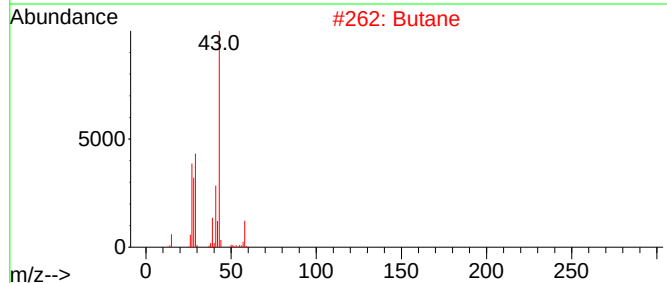
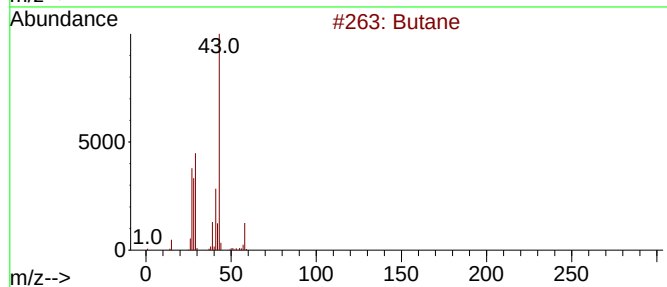
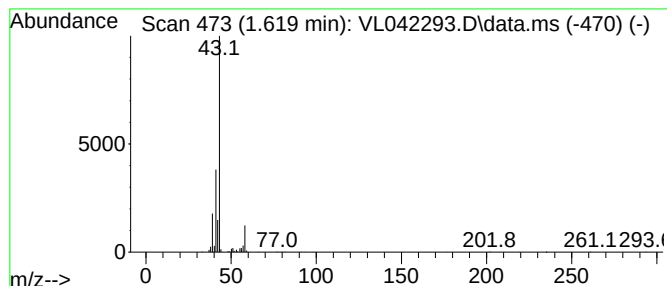
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 1 Butane Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.619	1.28 ppbv	76764	Bromochloromethane	2.784

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	59
5	Acetone			58	C3H6O	000067-64-1	5



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042293.D
Acq On : 09 Apr 2025 15:15
Operator : SY/MD
Sample : Q1665-06
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B9-1-3242025

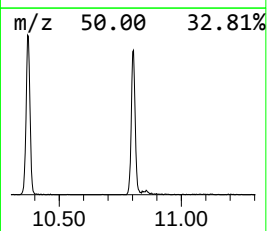
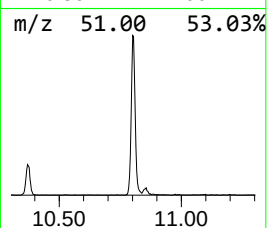
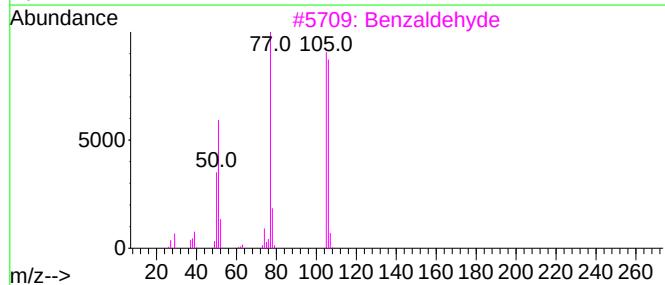
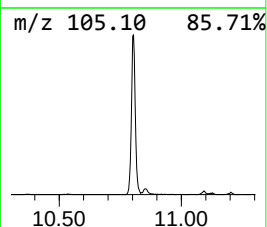
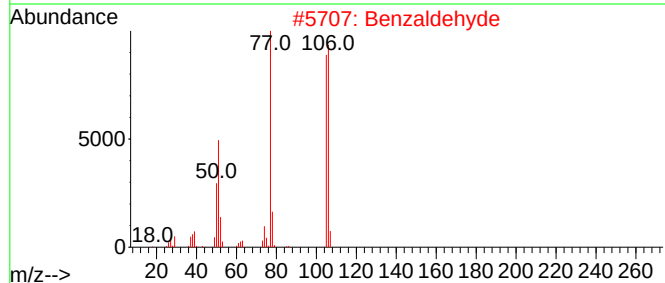
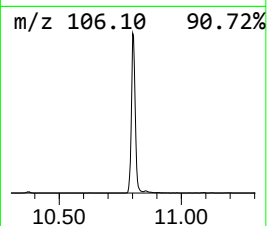
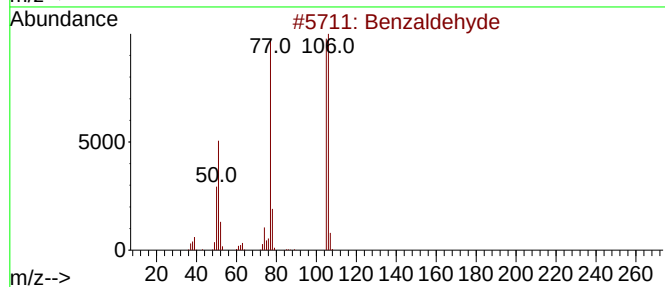
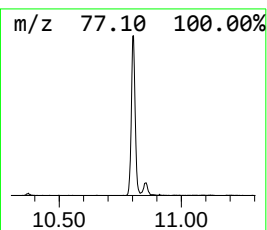
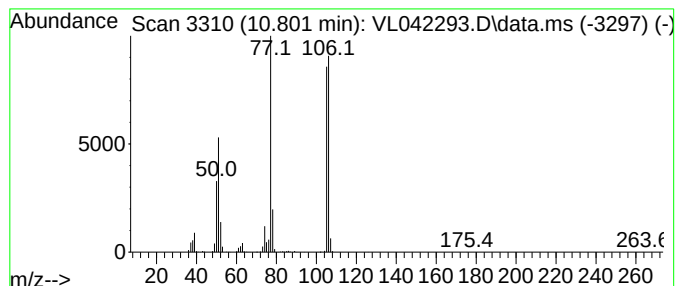
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 2 Benzaldehyde Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.801	6.58 ppbv	786914	Chlorobenzene-d5	8.875

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzaldehyde	106	C7H6O	000100-52-7	97
2			Benzaldehyde	106	C7H6O	000100-52-7	96
3			Benzaldehyde	106	C7H6O	000100-52-7	96
4			Benzaldehyde	106	C7H6O	000100-52-7	95
5			Benzaldehyde	106	C7H6O	000100-52-7	91



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042293.D
Acq On : 09 Apr 2025 15:15
Operator : SY/MD
Sample : Q1665-06
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

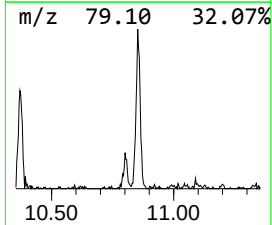
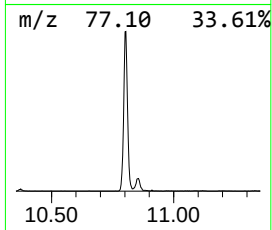
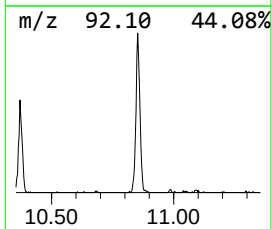
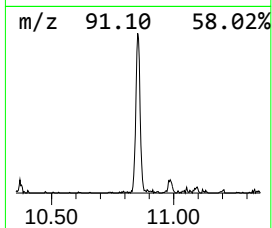
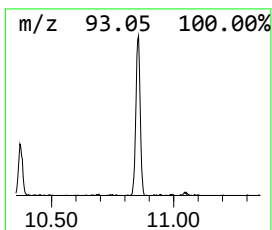
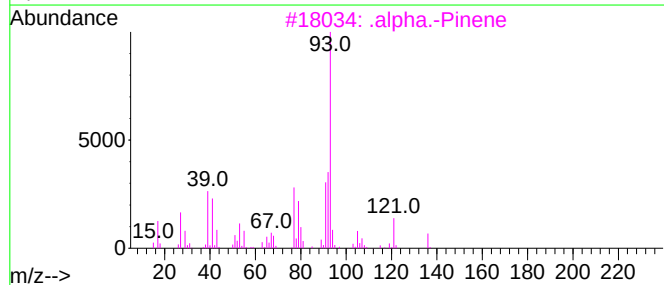
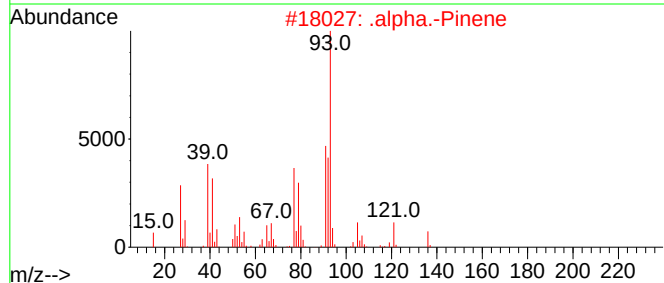
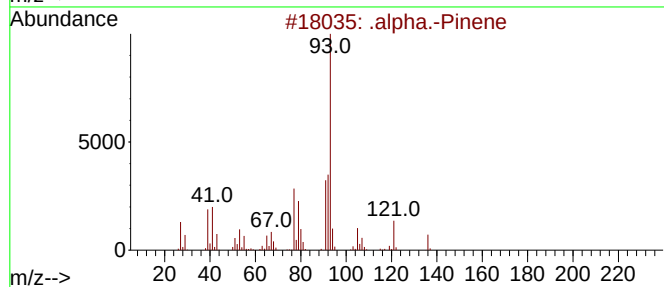
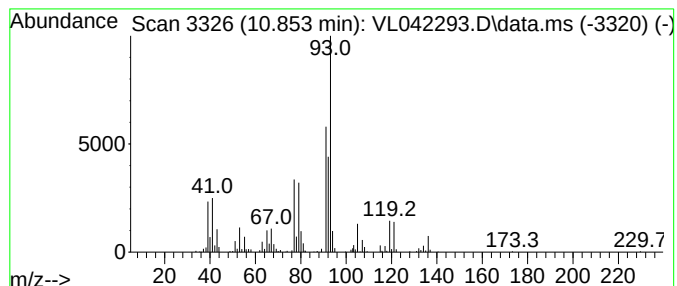
Instrument :
MSVOA_L
ClientSampleId :
IA-B9-1-3242025

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

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

Peak Number 3 .alpha.-Pinene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.	
10.853	1.65 ppbv	197699	Chlorobenzene-d5	8.875	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.alpha.-Pinene	136	C10H16	000080-56-8	97
2	.alpha.-Pinene	136	C10H16	000080-56-8	93
3	.alpha.-Pinene	136	C10H16	000080-56-8	91
4	(1R)-2,6,6-Trimethylbicyclo[3.1....	136	C10H16	007785-70-8	90
5	Tricyclo[2.2.1.0(2,6)]heptane, 1...	136	C10H16	000488-97-1	87



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042293.D
Acq On : 09 Apr 2025 15:15
Operator : SY/MD
Sample : Q1665-06
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B9-1-3242025

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

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	1.619	1.3	ppbv	76764	1	2.784	600058	10.0
Benzaldehyde	10.801	6.6	ppbv	786914	3	8.875	1196040	10.0
.alpha.-Pinene	10.853	1.6	ppbv	197699	3	8.875	1196040	10.0

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/24/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	03/26/25
Client Sample ID:	IA-DUP-2-3242025	SDG No.:	Q1665
Lab Sample ID:	Q1665-08	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
VL042294.D	1		04/09/25 15:50	VL040925

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.38	1.88	J	1.04	2.47	ug/m3
74-87-3	Chloromethane	1.10	2.27		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	0.21	0.62	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
75-65-0	tert-Butyl alcohol	0.19	0.58	U	0.58	1.52	ug/m3
142-82-5	Heptane	0.11	0.45	U	0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
67-64-1	Acetone	11.6	27.6		0.57	1.19	ug/m3
75-15-0	Carbon Disulfide	0.16	0.50	U	0.50	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.12	0.43	U	0.43	1.80	ug/m3
75-09-2	Methylene Chloride	1.00	3.47		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	3.30	9.73		0.35	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.13	0.82		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	0.32	1.56	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	0.10	0.47	U	0.47	2.34	ug/m3
71-43-2	Benzene	0.17	0.54	J	0.29	1.60	ug/m3
107-06-2	1,2-Dichloroethane	0.090	0.36	U	0.36	2.02	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.11	0.51	U	0.51	2.31	ug/m3
75-27-4	Bromodichloromethane	0.080	0.54	U	0.54	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.090	0.37	U	0.37	2.05	ug/m3
108-88-3	Toluene	0.11	0.41	U	0.41	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.070	0.38	U	0.38	2.73	ug/m3

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/24/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	03/26/25
Client Sample ID:	IA-DUP-2-3242025	SDG No.:	Q1665
Lab Sample ID:	Q1665-08	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
VL042294.D	1		04/09/25 15:50	VL040925

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.070	0.60	U	0.60	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.070	0.54	U	0.54	0.77	ug/m3
127-18-4	Tetrachloroethene	0.020	0.14	U	0.14	0.20	ug/m3
108-90-7	Chlorobenzene	0.080	0.37	U	0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	0.12	0.52	U	0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	0.21	0.91	U	0.91	4.34	ug/m3
95-47-6	o-Xylene	0.12	0.52	U	0.52	2.17	ug/m3
100-42-5	Styrene	0.11	0.47	U	0.47	2.13	ug/m3
75-25-2	Bromoform	0.060	0.62	U	0.62	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.010	0.070	U	0.070	0.21	ug/m3
95-49-8	2-Chlorotoluene	0.11	0.57	U	0.57	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.11	0.54	U	0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.080	0.39	U	0.39	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.050	0.30	U	0.30	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.090	0.67	U	0.67	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.090	0.96	U	0.96	5.33	ug/m3
106-99-0	1,3-Butadiene	0.13	0.29	U	0.29	1.11	ug/m3
91-20-3	Naphthalene	0.080	0.42	U	0.42	0.52	ug/m3
622-96-8	4-Ethyltoluene	0.12	0.59	U	0.59	2.46	ug/m3
110-54-3	Hexane	0.94	3.31		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	9.10		70 (65) - 130 (135)	91%	SPK: 10
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INTERNAL STANDARDS

74-97-5	Bromochloromethane	159000	2.787
540-36-3	1,4-Difluorobenzene	385000	3.959
3114-55-4	Chlorobenzene-d5	315000	8.882

TENTATIVE IDENTIFIED COMPOUNDS

75-45-6	Chlorodifluoromethane	0.96	J	1.48	ppbv
115-07-1	Propene	2.40	J	1.49	ppbv
000106-97-8	Butane	1.30	J	1.62	ppbv

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/24/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	03/26/25
Client Sample ID:	IA-DUP-2-3242025	SDG No.:	Q1665
Lab Sample ID:	Q1665-08	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
VL042294.D	1		04/09/25 15:50	VL040925

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
64-17-5	Ethanol	34.2		J		1.72	ppbv
67-63-0	Isopropyl Alcohol	17.9		J		1.89	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\VL040925\
 Data File : VL042294.D
 Acq On : 09 Apr 2025 15:50
 Operator : SY/MD
 Sample : Q1665-08
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-DUP-2-3242025

Quant Time: Apr 10 01:45:44 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025
 QLast Update : Fri Mar 28 02:00:52 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 04/10/2025
 Supervised By : Mahesh Dadoda 04/10/2025

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

Internal Standards						
1) Bromochloromethane	2.787	49	159184	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	384747	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	314874	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	236151	9.133	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	91.300%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	9013	0.383	ppbv	100
3) Chlorodifluoromethane	1.476	51	22919m	0.955	ppbv	
4) Chloromethane	1.534	50	10945	1.139	ppbv	99
9) Propene	1.489	41	26110m	2.372	ppbv	
11) Trichlorofluoromethane	1.877	101	5632	0.246	ppbv	99
13) Ethanol	1.722	45	35576	34.196	ppbv	82
15) Acetone	1.835	43	257522	11.567	ppbv	96
17) tert-Butyl alcohol	2.046	59	3101m	0.112	ppbv	
19) Isopropyl Alcohol	1.887	45	224606	17.881	ppbv #	33
20) Methylene Chloride	2.062	84	8683	1.047	ppbv #	84
26) Hexane	2.829	57	20910	0.937	ppbv #	31
29) Chloroform	2.848	83	10374	0.318	ppbv	96
34) 2-Butanone	2.560	43	91945	3.296	ppbv	97
35) Carbon Tetrachloride	3.764	117	3816m	0.127	ppbv	
36) Benzene	3.661	78	6378m	0.167	ppbv	
41) Tetrahydrofuran	3.069	42	3356m	0.209	ppbv	

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

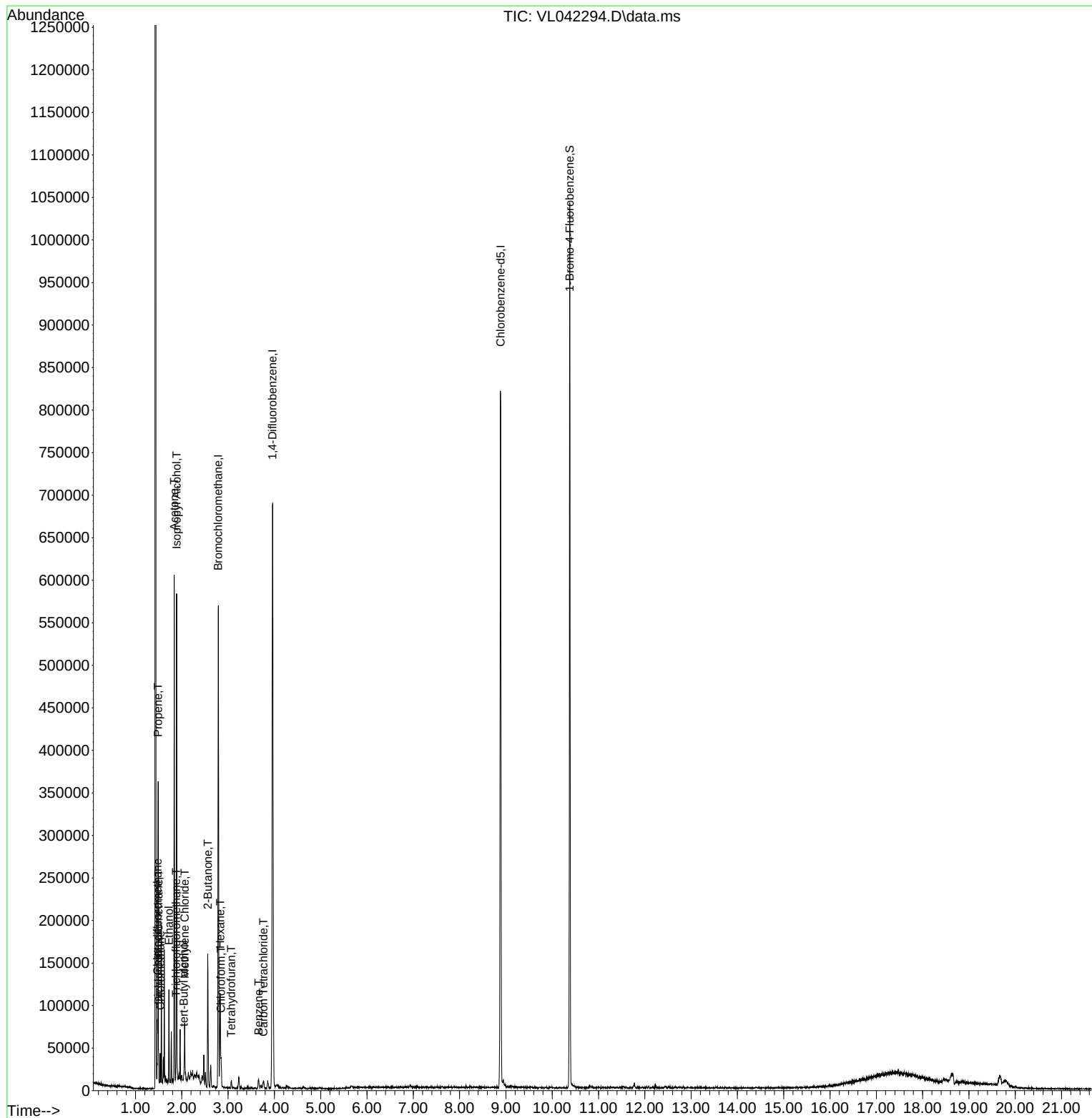
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Acq On : 09 Apr 2025 15:50
Operator : SY/MD
Sample : Q1665-08
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

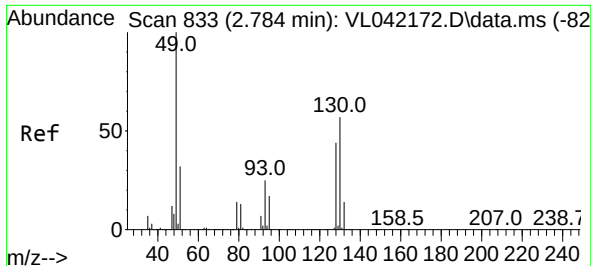
Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-2-3242025

Quant Time: Apr 10 01:45:44 2025
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

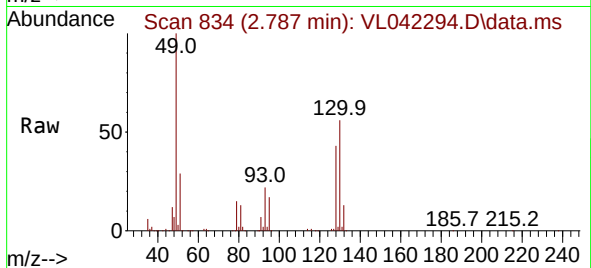
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042294.D
Acq: 09 Apr 2025 15:50

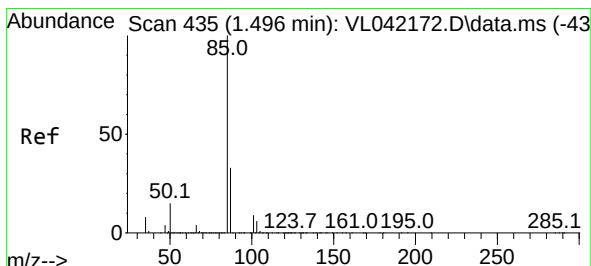
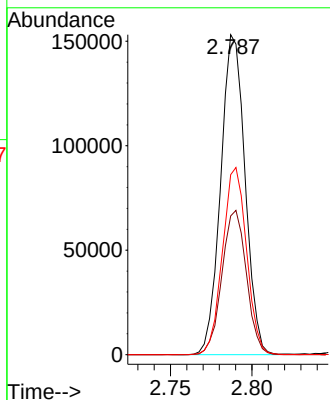
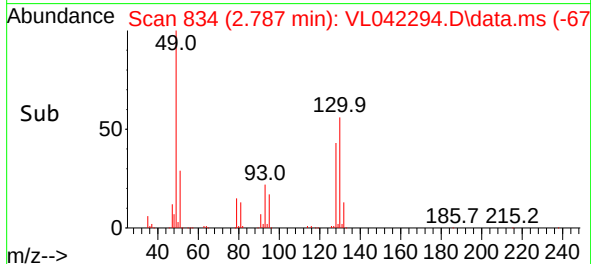
Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-2-3242025



Tgt Ion: 49 Resp: 159184
Ion Ratio Lower Upper
49 100
128 45.2 22.9 68.5
130 57.8 28.8 86.4

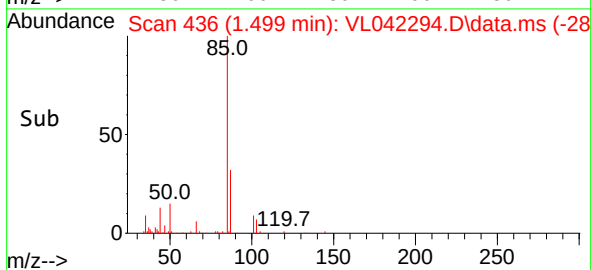
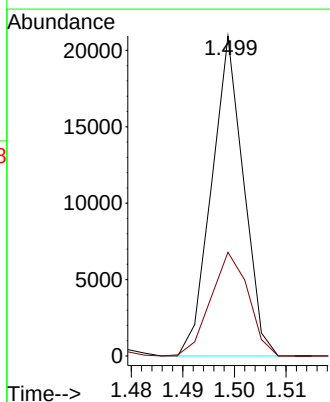
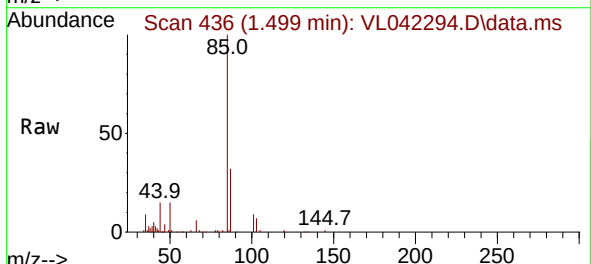
Manual Integrations
APPROVED

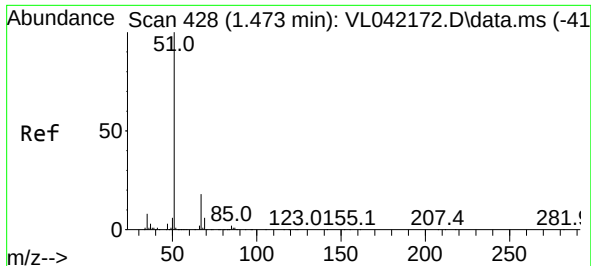
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#2
Dichlorodifluoromethane
Concen: 0.383 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL042294.D
Acq: 09 Apr 2025 15:50

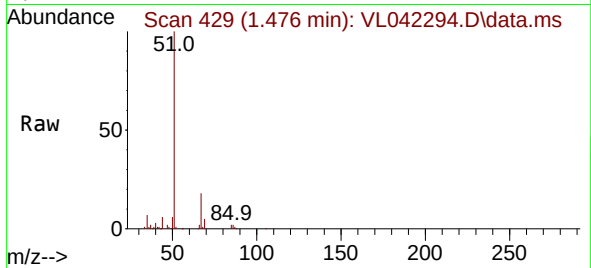
Tgt Ion: 85 Resp: 9013
Ion Ratio Lower Upper
85 100
87 32.4 26.1 39.1





#3
Chlorodifluoromethane
Concen: 0.955 ppbv m
RT: 1.476 min Scan# 428
Delta R.T. 0.003 min
Lab File: VL042294.D
Acq: 09 Apr 2025 15:50

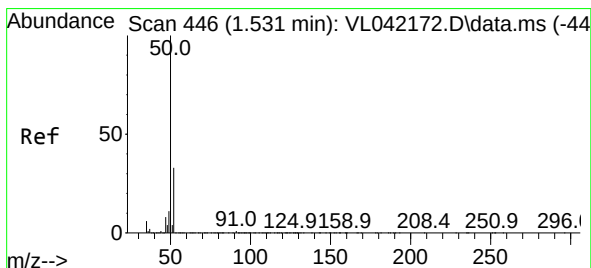
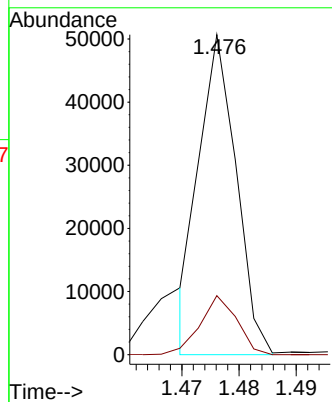
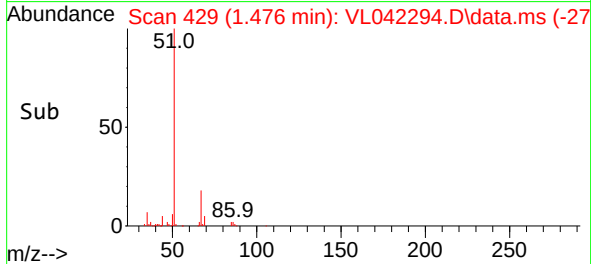
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MSVOA_L
ClientSampleId :
IA-DUP-2-3242025



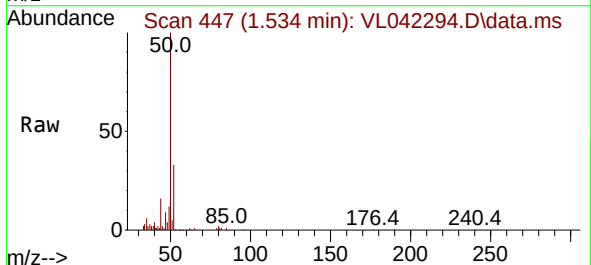
Tgt Ion: 51 Resp: 22919
Ion Ratio Lower Upper
51 100
67 18.4 15.0 22.6

Manual Integrations
APPROVED

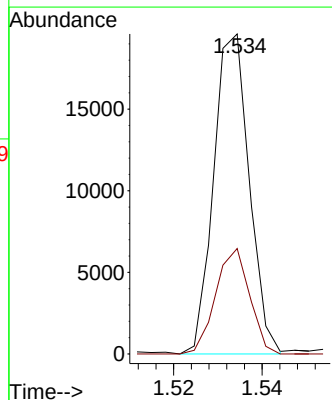
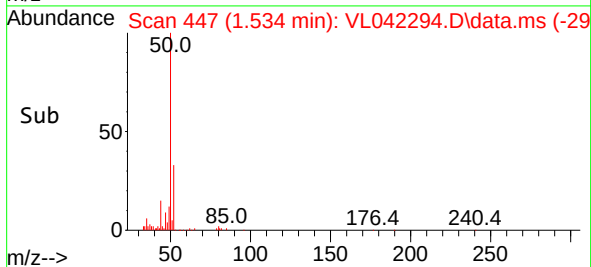
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

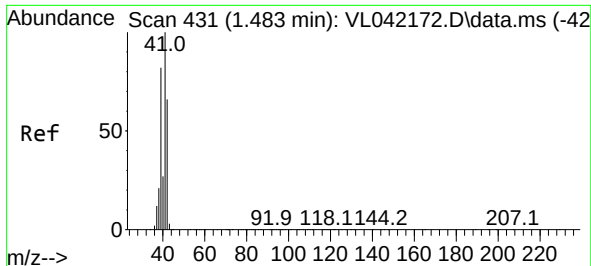


#4
Chloromethane
Concen: 1.139 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042294.D
Acq: 09 Apr 2025 15:50



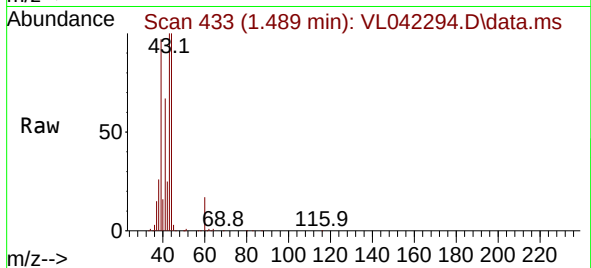
Tgt Ion: 50 Resp: 10945
Ion Ratio Lower Upper
50 100
52 32.9 26.1 39.1





#9
Propene
Concen: 2.372 ppbv m
RT: 1.489 min Scan# 41
Delta R.T. 0.006 min
Lab File: VL042294.D
Acq: 09 Apr 2025 15:50

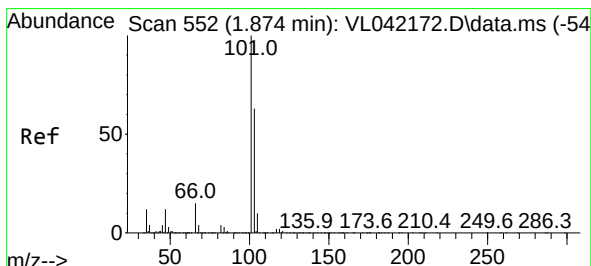
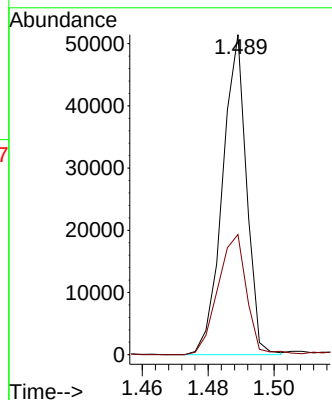
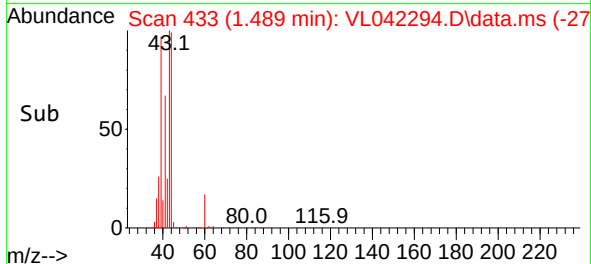
Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-2-3242025



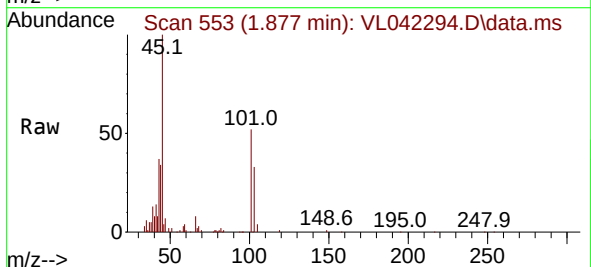
Tgt Ion: 41 Resp: 26110
Ion Ratio Lower Upper
41 100
42 55.8 55.4 83.2

Manual Integrations
APPROVED

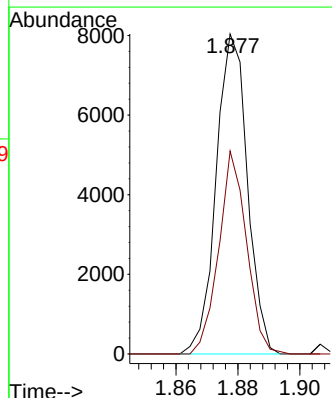
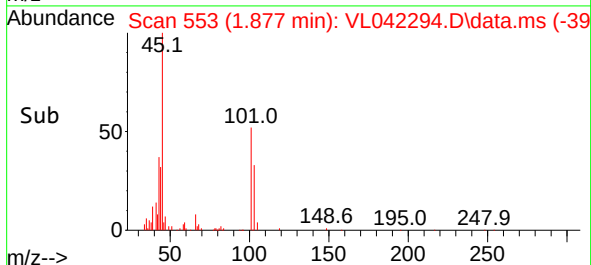
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

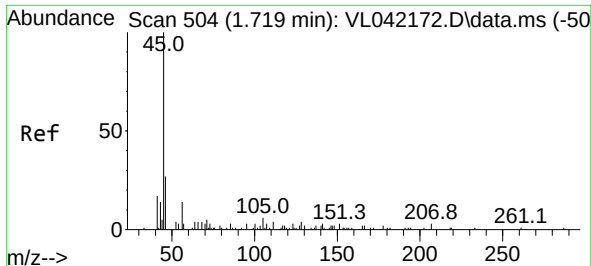


#11
Trichlorofluoromethane
Concen: 0.246 ppbv
RT: 1.877 min Scan# 553
Delta R.T. 0.003 min
Lab File: VL042294.D
Acq: 09 Apr 2025 15:50



Tgt Ion:101 Resp: 5632
Ion Ratio Lower Upper
101 100
103 63.4 50.2 75.2





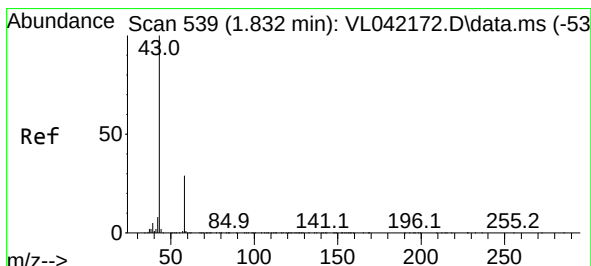
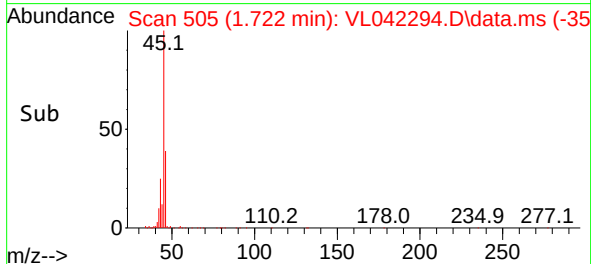
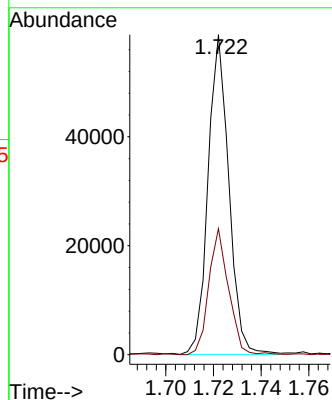
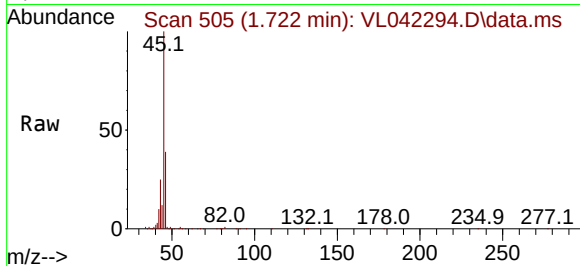
#13
Ethanol
Concen: 34.196 ppbv
RT: 1.722 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL042294.D
Acq: 09 Apr 2025 15:50

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-2-3242025

Tgt Ion: 45 Resp: 35570
Ion Ratio Lower Upper
45 100
46 38.1 20.2 80.8

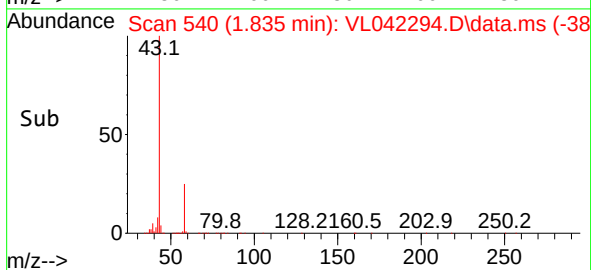
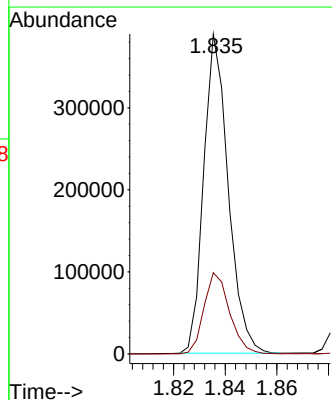
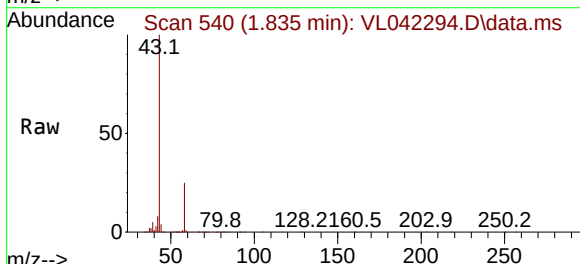
Manual Integrations
APPROVED

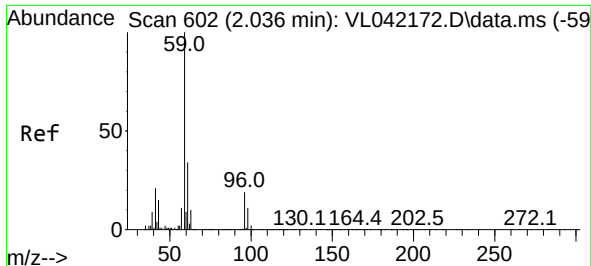
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#15
Acetone
Concen: 11.567 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.003 min
Lab File: VL042294.D
Acq: 09 Apr 2025 15:50

Tgt Ion: 43 Resp: 257522
Ion Ratio Lower Upper
43 100
58 26.6 23.2 34.8





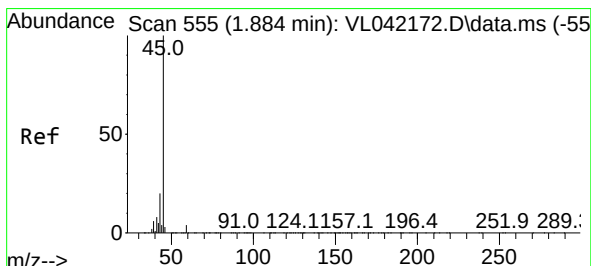
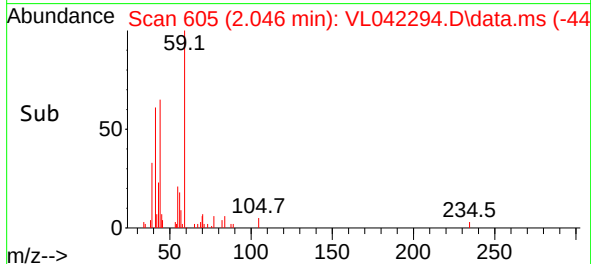
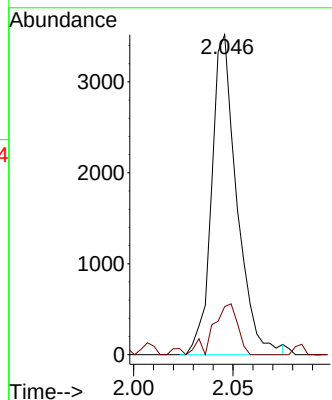
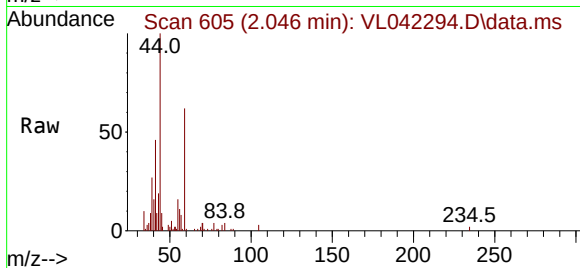
#17
tert-Butyl alcohol
Concen: 0.112 ppbv m
RT: 2.046 min Scan# 602
Delta R.T. 0.009 min
Lab File: VL042294.D
Acq: 09 Apr 2025 15:50

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-2-3242025

Tgt Ion: 59 Resp: 310
Ion Ratio Lower Upper
59 100
57 34.5 8.9 13.3

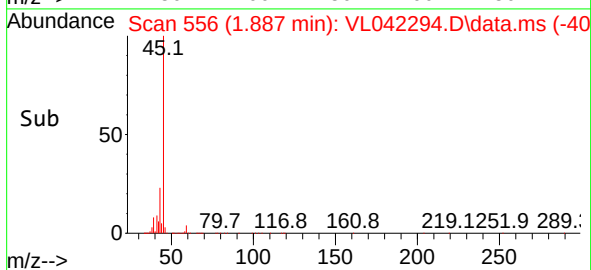
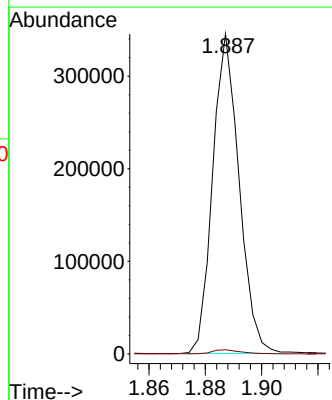
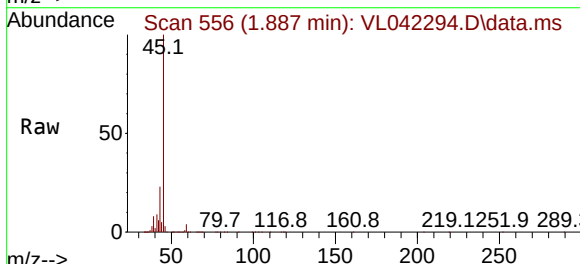
Manual Integrations
APPROVED

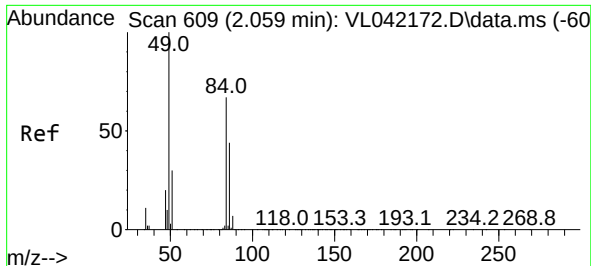
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#19
Isopropyl Alcohol
Concen: 17.881 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.003 min
Lab File: VL042294.D
Acq: 09 Apr 2025 15:50

Tgt Ion: 45 Resp: 224606
Ion Ratio Lower Upper
45 100
58 1.5 36.9 55.3





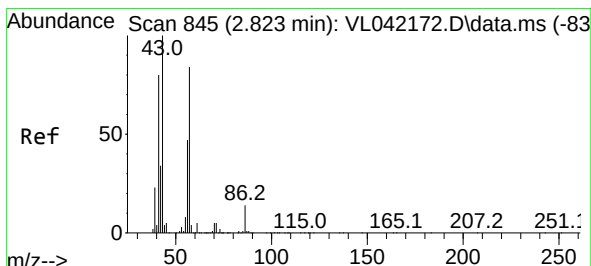
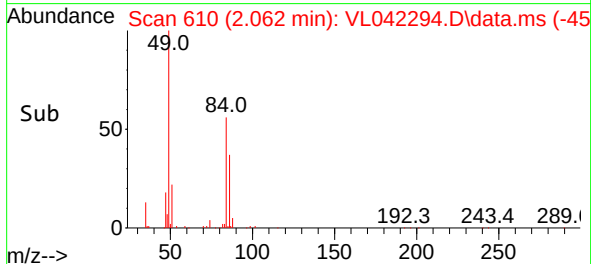
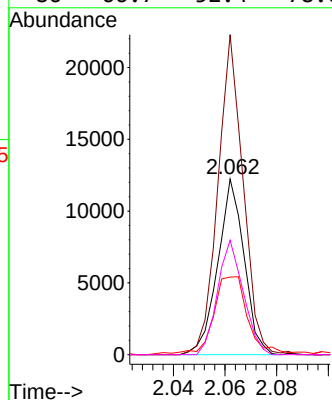
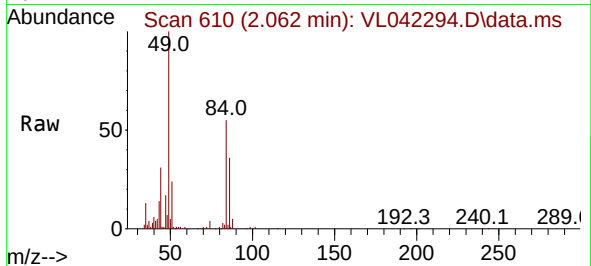
#20
Methylene Chloride
Concen: 1.047 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042294.D
Acq: 09 Apr 2025 15:50

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-2-3242025

Tgt Ion: 84	Resp: 868
Ion Ratio	Lower Upper
84 100	
49 182.2	120.2 180.4
51 43.8	37.4 56.0
86 66.7	52.4 78.6

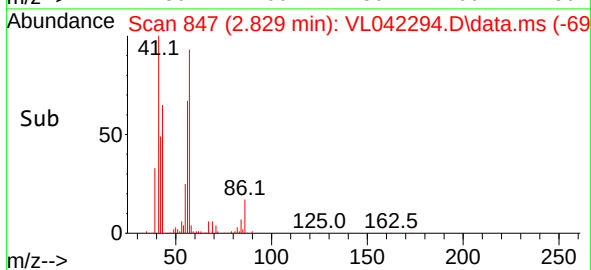
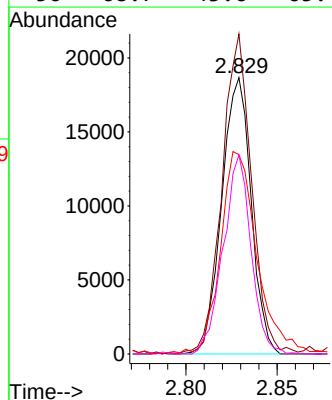
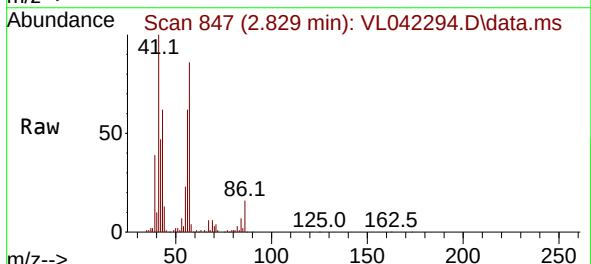
Manual Integrations
APPROVED

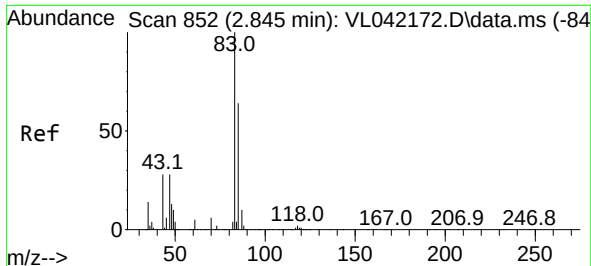
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#26
Hexane
Concen: 0.937 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.006 min
Lab File: VL042294.D
Acq: 09 Apr 2025 15:50

Tgt Ion: 57	Resp: 20910
Ion Ratio	Lower Upper
57 100	
41 120.6	76.6 114.8#
43 88.4	207.8 311.8#
56 68.7	43.6 65.4#





#29

Chloroform

Concen: 0.318 ppbv

RT: 2.848 min Scan# 852

Delta R.T. 0.003 min

Lab File: VL042294.D

Acq: 09 Apr 2025 15:50

Instrument :

MSVOA_L

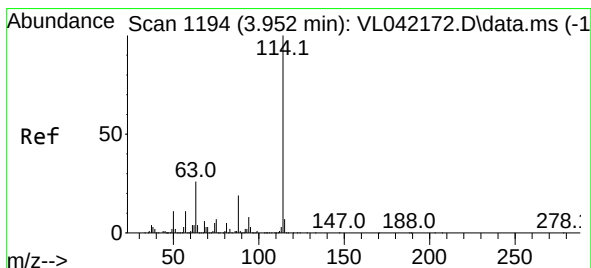
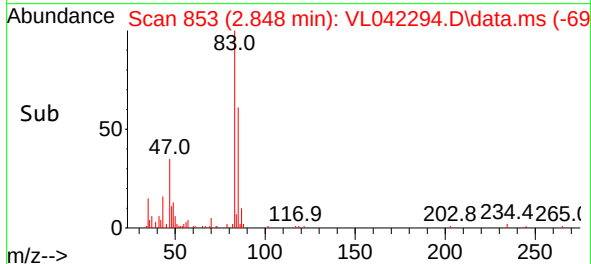
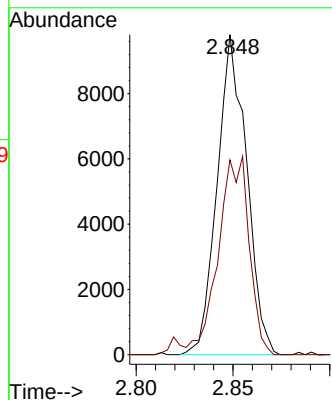
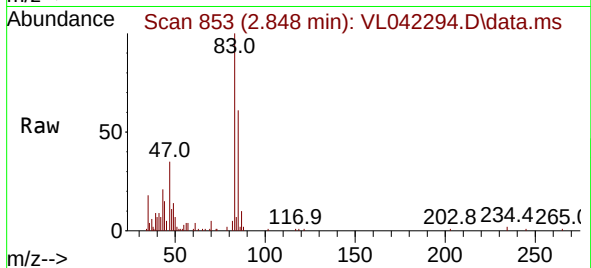
ClientSampleId :

IA-DUP-2-3242025

Tgt Ion: 83 Resp: 10374
Ion Ratio Lower Upper
83 100
85 60.8 51.4 77.2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

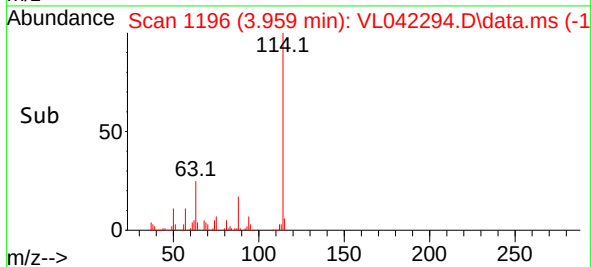
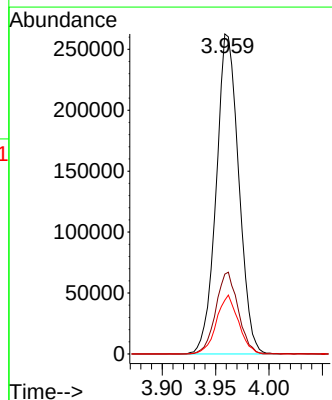
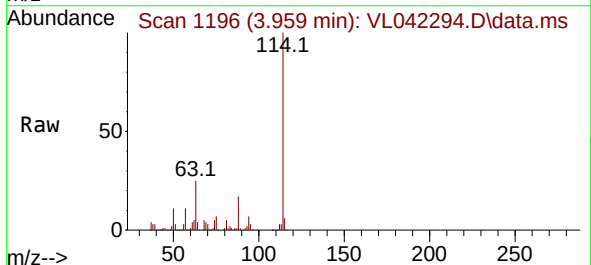
RT: 3.959 min Scan# 1196

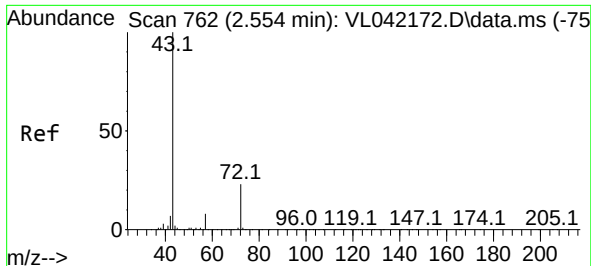
Delta R.T. 0.006 min

Lab File: VL042294.D

Acq: 09 Apr 2025 15:50

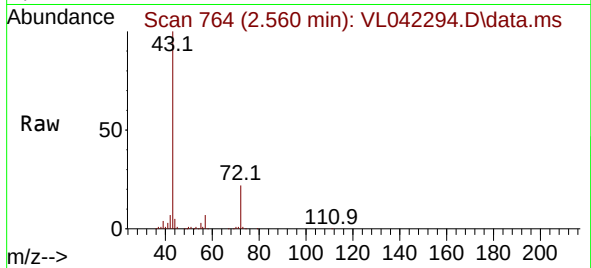
Tgt Ion:114 Resp: 384747
Ion Ratio Lower Upper
114 100
63 25.5 20.7 31.1
88 18.0 15.0 22.4





#34
2-Butanone
Concen: 3.296 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.006 min
Lab File: VL042294.D
Acq: 09 Apr 2025 15:50

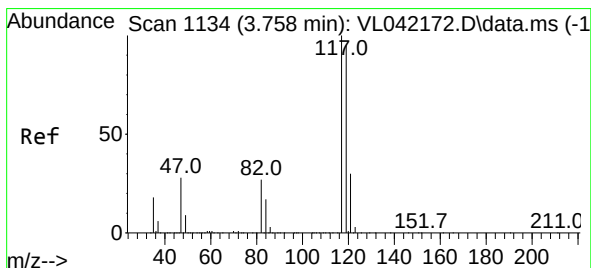
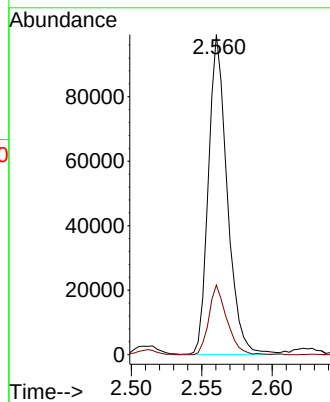
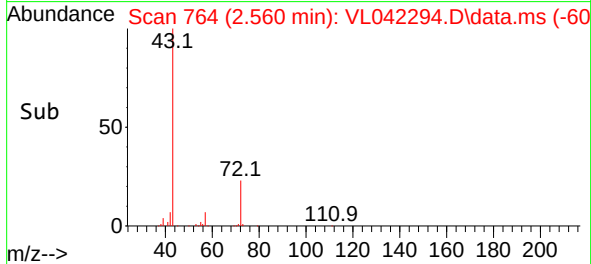
Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-2-3242025



Tgt Ion: 43 Resp: 9194
Ion Ratio Lower Upper
43 100
72 21.0 18.2 27.2

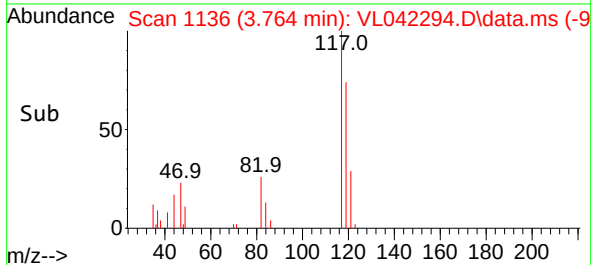
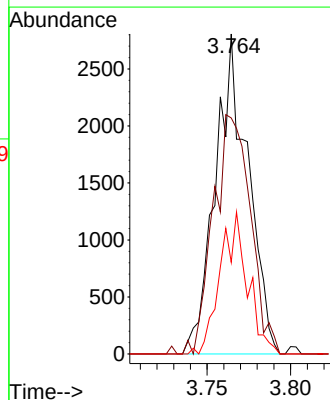
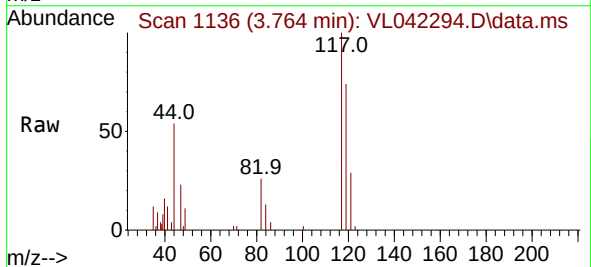
Manual Integrations
APPROVED

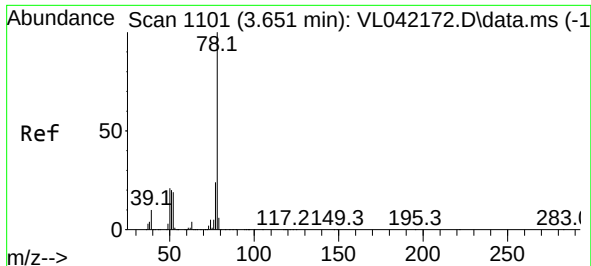
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#35
Carbon Tetrachloride
Concen: 0.127 ppbv m
RT: 3.764 min Scan# 1136
Delta R.T. 0.006 min
Lab File: VL042294.D
Acq: 09 Apr 2025 15:50

Tgt Ion:117 Resp: 3816
Ion Ratio Lower Upper
117 100
119 73.7 76.2 114.2#
121 28.6 24.2 36.4





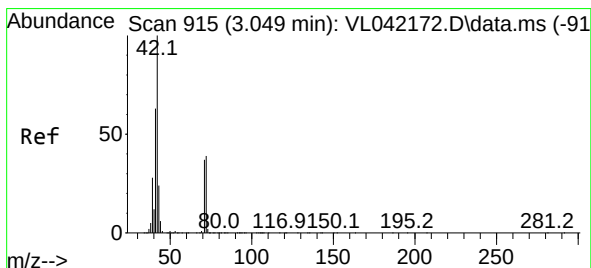
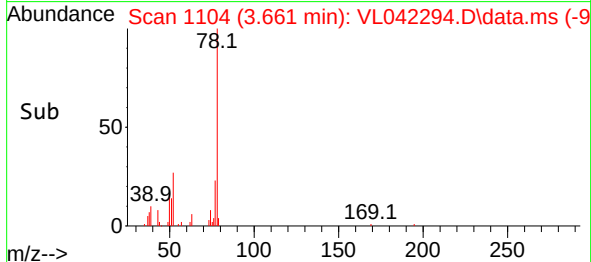
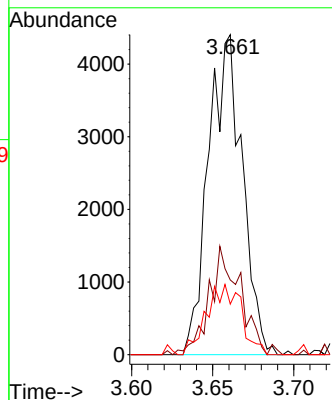
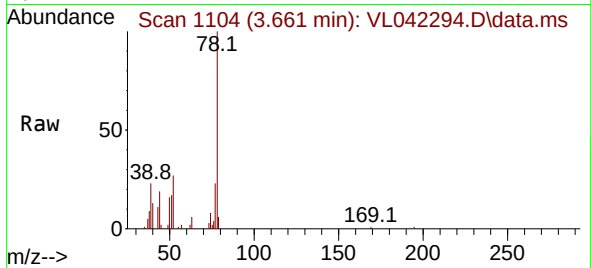
#36
Benzene
Concen: 0.167 ppbv m
RT: 3.661 min Scan# 1101
Delta R.T. 0.009 min
Lab File: VL042294.D
Acq: 09 Apr 2025 15:50

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-2-3242025

Tgt Ion: 78 Resp: 6378
Ion Ratio Lower Upper
78 100
77 23.3 19.1 28.7
50 15.8 16.6 24.8

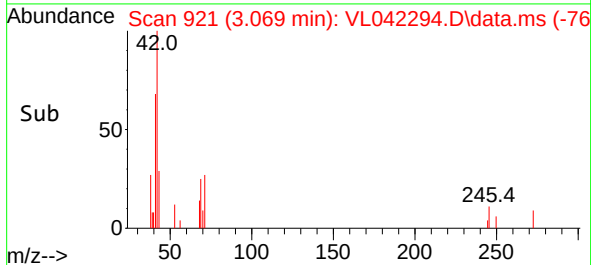
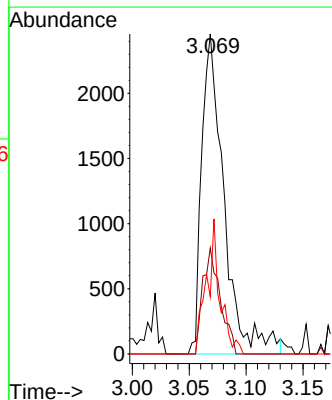
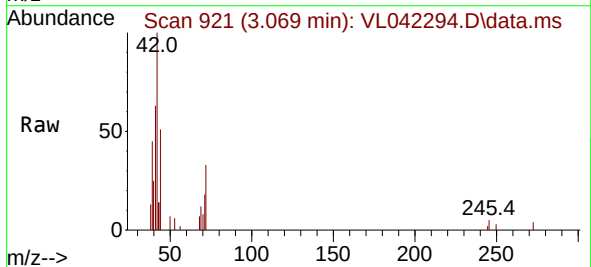
Manual Integrations
APPROVED

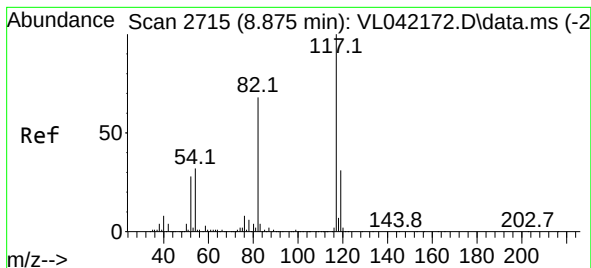
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#41
Tetrahydrofuran
Concen: 0.209 ppbv m
RT: 3.069 min Scan# 921
Delta R.T. 0.019 min
Lab File: VL042294.D
Acq: 09 Apr 2025 15:50

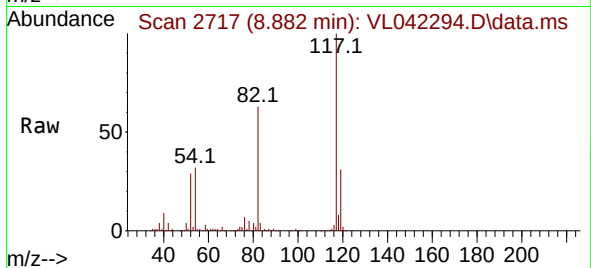
Tgt Ion: 42 Resp: 3356
Ion Ratio Lower Upper
42 100
72 0.0 31.4 47.0#
71 0.0 30.2 45.4#





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL042294.D
Acq: 09 Apr 2025 15:50

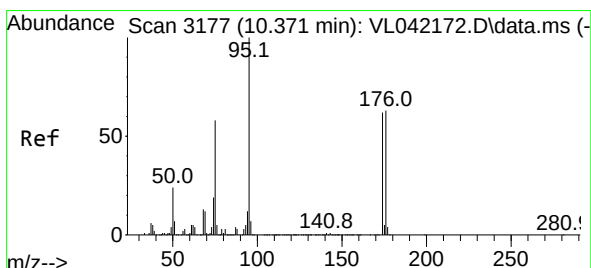
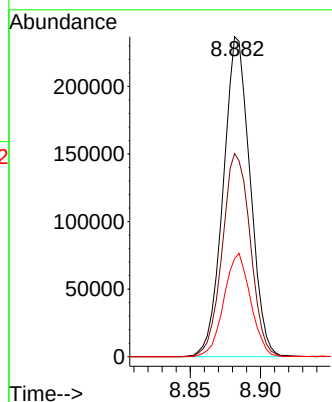
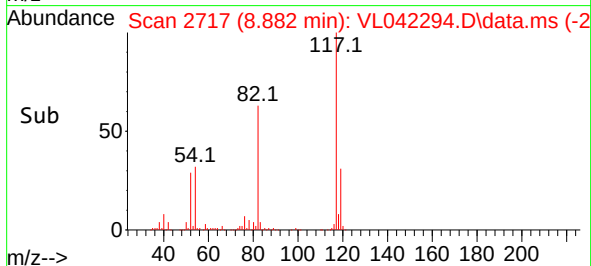
Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-2-3242025



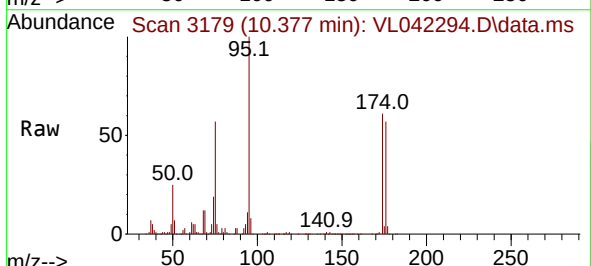
Tgt Ion: 117 Resp: 314874
Ion Ratio Lower Upper
117 100
82 66.2 55.8 83.6
119 32.2 25.5 38.3

Manual Integrations
APPROVED

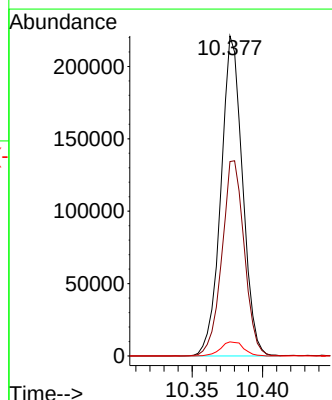
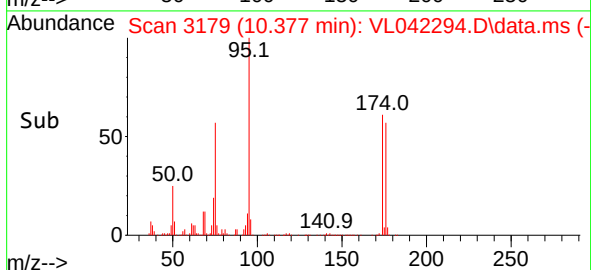
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 9.133 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.006 min
Lab File: VL042294.D
Acq: 09 Apr 2025 15:50



Tgt Ion: 95 Resp: 236151
Ion Ratio Lower Upper
95 100
174 63.3 50.6 76.0
175 4.7 3.8 5.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042294.D
Acq On : 09 Apr 2025 15:50
Operator : SY/MD
Sample : Q1665-08
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-2-3242025

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\VL032725AIR.M

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

Signal : TIC: VL042294.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	4093843	4418420	100.00%	44.859%
2	1.489	430	433	435	rVB	316272	133654	3.02%	1.357%
3	1.560	451	455	458	rBV2	185941	103828	2.35%	1.054%
4	1.622	470	474	478	rVB	155150	79236	1.79%	0.804%
5	1.722	500	505	511	rVB	108861	65226	1.48%	0.662%
6	1.835	536	540	548	rBV	594224	443224	10.03%	4.500%
7	1.887	548	556	567	rBV	572012	397343	8.99%	4.034%
8	2.062	599	610	614	rBV4	67860	62620	1.42%	0.636%
9	2.560	759	764	773	rBV	156399	144584	3.27%	1.468%
10	2.790	823	835	841	rBV	566438	593553	13.43%	6.026%
11	2.829	841	847	852	rBV	97408	108402	2.45%	1.101%
12	3.962	1183	1197	1212	rBV	687429	1034469	23.41%	10.503%
13	8.882	2705	2717	2729	rBV	819517	1132351	25.63%	11.496%
14	10.377	3169	3179	3192	rBV	1040232	1132652	25.63%	11.500%

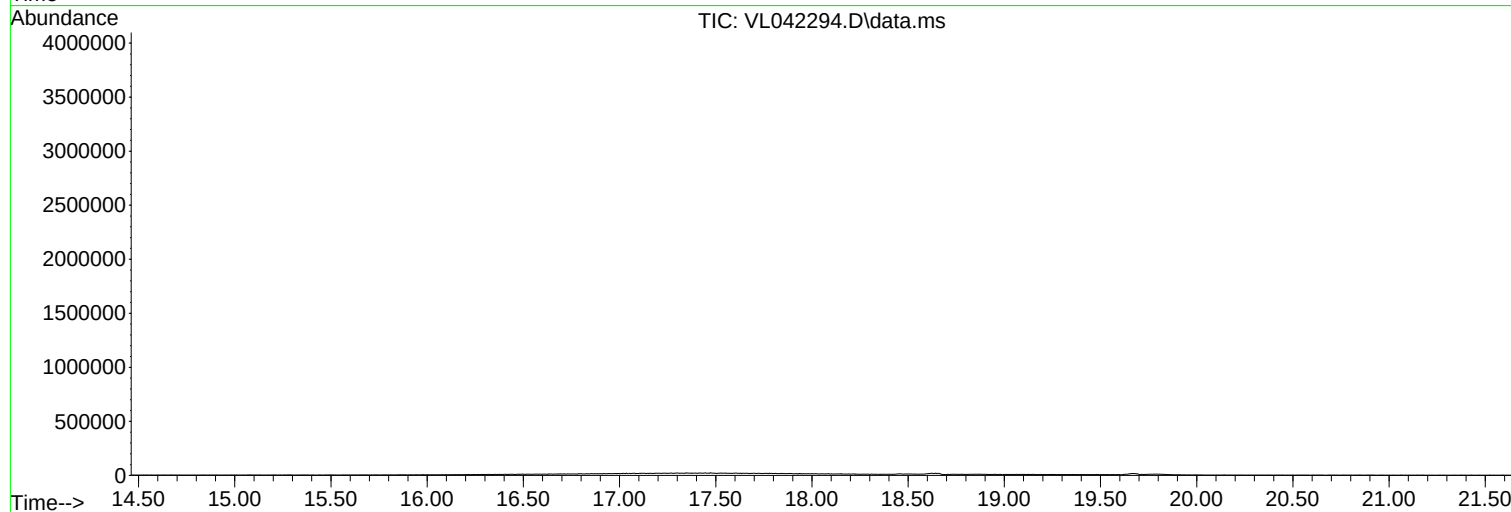
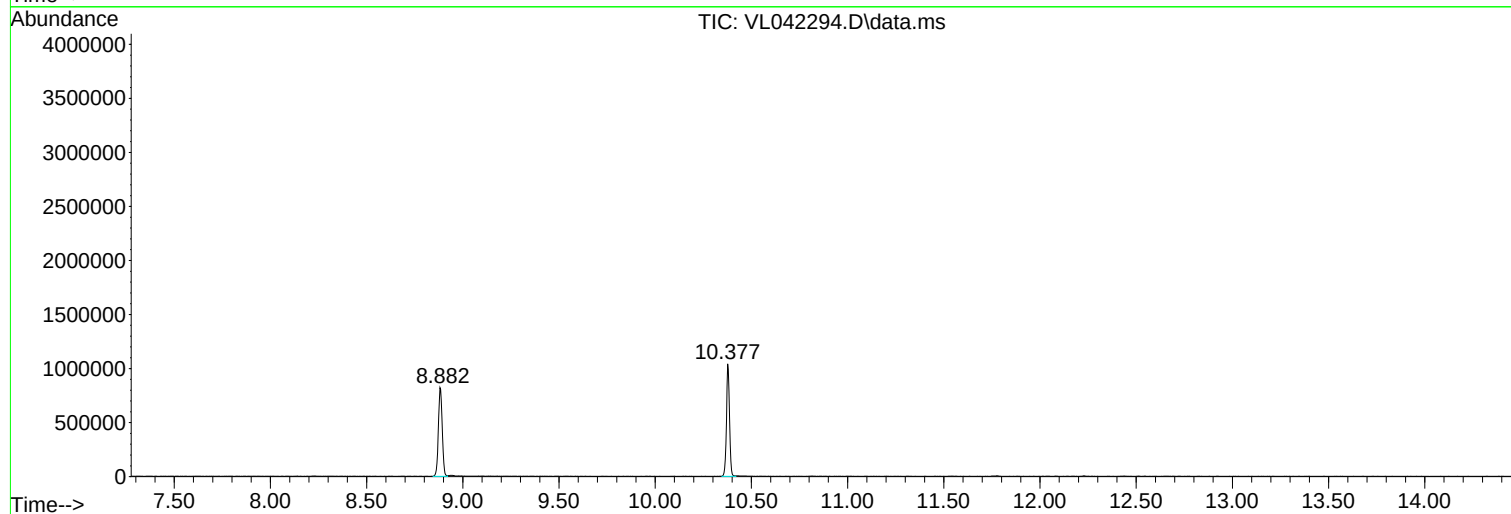
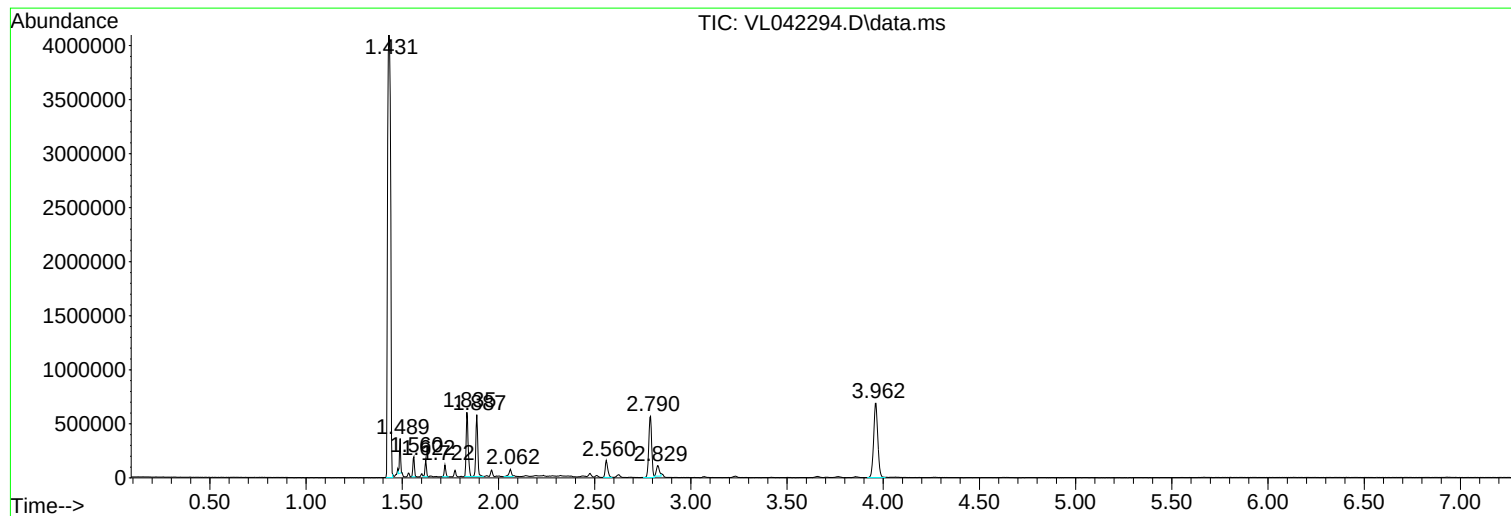
Sum of corrected areas: 9849562

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042294.D
Acq On : 09 Apr 2025 15:50
Operator : SY/MD
Sample : Q1665-08
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-2-3242025

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

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042294.D
Acq On : 09 Apr 2025 15:50
Operator : SY/MD
Sample : Q1665-08
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-2-3242025

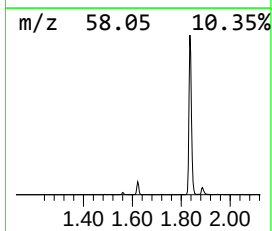
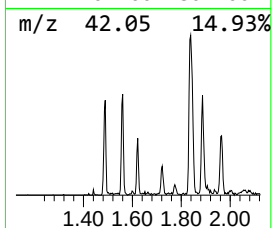
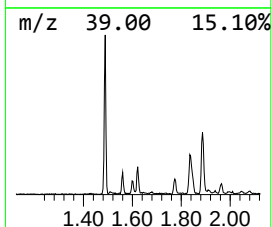
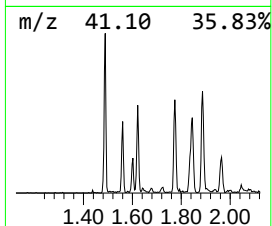
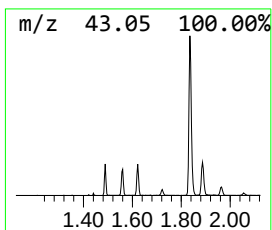
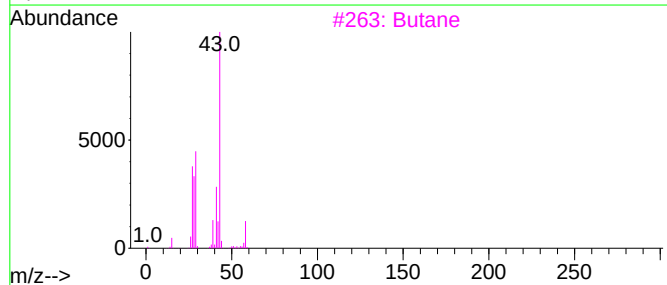
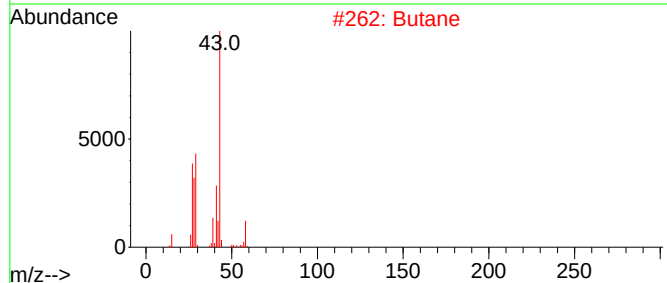
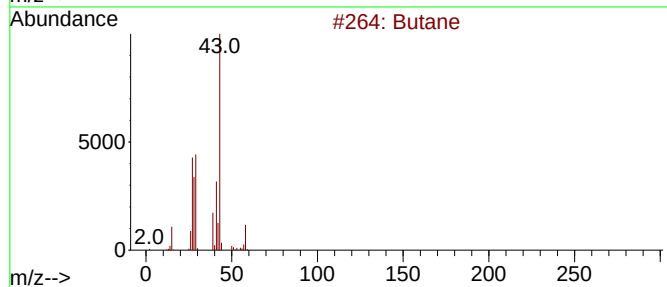
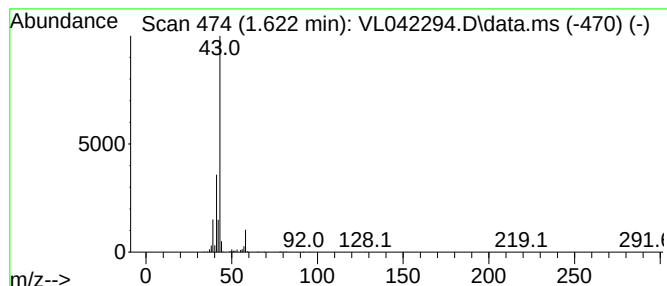
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 1 Butane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.622	1.33 ppbv	79236	Bromochloromethane	2.787

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane			58	C4H10	000106-97-8	64
2	Butane			58	C4H10	000106-97-8	64
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\VL040925\
Data File : VL042294.D
Acq On : 09 Apr 2025 15:50
Operator : SY/MD
Sample : Q1665-08
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-2-3242025

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

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	1.3	ppbv	79236	1	2.787	593553	10.0

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/25/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	03/26/25
Client Sample ID:	IA-B9-2-3242025	SDG No.:	Q1665
Lab Sample ID:	Q1665-09	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
VL042295.D	1		04/09/25 16:23	VL040925

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.42	2.08	J	1.04	2.47	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	0.22	1.24	J	0.90	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.16	1.23	U	1.23	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.090	0.63	U	0.63	3.49	ug/m3
75-65-0	tert-Butyl alcohol	0.19	0.58	U	0.58	1.52	ug/m3
142-82-5	Heptane	0.12	0.49	J	0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
67-64-1	Acetone	6.40	15.2		0.57	1.19	ug/m3
75-15-0	Carbon Disulfide	0.16	0.50	U	0.50	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.12	0.43	U	0.43	1.80	ug/m3
75-09-2	Methylene Chloride	1.20	4.17		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	3.20	9.44		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	0.010	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	0.30	0.96	J	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	0.39	1.47	J	0.41	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.070	0.38	U	0.38	2.73	ug/m3

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/25/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	03/26/25
Client Sample ID:	IA-B9-2-3242025	SDG No.:	Q1665
Lab Sample ID:	Q1665-09	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
VL042295.D	1		04/09/25 16:23	VL040925

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.070	0.60	U	0.60	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.070	0.54	U	0.54	0.77	ug/m3
127-18-4	Tetrachloroethene	0.020	0.14	U	0.14	0.20	ug/m3
108-90-7	Chlorobenzene	0.20	0.92	J	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	1.90	6.70		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	9.70		70 (65) - 130 (135)	97%	SPK: 10
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INTERNAL STANDARDS

74-97-5	Bromochloromethane	157000	2.787
540-36-3	1,4-Difluorobenzene	386000	3.959
3114-55-4	Chlorobenzene-d5	327000	8.882

TENTATIVE IDENTIFIED COMPOUNDS

75-45-6	Chlorodifluoromethane	0.83	J	1.48	ppbv
115-07-1	Propene	4.50	J	1.49	ppbv
000106-97-8	Butane	2.10	J	1.62	ppbv

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/25/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	03/26/25
Client Sample ID:	IA-B9-2-3242025	SDG No.:	Q1665
Lab Sample ID:	Q1665-09	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
VL042295.D	1		04/09/25 16:23	VL040925

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
64-17-5	Ethanol	25.6		J		1.72	ppbv
67-63-0	Isopropyl Alcohol	21.2		J		1.89	ppbv
000100-52-7	Benzaldehyde	2.30		J		10.8	ppbv
000080-56-8	.alpha.-Pinene	1.10		J		10.9	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\VL040925\
 Data File : VL042295.D
 Acq On : 09 Apr 2025 16:23
 Operator : SY/MD
 Sample : Q1665-09
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B9-2-3242025

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/10/2025
 Supervised By :Mahesh Dadoda 04/10/2025

Quant Time: Apr 10 01:46:13 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	2.787	49	157163	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	385586	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	326865	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	260627	9.709	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.100%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	9767	0.421	ppbv	99
3) Chlorodifluoromethane	1.476	51	19628m	0.828	ppbv	
4) Chloromethane	1.531	50	5476	0.577	ppbv	100
9) Propene	1.489	41	49325m	4.540	ppbv	
10) Heptane	4.988	43	3418m	0.118	ppbv	
11) Trichlorofluoromethane	1.877	101	5036	0.223	ppbv	91
13) Ethanol	1.722	45	26305	25.610	ppbv	83
15) Acetone	1.835	43	140811	6.406	ppbv	91
19) Isopropyl Alcohol	1.887	45	262397	21.158	ppbv #	33
20) Methylene Chloride	2.062	84	9600	1.173	ppbv	93
26) Hexane	2.826	57	42387	1.924	ppbv #	35
34) 2-Butanone	2.560	43	89072	3.186	ppbv	97
35) Carbon Tetrachloride	3.758	117	2602m	0.086	ppbv	
36) Benzene	3.654	78	11286	0.295	ppbv	92
53) Toluene	6.933	91	17473	0.386	ppbv	97
57) Chlorobenzene	8.924	112	6308	0.203	ppbv #	76
59) m/p-Xylene	9.529	91	9059m	0.195	ppbv	
60) o-Xylene	9.963	91	4768	0.103	ppbv	97

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

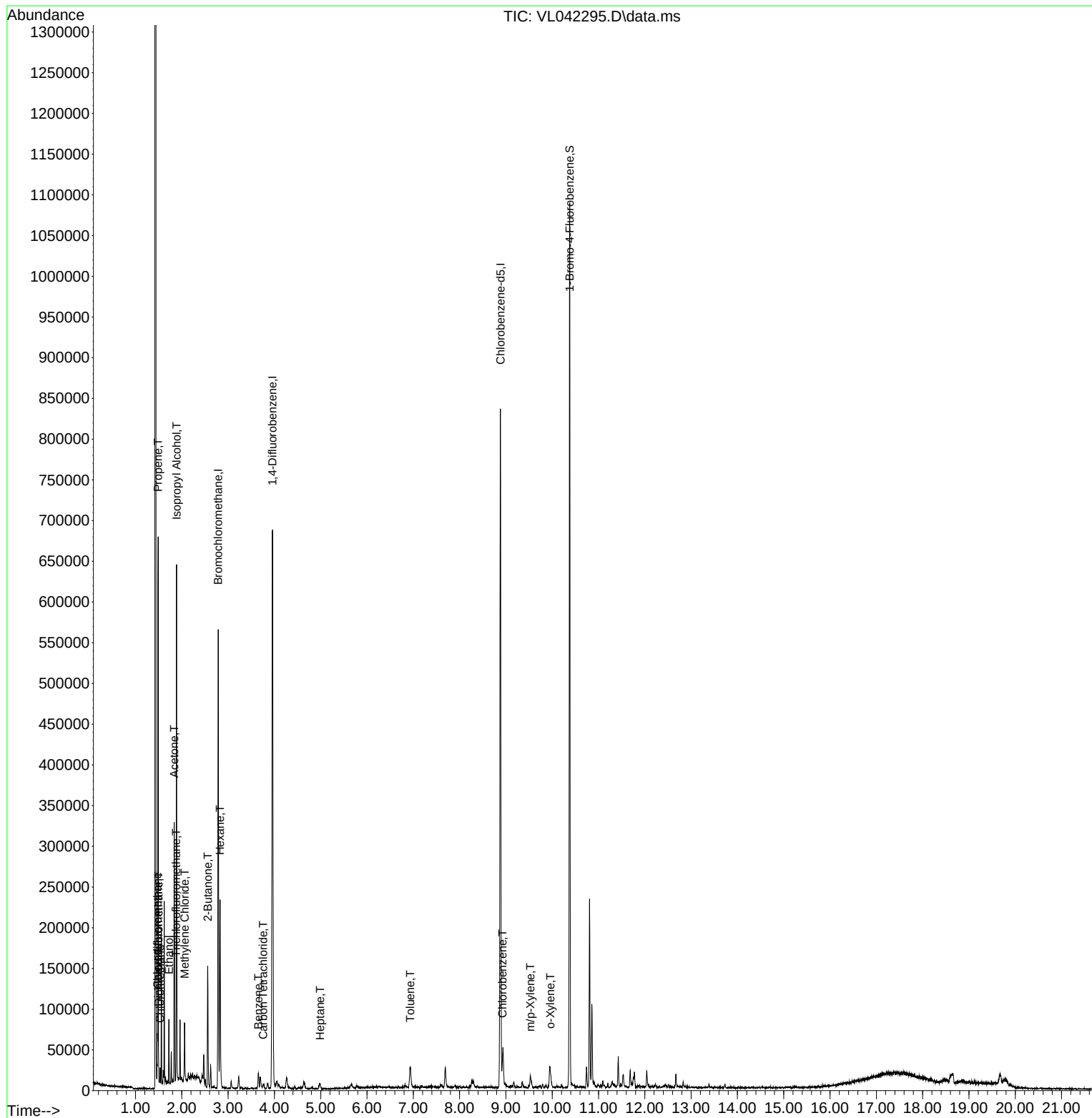
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Data File : VL042295.D
Acq On : 09 Apr 2025 16:23
Operator : SY/MD
Sample : Q1665-09
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

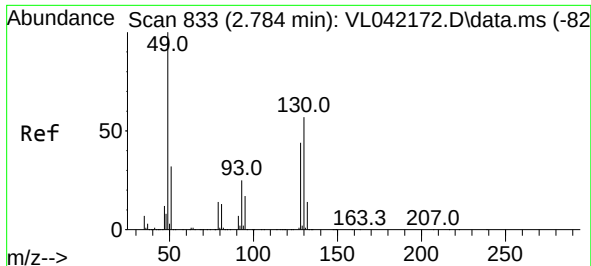
Instrument :
MSVOA_L
ClientSampleId :
IA-B9-2-3242025

Quant Time: Apr 10 01:46:13 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 02:00:52 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 04/10/2025
Supervised By : Mahesh Dadoda 04/10/2025





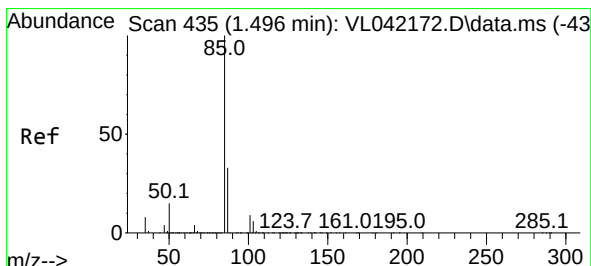
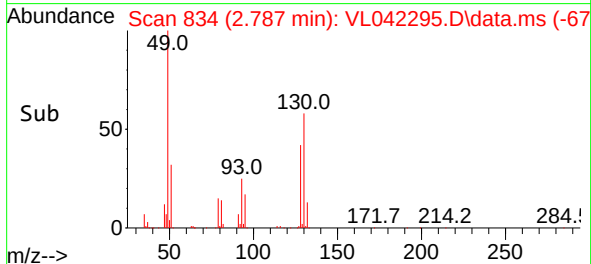
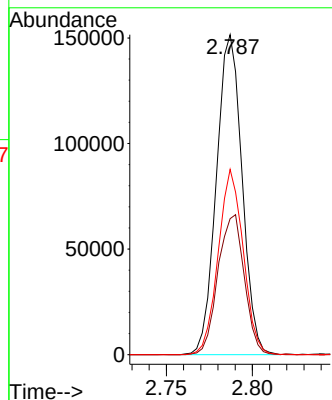
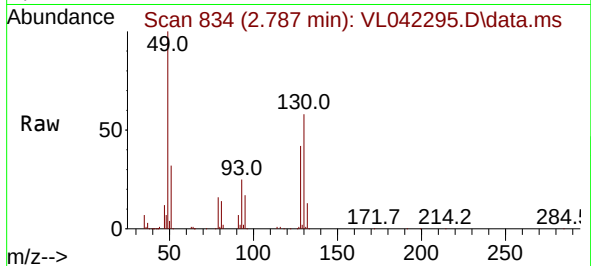
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Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042295.D
Acq: 09 Apr 2025 16:23

Instrument :
MSVOA_L
ClientSampleId :
IA-B9-2-3242025

Tgt Ion: 49 Resp: 15716
Ion Ratio Lower Upper
49 100
128 44.9 22.9 68.5
130 56.4 28.8 86.4

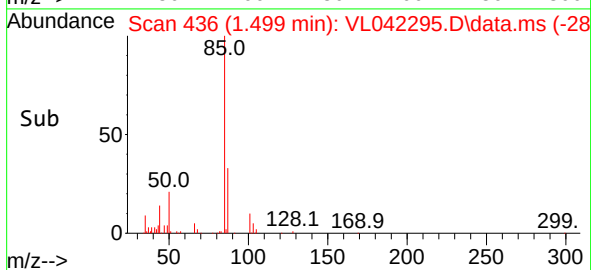
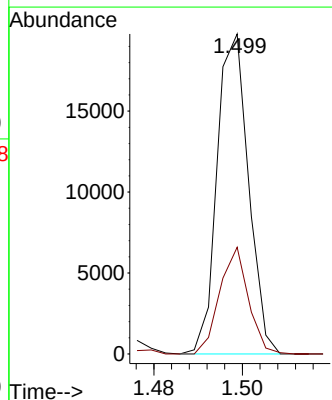
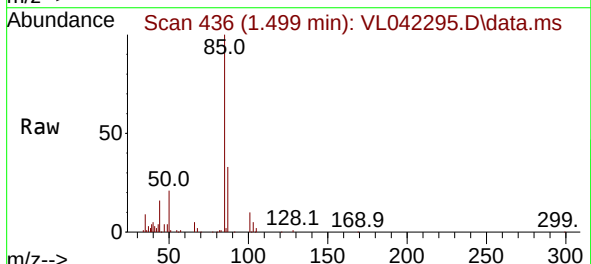
Manual Integrations
APPROVED

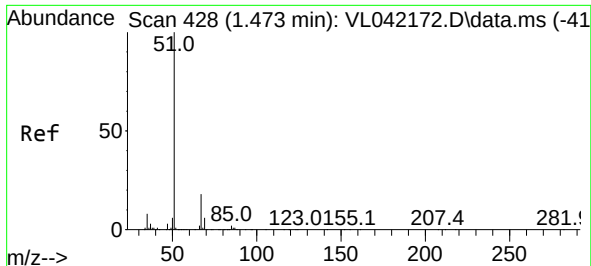
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#2
Dichlorodifluoromethane
Concen: 0.421 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL042295.D
Acq: 09 Apr 2025 16:23

Tgt Ion: 85 Resp: 9767
Ion Ratio Lower Upper
85 100
87 33.4 26.1 39.1





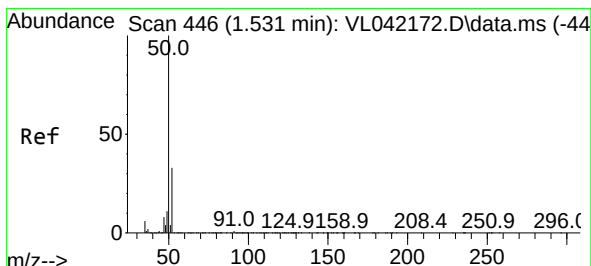
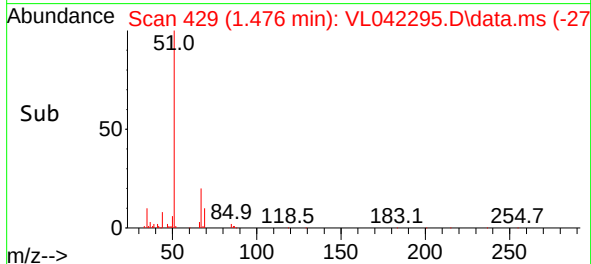
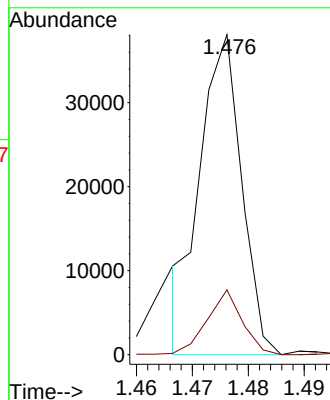
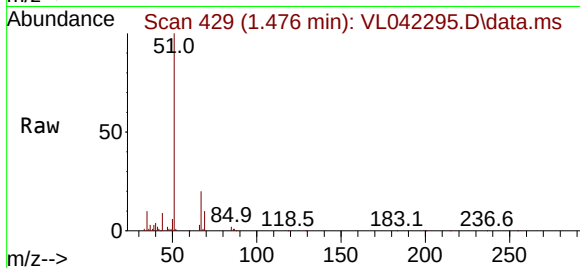
#3
Chlorodifluoromethane
Concen: 0.828 ppbv m
RT: 1.476 min Scan# 428
Delta R.T. 0.003 min
Lab File: VL042295.D
Acq: 09 Apr 2025 16:23

Instrument :
MSVOA_L
ClientSampleId :
IA-B9-2-3242025

Tgt Ion: 51 Resp: 19628
Ion Ratio Lower Upper
51 100
67 17.6 15.0 22.6

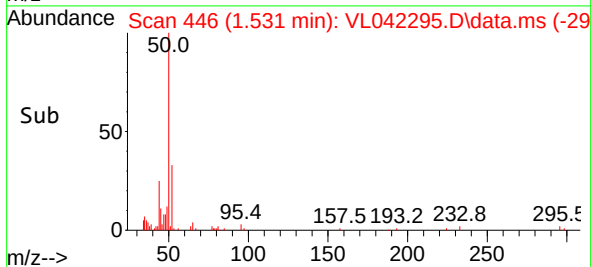
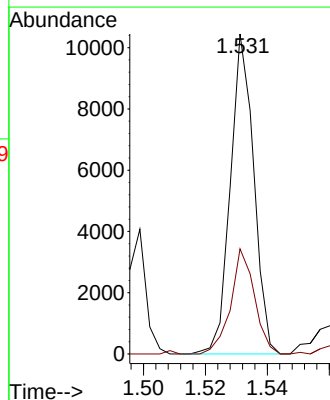
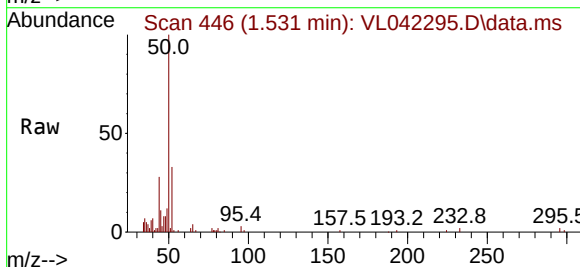
Manual Integrations
APPROVED

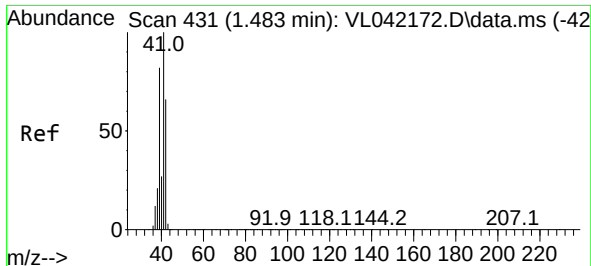
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#4
Chloromethane
Concen: 0.577 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042295.D
Acq: 09 Apr 2025 16:23

Tgt Ion: 50 Resp: 5476
Ion Ratio Lower Upper
50 100
52 32.9 26.1 39.1





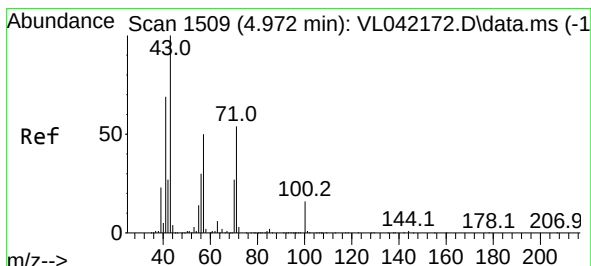
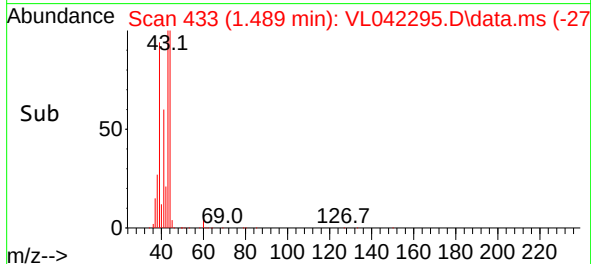
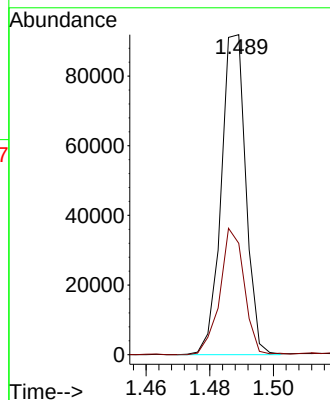
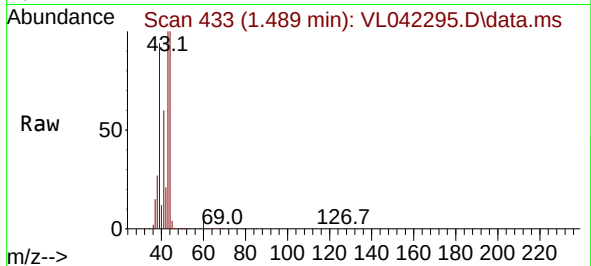
#9
 Propene
 Concen: 4.540 ppbv m
 RT: 1.489 min Scan# 41
 Delta R.T. 0.006 min
 Lab File: VL042295.D
 Acq: 09 Apr 2025 16:23

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B9-2-3242025

Tgt Ion: 41 Resp: 4932
 Ion Ratio Lower Upper
 41 100
 42 30.3 55.4 83.2

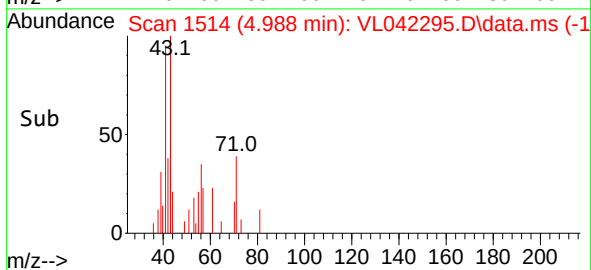
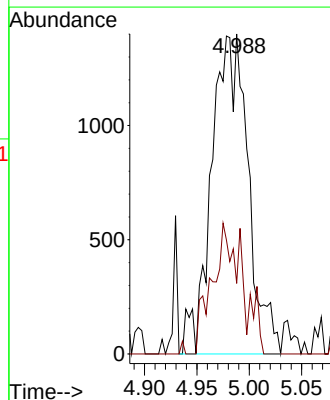
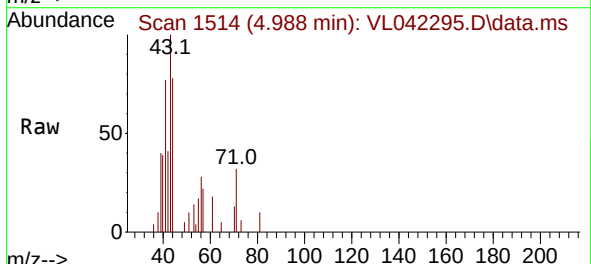
Manual Integrations
 APPROVED

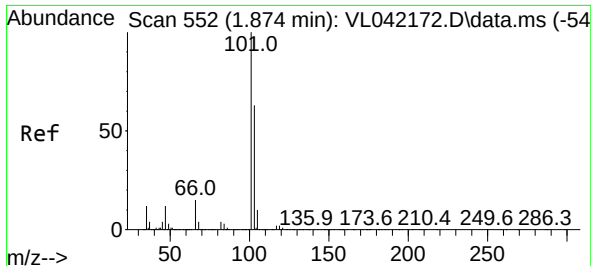
Reviewed By :Semsettin Yesilyurt 04/10/2025
 Supervised By :Mahesh Dadoda 04/10/2025



#10
 Heptane
 Concen: 0.118 ppbv m
 RT: 4.988 min Scan# 1514
 Delta R.T. 0.016 min
 Lab File: VL042295.D
 Acq: 09 Apr 2025 16:23

Tgt Ion: 43 Resp: 3418
 Ion Ratio Lower Upper
 43 100
 57 34.3 39.4 59.2





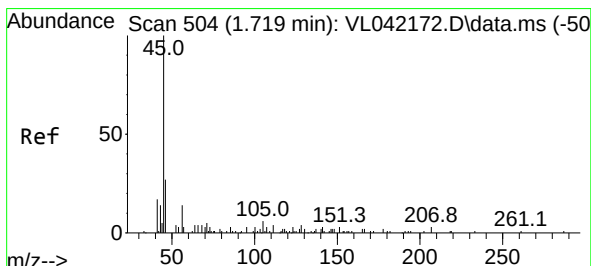
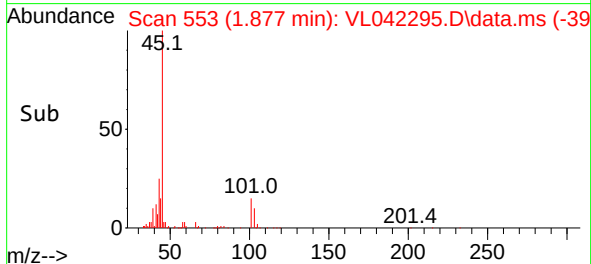
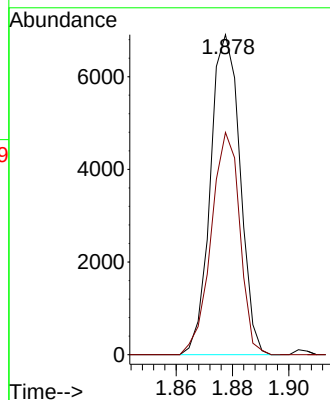
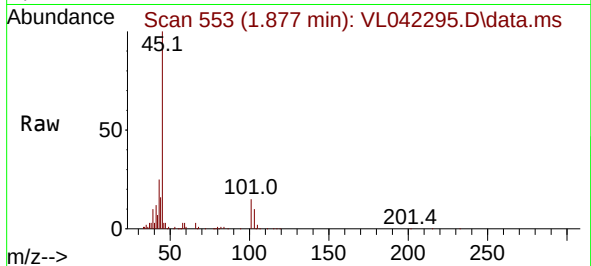
#11
Trichlorofluoromethane
Concen: 0.223 ppbv
RT: 1.877 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL042295.D
Acq: 09 Apr 2025 16:23

Instrument :
MSVOA_L
ClientSampleId :
IA-B9-2-3242025

Tgt Ion:101 Resp: 5030
Ion Ratio Lower Upper
101 100
103 69.5 50.2 75.2

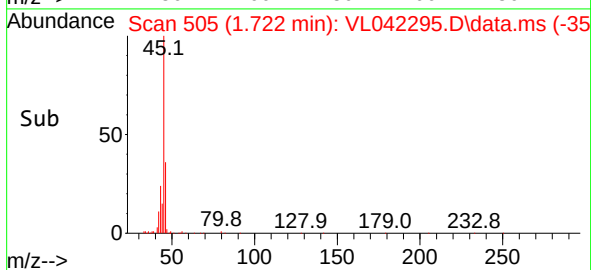
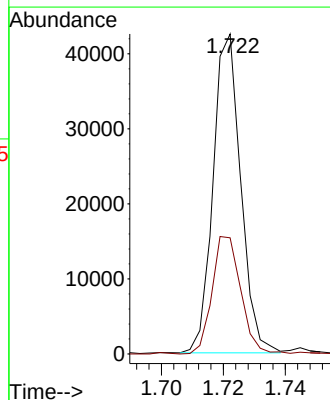
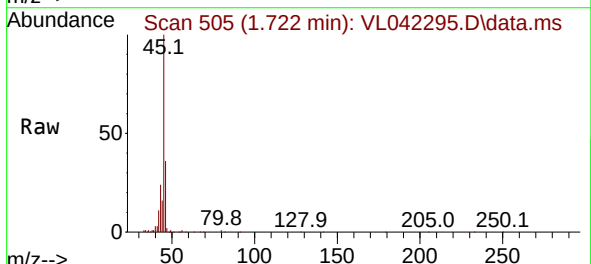
Manual Integrations
APPROVED

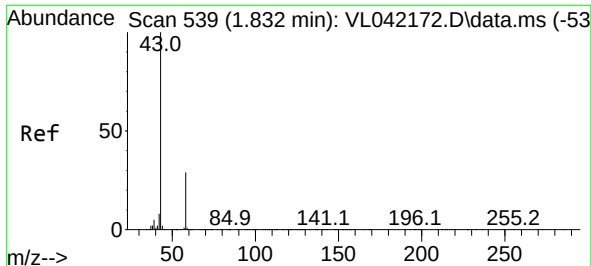
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#13
Ethanol
Concen: 25.610 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042295.D
Acq: 09 Apr 2025 16:23

Tgt Ion: 45 Resp: 26305
Ion Ratio Lower Upper
45 100
46 39.0 20.2 80.8





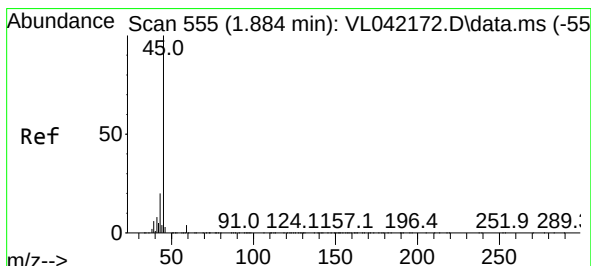
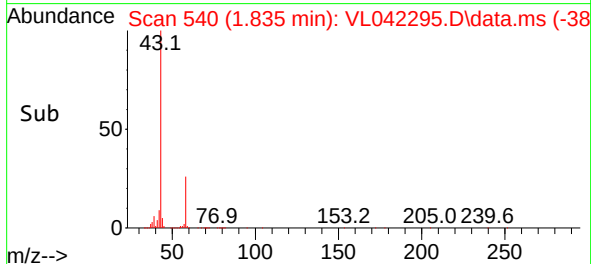
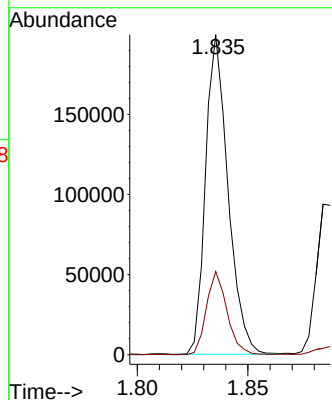
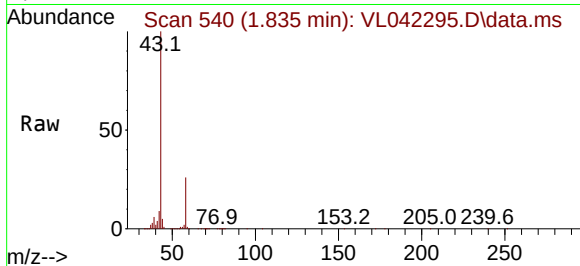
#15
Acetone
Concen: 6.406 ppbv
RT: 1.835 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL042295.D
Acq: 09 Apr 2025 16:23

Instrument :
MSVOA_L
ClientSampleId :
IA-B9-2-3242025

Tgt Ion: 43 Resp: 14081
Ion Ratio Lower Upper
43 100
58 24.0 23.2 34.8

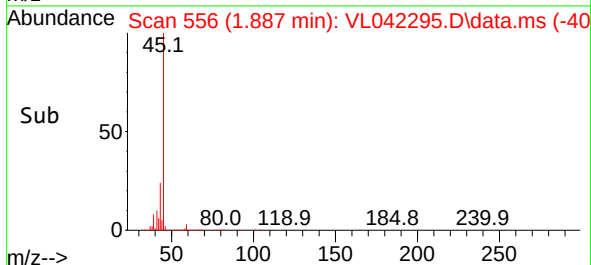
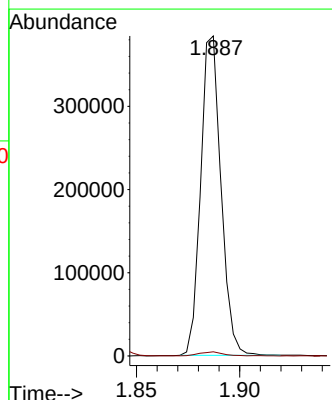
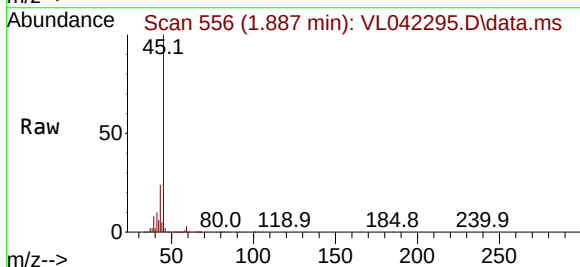
Manual Integrations
APPROVED

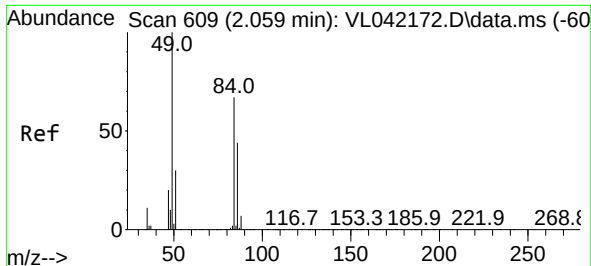
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#19
Isopropyl Alcohol
Concen: 21.158 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.003 min
Lab File: VL042295.D
Acq: 09 Apr 2025 16:23

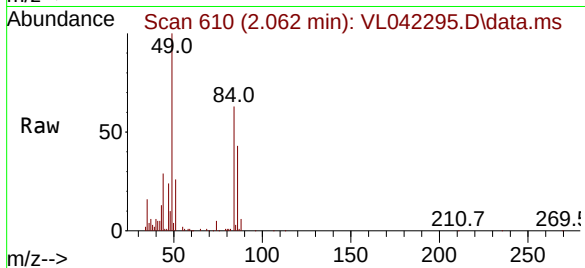
Tgt Ion: 45 Resp: 262397
Ion Ratio Lower Upper
45 100
58 1.6 36.9 55.3#





#20
Methylene Chloride
Concen: 1.173 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042295.D
Acq: 09 Apr 2025 16:23

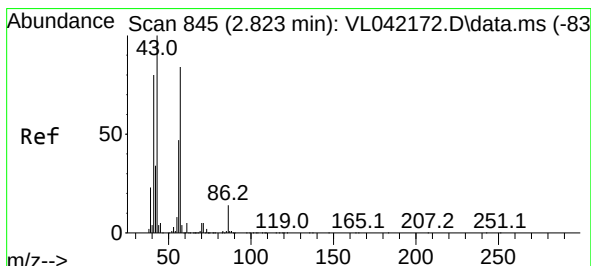
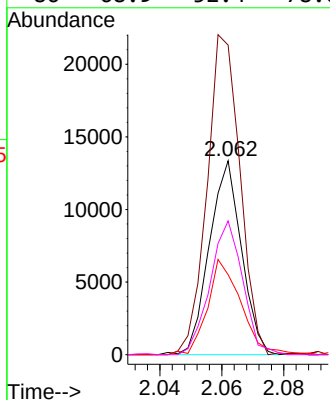
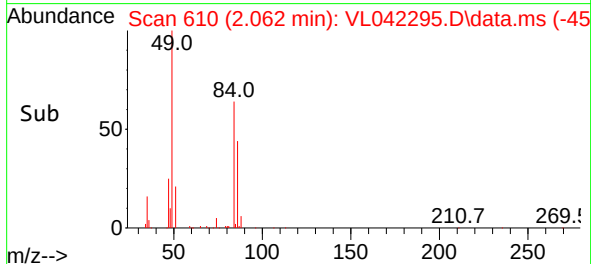
Instrument :
MSVOA_L
ClientSampleId :
IA-B9-2-3242025



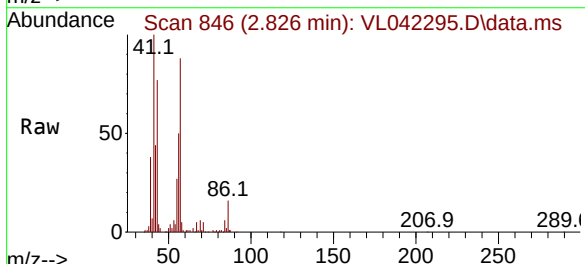
Tgt Ion	Ratio	Lower	Upper
84	100		
49	158.7	120.2	180.4
51	39.5	37.4	56.0
86	68.9	52.4	78.6

Manual Integrations
APPROVED

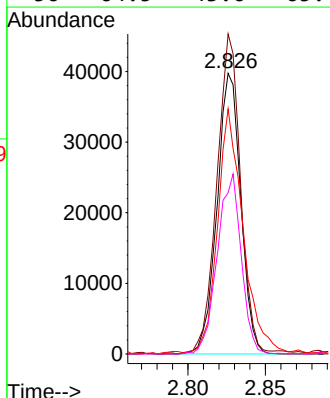
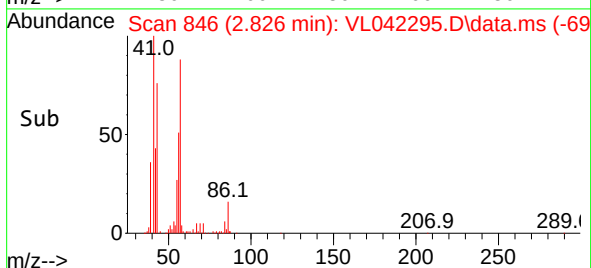
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

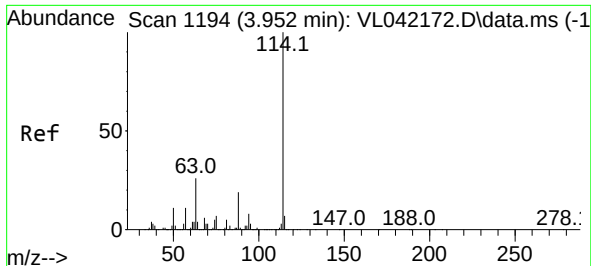


#26
Hexane
Concen: 1.924 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.003 min
Lab File: VL042295.D
Acq: 09 Apr 2025 16:23



Tgt Ion	Ratio	Lower	Upper
57	100		
41	114.5	76.6	114.8
43	95.4	207.8	311.8#
56	64.5	43.6	65.4





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.959 min Scan# 1196

Delta R.T. 0.006 min

Lab File: VL042295.D

Acq: 09 Apr 2025 16:23

Instrument :

MSVOA_L

ClientSampleId :

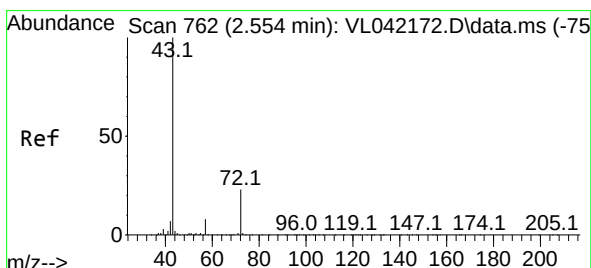
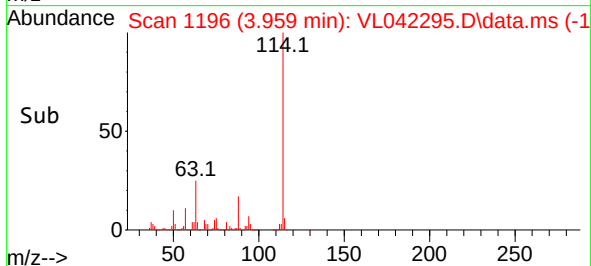
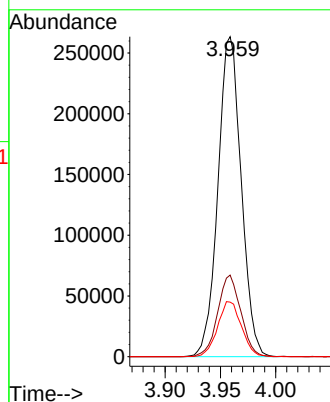
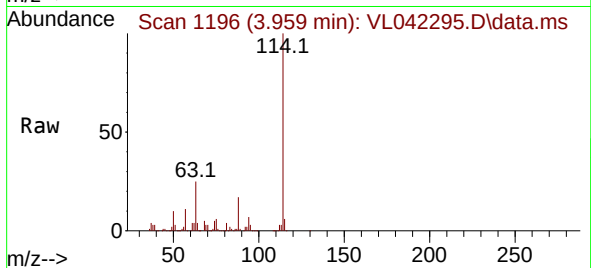
IA-B9-2-3242025

Tgt Ion:	114	Resp:	38558
Ion Ratio	Lower	Upper	
114	100		
63	25.4	20.7	31.1
88	17.6	15.0	22.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#34

2-Butanone

Concen: 3.186 ppbv

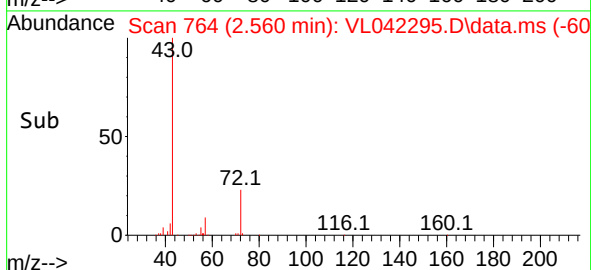
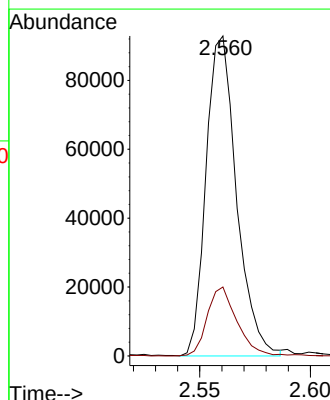
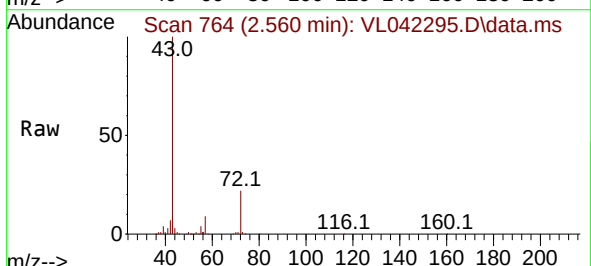
RT: 2.560 min Scan# 764

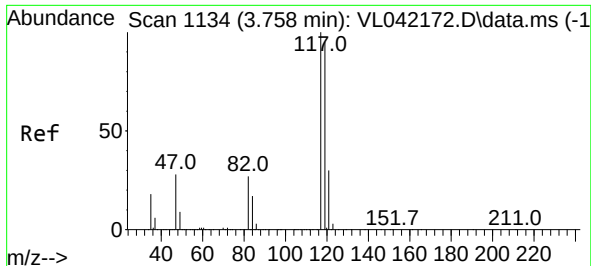
Delta R.T. 0.006 min

Lab File: VL042295.D

Acq: 09 Apr 2025 16:23

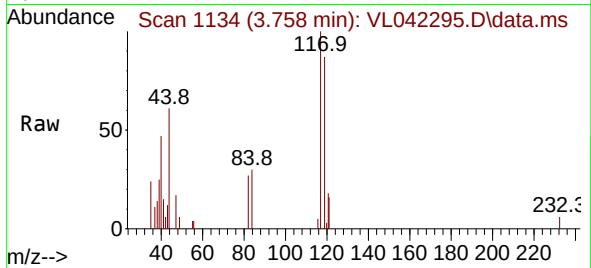
Tgt Ion:	43	Resp:	89072
Ion Ratio	Lower	Upper	
43	100		
72	21.3	18.2	27.2





#35
Carbon Tetrachloride
Concen: 0.086 ppbv m
RT: 3.758 min Scan# 1134
Delta R.T. -0.000 min
Lab File: VL042295.D
Acq: 09 Apr 2025 16:23

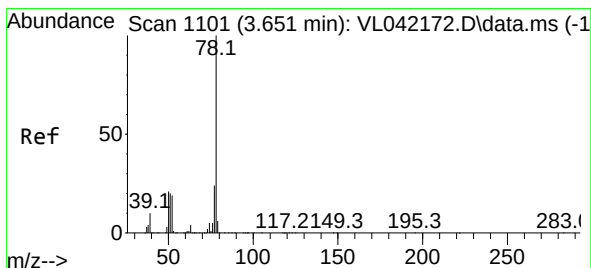
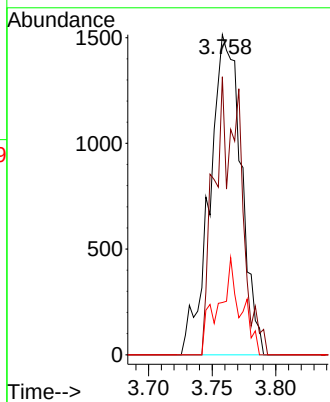
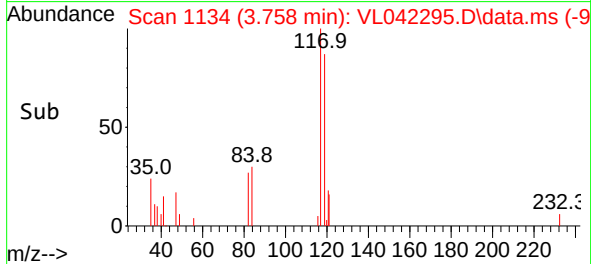
Instrument : MSVOA_L
ClientSampleId : IA-B9-2-3242025



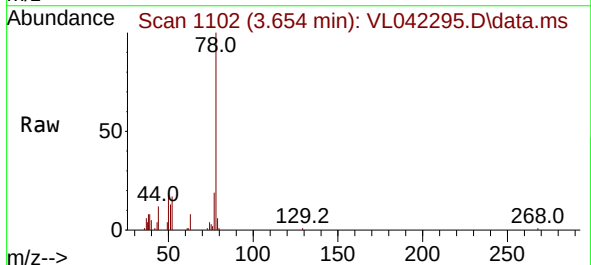
Tgt Ion: 117 Resp: 260
Ion Ratio Lower Upper
117 100
119 86.9 76.2 114.2
121 16.3 24.2 36.4

Manual Integrations
APPROVED

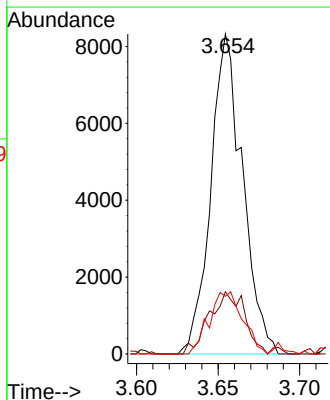
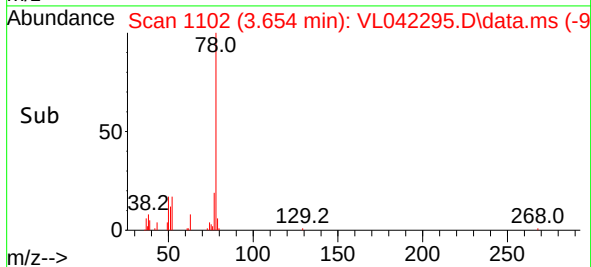
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

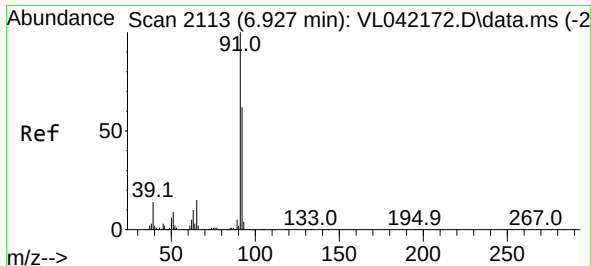


#36
Benzene
Concen: 0.295 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. 0.003 min
Lab File: VL042295.D
Acq: 09 Apr 2025 16:23



Tgt Ion: 78 Resp: 11286
Ion Ratio Lower Upper
78 100
77 19.4 19.1 28.7
50 18.0 16.6 24.8





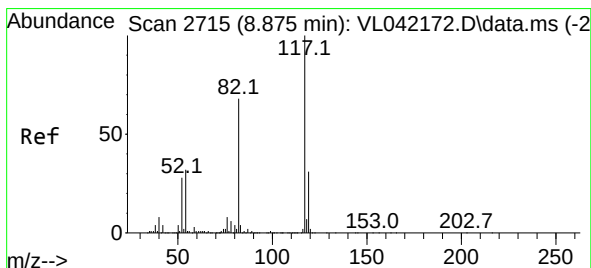
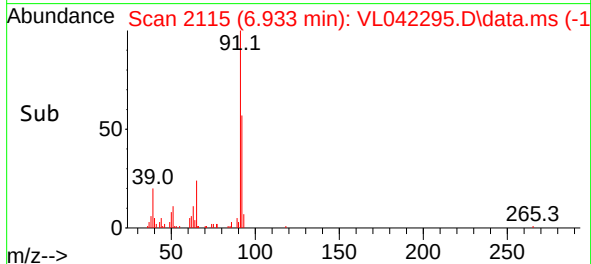
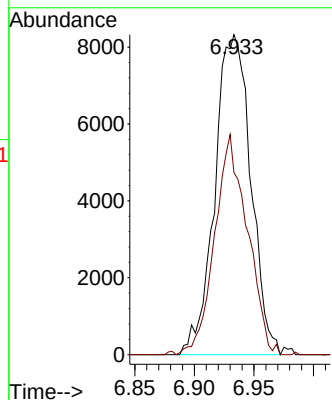
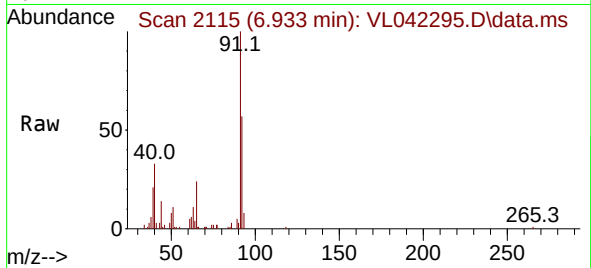
#53
Toluene
Concen: 0.386 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. 0.006 min
Lab File: VL042295.D
Acq: 09 Apr 2025 16:23

Instrument :
MSVOA_L
ClientSampleId :
IA-B9-2-3242025

Tgt Ion: 91 Resp: 1747
Ion Ratio Lower Upper
91 100
92 62.6 48.4 72.6

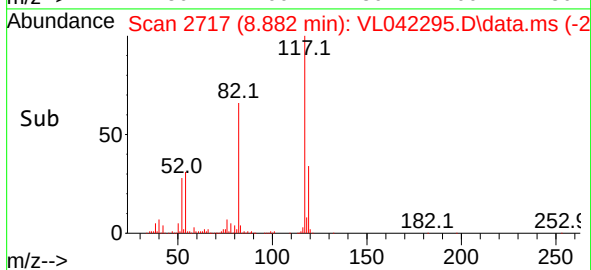
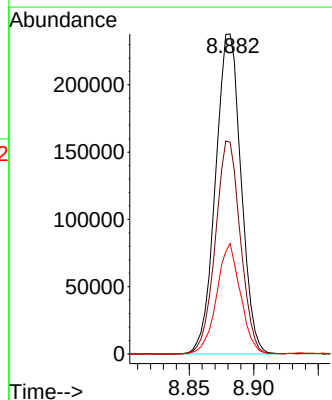
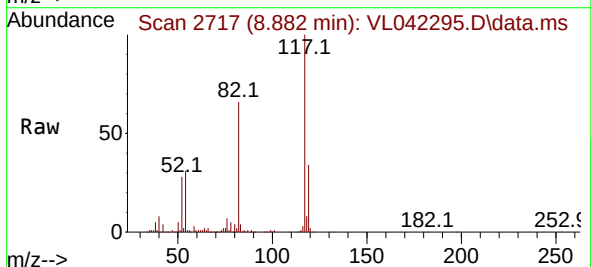
Manual Integrations
APPROVED

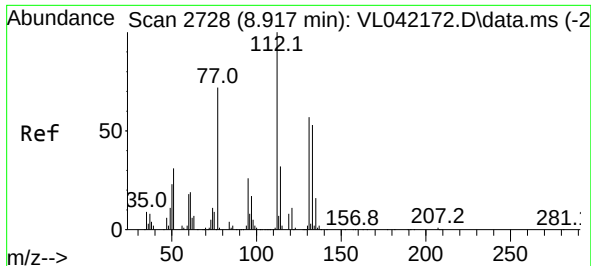
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2717
Delta R.T. 0.006 min
Lab File: VL042295.D
Acq: 09 Apr 2025 16:23

Tgt Ion:117 Resp: 326865
Ion Ratio Lower Upper
117 100
82 65.3 55.8 83.6
119 32.2 25.5 38.3





#57

Chlorobenzene

Concen: 0.203 ppbv

RT: 8.924 min Scan# 2117

Delta R.T. 0.006 min

Lab File: VL042295.D

Acq: 09 Apr 2025 16:23

Instrument :

MSVOA_L

ClientSampleId :

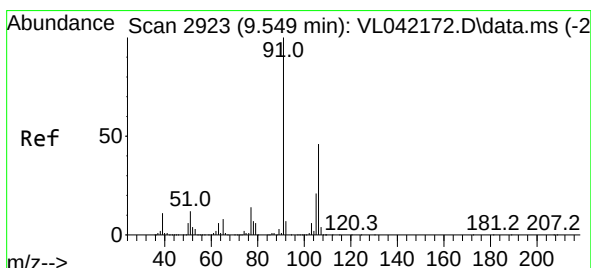
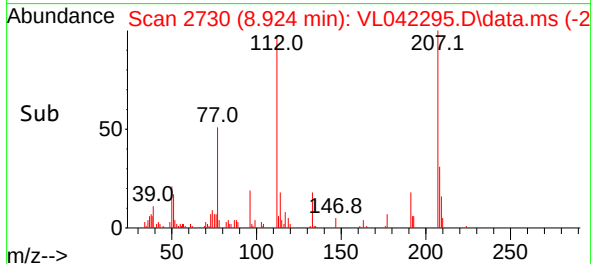
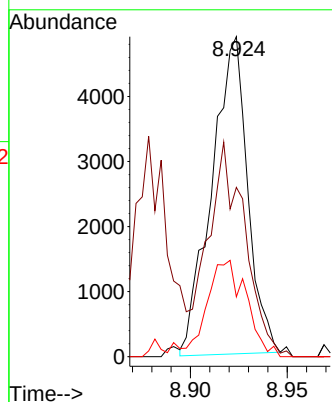
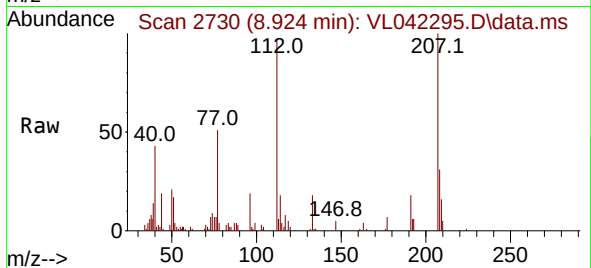
IA-B9-2-3242025

Tgt Ion:112	Resp:	6308
Ion Ratio	Lower	Upper
112	100	
77	52.5	58.2
114	18.9	29.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#59

m/p-Xylene

Concen: 0.195 ppbv m

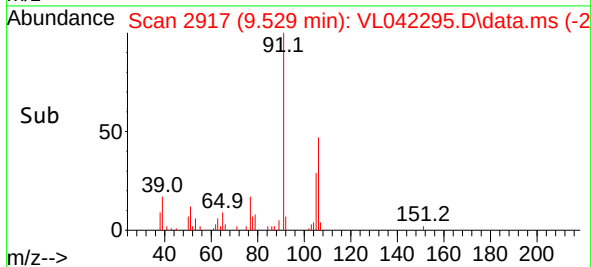
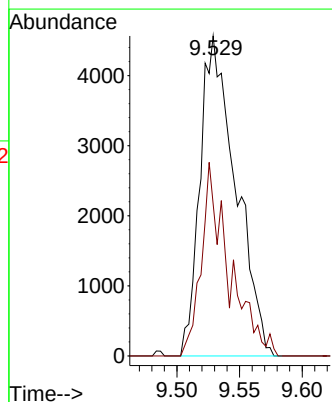
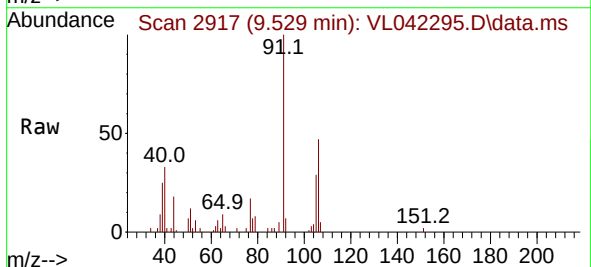
RT: 9.529 min Scan# 2917

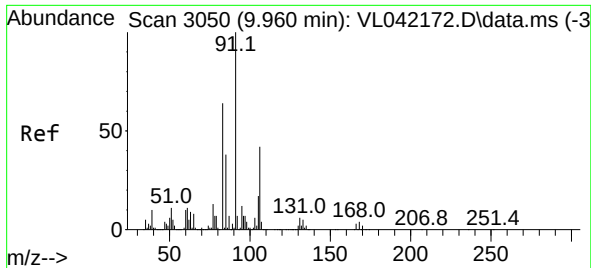
Delta R.T. -0.020 min

Lab File: VL042295.D

Acq: 09 Apr 2025 16:23

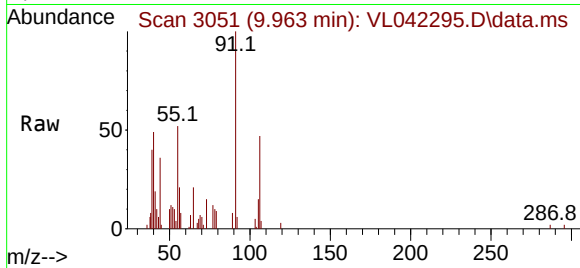
Tgt Ion: 91	Resp:	9059
Ion Ratio	Lower	Upper
91	100	
106	0.0	36.4





#60
o-Xylene
Concen: 0.103 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. 0.003 min
Lab File: VL042295.D
Acq: 09 Apr 2025 16:23

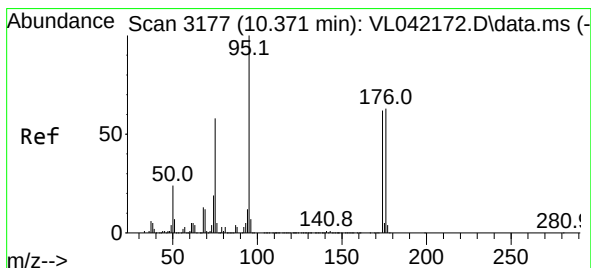
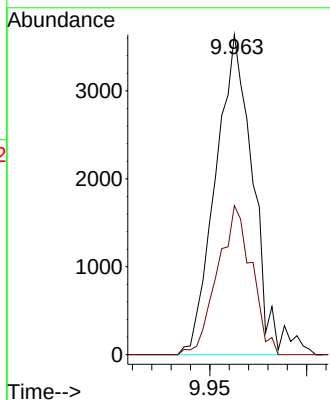
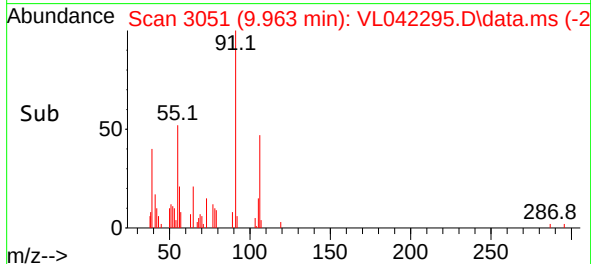
Instrument :
MSVOA_L
ClientSampleId :
IA-B9-2-3242025



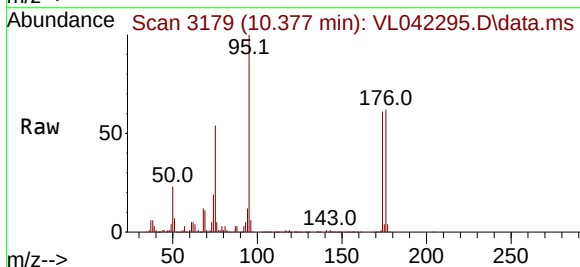
Tgt Ion: 91 Resp: 4768
Ion Ratio Lower Upper
91 100
106 43.4 20.8 62.5

Manual Integrations
APPROVED

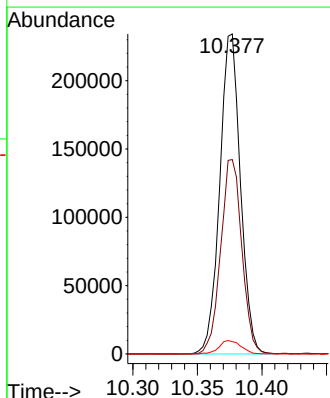
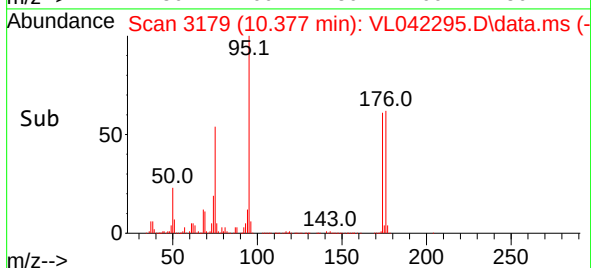
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 9.709 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.006 min
Lab File: VL042295.D
Acq: 09 Apr 2025 16:23



Tgt Ion: 95 Resp: 260627
Ion Ratio Lower Upper
95 100
174 62.2 50.6 76.0
175 4.5 3.8 5.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042295.D
Acq On : 09 Apr 2025 16:23
Operator : SY/MD
Sample : Q1665-09
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B9-2-3242025

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\VL032725AIR.M

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

Signal : TIC: VL042295.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	4129338	4562717	100.00%	41.033%
2	1.489	430	433	439	rVB2	670119	339449	7.44%	3.053%
3	1.560	451	455	459	rVB2	191945	107746	2.36%	0.969%
4	1.622	470	474	478	rVB	223093	119679	2.62%	1.076%
5	1.722	500	505	509	rVB	78708	48107	1.05%	0.433%
6	1.835	535	540	548	rBV2	318759	270034	5.92%	2.428%
7	1.887	548	556	564	rBV	634452	460116	10.08%	4.138%
8	1.962	575	579	584	rVB	74343	51516	1.13%	0.463%
9	2.059	599	609	618	rBV2	72583	70998	1.56%	0.638%
10	2.560	758	764	775	rBV	148170	142597	3.13%	1.282%
11	2.787	825	834	840	rBV	563234	583683	12.79%	5.249%
12	2.826	840	846	861	rVB2	231138	263623	5.78%	2.371%
13	3.959	1181	1196	1213	rBV	685084	1034851	22.68%	9.306%
14	6.933	2103	2115	2129	rBV4	25955	60156	1.32%	0.541%
15	7.694	2338	2350	2363	rBV6	24740	45915	1.01%	0.413%
16	8.882	2704	2717	2726	rBV	833396	1155582	25.33%	10.392%
17	8.937	2726	2734	2743	rVB5	44994	81546	1.79%	0.733%
18	9.946	3038	3046	3065	rVB9	26083	59766	1.31%	0.537%
19	10.377	3166	3179	3190	rBV	1085554	1229439	26.95%	11.056%
20	10.807	3302	3312	3320	rBV2	229938	262238	5.75%	2.358%
21	10.856	3320	3327	3337	rVB2	98488	122350	2.68%	1.100%
22	11.426	3492	3503	3515	rVB4	37751	47637	1.04%	0.428%

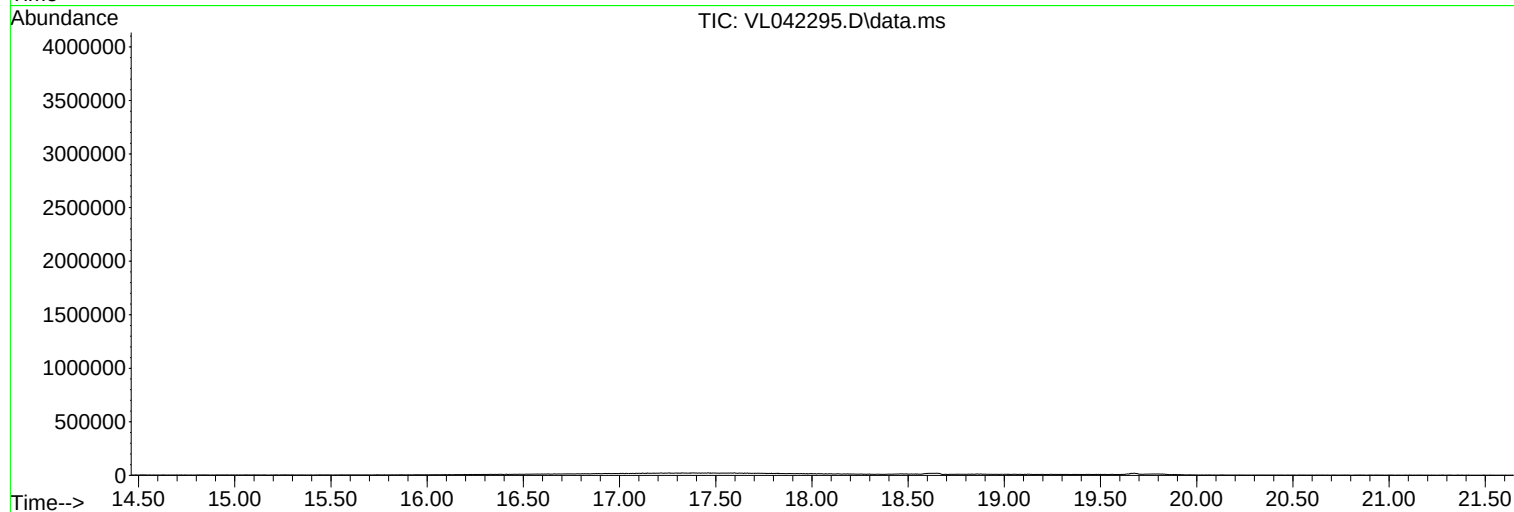
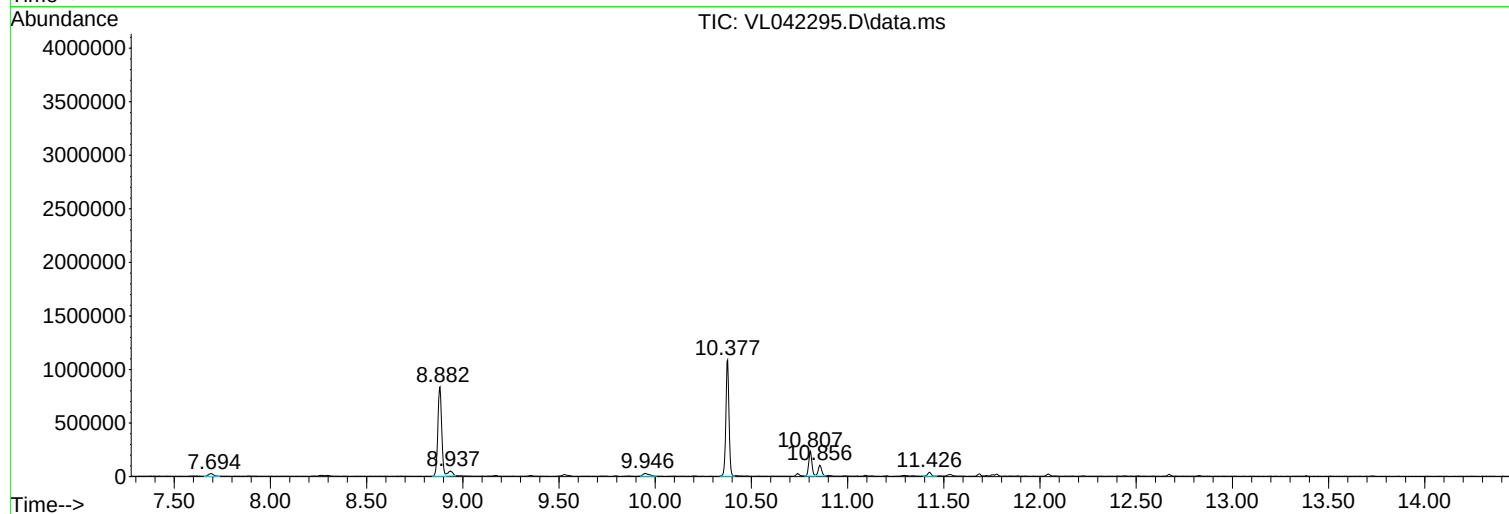
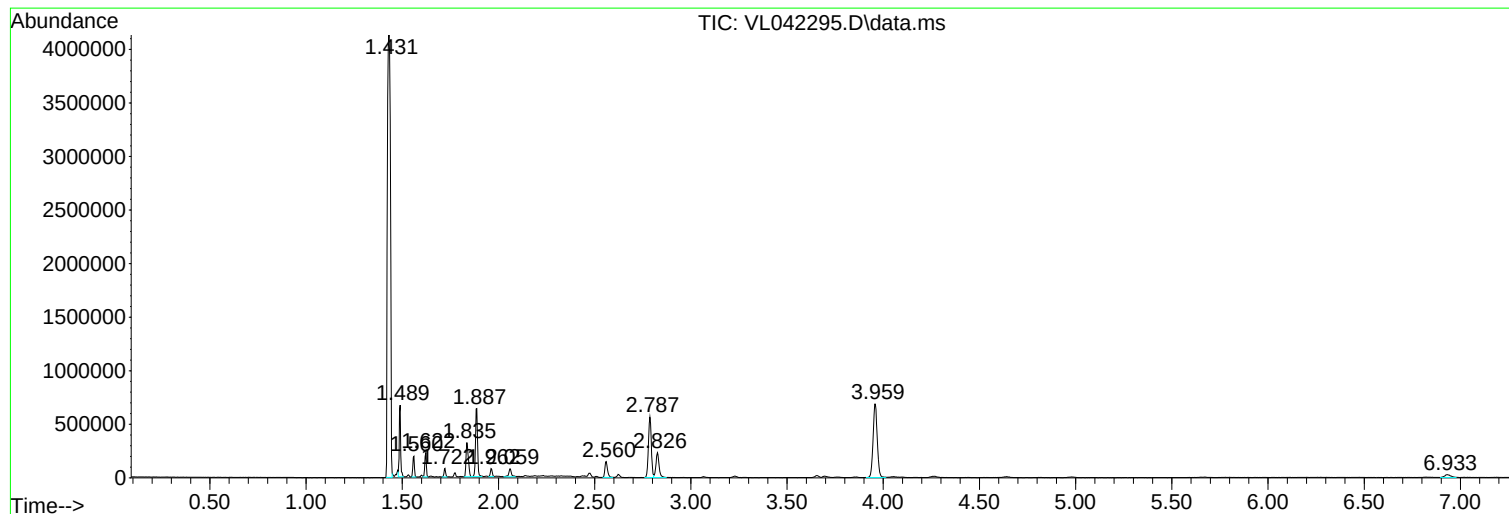
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Data File : VL042295.D
Acq On : 09 Apr 2025 16:23
Operator : SY/MD
Sample : Q1665-09
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B9-2-3242025

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

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042295.D
Acq On : 09 Apr 2025 16:23
Operator : SY/MD
Sample : Q1665-09
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B9-2-3242025

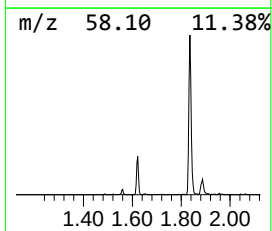
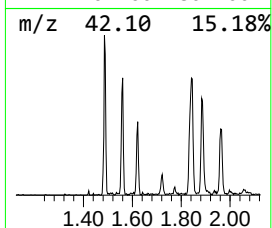
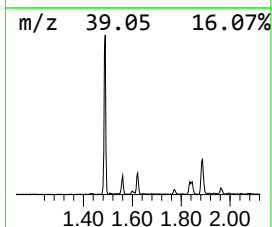
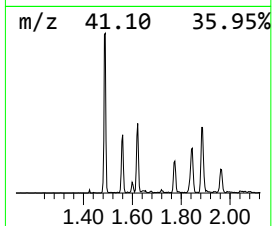
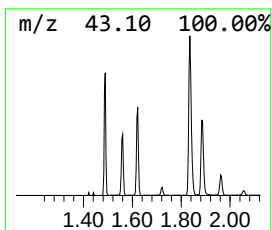
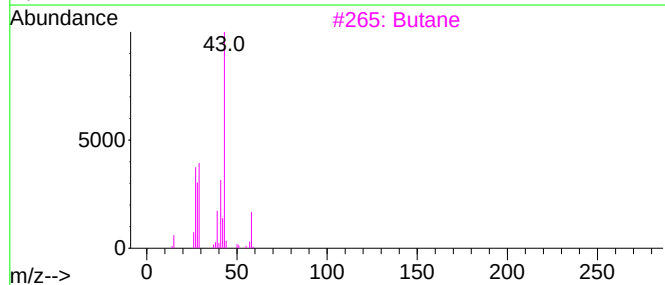
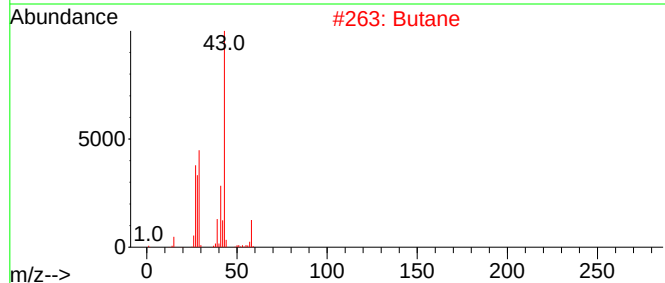
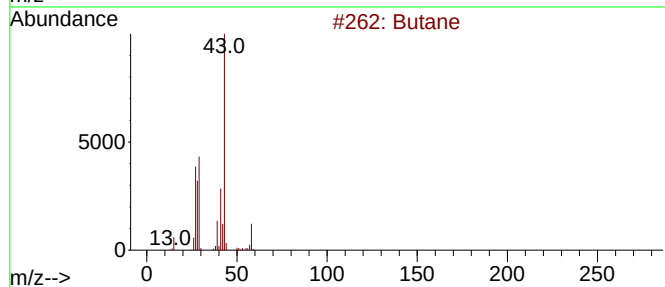
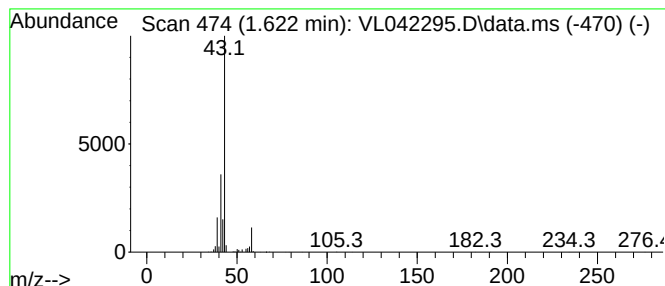
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 1 Butane Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.622	2.05 ppbv	119679	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\VL040925\
Data File : VL042295.D
Acq On : 09 Apr 2025 16:23
Operator : SY/MD
Sample : Q1665-09
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B9-2-3242025

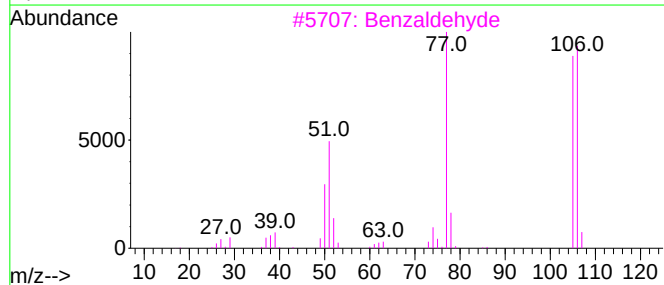
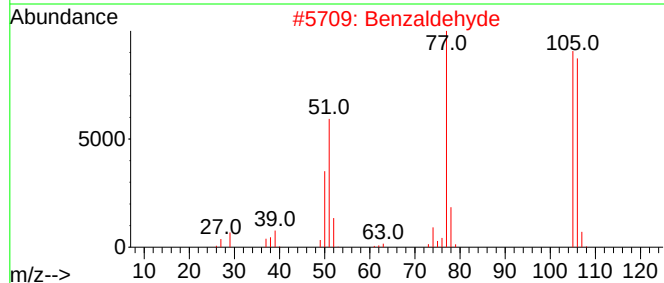
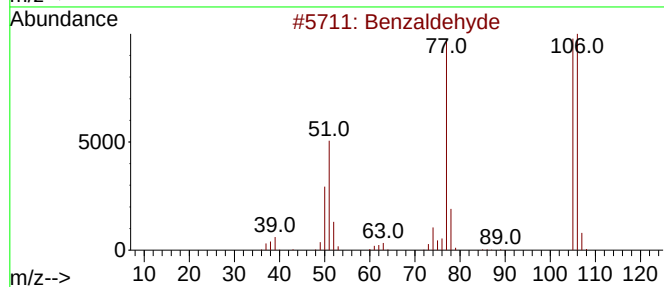
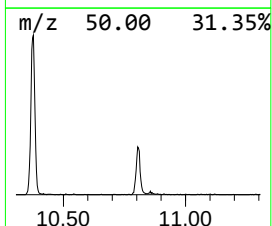
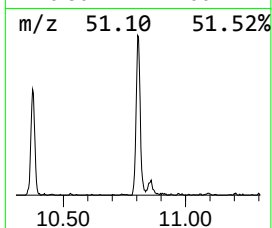
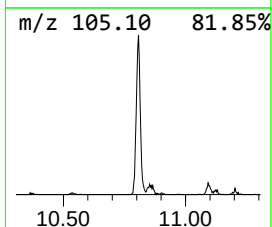
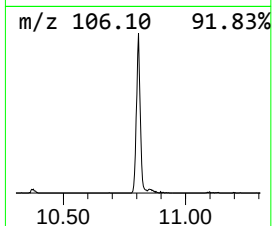
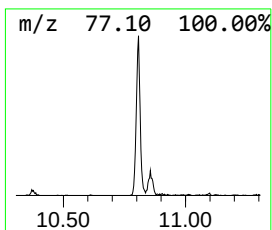
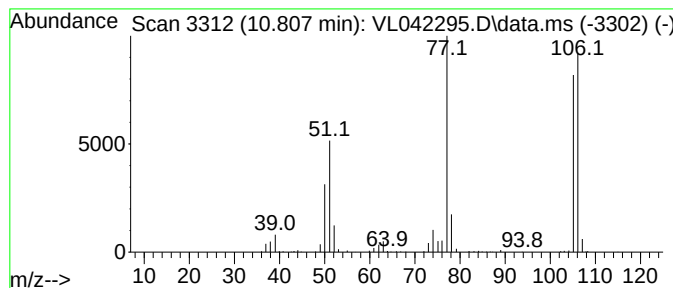
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 2 Benzaldehyde Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.807	2.27 ppbv	262238	Chlorobenzene-d5	8.882

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzaldehyde	106	C7H6O	000100-52-7	97
2			Benzaldehyde	106	C7H6O	000100-52-7	97
3			Benzaldehyde	106	C7H6O	000100-52-7	96
4			Benzaldehyde	106	C7H6O	000100-52-7	94
5			Benzaldehyde	106	C7H6O	000100-52-7	91



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042295.D
Acq On : 09 Apr 2025 16:23
Operator : SY/MD
Sample : Q1665-09
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B9-2-3242025

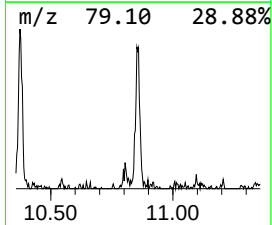
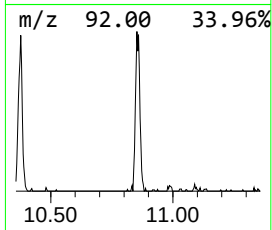
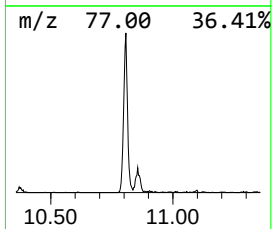
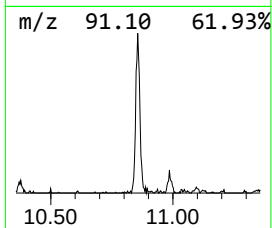
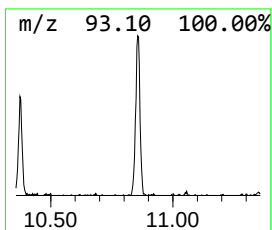
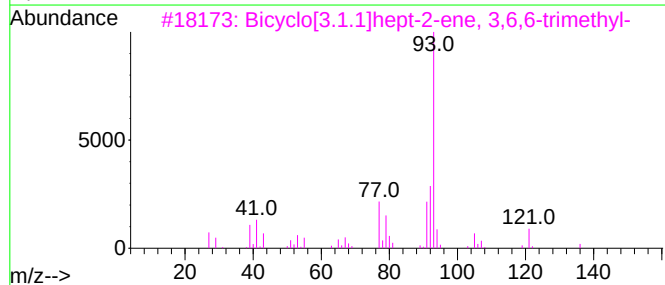
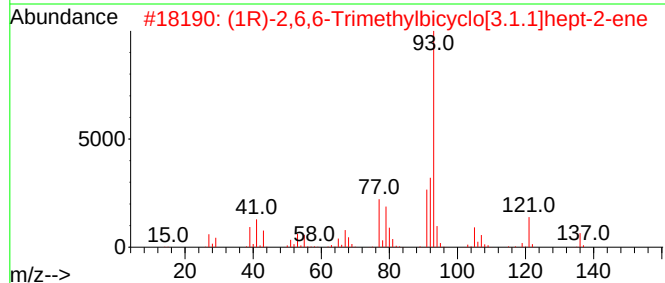
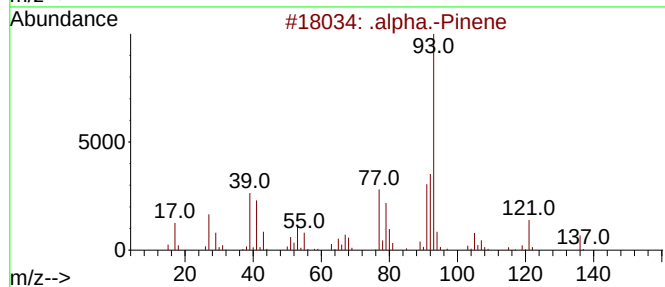
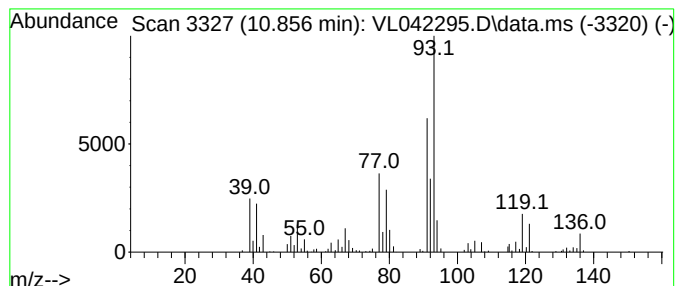
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 3 .alpha.-Pinene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.856	1.06 ppbv	122350	Chlorobenzene-d5	8.882

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	.		.alpha.-Pinene	136	C10H16	000080-56-8	90
2	(1R)-2,6,6-Trimethylbicyclo[3.1...			136	C10H16	007785-70-8	90
3	Bicyclo[3.1.1]hept-2-ene, 3,6,6-...			136	C10H16	004889-83-2	90
4	.gamma.-Terpinene			136	C10H16	000099-85-4	90
5	.beta.-Pinene			136	C10H16	000127-91-3	87



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042295.D
Acq On : 09 Apr 2025 16:23
Operator : SY/MD
Sample : Q1665-09
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B9-2-3242025

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

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	2.0	ppbv	119679	1	2.787	583683	10.0
Benzaldehyde	10.807	2.3	ppbv	262238	3	8.882	1155580	10.0
.alpha.-Pinene	10.856	1.1	ppbv	122350	3	8.882	1155580	10.0

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/25/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	03/26/25
Client Sample ID:	IA-B10-4-3242025	SDG No.:	Q1665
Lab Sample ID:	Q1665-10	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
VL042319.D	1		04/11/25 14:27	VL041125

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.39	1.93	J	1.04	2.47	ug/m3
74-87-3	Chloromethane	0.61	1.26		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	0.19	1.07	J	0.90	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.16	1.23	U	1.23	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.090	0.63	U	0.63	3.49	ug/m3
75-65-0	tert-Butyl alcohol	0.21	0.64	J	0.58	1.52	ug/m3
142-82-5	Heptane	0.14	0.57	J	0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
67-64-1	Acetone	76.7	182	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	0.59	2.05		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	160	472	E	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	0.58	2.83		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	J	0.47	2.34	ug/m3
71-43-2	Benzene	0.47	1.50	J	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	0.42	1.58	J	0.41	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.070	0.38	U	0.38	2.73	ug/m3

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/25/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	03/26/25
Client Sample ID:	IA-B10-4-3242025	SDG No.:	Q1665
Lab Sample ID:	Q1665-10	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
VL042319.D	1		04/11/25 14:27	VL041125

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.070	0.60	U	0.60	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.070	0.54	U	0.54	0.77	ug/m3
127-18-4	Tetrachloroethene	0.020	0.14	U	0.14	0.20	ug/m3
108-90-7	Chlorobenzene	0.080	0.37	U	0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	0.12	0.52	U	0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	0.21	0.91	U	0.91	4.34	ug/m3
95-47-6	o-Xylene	0.12	0.52	U	0.52	2.17	ug/m3
100-42-5	Styrene	0.11	0.47	U	0.47	2.13	ug/m3
75-25-2	Bromoform	0.060	0.62	U	0.62	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.010	0.070	UQ	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	0.11	0.54	J	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	UQ	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	2.20	7.75		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	9.60		70 (65) - 130 (135)	96%	SPK: 10
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INTERNAL STANDARDS

74-97-5	Bromochloromethane	191000	2.787
540-36-3	1,4-Difluorobenzene	461000	3.962
3114-55-4	Chlorobenzene-d5	384000	8.885

TENTATIVE IDENTIFIED COMPOUNDS

75-45-6	Chlorodifluoromethane	0.31	J	1.48	ppbv
115-07-1	Propene	110	J	1.49	ppbv
64-17-5	Ethanol	870	J	1.72	ppbv

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/25/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	03/26/25
Client Sample ID:	IA-B10-4-3242025	SDG No.:	Q1665
Lab Sample ID:	Q1665-10	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
VL042319.D	1		04/11/25 14:27	VL041125

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
67-63-0	Isopropyl Alcohol	210		J		1.89	ppbv
000138-86-3	Limonene	6.40		J		12.0	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\VL041125\
 Data File : VL042319.D
 Acq On : 11 Apr 2025 14:27
 Operator : SY/MD
 Sample : Q1665-10
 Misc : 400mL/MSVOA_L
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B10-4-3242025

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/16/2025
 Supervised By :Mahesh Dadoda 04/17/2025

Quant Time: Apr 11 23:00:29 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

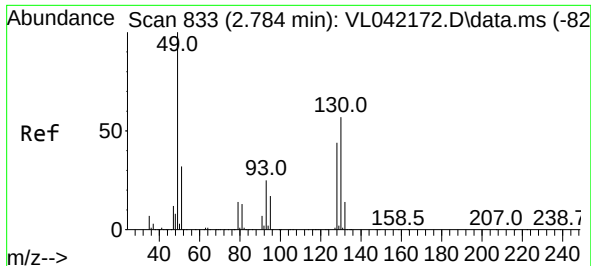
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Fri Mar 28 02:00:52 2025

Response via : Initial Calibration

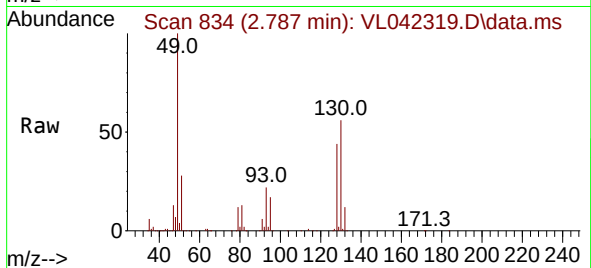
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.787	49	190778	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	461210	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	383940	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	301822	9.573	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.700%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	10940	0.388	ppbv	100
3) Chlorodifluoromethane	1.476	51	8870m	0.308	ppbv	
4) Chloromethane	1.531	50	6976	0.606	ppbv	98
9) Propene	1.486	41	1470651m	111.500	ppbv	
10) Heptane	4.985	43	4922m	0.140	ppbv	
11) Trichlorofluoromethane	1.878	101	5102	0.186	ppbv	87
13) Ethanol	1.722	45	1088476	872.986	ppbv	86
15) Acetone	1.836	43	2047600	76.743	ppbv #	79
17) tert-Butyl alcohol	2.046	59	6995	0.210	ppbv #	37
19) Isopropyl Alcohol	1.891	45	3151010	209.311	ppbv #	32
20) Methylene Chloride	2.062	84	5890	0.593	ppbv	86
26) Hexane	2.826	57	60038	2.245	ppbv #	4
29) Chloroform	2.849	83	22740	0.581	ppbv	100
34) 2-Butanone	2.564	43	5516146	164.939	ppbv #	36
35) Carbon Tetrachloride	3.761	117	2766m	0.077	ppbv	
36) Benzene	3.655	78	21386	0.468	ppbv #	93
44) 2,2,4-Trimethylpentane	4.645	57	7908m	0.102	ppbv	
53) Toluene	6.937	91	22633m	0.418	ppbv	
59) m/p-Xylene	9.532	91	10027m	0.184	ppbv	
74) 1,2,4-Trimethylbenzene	11.539	105	7147	0.105	ppbv #	67

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



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 834
Delta R.T. 0.003 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

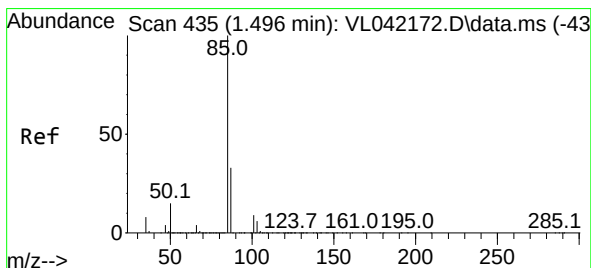
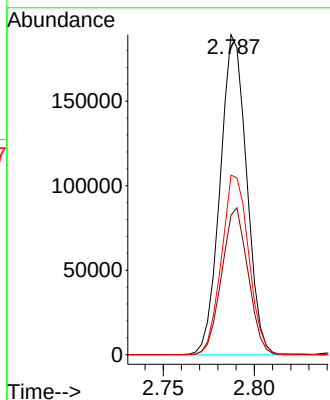
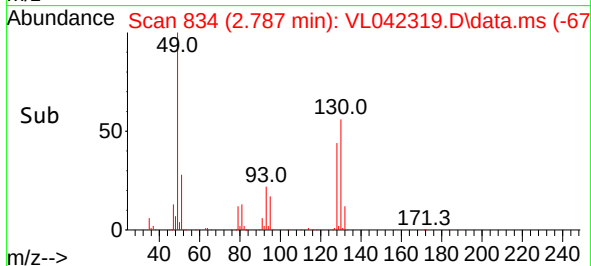
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-4-3242025



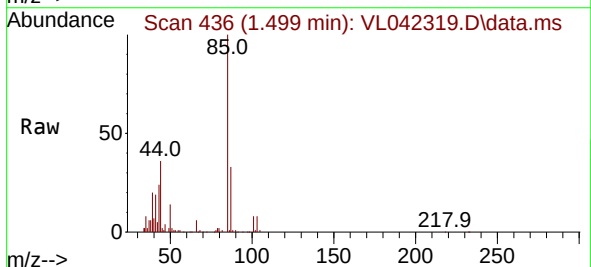
Tgt Ion: 49 Resp: 190778
Ion Ratio Lower Upper
49 100
128 45.7 22.9 68.5
130 57.8 28.8 86.4

Manual Integrations
APPROVED

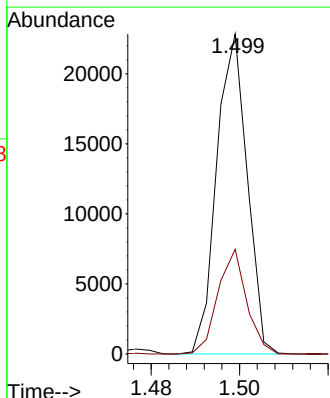
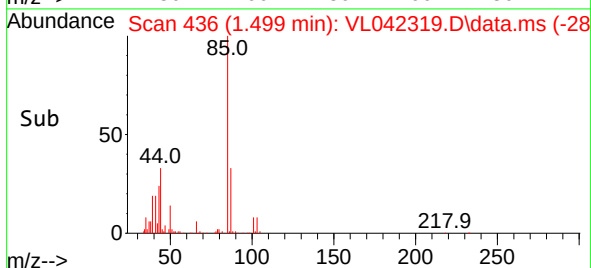
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

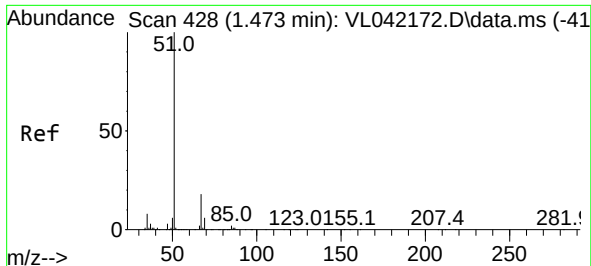


#2
Dichlorodifluoromethane
Concen: 0.388 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27



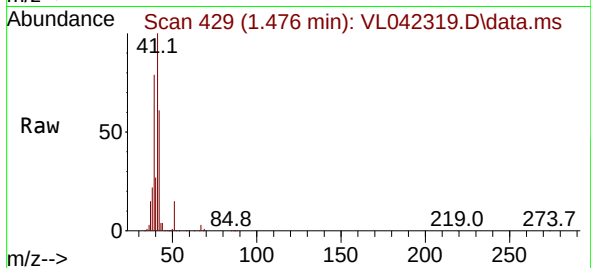
Tgt Ion: 85 Resp: 10940
Ion Ratio Lower Upper
85 100
87 32.7 26.1 39.1





#3
Chlorodifluoromethane
Concen: 0.308 ppbv m
RT: 1.476 min Scan# 428
Delta R.T. 0.003 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

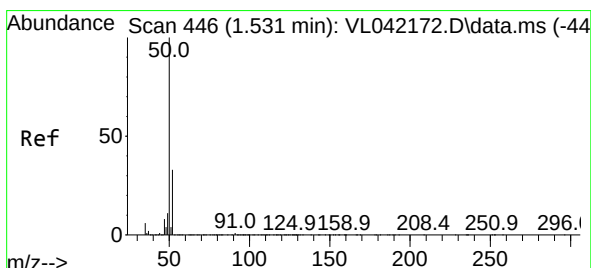
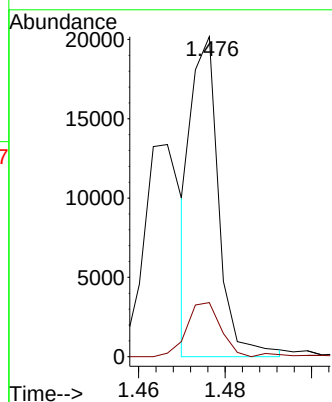
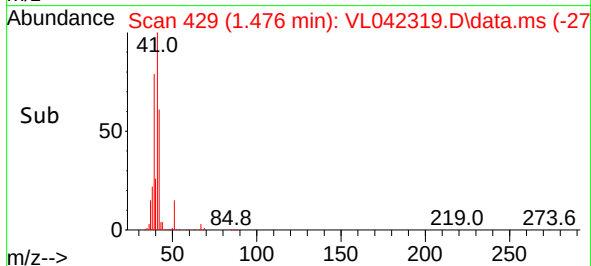
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-4-3242025



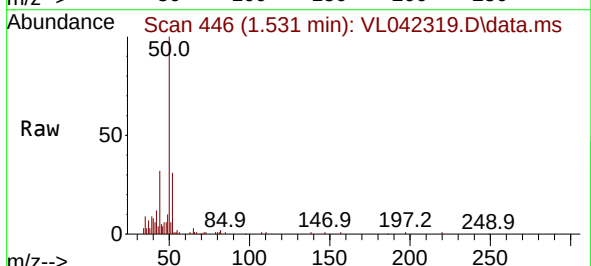
Tgt Ion: 51 Resp: 8870
Ion Ratio Lower Upper
51 100
67 24.1 15.0 22.6

Manual Integrations
APPROVED

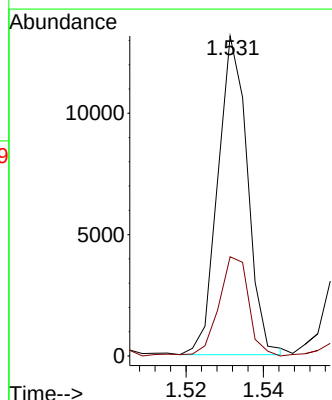
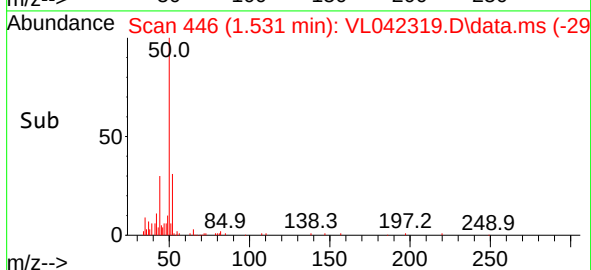
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

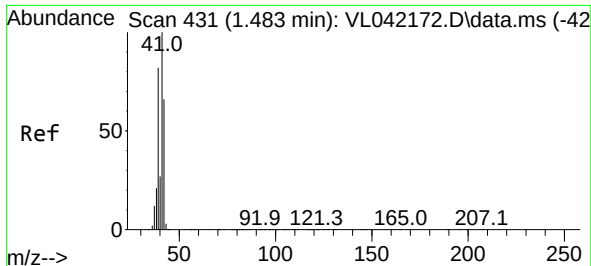


#4
Chloromethane
Concen: 0.606 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27



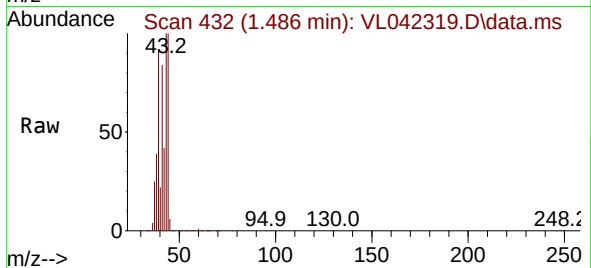
Tgt Ion: 50 Resp: 6976
Ion Ratio Lower Upper
50 100
52 31.5 26.1 39.1





#9
Propene
Concen: 111.500 ppbv m
RT: 1.486 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

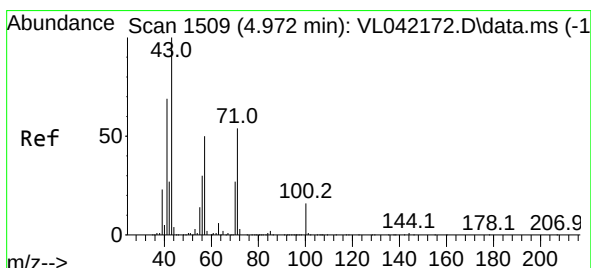
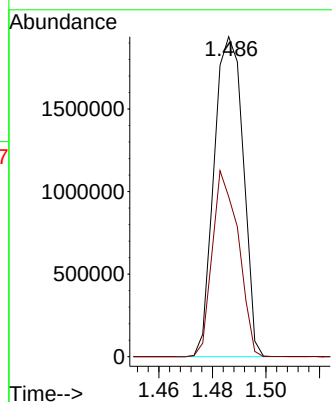
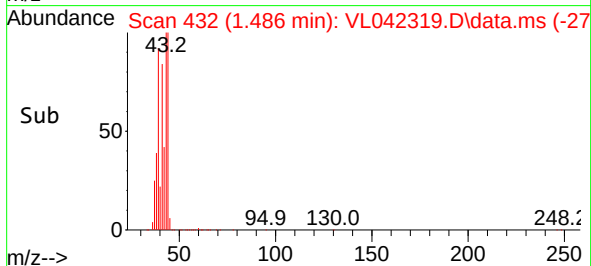
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-4-3242025



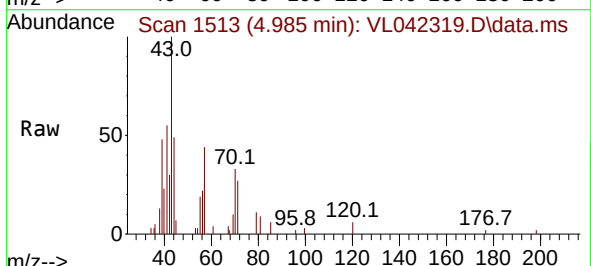
Tgt Ion: 41 Resp: 147065
Ion Ratio Lower Upper
41 100
42 4.1 55.4 83.2

Manual Integrations
APPROVED

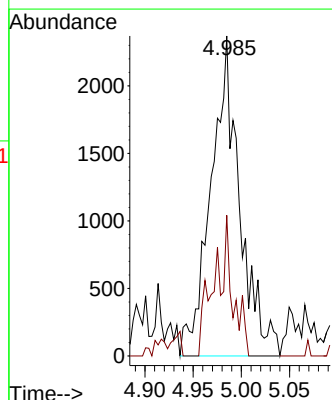
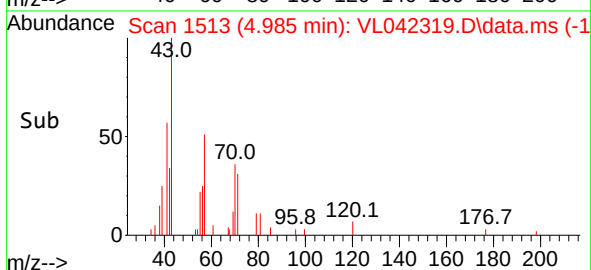
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

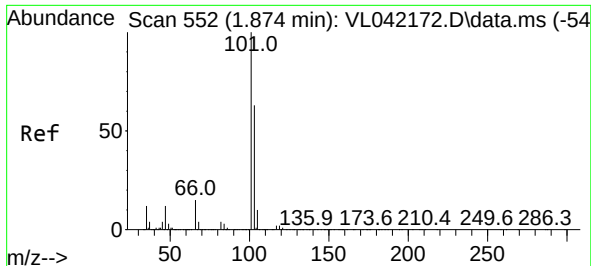


#10
Heptane
Concen: 0.140 ppbv m
RT: 4.985 min Scan# 1513
Delta R.T. 0.013 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27



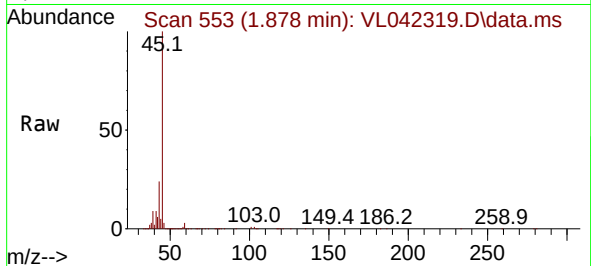
Tgt Ion: 43 Resp: 4922
Ion Ratio Lower Upper
43 100
57 27.8 39.4 59.2





#11
Trichlorofluoromethane
Concen: 0.186 ppbv
RT: 1.878 min Scan# 510
Delta R.T. 0.003 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

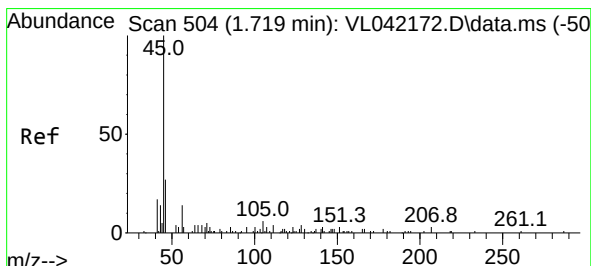
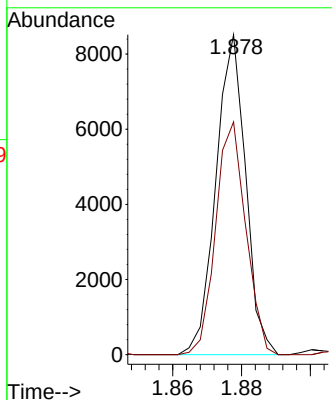
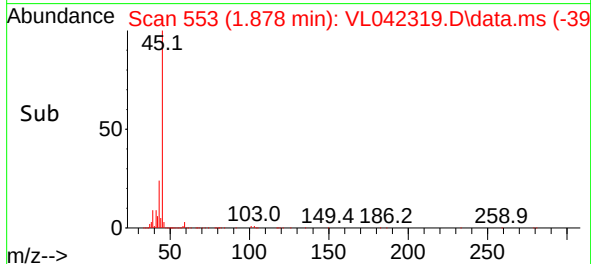
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-4-3242025



Tgt Ion:101 Resp: 510
Ion Ratio Lower Upper
101 100
103 72.7 50.2 75.2

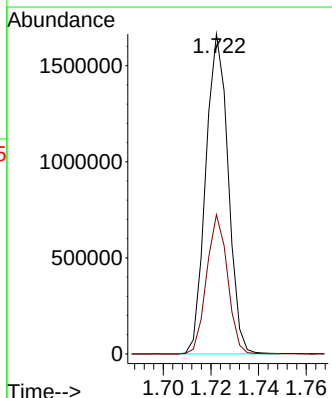
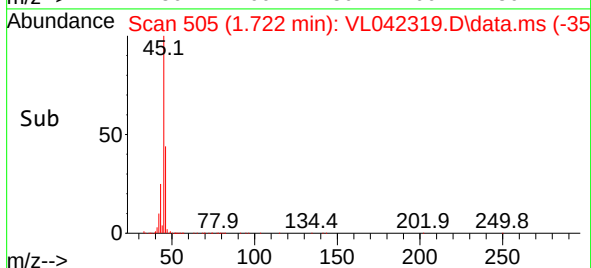
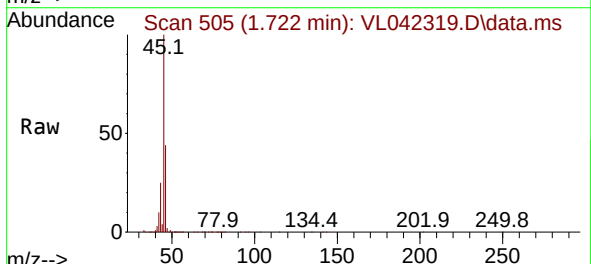
Manual Integrations
APPROVED

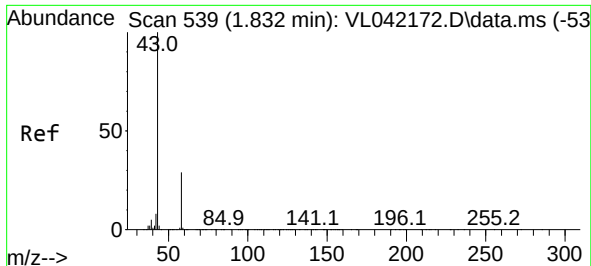
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#13
Ethanol
Concen: 872.986 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

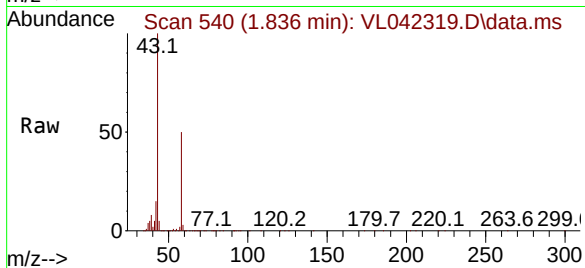
Tgt Ion: 45 Resp: 1088476
Ion Ratio Lower Upper
45 100
46 40.7 20.2 80.8





#15
Acetone
Concen: 76.743 ppbv
RT: 1.836 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

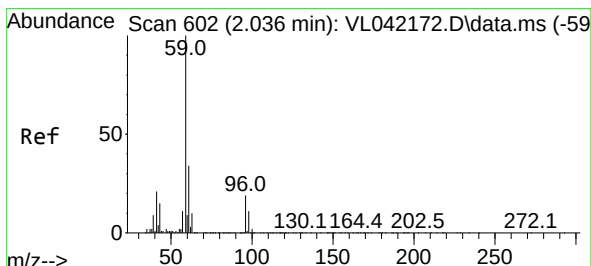
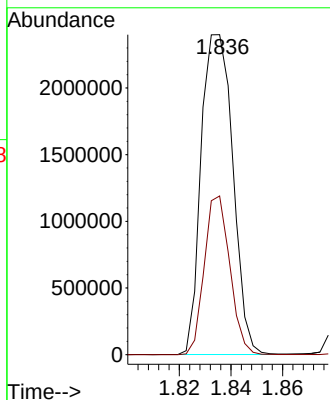
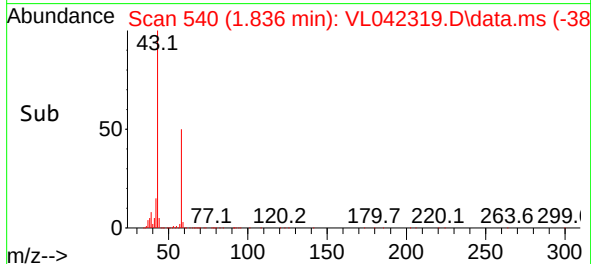
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-4-3242025



Tgt Ion: 43 Resp: 2047600
Ion Ratio Lower Upper
43 100
58 40.0 23.2 34.8

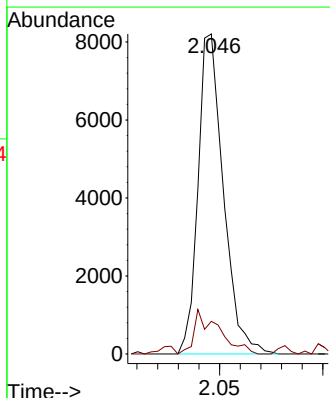
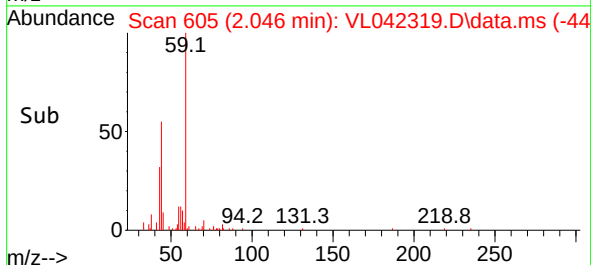
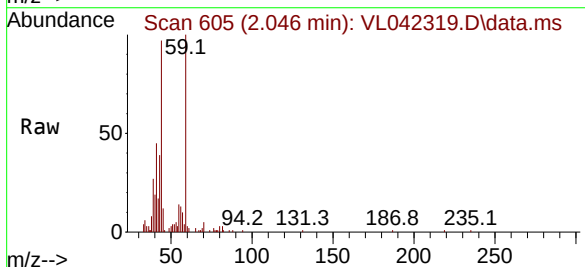
Manual Integrations
APPROVED

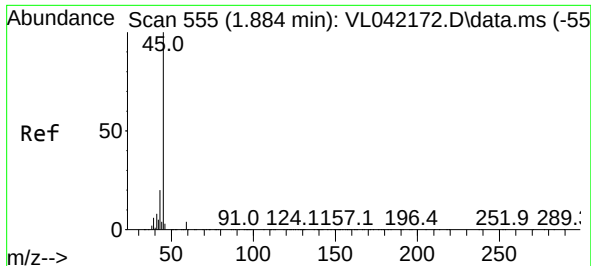
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#17
tert-Butyl alcohol
Concen: 0.210 ppbv
RT: 2.046 min Scan# 605
Delta R.T. 0.010 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

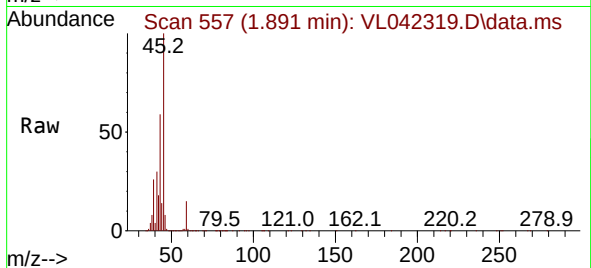
Tgt Ion: 59 Resp: 6995
Ion Ratio Lower Upper
59 100
57 35.0 8.9 13.3





#19
Isopropyl Alcohol
Concen: 209.311 ppbv
RT: 1.891 min Scan# 510
Delta R.T. 0.006 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

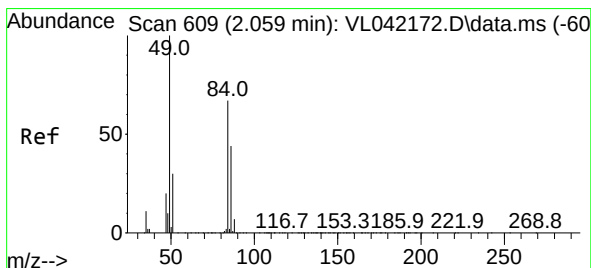
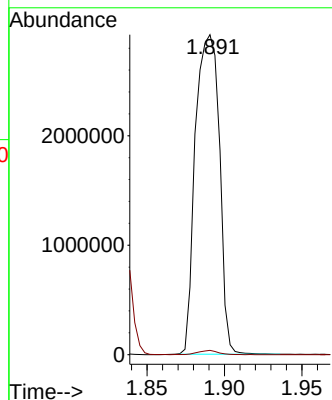
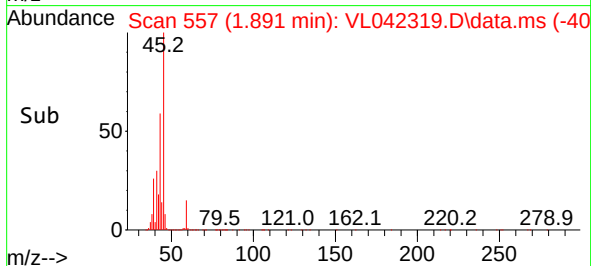
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-4-3242025



Tgt Ion: 45 Resp: 3151010
Ion Ratio Lower Upper
45 100
58 1.1 36.9 55.3

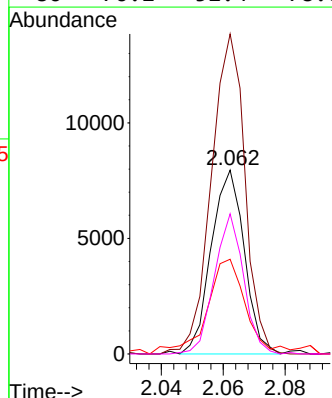
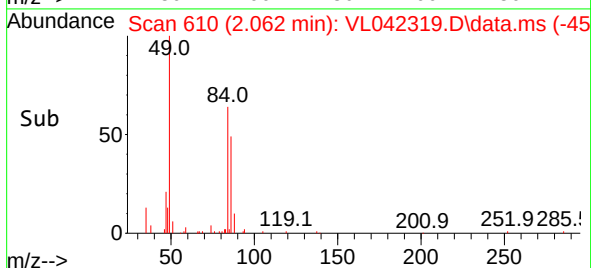
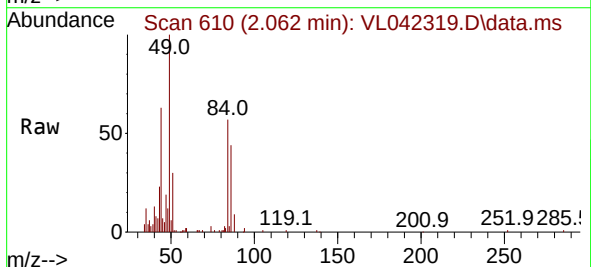
Manual Integrations
APPROVED

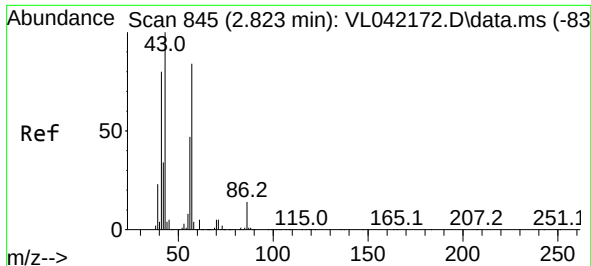
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#20
Methylene Chloride
Concen: 0.593 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

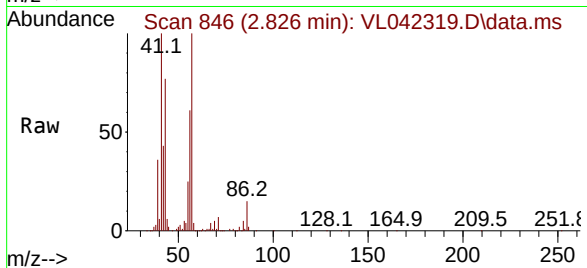
Tgt Ion: 84 Resp: 5890
Ion Ratio Lower Upper
84 100
49 173.3 120.2 180.4
51 47.2 37.4 56.0
86 76.2 52.4 78.6





#26
Hexane
Concen: 2.245 ppbv
RT: 2.826 min Scan# 84
Delta R.T. 0.003 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

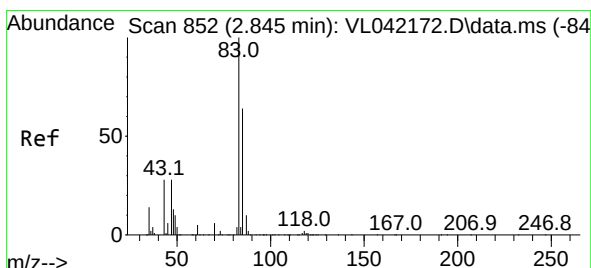
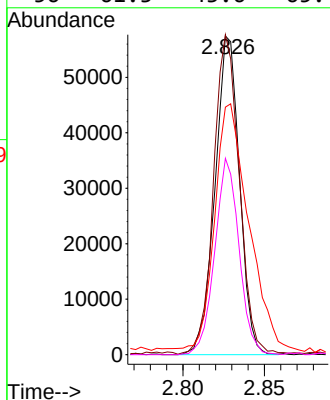
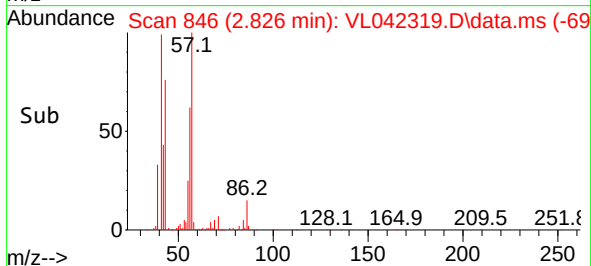
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-4-3242025



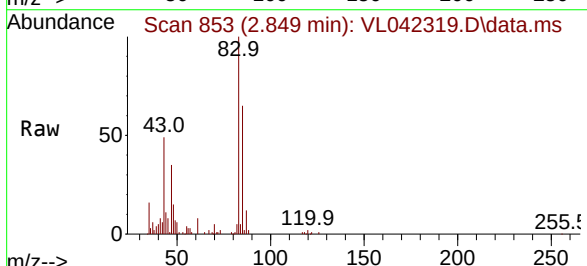
Tgt Ion: 57 Resp: 6003
Ion Ratio Lower Upper
57 100
41 106.2 76.6 114.8
43 0.0 207.8 311.8
56 61.3 43.6 65.4

Manual Integrations
APPROVED

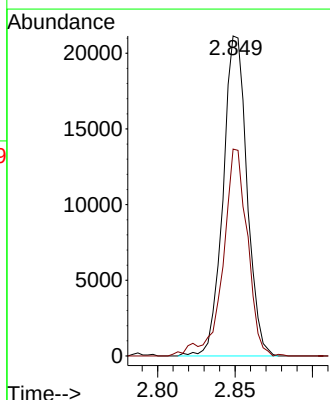
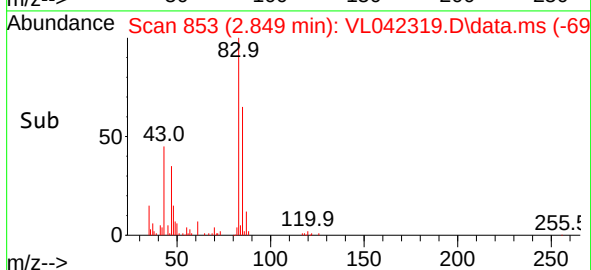
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

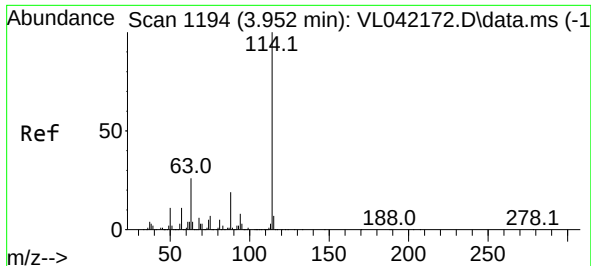


#29
Chloroform
Concen: 0.581 ppbv
RT: 2.849 min Scan# 853
Delta R.T. 0.003 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27



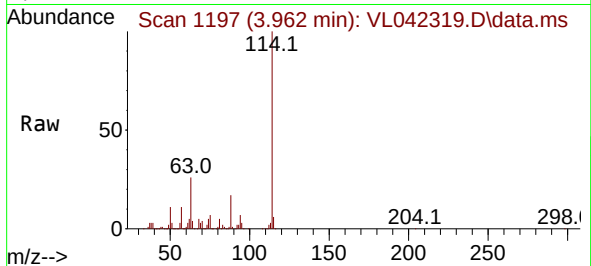
Tgt Ion: 83 Resp: 22740
Ion Ratio Lower Upper
83 100
85 64.2 51.4 77.2





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1194
Delta R.T. 0.010 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

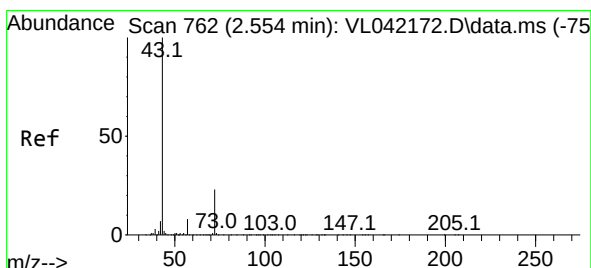
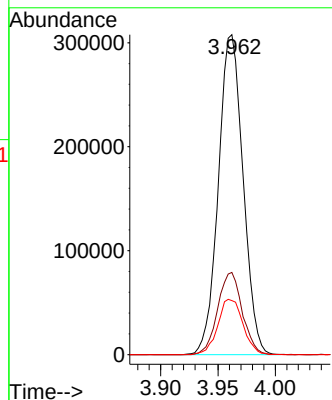
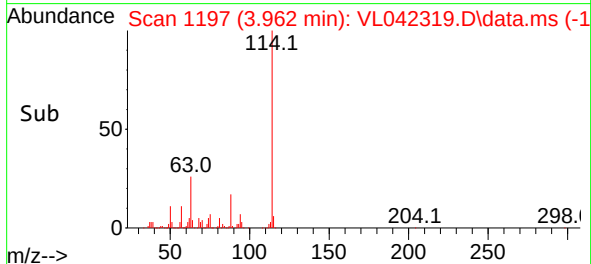
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-4-3242025



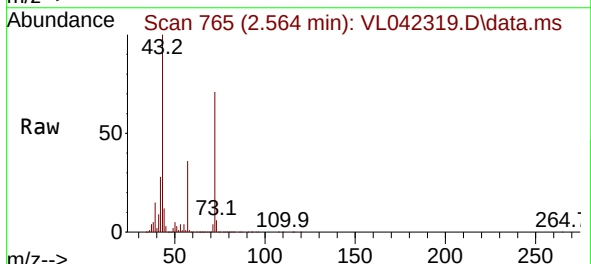
Tgt Ion:114 Resp: 461210
Ion Ratio Lower Upper
114 100
63 25.6 20.7 31.1
88 17.7 15.0 22.4

Manual Integrations
APPROVED

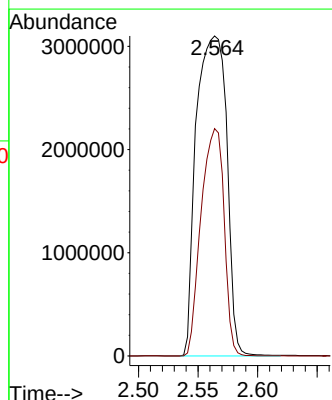
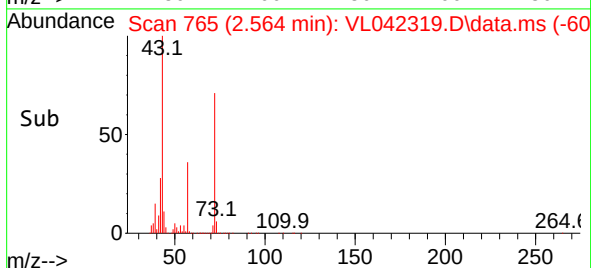
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

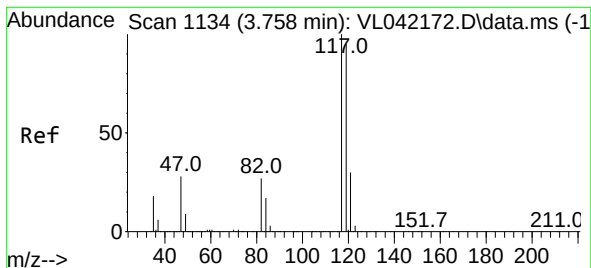


#34
2-Butanone
Concen: 164.939 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.010 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27



Tgt Ion: 43 Resp: 5516146
Ion Ratio Lower Upper
43 100
72 53.8 18.2 27.2#





#35

Carbon Tetrachloride

Concen: 0.077 ppbv m

RT: 3.761 min Scan# 1135

Delta R.T. 0.003 min

Lab File: VL042319.D

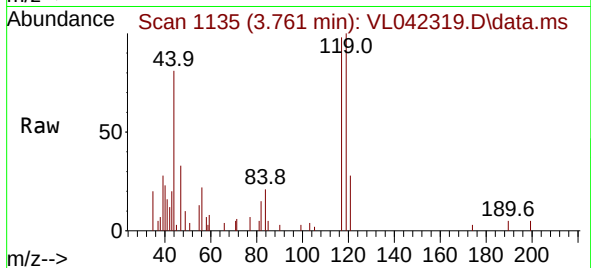
Acq: 11 Apr 2025 14:27

Instrument :

MSVOA_L

ClientSampleId :

LA-B10-4-3242025



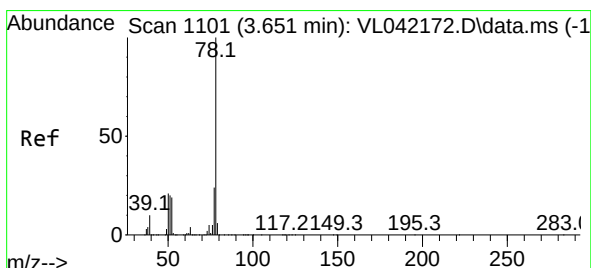
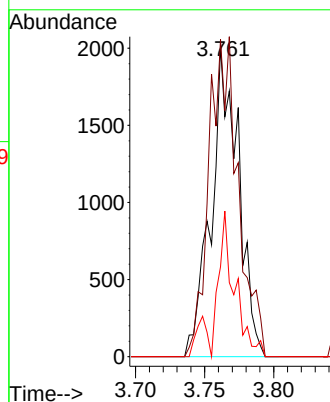
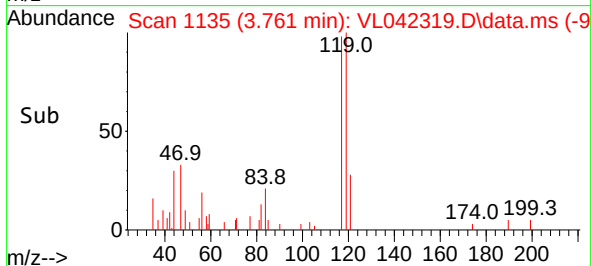
Tgt Ion: 117	Resp: 2760
Ion Ratio	Lower Upper
117 100	
119 102.3	76.2 114.2
121 29.0	24.2 36.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/16/2025

Supervised By :Mahesh Dadoda 04/17/2025



#36

Benzene

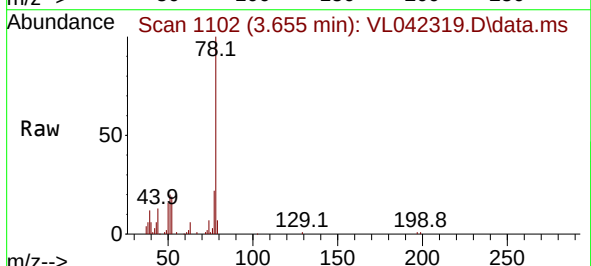
Concen: 0.468 ppbv

RT: 3.655 min Scan# 1102

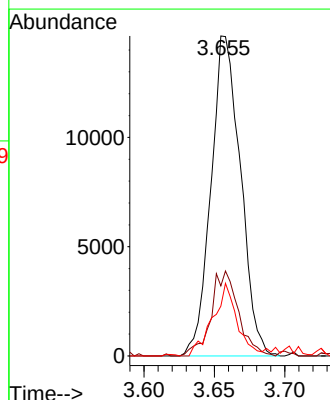
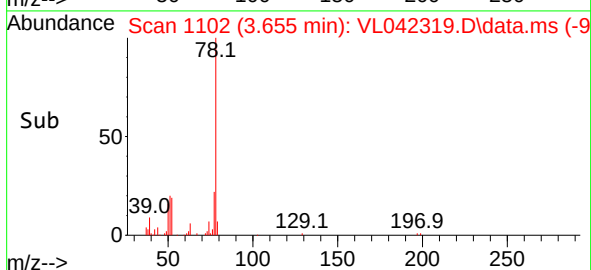
Delta R.T. 0.003 min

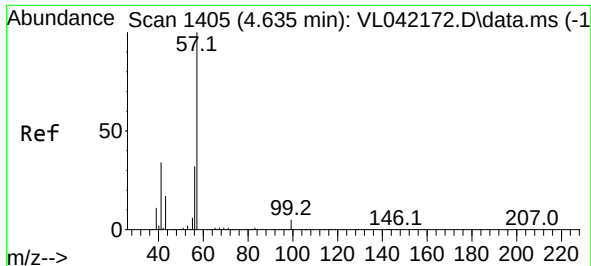
Lab File: VL042319.D

Acq: 11 Apr 2025 14:27



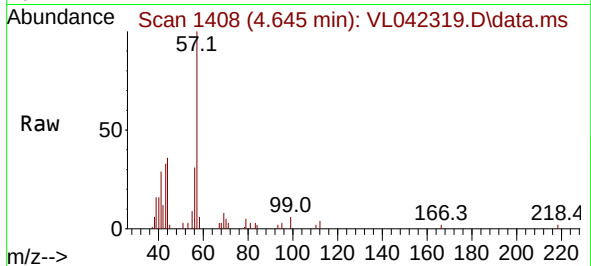
Tgt Ion: 78	Resp: 21386
Ion Ratio	Lower Upper
78 100	
77 21.9	19.1 28.7
50 15.6	16.6 24.8





#44
2,2,4-Trimethylpentane
Concen: 0.102 ppbv m
RT: 4.645 min Scan# 1408
Delta R.T. 0.010 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

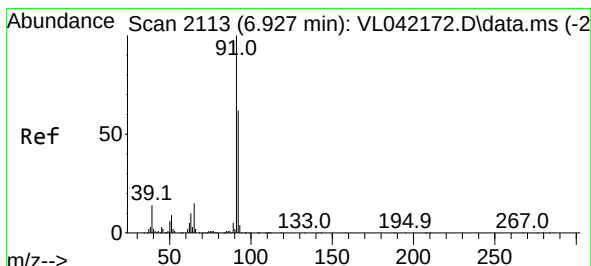
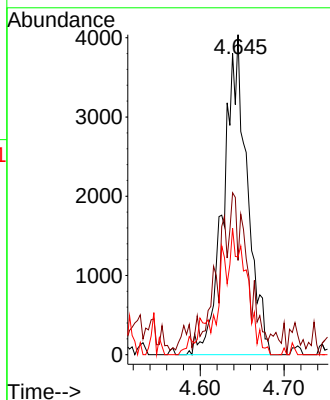
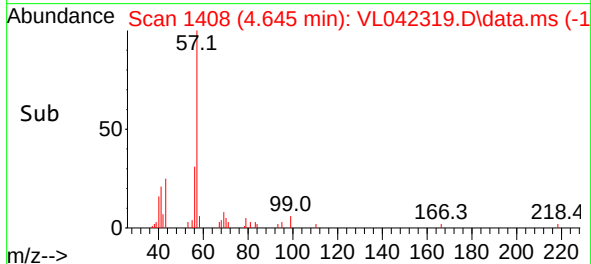
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-4-3242025



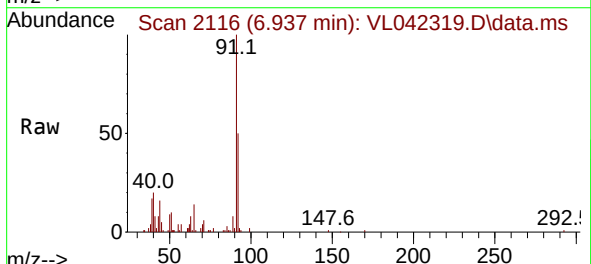
Tgt Ion: 57 Resp: 7908
Ion Ratio Lower Upper
57 100
41 62.5 26.8 40.2
56 47.2 25.6 38.4

Manual Integrations
APPROVED

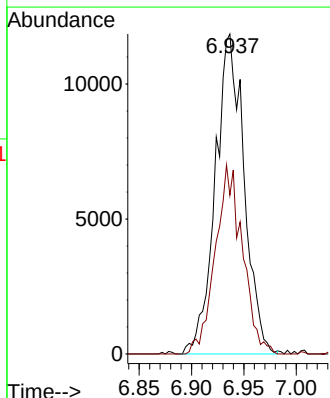
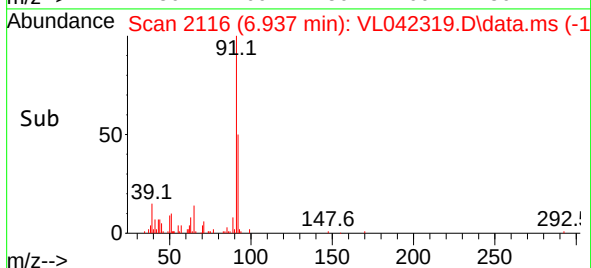
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

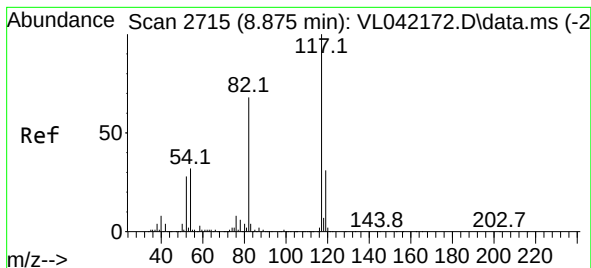


#53
Toluene
Concen: 0.418 ppbv m
RT: 6.937 min Scan# 2116
Delta R.T. 0.010 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27



Tgt Ion: 91 Resp: 22633
Ion Ratio Lower Upper
91 100
92 0.0 48.4 72.6





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.885 min Scan# 21

Delta R.T. 0.010 min

Lab File: VL042319.D

Acq: 11 Apr 2025 14:27

Instrument :

MSVOA_L

ClientSampleId :

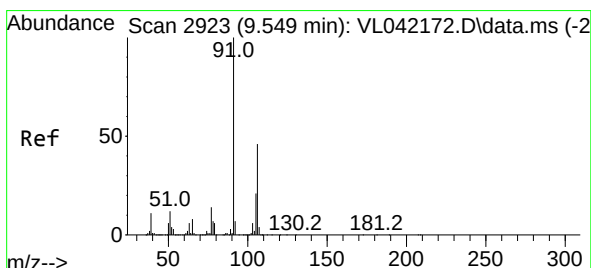
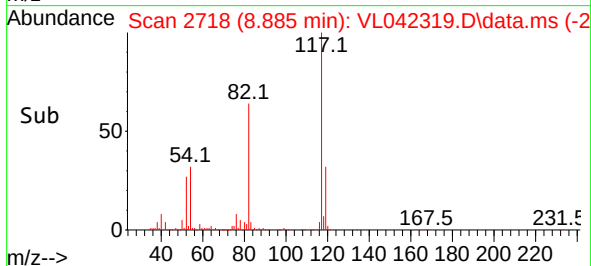
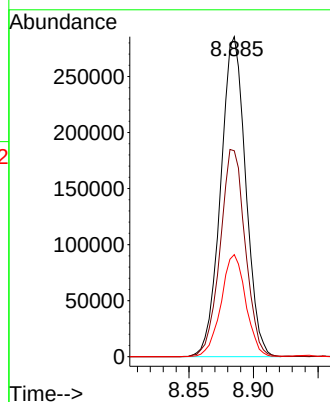
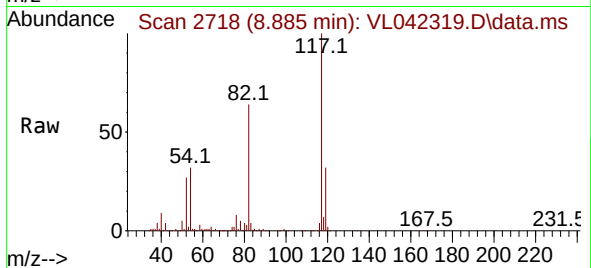
IA-B10-4-3242025

Tgt Ion:	117	Resp:	383940
Ion Ratio	Lower	Upper	
117	100		
82	65.1	55.8	83.6
119	31.7	25.5	38.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#59

m/p-Xylene

Concen: 0.184 ppbv m

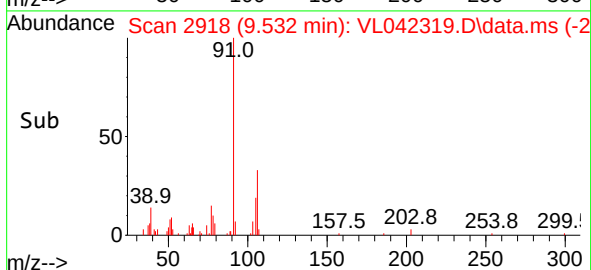
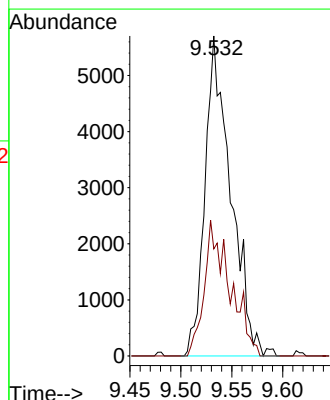
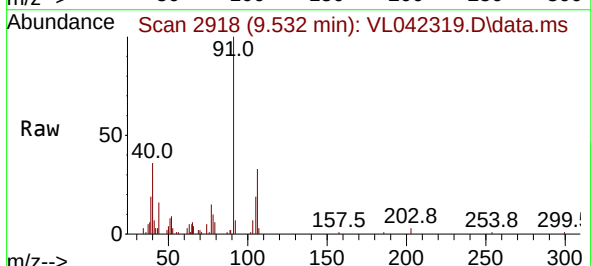
RT: 9.532 min Scan# 2918

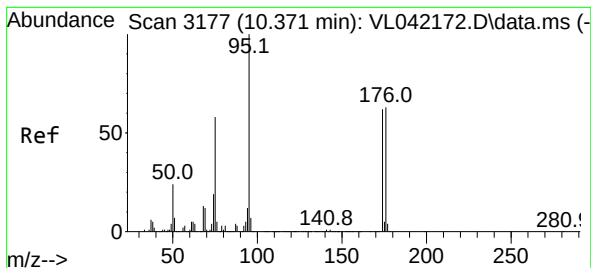
Delta R.T. -0.016 min

Lab File: VL042319.D

Acq: 11 Apr 2025 14:27

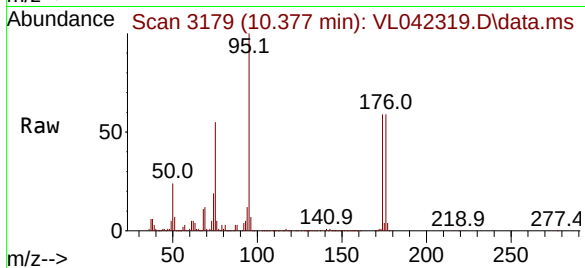
Tgt Ion:	91	Resp:	10027
Ion Ratio	Lower	Upper	
91	100		
106	0.0	36.4	54.6#





#68
1-Bromo-4-Fluorobenzene
Concen: 9.573 ppbv
RT: 10.377 min Scan# 3177
Delta R.T. 0.006 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

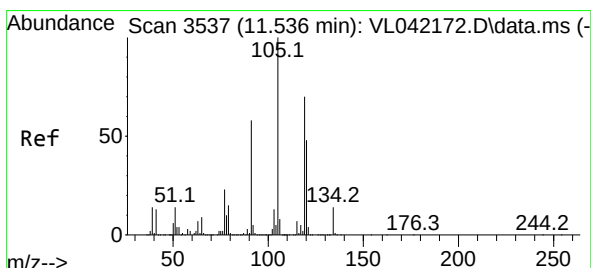
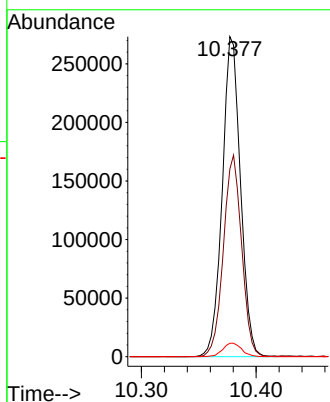
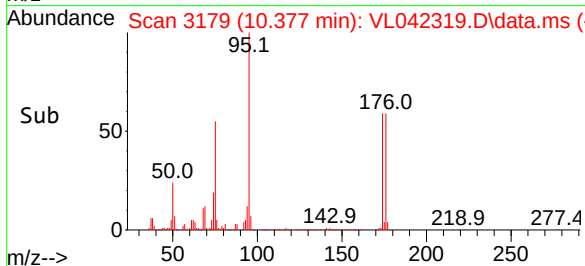
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-4-3242025



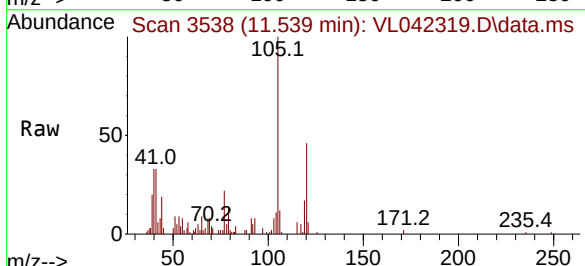
Tgt Ion: 95 Resp: 30182
Ion Ratio Lower Upper
95 100
174 63.1 50.6 76.0
175 4.4 3.8 5.6

Manual Integrations
APPROVED

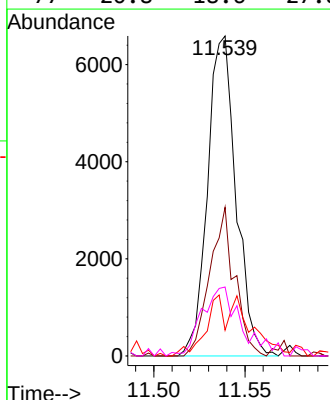
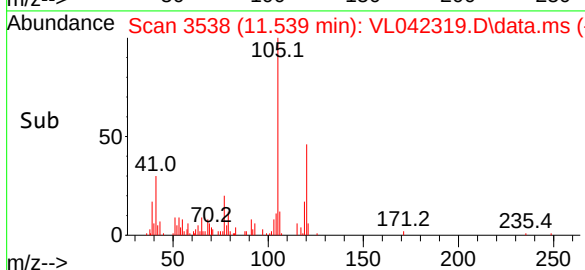
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#74
1,2,4-Trimethylbenzene
Concen: 0.105 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.003 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27



Tgt Ion:105 Resp: 7147
Ion Ratio Lower Upper
105 100
120 46.5 38.6 58.0
91 6.7 46.2 69.2#
77 20.8 18.6 27.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042319.D
Acq On : 11 Apr 2025 14:27
Operator : SY/MD
Sample : Q1665-10
Misc : 400mL/MSVOA_L
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B10-4-3242025

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\VL032725AIR.M

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

Signal : TIC: VL042319.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	4461856	5036438	15.29%	6.311%
2	1.486	427	432	436	rBV2	11872708	8270577	25.11%	10.364%
3	1.561	450	455	459	rBV	769173	428453	1.30%	0.537%
4	1.722	500	505	517	rBV	3136769	2001187	6.08%	2.508%
5	1.836	535	540	547	rBV	4778992	3716760	11.28%	4.657%
6	1.891	551	557	569	rVB	8516802	7444641	22.60%	9.329%
7	2.564	756	765	779	rBV	9828517	13918858	42.26%	17.441%
8	2.790	826	835	841	rBV	681158	715232	2.17%	0.896%
9	2.826	841	846	861	rVB2	301318	411098	1.25%	0.515%
10	3.962	1181	1197	1218	rBV	804813	1249606	3.79%	1.566%
11	8.885	2705	2718	2728	rBV	985107	1356122	4.12%	1.699%
12	10.377	3165	3179	3192	rBV	1273943	1448388	4.40%	1.815%
13	12.044	3680	3694	3704	rBV	839703	866648	2.63%	1.086%
14	13.400	4099	4113	4128	rBV2	19852849	32939482	100.00%	41.276%

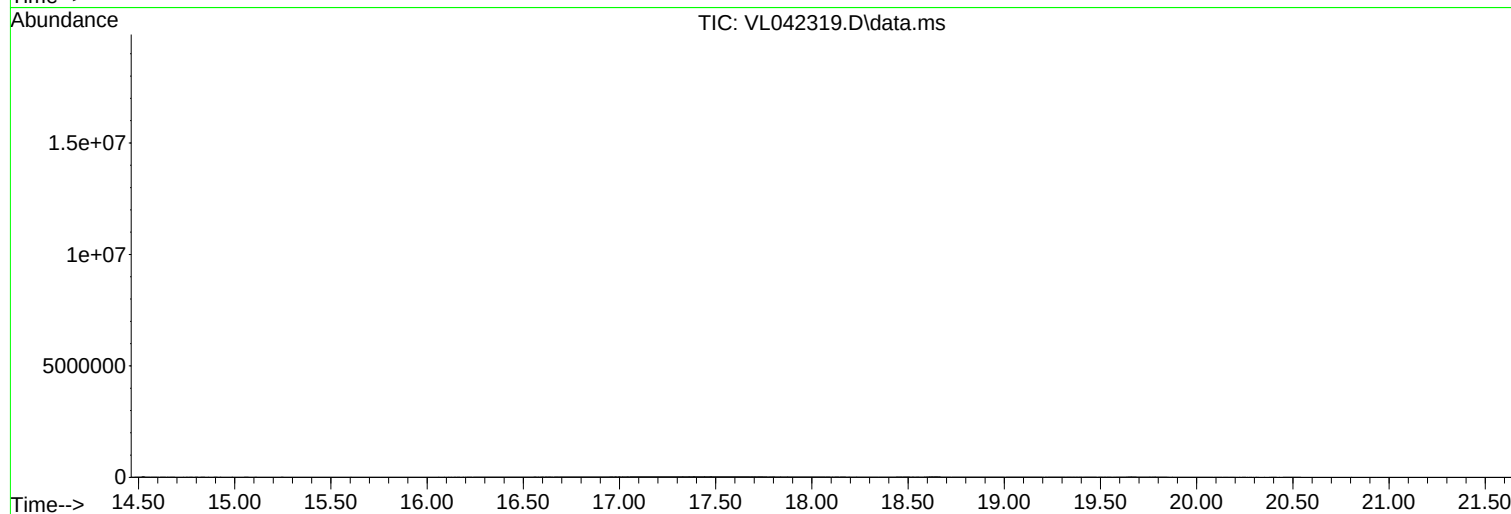
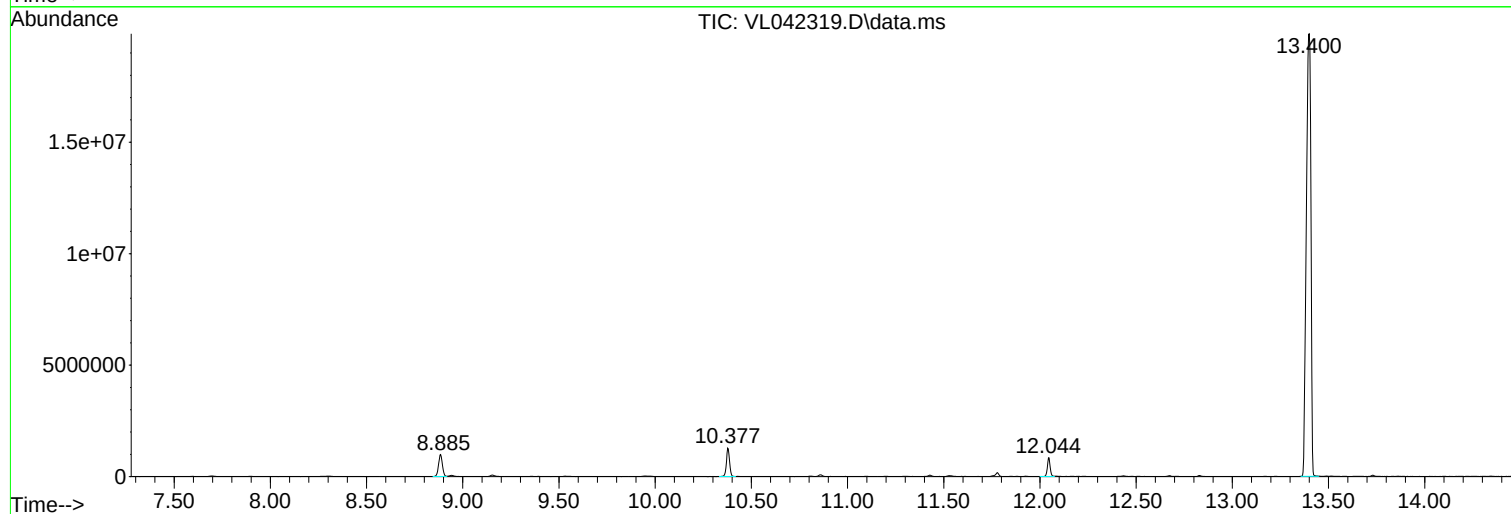
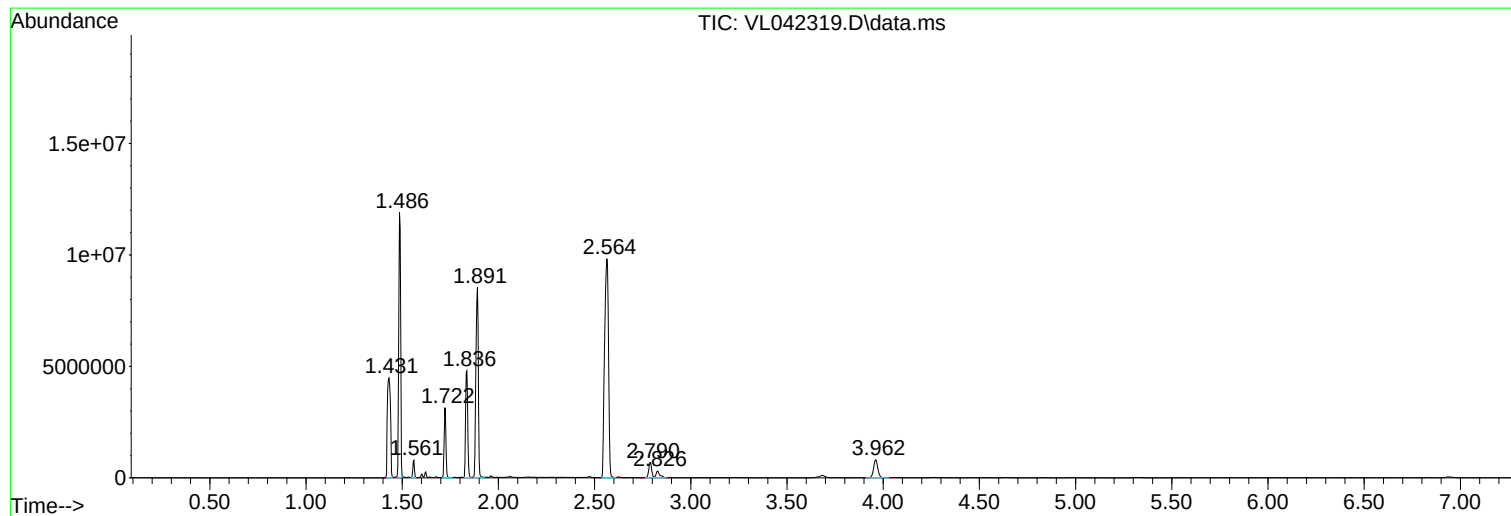
Sum of corrected areas: 79803490

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042319.D
Acq On : 11 Apr 2025 14:27
Operator : SY/MD
Sample : Q1665-10
Misc : 400mL/MSVOA_L
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B10-4-3242025

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

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042319.D
Acq On : 11 Apr 2025 14:27
Operator : SY/MD
Sample : Q1665-10
Misc : 400mL/MSVOA_L
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B10-4-3242025

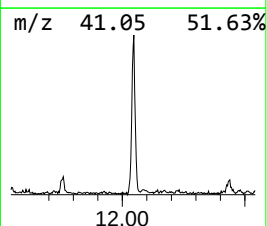
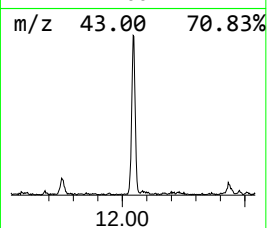
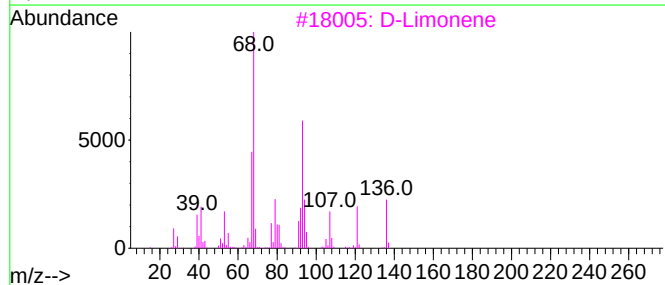
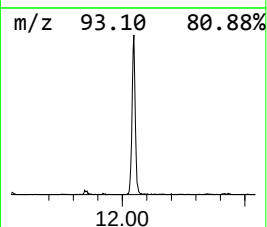
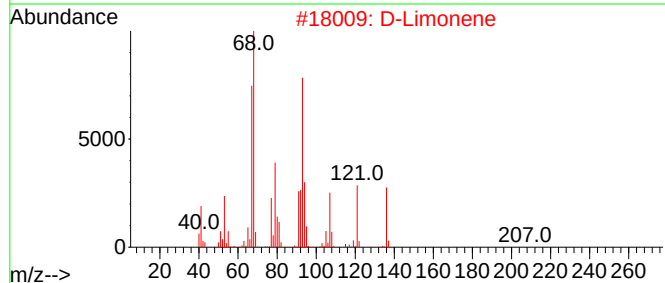
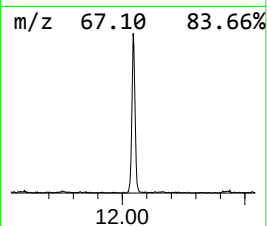
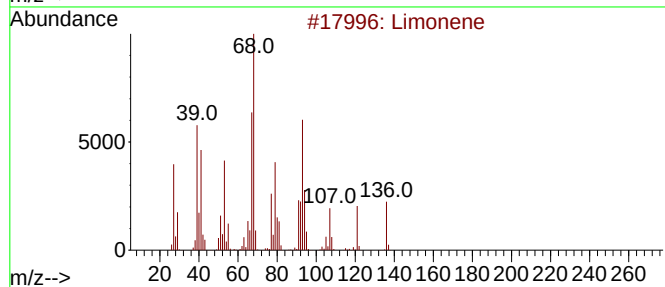
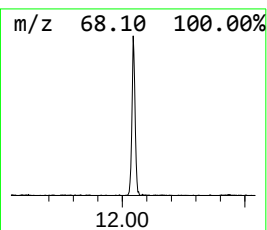
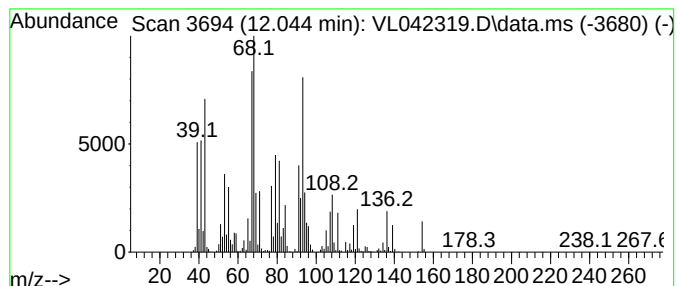
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 1 Limonene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.044	6.39 ppbv	866648	Chlorobenzene-d5	8.885

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		Limonene	136	C10H16	000138-86-3	91
2		D-Limonene	136	C10H16	005989-27-5	91
3		D-Limonene	136	C10H16	005989-27-5	70
4		D-Limonene	136	C10H16	005989-27-5	70
5		D-Limonene	136	C10H16	005989-27-5	70



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042319.D
Acq On : 11 Apr 2025 14:27
Operator : SY/MD
Sample : Q1665-10
Misc : 400mL/MSVOA_L
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B10-4-3242025

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

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

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
Limonene	12.044	6.4	ppbv	866648	3	8.885	1356120	10.0

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/25/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	03/26/25
Client Sample ID:	IA-B10-4-3242025DL	SDG No.:	Q1665
Lab Sample ID:	Q1665-10DL	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
VL042323.D	40		04/11/25 16:39	VL041125

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
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	UD	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
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	UD	18.0	82.0	ug/m3
75-35-4	1,1-Dichloroethene	5.60	22.2	UD	22.2	79.3	ug/m3
67-64-1	Acetone	140	333	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	700	2060	ED	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	4.00	18.7	UD	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	4.40	16.6	UD	16.6	75.4	ug/m3
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

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/25/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	03/26/25
Client Sample ID:	IA-B10-4-3242025DL	SDG No.:	Q1665
Lab Sample ID:	Q1665-10DL	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
VL042323.D	40		04/11/25 16:39	VL041125

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
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	8.40	36.5	UD	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	UDQ	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	UDQ	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	UD	13.9	81.9	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.10			70 (65) - 130 (135)	91%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	173000		2.787			
540-36-3	1,4-Difluorobenzene	401000		3.962			
3114-55-4	Chlorobenzene-d5	338000		8.885			

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/25/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	03/26/25
Client Sample ID:	IA-B10-4-3242025DL	SDG No.:	Q1665
Lab Sample ID:	Q1665-10DL	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
VL042323.D	40		04/11/25 16:39	VL041125

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
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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\VL041125\
Data File : VL042323.D
Acq On : 11 Apr 2025 16:39
Operator : SY/MD
Sample : Q1665-10DL 40X
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B10-4-3242025DL

Quant Time: Apr 11 23:02:43 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 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.787	49	173105	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	400666	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	338211	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	253785	9.137	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	91.400%
Target Compounds						
9) Propene	1.489	41	65076m	5.438	ppbv	Qvalue
13) Ethanol	1.742	45	31113	27.501	ppbv	85
15) Acetone	1.842	43	84634	3.496	ppbv	95
19) Isopropyl Alcohol	1.900	45	207505	15.191	ppbv #	34
34) 2-Butanone	2.564	43	510012	17.554	ppbv	98

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

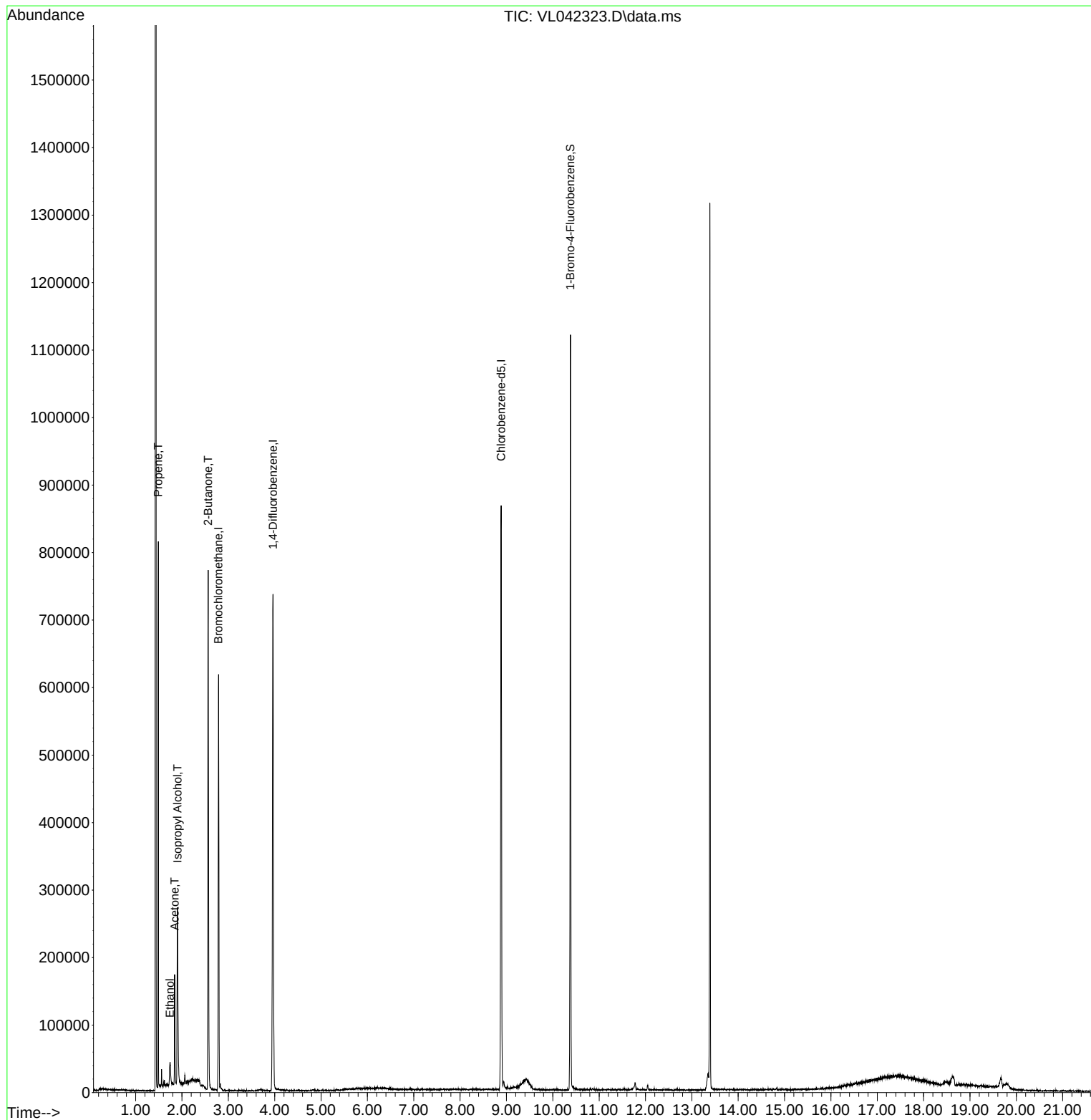
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Data File : VL042323.D
Acq On : 11 Apr 2025 16:39
Operator : SY/MD
Sample : Q1665-10DL 40X
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

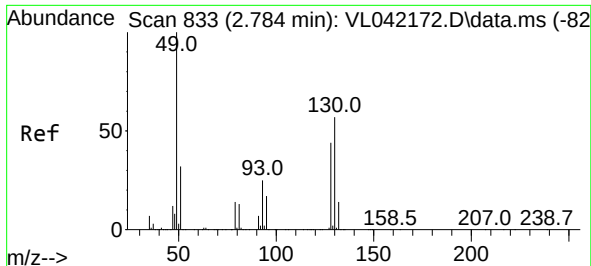
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-4-3242025DL

Quant Time: Apr 11 23:02:43 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 02:00:52 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

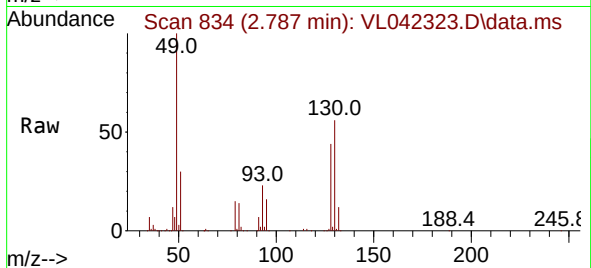
Reviewed By : Semsettin Yesilyurt 04/16/2025
Supervised By : Mahesh Dadoda 04/17/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 833
Delta R.T. 0.003 min
Lab File: VL042323.D
Acq: 11 Apr 2025 16:39

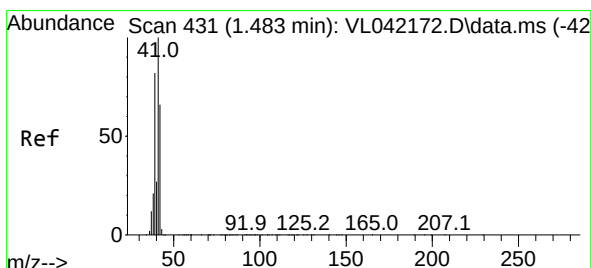
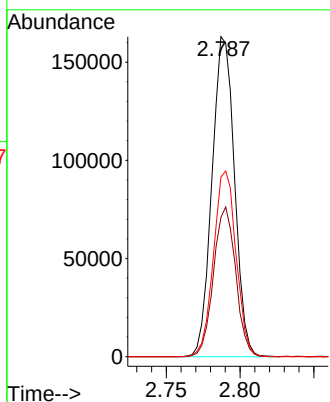
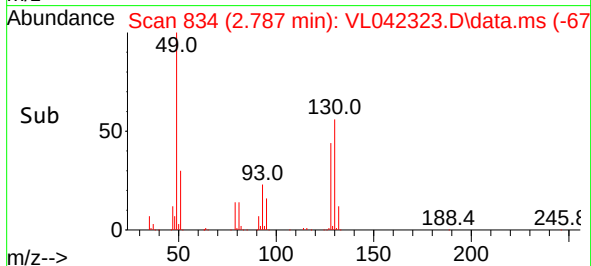
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-4-3242025DL



Tgt Ion: 49 Resp: 17310
Ion Ratio Lower Upper
49 100
128 46.0 22.9 68.5
130 58.2 28.8 86.4

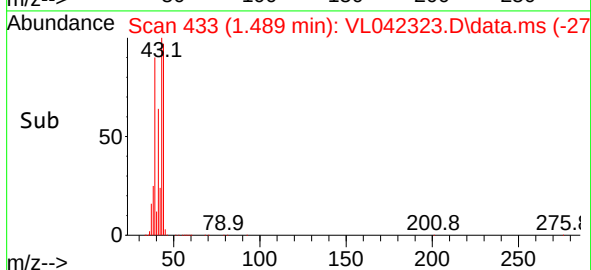
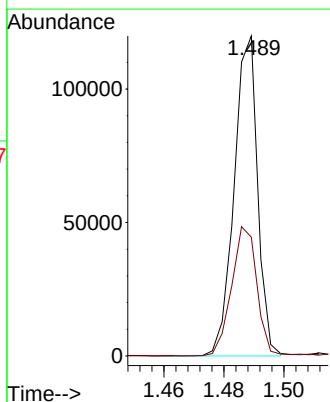
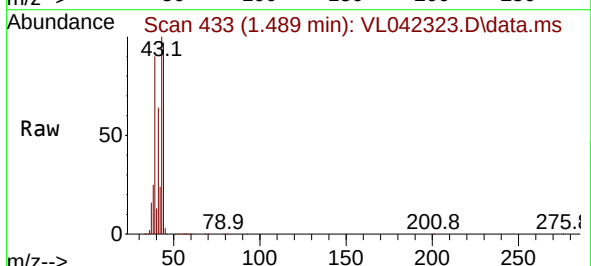
Manual Integrations
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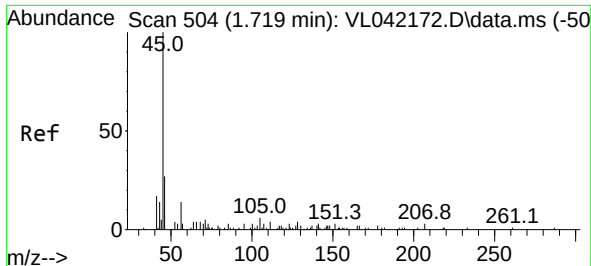
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#9
Propene
Concen: 5.438 ppbv m
RT: 1.489 min Scan# 433
Delta R.T. 0.006 min
Lab File: VL042323.D
Acq: 11 Apr 2025 16:39

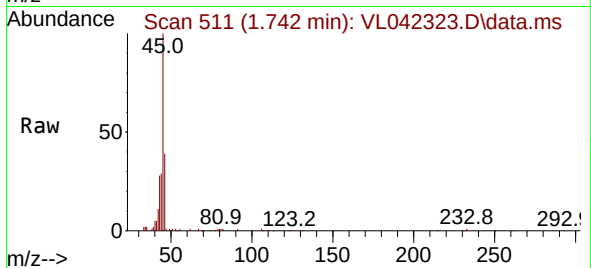
Tgt Ion: 41 Resp: 65076
Ion Ratio Lower Upper
41 100
42 21.2 55.4 83.2#





#13
Ethanol
Concen: 27.501 ppbv
RT: 1.742 min Scan# 511
Delta R.T. 0.022 min
Lab File: VL042323.D
Acq: 11 Apr 2025 16:39

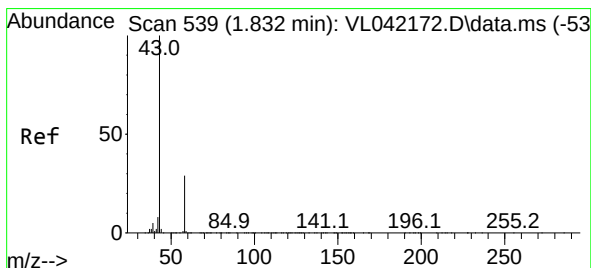
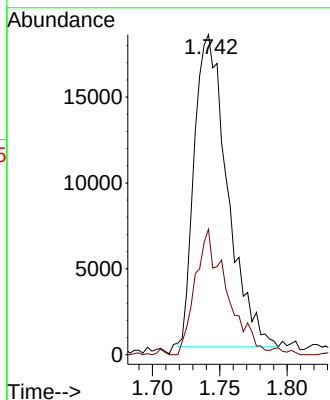
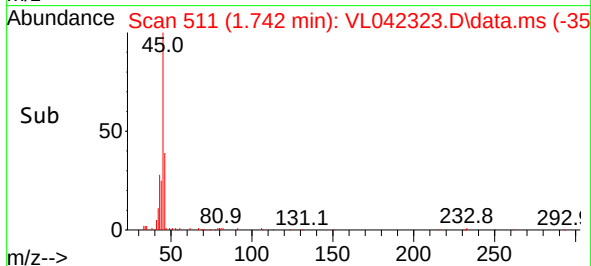
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-4-3242025DL



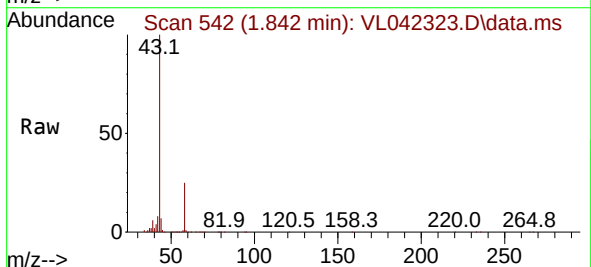
Tgt Ion: 45 Resp: 3111
Ion Ratio Lower Upper
45 100
46 40.0 20.2 80.8

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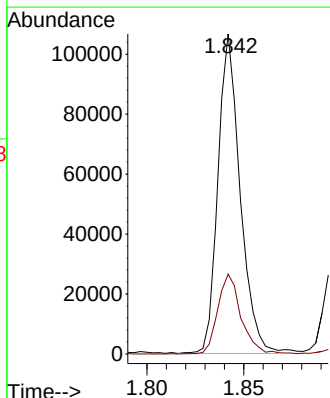
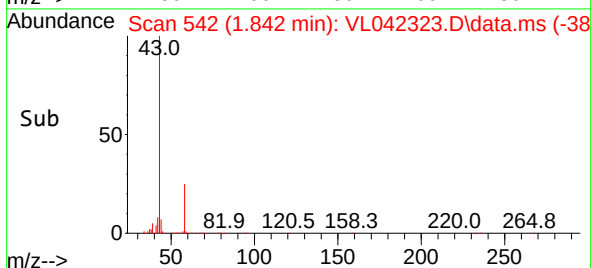
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

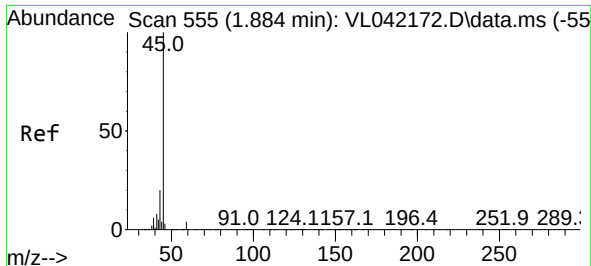


#15
Acetone
Concen: 3.496 ppbv
RT: 1.842 min Scan# 542
Delta R.T. 0.010 min
Lab File: VL042323.D
Acq: 11 Apr 2025 16:39



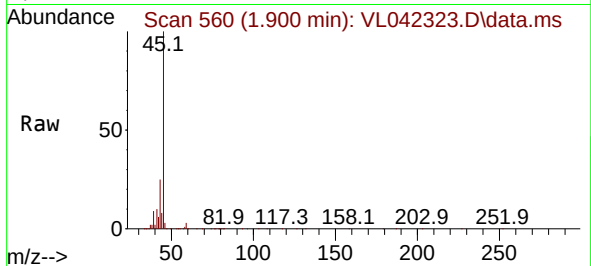
Tgt Ion: 43 Resp: 84634
Ion Ratio Lower Upper
43 100
58 26.3 23.2 34.8





#19
Isopropyl Alcohol
Concen: 15.191 ppbv
RT: 1.900 min Scan# 50
Delta R.T. 0.016 min
Lab File: VL042323.D
Acq: 11 Apr 2025 16:39

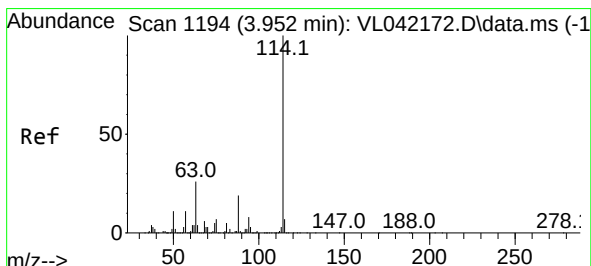
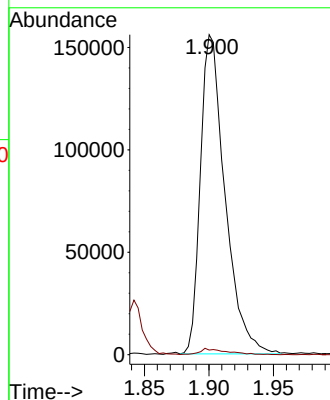
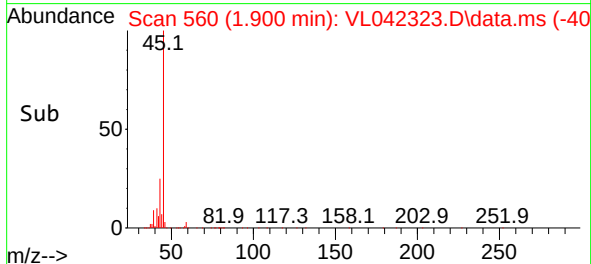
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-4-3242025DL



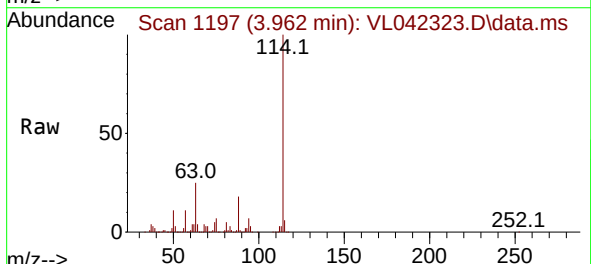
Tgt Ion: 45 Resp: 20750
Ion Ratio Lower Upper
45 100
58 2.1 36.9 55.3

Manual Integrations
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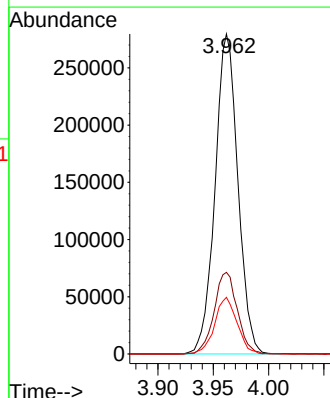
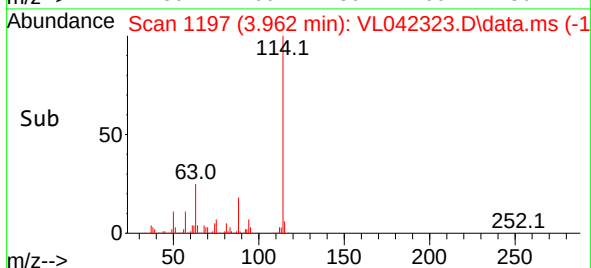
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

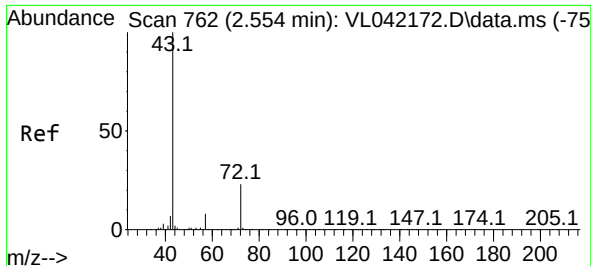


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. 0.010 min
Lab File: VL042323.D
Acq: 11 Apr 2025 16:39



Tgt Ion:114 Resp: 400666
Ion Ratio Lower Upper
114 100
63 25.9 20.7 31.1
88 17.4 15.0 22.4





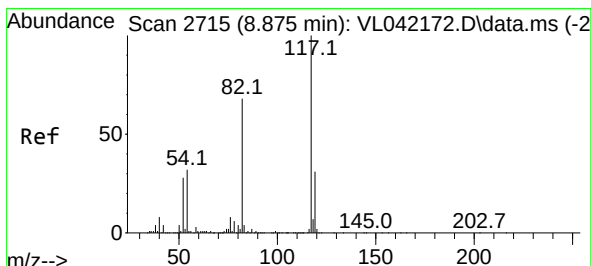
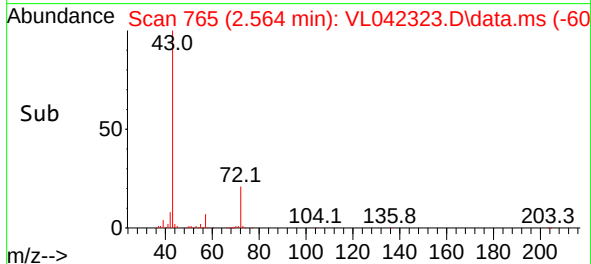
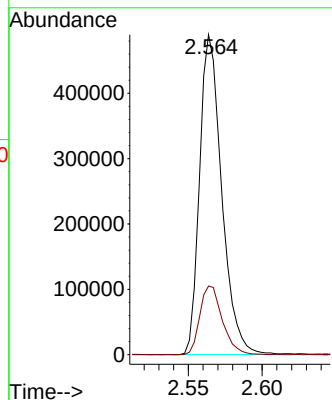
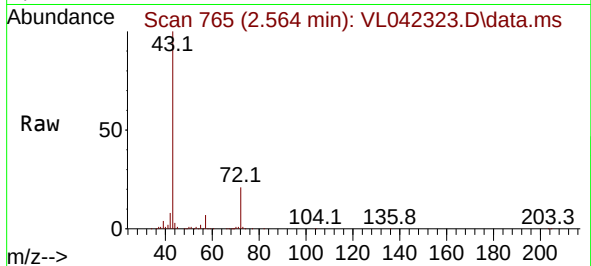
#34
2-Butanone
Concen: 17.554 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.010 min
Lab File: VL042323.D
Acq: 11 Apr 2025 16:39

Instrument :
MSVOA_L
ClientSampleId :
IA-B10-4-3242025DL

Tgt Ion: 43 Resp: 51001
Ion Ratio Lower Upper
43 100
72 21.9 18.2 27.2

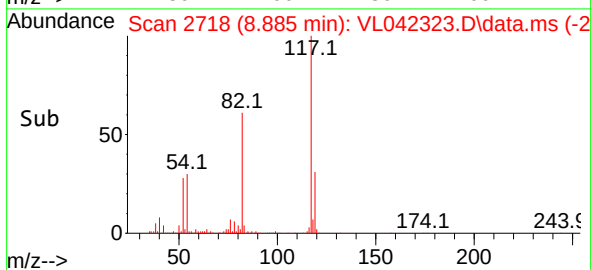
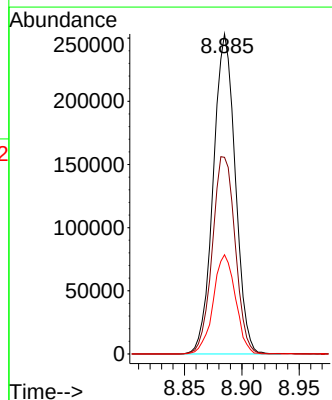
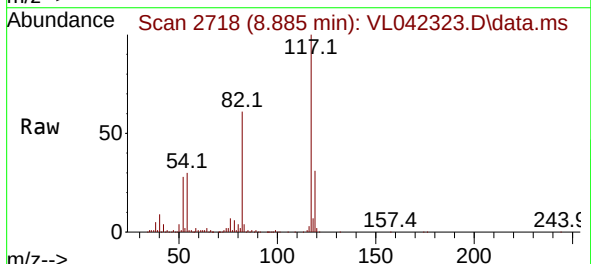
Manual Integrations
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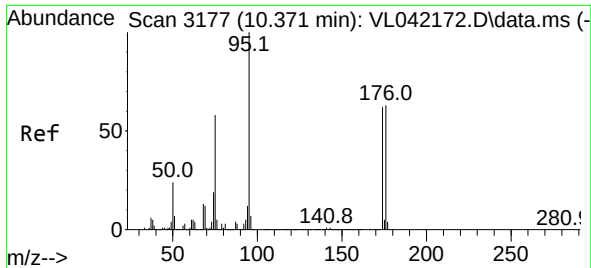
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2718
Delta R.T. 0.010 min
Lab File: VL042323.D
Acq: 11 Apr 2025 16:39

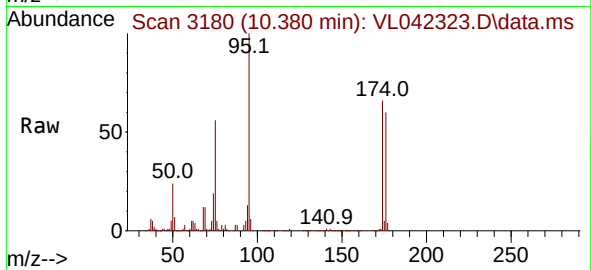
Tgt Ion:117 Resp: 338211
Ion Ratio Lower Upper
117 100
82 64.2 55.8 83.6
119 31.4 25.5 38.3





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.137 ppbv
 RT: 10.380 min Scan# 3177
 Delta R.T. 0.010 min
 Lab File: VL042323.D
 Acq: 11 Apr 2025 16:39

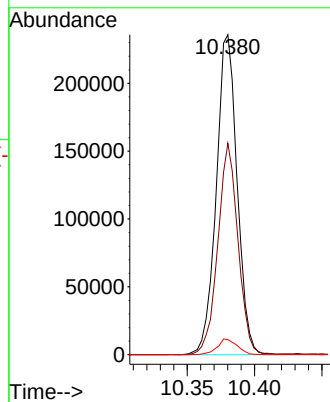
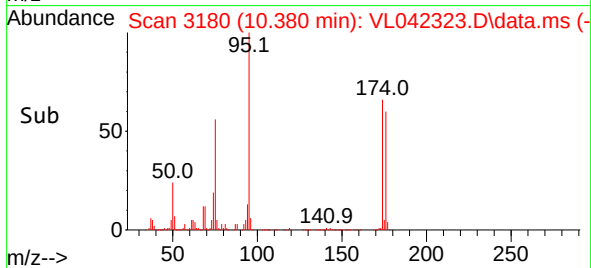
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B10-4-3242025DL



Tgt Ion: 95 Resp: 253785
 Ion Ratio Lower Upper
 95 100
 174 64.4 50.6 76.0
 175 4.7 3.8 5.6

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/16/2025
 Supervised By :Mahesh Dadoda 04/17/2025



Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/25/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	03/26/25
Client Sample ID:	IA-B10-4-3242025DL2	SDG No.:	Q1665
Lab Sample ID:	Q1665-10DL2	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
VL042332.D	100		04/15/25 15:01	VL041525

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
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	UD	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
75-65-0	tert-Butyl alcohol	19.0	57.6	UDQ	57.6	152	ug/m3
142-82-5	Heptane	11.0	45.1	UD	45.1	205	ug/m3
75-35-4	1,1-Dichloroethene	14.0	55.5	UD	55.5	198	ug/m3
67-64-1	Acetone	120	285	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	UDQ	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	480	1420	D	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	11.0	41.5	UD	41.5	188	ug/m3
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

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/25/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	03/26/25
Client Sample ID:	IA-B10-4-3242025DL2	SDG No.:	Q1665
Lab Sample ID:	Q1665-10DL2	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
VL042332.D	100		04/15/25 15:01	VL041525

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
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	UD	35.2	205	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.30			70 (65) - 130 (135)	93%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	164000		2.81			
540-36-3	1,4-Difluorobenzene	385000		3.998			
3114-55-4	Chlorobenzene-d5	328000		8.917			

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/25/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	03/26/25
Client Sample ID:	IA-B10-4-3242025DL2	SDG No.:	Q1665
Lab Sample ID:	Q1665-10DL2	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
VL042332.D	100		04/15/25 15:01	VL041525

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
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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\VL041525\
Data File : VL042332.D
Acq On : 15 Apr 2025 15:01
Operator : SY/MD
Sample : Q1665-10DL2 100X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B10-4-3242025DL2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025

Quant Time: Apr 16 01:32:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025
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	2.810	49	164444	10.000	ppbv	0.03
33) 1,4-Difluorobenzene	3.998	114	385228	10.000	ppbv	0.05
55) Chlorobenzene-d5	8.917	117	327587	10.000	ppbv	0.04
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.406	95	251001	9.330	ppbv	0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.300%
Target Compounds						
9) Propene	1.499	41	20713m	1.822	ppbv	Qvalue
13) Ethanol	1.732	45	8531	7.938	ppbv	83
15) Acetone	1.848	43	26934	1.171	ppbv	95
19) Isopropyl Alcohol	1.900	45	55262	4.259	ppbv #	34
34) 2-Butanone	2.580	43	135118	4.837	ppbv	97

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

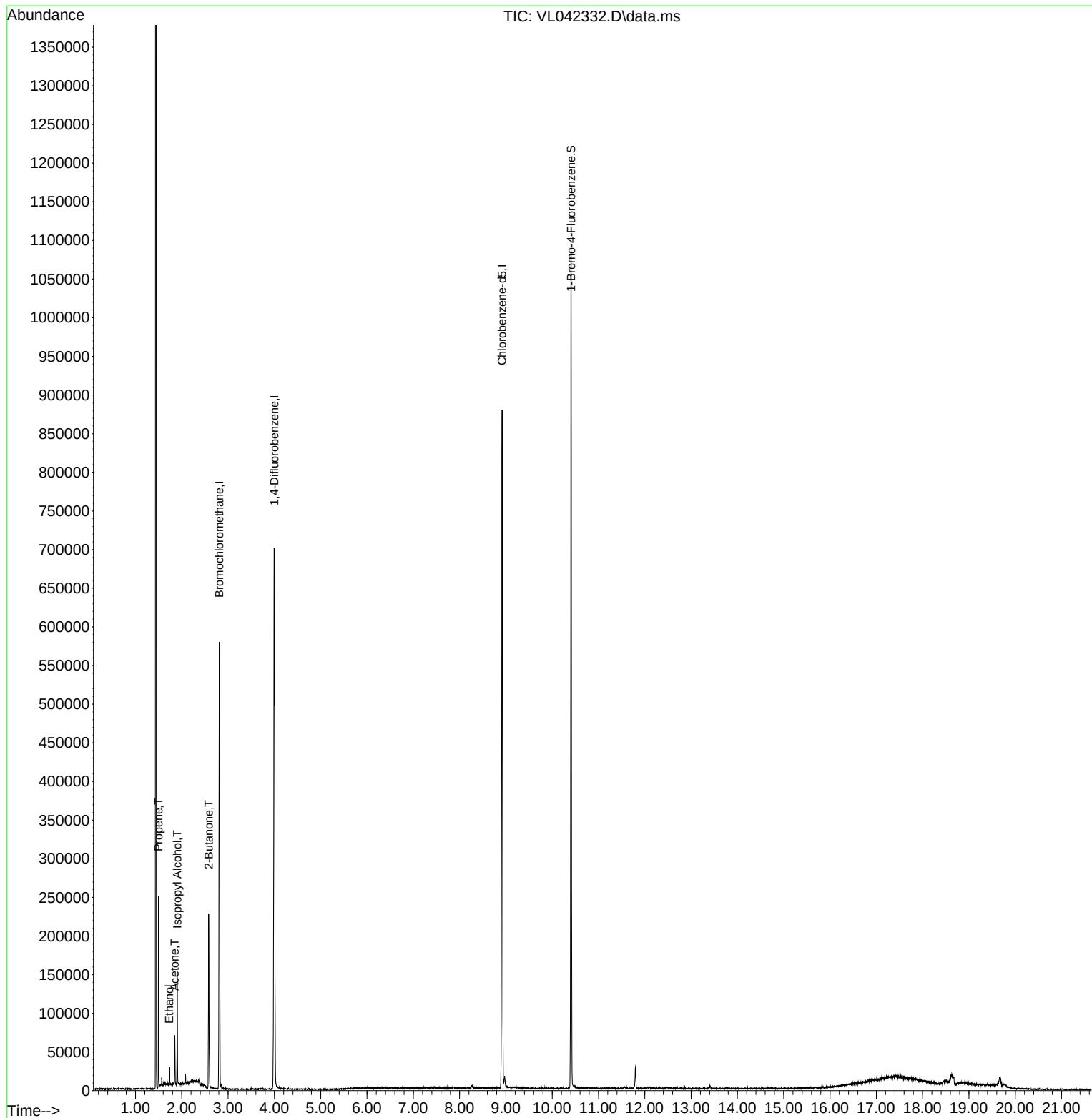
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041525\
Data File : VL042332.D
Acq On : 15 Apr 2025 15:01
Operator : SY/MD
Sample : Q1665-10DL2 100X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

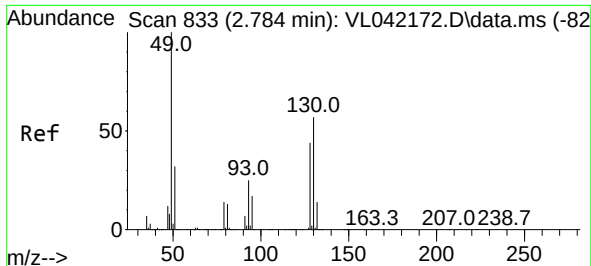
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-4-3242025DL2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025

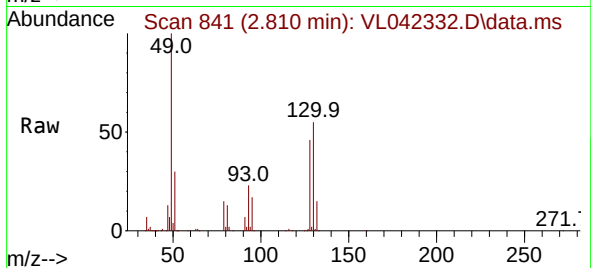
Quant Time: Apr 16 01:32:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.810 min Scan# 84
Delta R.T. 0.026 min
Lab File: VL042332.D
Acq: 15 Apr 2025 15:01

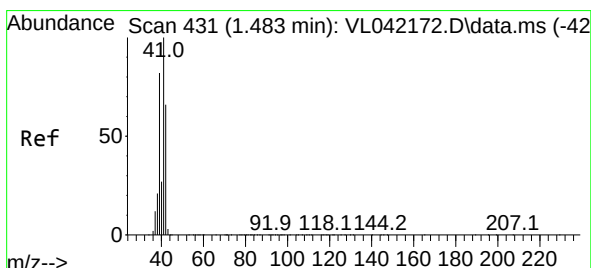
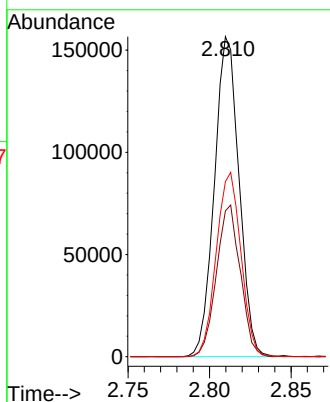
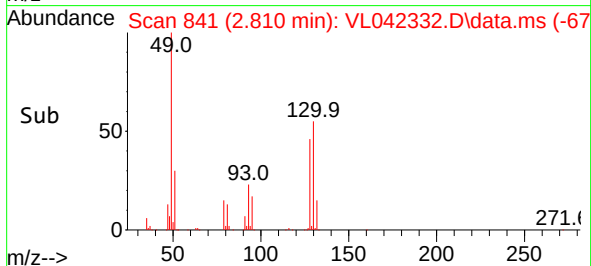
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-4-3242025DL2



Tgt Ion: 49 Resp: 16444
Ion Ratio Lower Upper
49 100
128 46.1 22.9 68.5
130 57.7 28.8 86.4

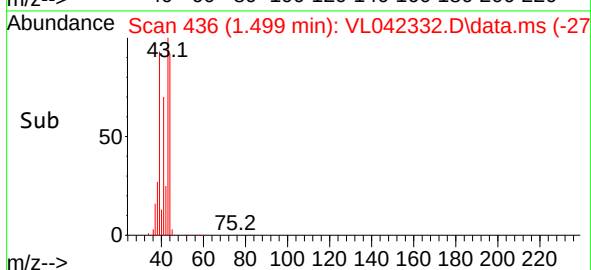
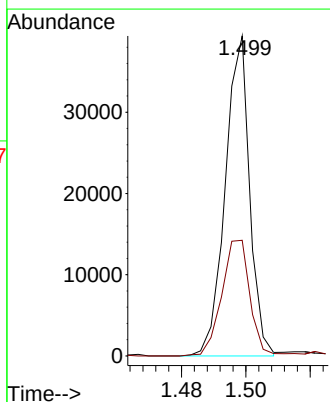
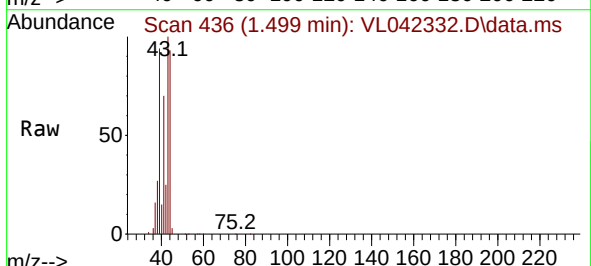
Manual Integrations
APPROVED

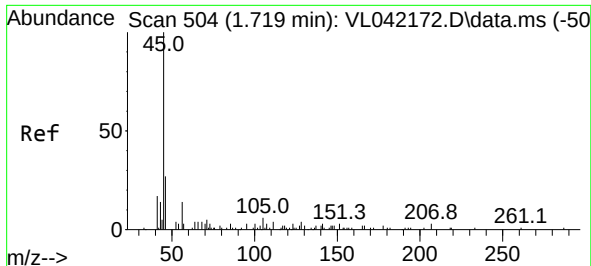
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025



#9
Propene
Concen: 1.822 ppbv m
RT: 1.499 min Scan# 436
Delta R.T. 0.016 min
Lab File: VL042332.D
Acq: 15 Apr 2025 15:01

Tgt Ion: 41 Resp: 20713
Ion Ratio Lower Upper
41 100
42 19.5 55.4 83.2#





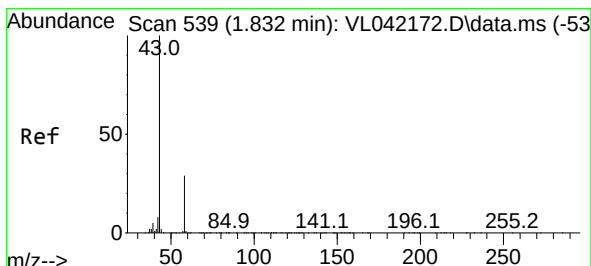
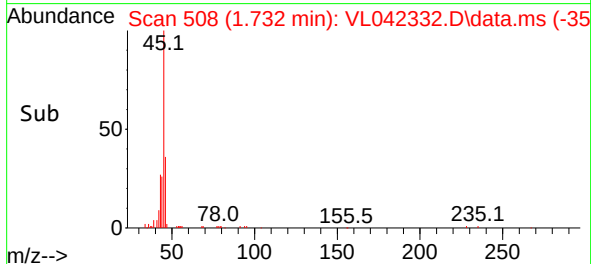
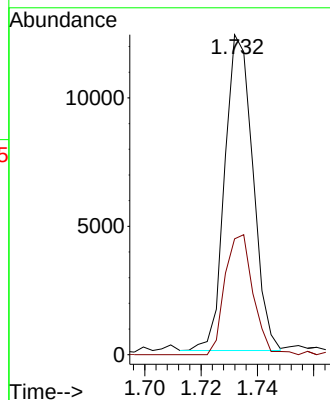
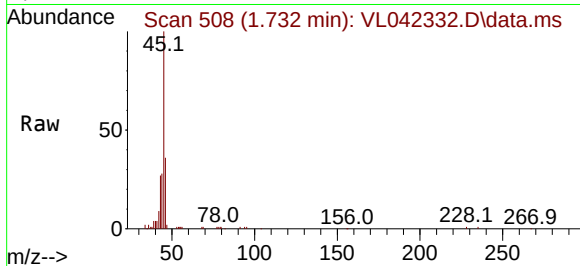
#13
Ethanol
Concen: 7.938 ppbv
RT: 1.732 min Scan# 504
Delta R.T. 0.013 min
Lab File: VL042332.D
Acq: 15 Apr 2025 15:01

Instrument :
MSVOA_L
ClientSampleId :
IA-B10-4-3242025DL2

Tgt Ion: 45 Resp: 853
Ion Ratio Lower Upper
45 100
46 39.0 20.2 80.8

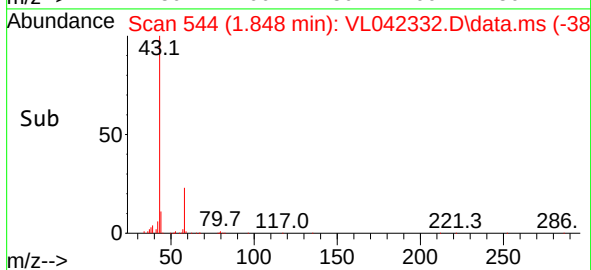
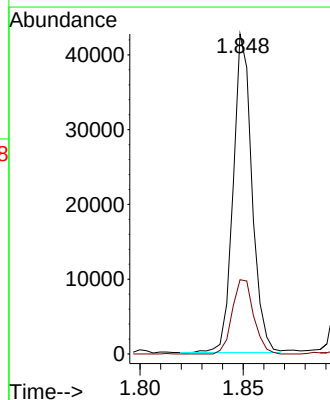
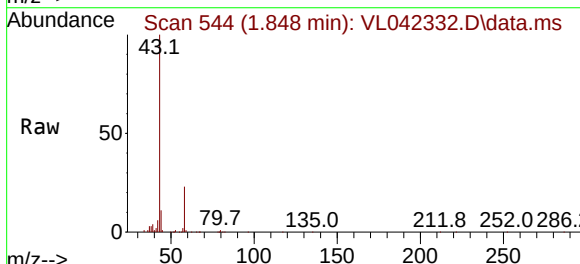
Manual Integrations
APPROVED

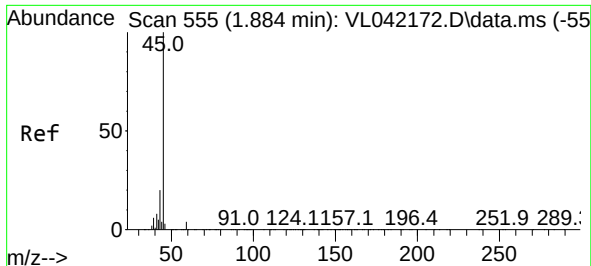
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025



#15
Acetone
Concen: 1.171 ppbv
RT: 1.848 min Scan# 544
Delta R.T. 0.016 min
Lab File: VL042332.D
Acq: 15 Apr 2025 15:01

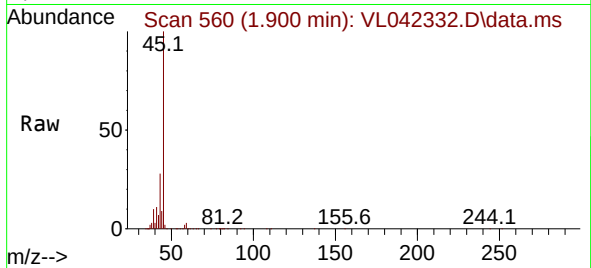
Tgt Ion: 43 Resp: 26934
Ion Ratio Lower Upper
43 100
58 26.6 23.2 34.8





#19
Isopropyl Alcohol
Concen: 4.259 ppbv
RT: 1.900 min Scan# 555
Delta R.T. 0.016 min
Lab File: VL042332.D
Acq: 15 Apr 2025 15:01

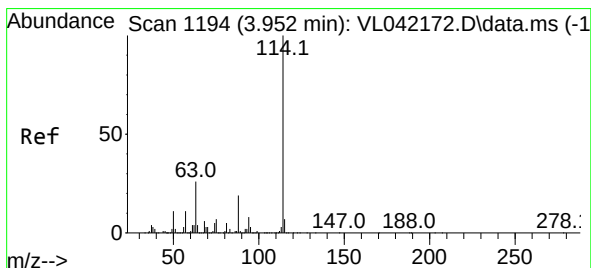
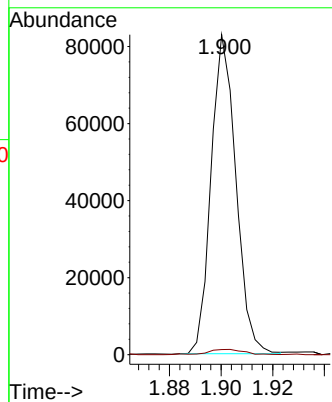
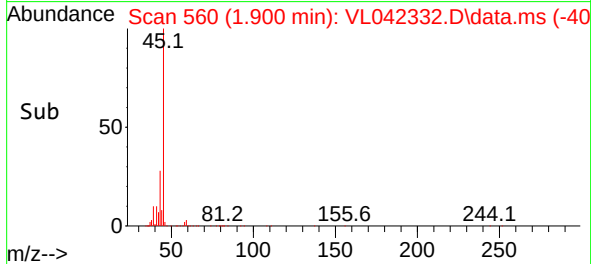
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-4-3242025DL2



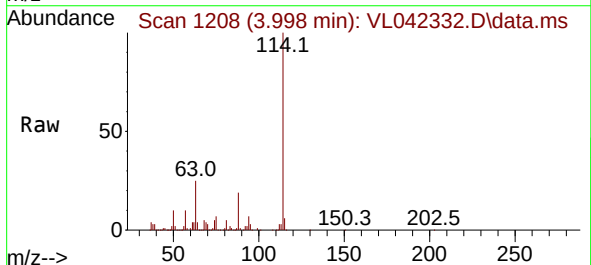
Tgt Ion: 45 Resp: 55262
Ion Ratio Lower Upper
45 100
58 2.5 36.9 55.3

Manual Integrations
APPROVED

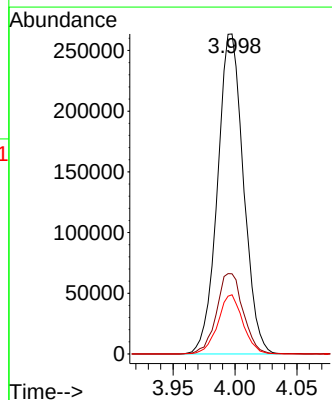
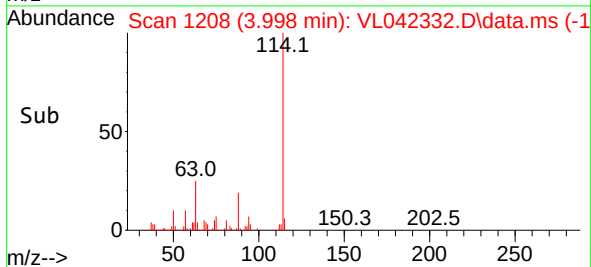
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025

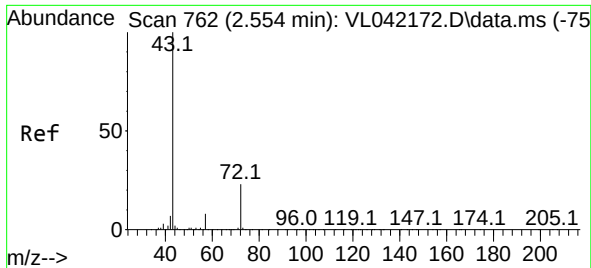


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.998 min Scan# 1208
Delta R.T. 0.045 min
Lab File: VL042332.D
Acq: 15 Apr 2025 15:01



Tgt Ion:114 Resp: 385228
Ion Ratio Lower Upper
114 100
63 25.9 20.7 31.1
88 17.9 15.0 22.4





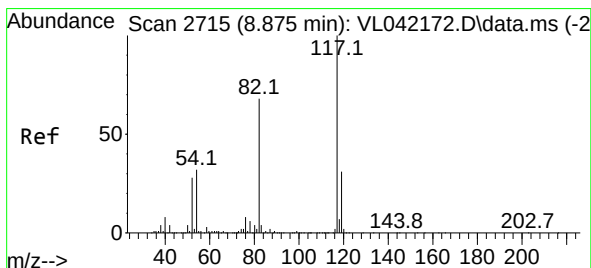
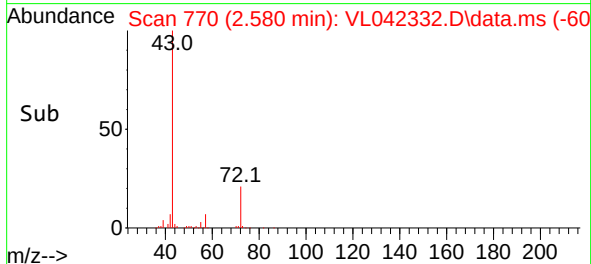
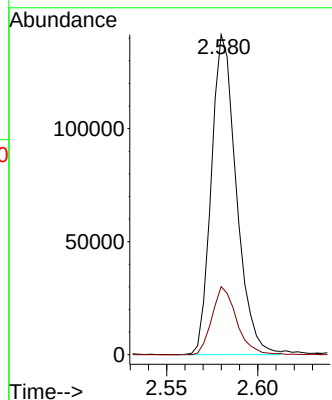
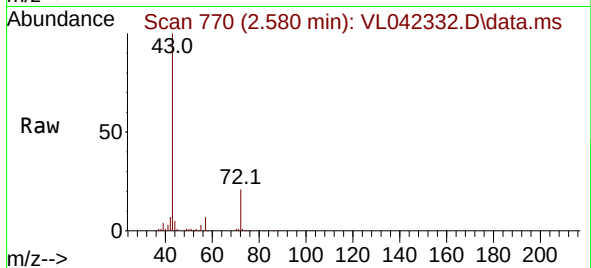
#34
2-Butanone
Concen: 4.837 ppbv
RT: 2.580 min Scan# 71
Delta R.T. 0.026 min
Lab File: VL042332.D
Acq: 15 Apr 2025 15:01

Instrument :
MSVOA_L
ClientSampleId :
IA-B10-4-3242025DL2

Tgt Ion: 43 Resp: 135118
Ion Ratio Lower Upper
43 100
72 21.0 18.2 27.2

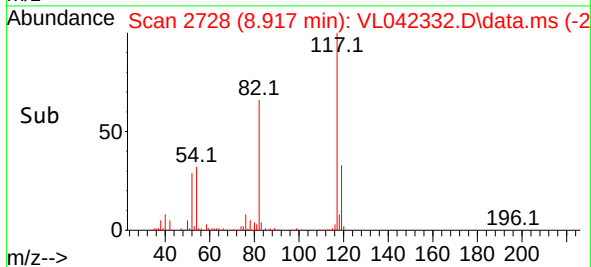
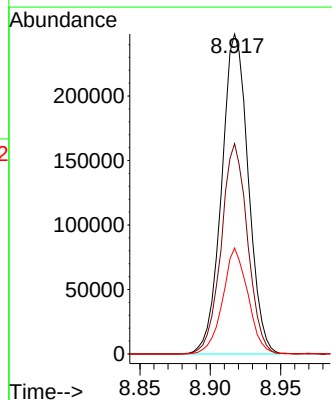
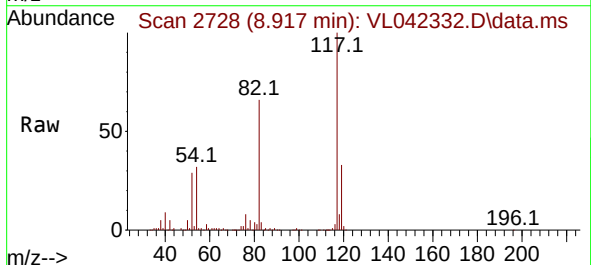
Manual Integrations
APPROVED

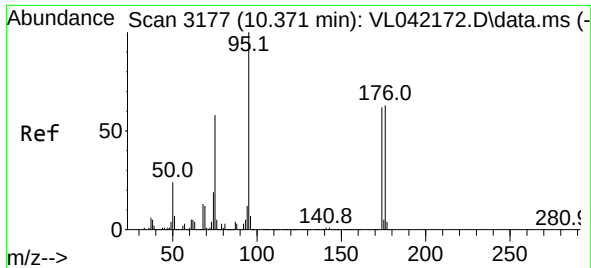
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.917 min Scan# 2728
Delta R.T. 0.042 min
Lab File: VL042332.D
Acq: 15 Apr 2025 15:01

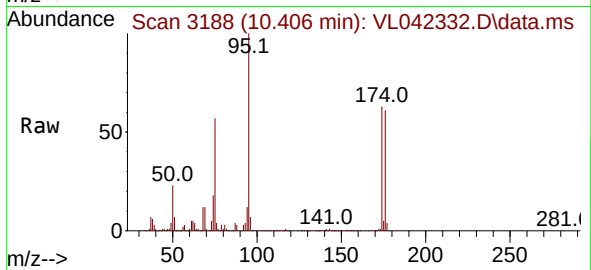
Tgt Ion:117 Resp: 327587
Ion Ratio Lower Upper
117 100
82 64.9 55.8 83.6
119 31.5 25.5 38.3





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.330 ppbv
 RT: 10.406 min Scan# 3177
 Delta R.T. 0.035 min
 Lab File: VL042332.D
 Acq: 15 Apr 2025 15:01

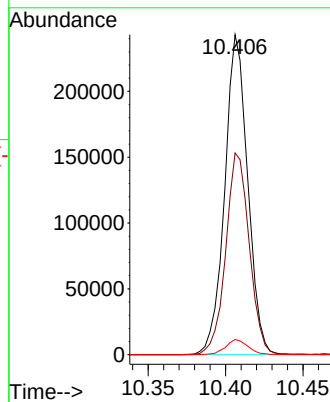
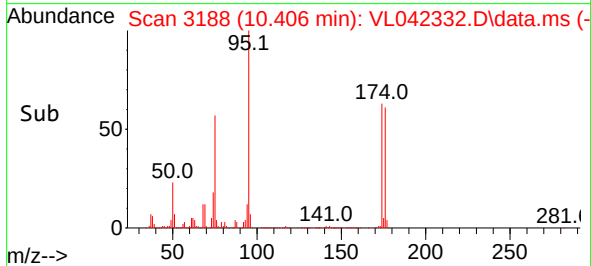
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B10-4-3242025DL2



Tgt Ion:	95	Resp:	25100
Ion Ratio	Lower	Upper	
95	100		
174	64.9	50.6	76.0
175	4.6	3.8	5.6

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/16/2025
 Supervised By :Mahesh Dadoda 04/16/2025



Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/25/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	03/26/25
Client Sample ID:	IA-B10-1-3242025	SDG No.:	Q1665
Lab Sample ID:	Q1665-11	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
VL042320.D	1		04/11/25 15:01	VL041125

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.43	2.13	J	1.04	2.47	ug/m3
74-87-3	Chloromethane	0.59	1.22		0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.010	0.030	U	0.030	0.080	ug/m3
74-83-9	Bromomethane	0.14	0.54	U	0.54	1.94	ug/m3
75-00-3	Chloroethane	0.17	0.45	U	0.45	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.13	0.38	U	0.38	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.22	1.24	J	0.90	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.16	1.23	U	1.23	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.090	0.63	U	0.63	3.49	ug/m3
75-65-0	tert-Butyl alcohol	0.42	1.27	J	0.58	1.52	ug/m3
142-82-5	Heptane	0.11	0.45	U	0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
67-64-1	Acetone	78.5	186	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	14.8	51.4		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	12.3	36.3		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	1.10	5.37		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	0.46	1.47	J	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	0.16	0.66	J	0.37	2.05	ug/m3
108-88-3	Toluene	0.40	1.51	J	0.41	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.070	0.38	U	0.38	2.73	ug/m3

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/25/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	03/26/25
Client Sample ID:	IA-B10-1-3242025	SDG No.:	Q1665
Lab Sample ID:	Q1665-11	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
VL042320.D	1		04/11/25 15:01	VL041125

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.070	0.60	U	0.60	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.070	0.54	U	0.54	0.77	ug/m3
127-18-4	Tetrachloroethene	0.020	0.14	U	0.14	0.20	ug/m3
108-90-7	Chlorobenzene	0.080	0.37	U	0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	0.12	0.52	U	0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	0.22	0.96	J	0.91	4.34	ug/m3
95-47-6	o-Xylene	0.15	0.65	J	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	UQ	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	0.16	0.79	J	0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.57	2.80		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	UQ	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	8.10	28.6		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	10.0		70 (65) - 130 (135)	100%	SPK: 10
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INTERNAL STANDARDS

74-97-5	Bromochloromethane	184000	2.787
540-36-3	1,4-Difluorobenzene	461000	3.955
3114-55-4	Chlorobenzene-d5	381000	8.882

TENTATIVE IDENTIFIED COMPOUNDS

115-07-1	Propene	3.80	J	1.49	ppbv
000106-97-8	Butane	2.20	J	1.62	ppbv
64-17-5	Ethanol	1100	J	1.72	ppbv

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/25/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	03/26/25
Client Sample ID:	IA-B10-1-3242025	SDG No.:	Q1665
Lab Sample ID:	Q1665-11	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
VL042320.D	1		04/11/25 15:01	VL041125

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
67-63-0	Isopropyl Alcohol	51.2		J		1.88	ppbv
003769-23-1	1-Hexene, 4-methyl- unknown3.230	1.30		J		2.63	ppbv
		1.30		J		3.23	ppbv
000124-18-5	Decane	1.80		J		11.8	ppbv
99-87-6	p-Isopropyltoluene	0.12		J		11.9	ppbv
005989-27-5	D-Limonene	8.40		J		12.0	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\VL041125\
 Data File : VL042320.D
 Acq On : 11 Apr 2025 15:01
 Operator : SY/MD
 Sample : Q1665-11
 Misc : 400mL/MSVOA_L
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B10-1-3242025

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 04/16/2025
 Supervised By :Mahesh Dadoda 04/17/2025

Quant Time: Apr 11 23:01:04 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

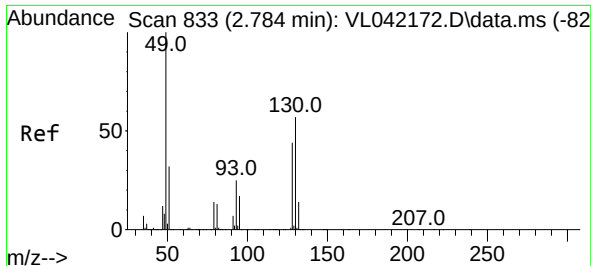
QLast Update : Fri Mar 28 02:00:52 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	183875	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	460651	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	381290	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	314052	10.030	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 100.300%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.496	85	11636	0.429	ppbv	90
4) Chloromethane	1.531	50	6489	0.585	ppbv #	86
9) Propene	1.486	41	48793m	3.838	ppbv	
11) Trichlorofluoromethane	1.877	101	5866	0.222	ppbv	100
13) Ethanol	1.722	45	1300122	1081.877	ppbv	88
15) Acetone	1.832	43	2018088	78.476	ppbv #	79
17) tert-Butyl alcohol	2.043	59	13419m	0.419	ppbv	
19) Isopropyl Alcohol	1.884	45	743440	51.238	ppbv #	5
20) Methylene Chloride	2.062	84	141997	14.826	ppbv	96
26) Hexane	2.826	57	208675	8.094	ppbv #	41
29) Chloroform	2.848	83	40045	1.061	ppbv	96
34) 2-Butanone	2.557	43	411404	12.316	ppbv	98
35) Carbon Tetrachloride	3.755	117	2791m	0.078	ppbv	
36) Benzene	3.654	78	21158	0.463	ppbv	98
50) 4-Methyl-2-Pentanone	5.774	43	8442m	0.159	ppbv	
53) Toluene	6.930	91	21762m	0.402	ppbv	
59) m/p-Xylene	9.532	91	12058m	0.223	ppbv	
60) o-Xylene	9.966	91	7975	0.147	ppbv	99
69) p-Isopropyltoluene	11.927	119	10393	0.116	ppbv #	90
72) 4-Ethyltoluene	11.125	105	7507	0.111	ppbv #	64
73) 1,3,5-Trimethylbenzene	11.205	105	9483	0.161	ppbv	96
74) 1,2,4-Trimethylbenzene	11.536	105	38801	0.571	ppbv #	68

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



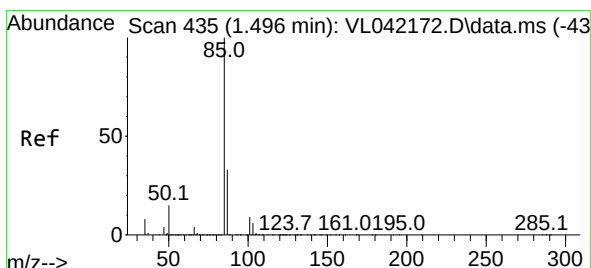
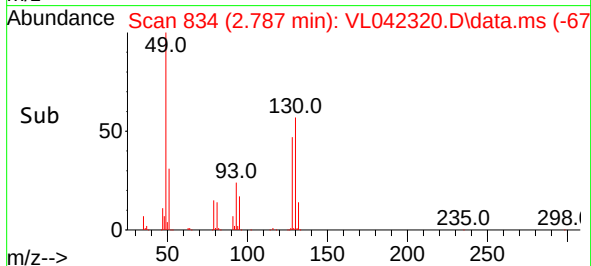
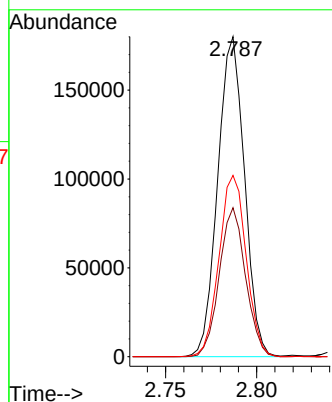
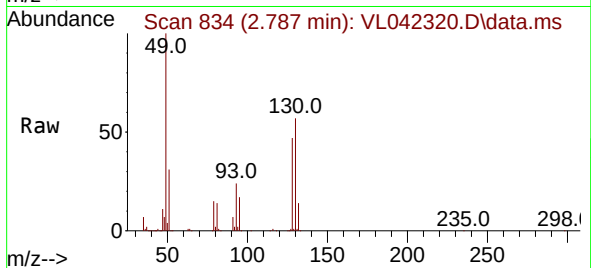
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Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 833
Delta R.T. 0.003 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

Instrument :
MSVOA_L
ClientSampleId :
IA-B10-1-3242025

Tgt Ion: 49 Resp: 18387
Ion Ratio Lower Upper
49 100
128 45.7 22.9 68.5
130 57.5 28.8 86.4

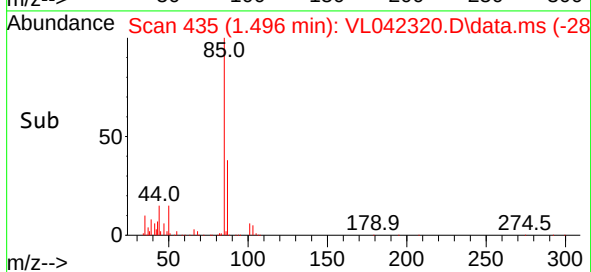
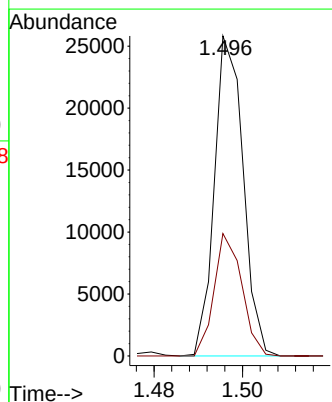
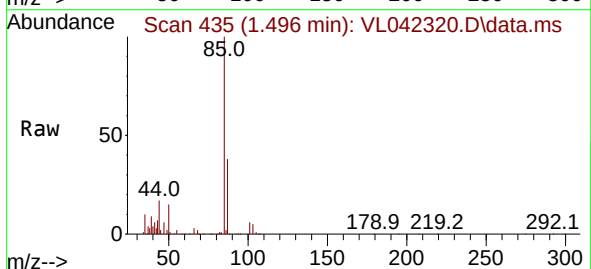
Manual Integrations
APPROVED

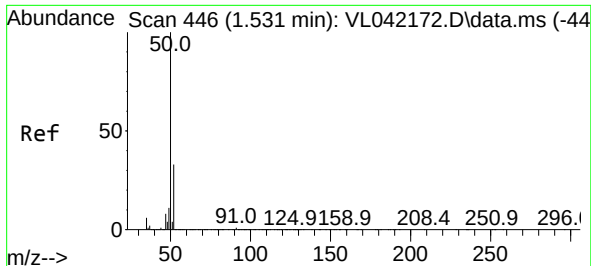
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#2
Dichlorodifluoromethane
Concen: 0.429 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

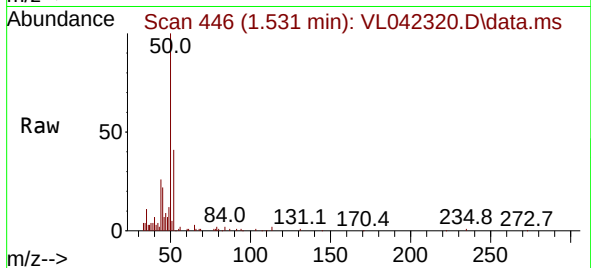
Tgt Ion: 85 Resp: 11636
Ion Ratio Lower Upper
85 100
87 38.2 26.1 39.1





#4
Chloromethane
Concen: 0.585 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

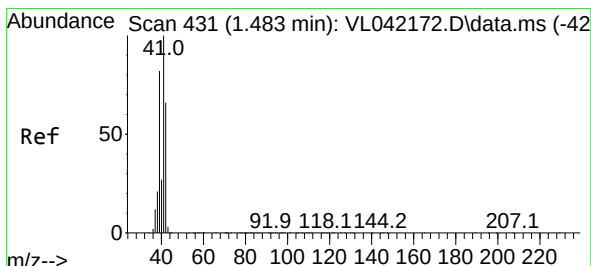
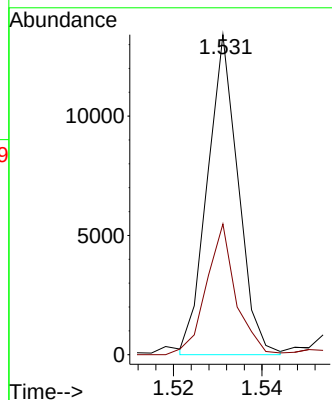
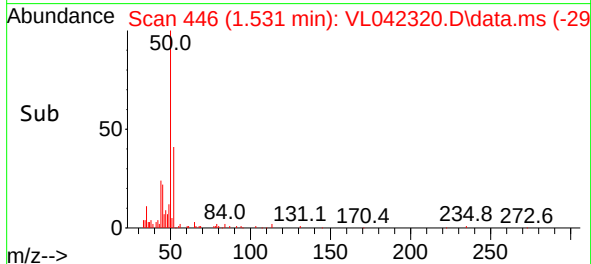
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-1-3242025



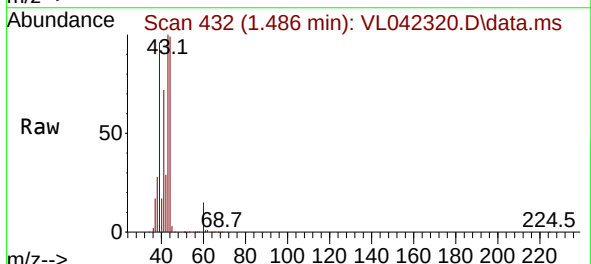
Tgt Ion: 50 Resp: 6489
Ion Ratio Lower Upper
50 100
52 40.7 26.1 39.1

Manual Integrations
APPROVED

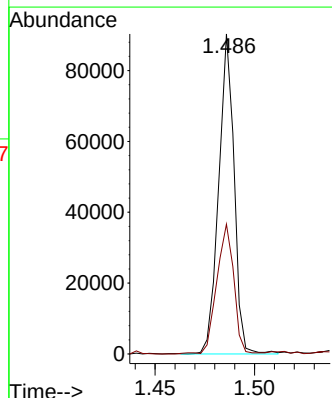
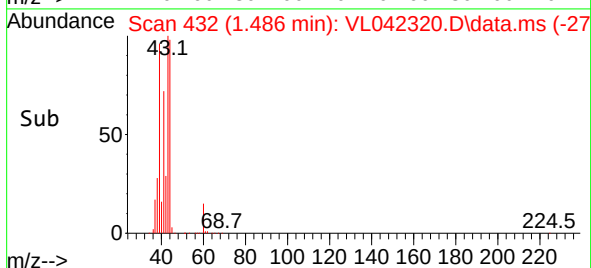
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

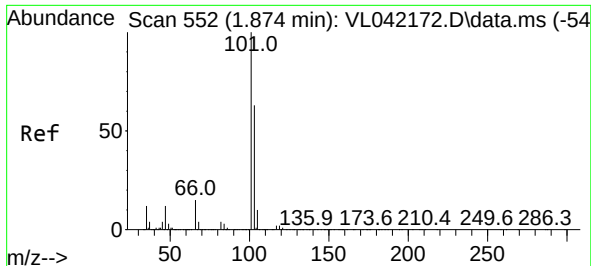


#9
Propene
Concen: 3.838 ppbv m
RT: 1.486 min Scan# 432
Delta R.T. 0.003 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01



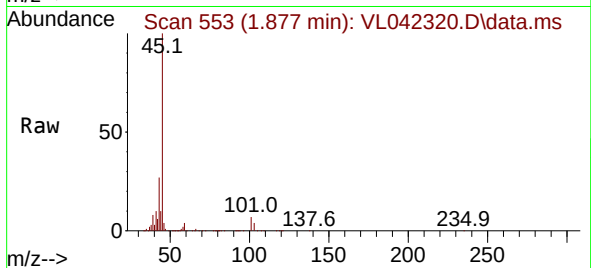
Tgt Ion: 41 Resp: 48793
Ion Ratio Lower Upper
41 100
42 87.5 55.4 83.2





#11
Trichlorofluoromethane
Concen: 0.222 ppbv
RT: 1.877 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

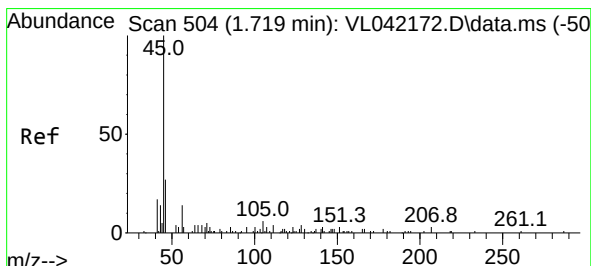
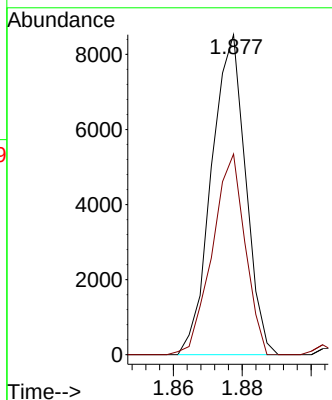
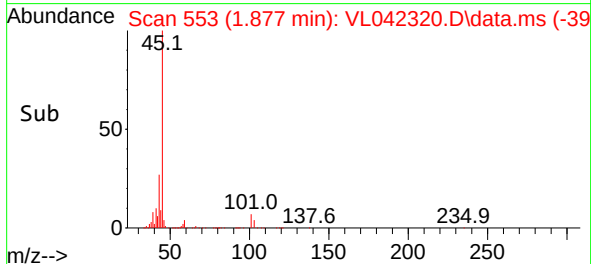
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-1-3242025



Tgt Ion:101 Resp: 586
Ion Ratio Lower Upper
101 100
103 62.7 50.2 75.2

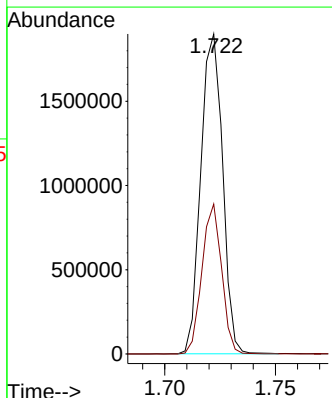
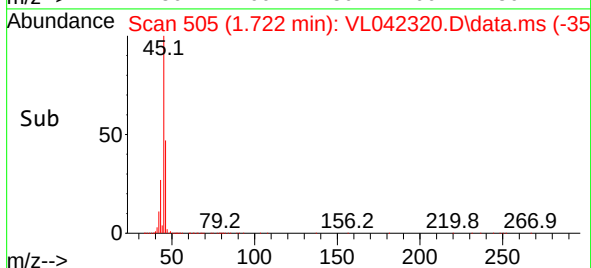
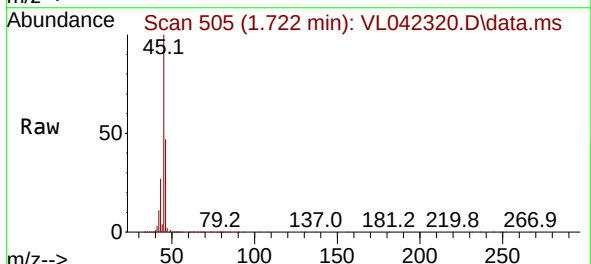
Manual Integrations
APPROVED

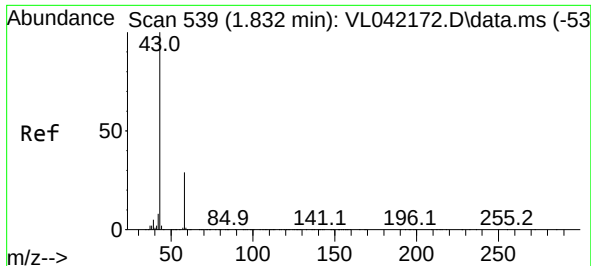
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#13
Ethanol
Concen: 1081.877 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

Tgt Ion: 45 Resp: 1300122
Ion Ratio Lower Upper
45 100
46 42.5 20.2 80.8





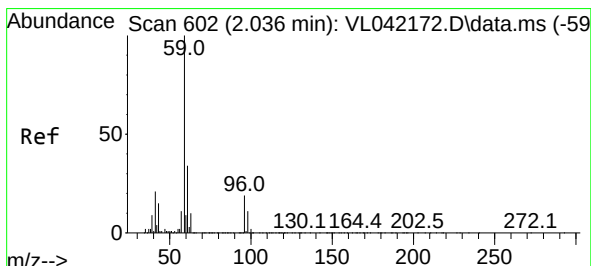
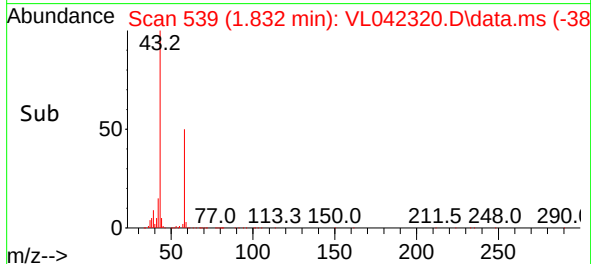
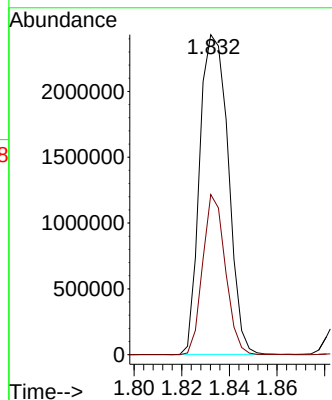
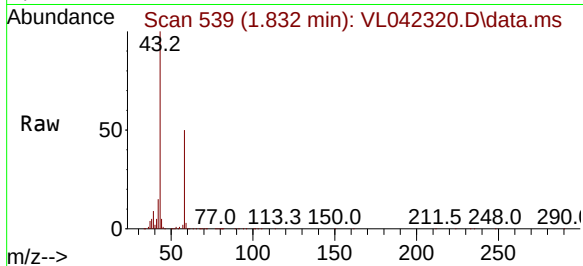
#15
Acetone
Concen: 78.476 ppbv
RT: 1.832 min Scan# 51
Delta R.T. -0.000 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

Instrument :
MSVOA_L
ClientSampleId :
IA-B10-1-3242025

Tgt Ion: 43 Resp: 201808
Ion Ratio Lower Upper
43 100
58 40.0 23.2 34.8

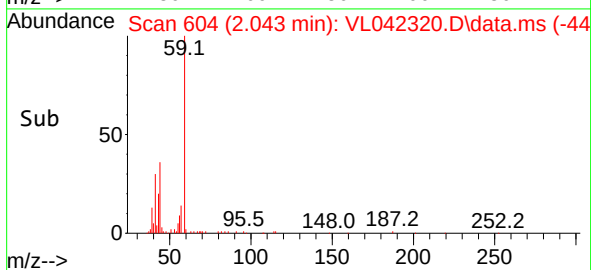
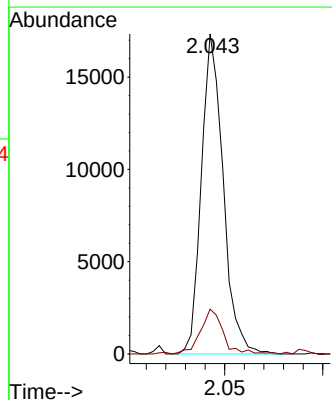
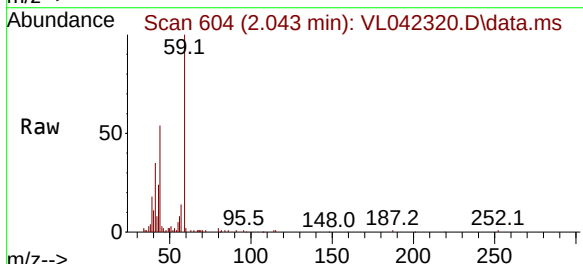
Manual Integrations
APPROVED

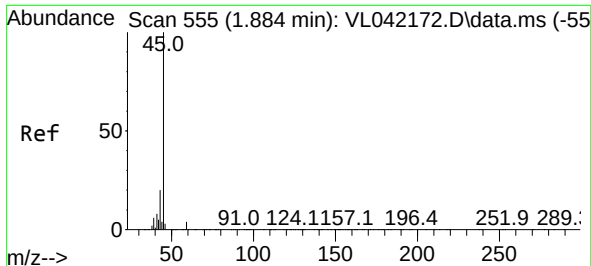
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#17
tert-Butyl alcohol
Concen: 0.419 ppbv m
RT: 2.043 min Scan# 604
Delta R.T. 0.006 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

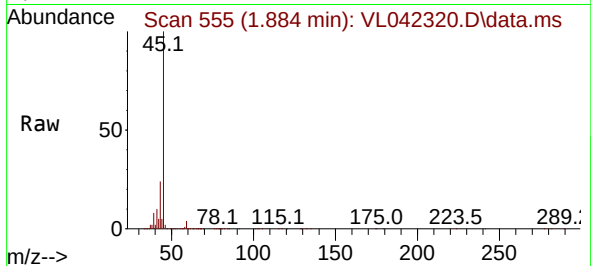
Tgt Ion: 59 Resp: 13419
Ion Ratio Lower Upper
59 100
57 20.2 8.9 13.3





#19
Isopropyl Alcohol
Concen: 51.238 ppbv
RT: 1.884 min Scan# 51
Delta R.T. -0.000 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

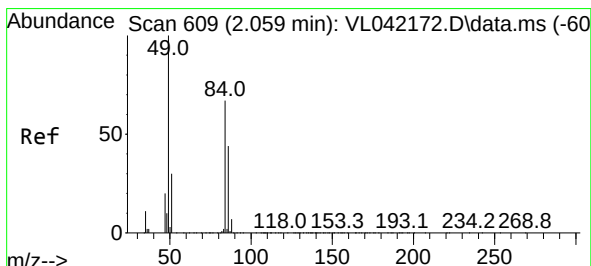
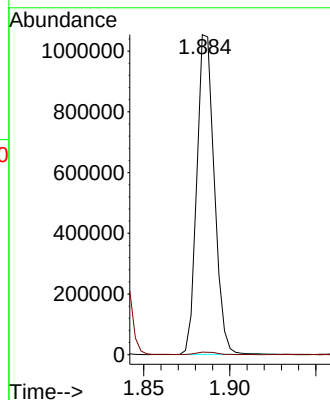
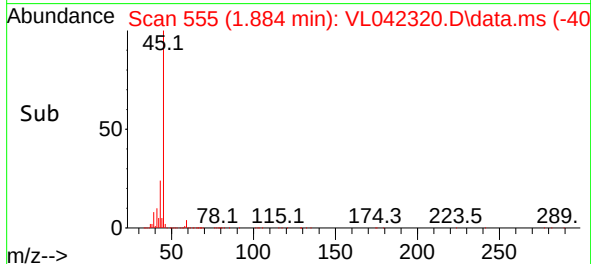
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-1-3242025



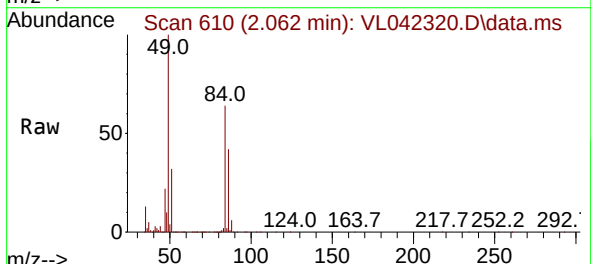
Tgt Ion: 45 Resp: 743440
Ion Ratio Lower Upper
45 100
58 108.7 36.9 55.3

Manual Integrations
APPROVED

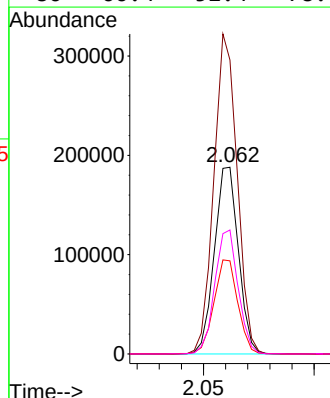
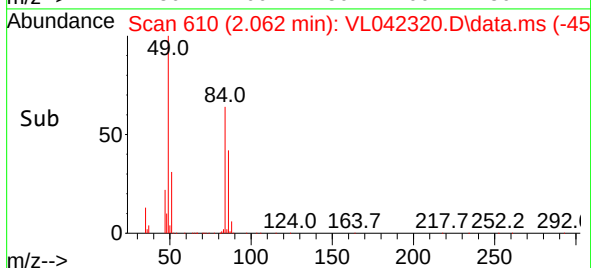
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

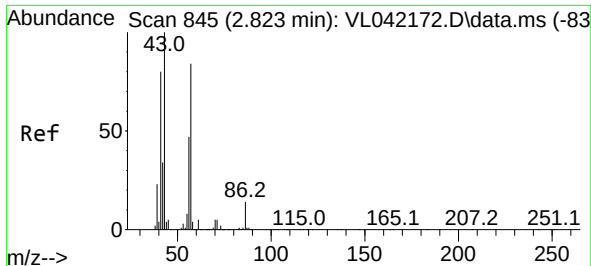


#20
Methylene Chloride
Concen: 14.826 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01



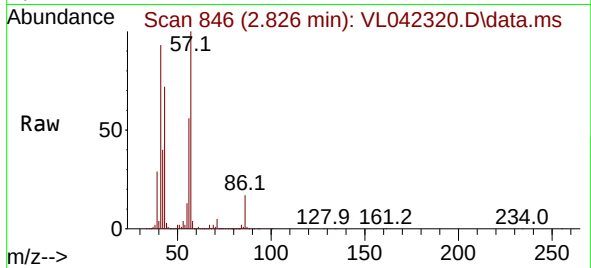
Tgt Ion: 84 Resp: 141997
Ion Ratio Lower Upper
84 100
49 157.4 120.2 180.4
51 49.9 37.4 56.0
86 66.4 52.4 78.6





#26
Hexane
Concen: 8.094 ppbv
RT: 2.826 min Scan# 845
Delta R.T. 0.003 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

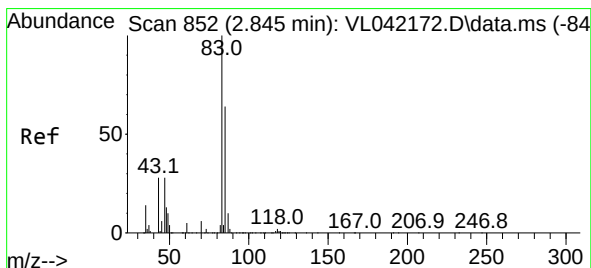
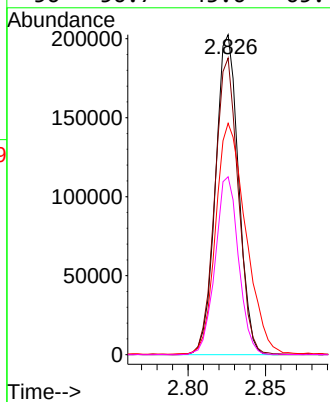
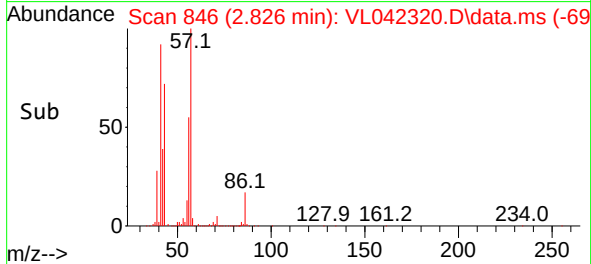
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-1-3242025



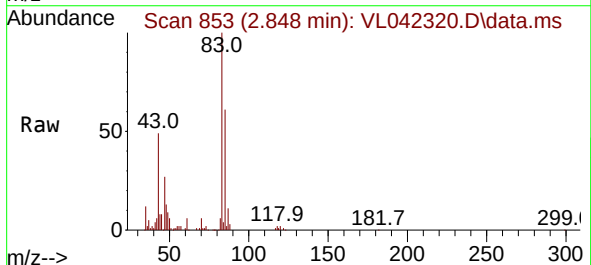
Tgt Ion: 57 Resp: 208679
Ion Ratio Lower Upper
57 100
41 94.9 76.6 114.8
43 94.7 207.8 311.8
56 56.7 43.6 65.4

Manual Integrations
APPROVED

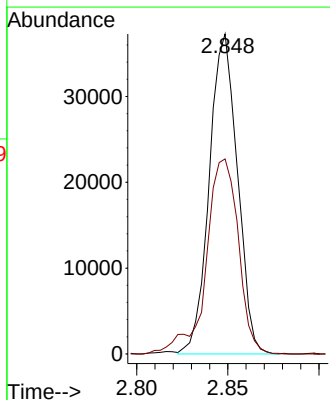
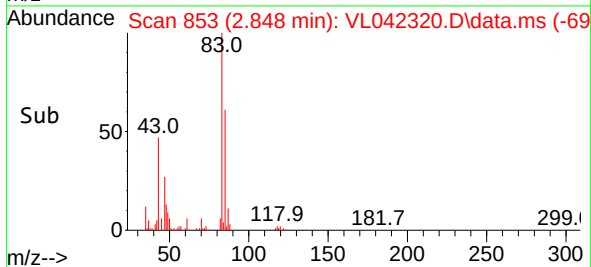
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

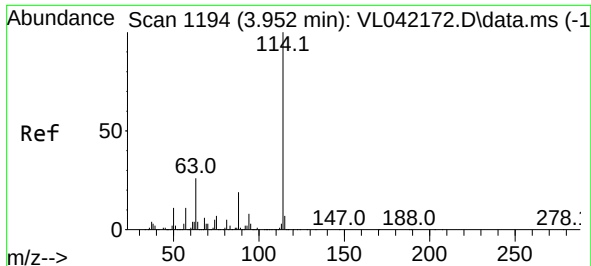


#29
Chloroform
Concen: 1.061 ppbv
RT: 2.848 min Scan# 853
Delta R.T. 0.003 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01



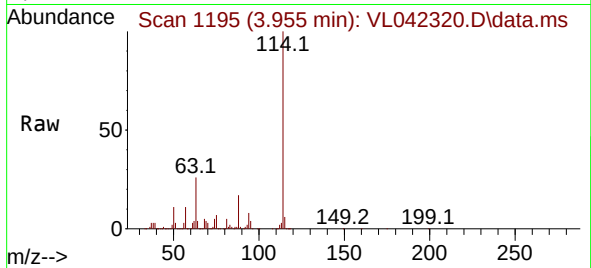
Tgt Ion: 83 Resp: 40045
Ion Ratio Lower Upper
83 100
85 60.9 51.4 77.2





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. 0.003 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

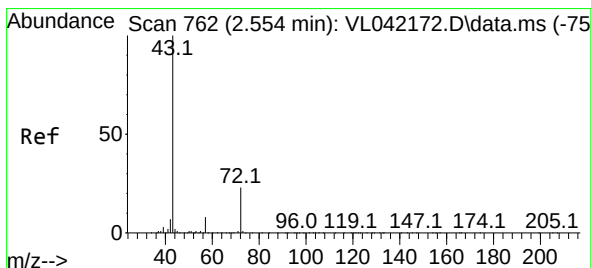
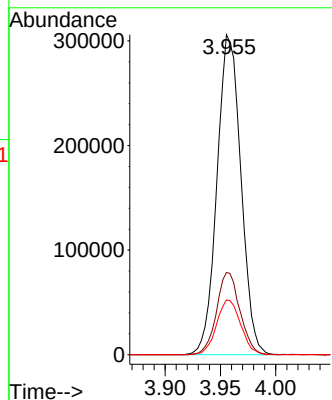
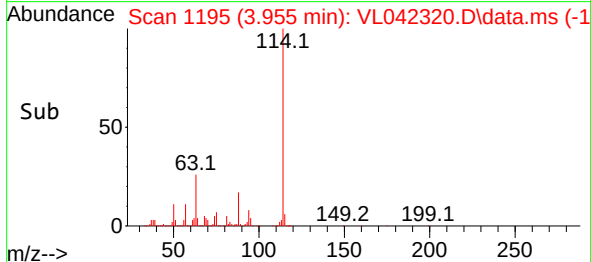
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-1-3242025



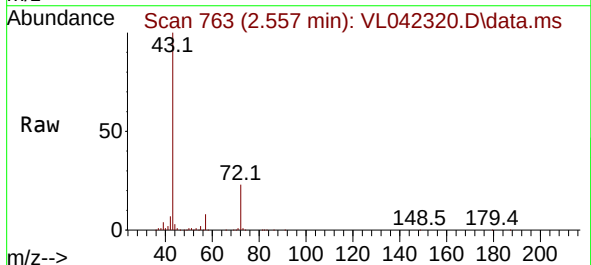
Tgt Ion:114 Resp: 46065
Ion Ratio Lower Upper
114 100
63 25.2 20.7 31.1
88 17.2 15.0 22.4

Manual Integrations
APPROVED

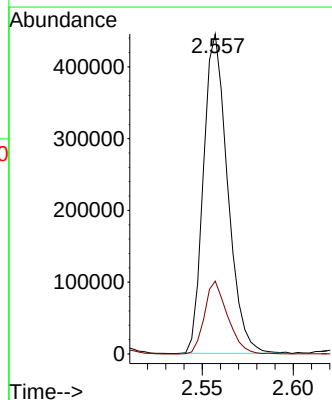
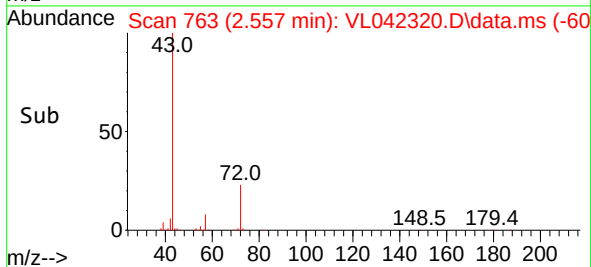
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

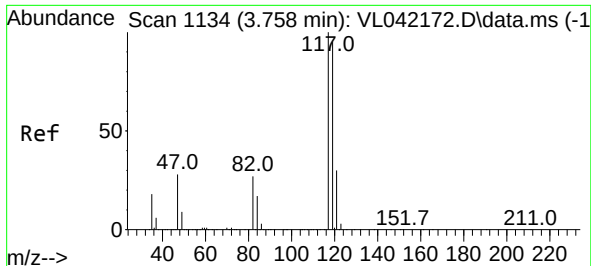


#34
2-Butanone
Concen: 12.316 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.003 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01



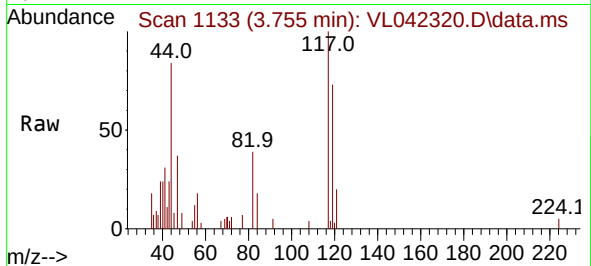
Tgt Ion: 43 Resp: 411404
Ion Ratio Lower Upper
43 100
72 21.9 18.2 27.2





#35
Carbon Tetrachloride
Concen: 0.078 ppbv m
RT: 3.755 min Scan# 1133
Delta R.T. -0.003 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

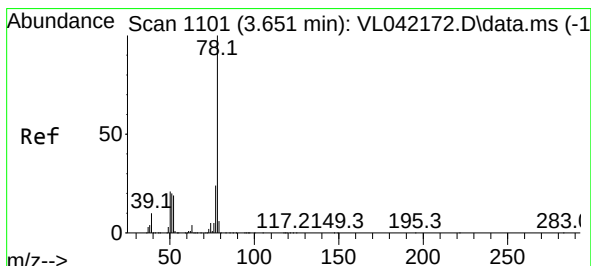
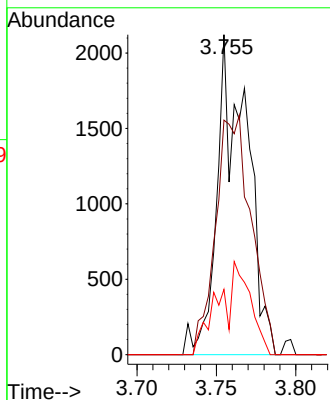
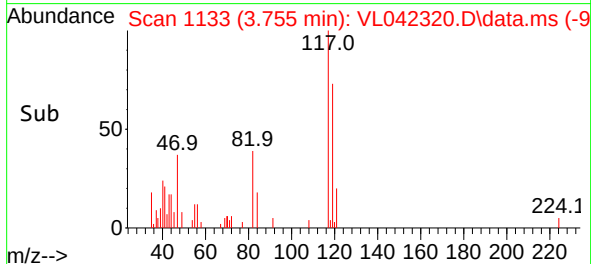
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-1-3242025



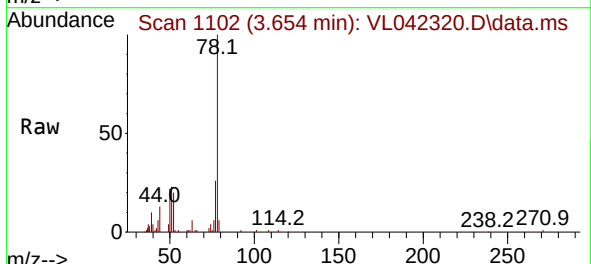
Tgt Ion: 117 Resp: 279
Ion Ratio Lower Upper
117 100
119 73.3 76.2 114.2
121 20.4 24.2 36.4

Manual Integrations
APPROVED

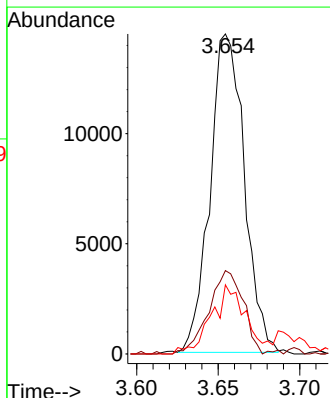
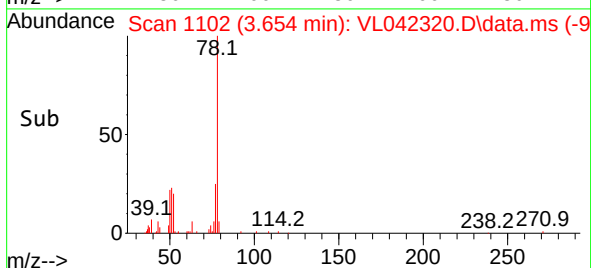
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

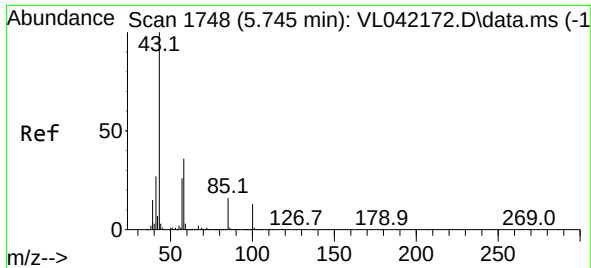


#36
Benzene
Concen: 0.463 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. 0.003 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01



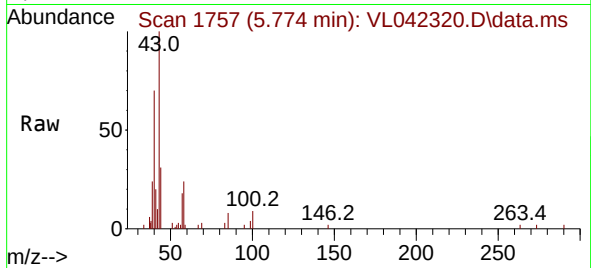
Tgt Ion: 78 Resp: 21158
Ion Ratio Lower Upper
78 100
77 25.2 19.1 28.7
50 19.8 16.6 24.8





#50
4-Methyl-2-Pentanone
Concen: 0.159 ppbv m
RT: 5.774 min Scan# 1757
Delta R.T. 0.029 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

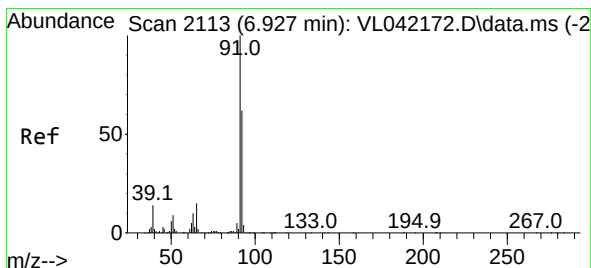
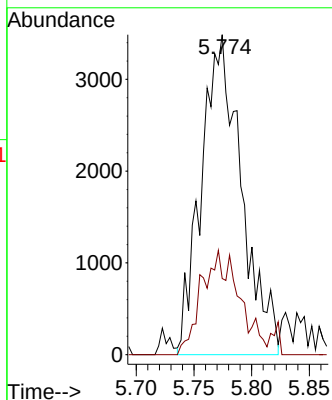
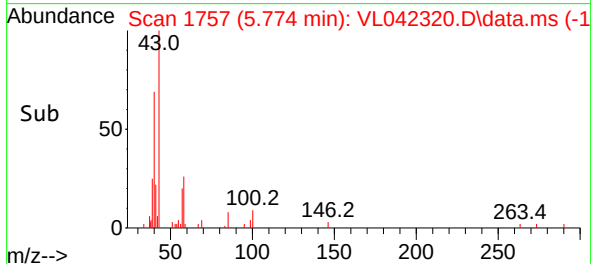
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-1-3242025



Tgt Ion: 43 Resp: 844
Ion Ratio Lower Upper
43 100
58 0.0 29.0 43.6

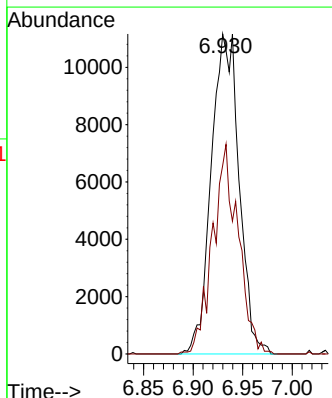
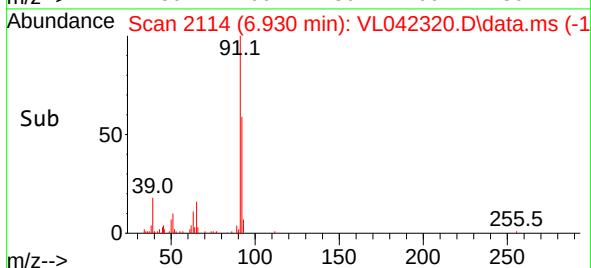
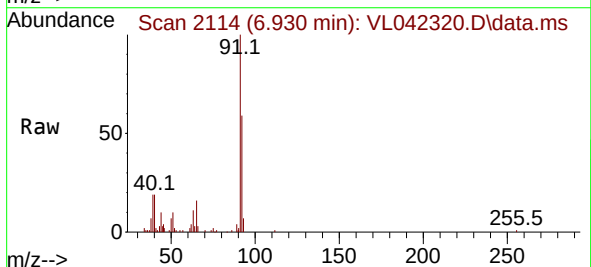
Manual Integrations
APPROVED

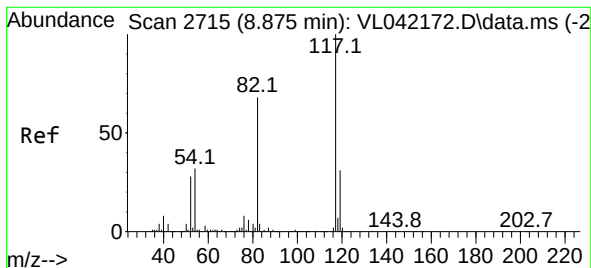
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#53
Toluene
Concen: 0.402 ppbv m
RT: 6.930 min Scan# 2114
Delta R.T. 0.003 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

Tgt Ion: 91 Resp: 21762
Ion Ratio Lower Upper
91 100
92 60.1 48.4 72.6





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.882 min Scan# 21

Delta R.T. 0.006 min

Lab File: VL042320.D

Acq: 11 Apr 2025 15:01

Instrument :

MSVOA_L

ClientSampleId :

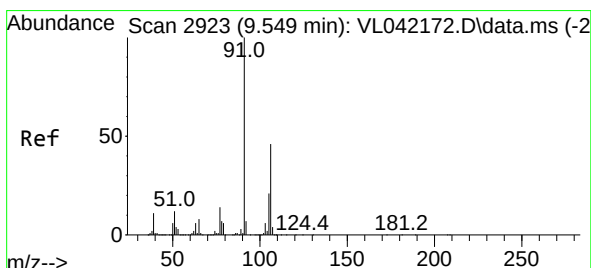
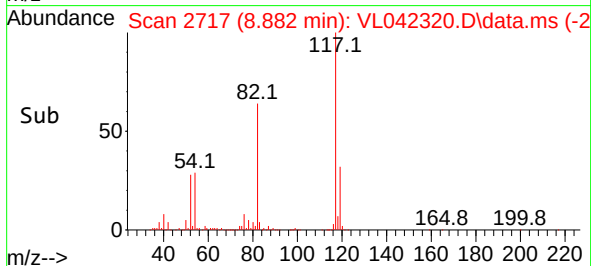
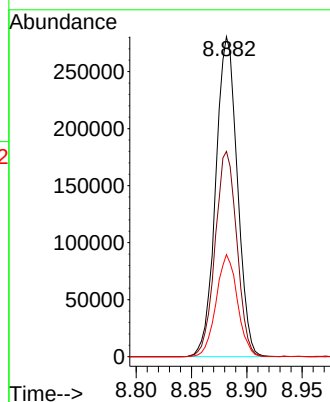
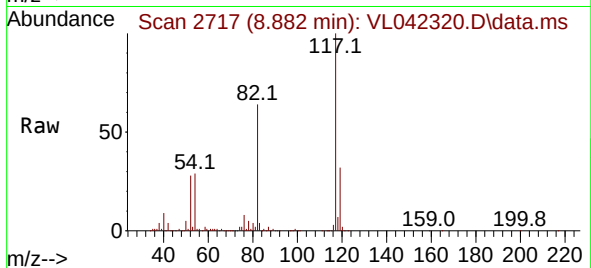
IA-B10-1-3242025

Tgt Ion:	117	Resp:	381290
Ion Ratio	Lower	Upper	
117	100		
82	64.4	55.8	83.6
119	31.5	25.5	38.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#59

m/p-Xylene

Concen: 0.223 ppbv m

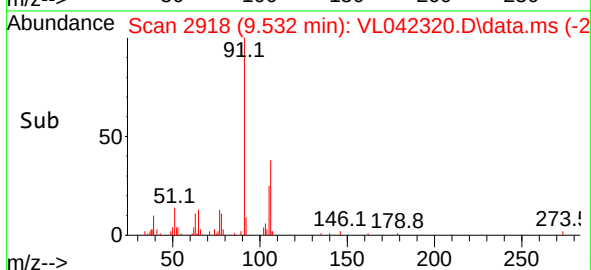
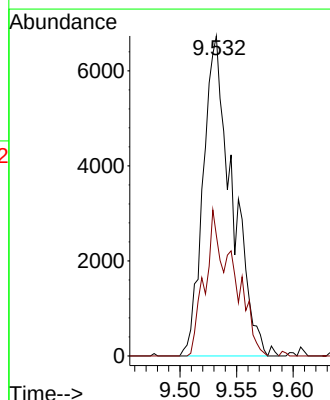
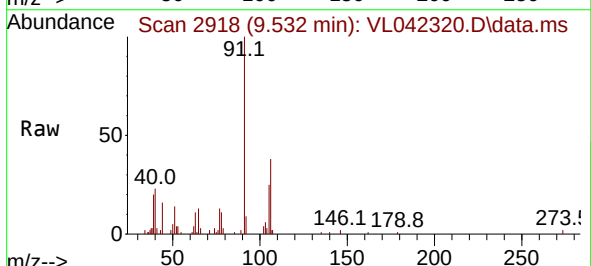
RT: 9.532 min Scan# 2918

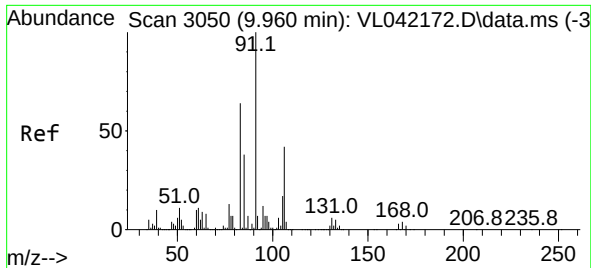
Delta R.T. -0.016 min

Lab File: VL042320.D

Acq: 11 Apr 2025 15:01

Tgt Ion:	91	Resp:	12058
Ion Ratio	Lower	Upper	
91	100		
106	0.0	36.4	54.6#





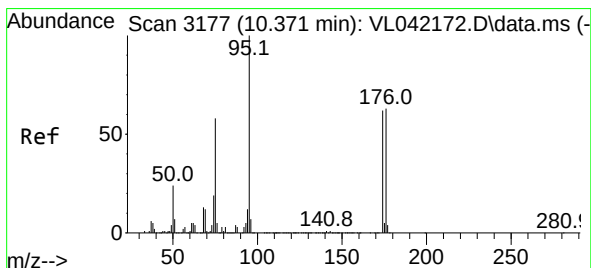
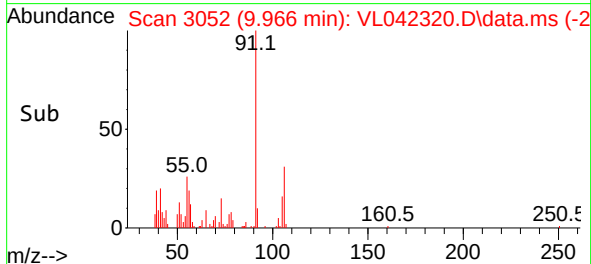
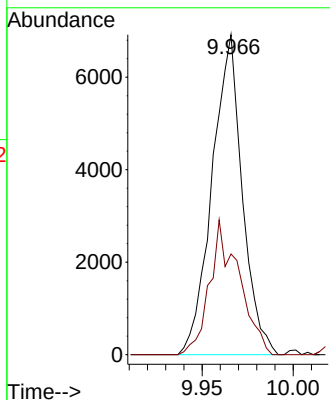
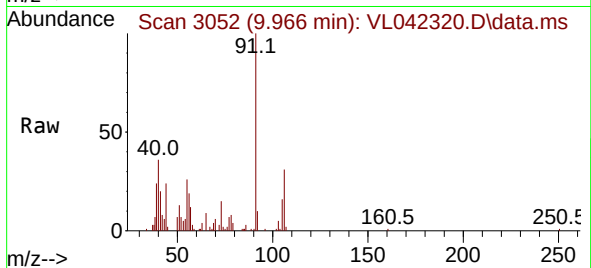
#60
o-Xylene
Concen: 0.147 ppbv
RT: 9.966 min Scan# 3050
Delta R.T. 0.006 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

Instrument :
MSVOA_L
ClientSampleId :
IA-B10-1-3242025

Tgt Ion: 91 Resp: 797
Ion Ratio Lower Upper
91 100
106 41.2 20.8 62.5

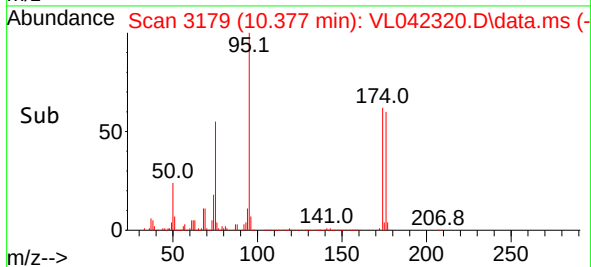
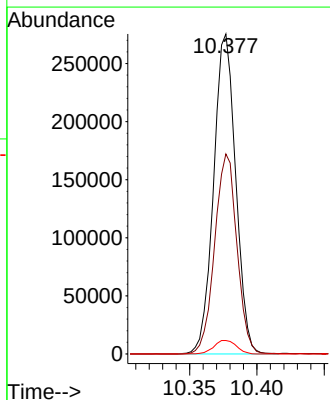
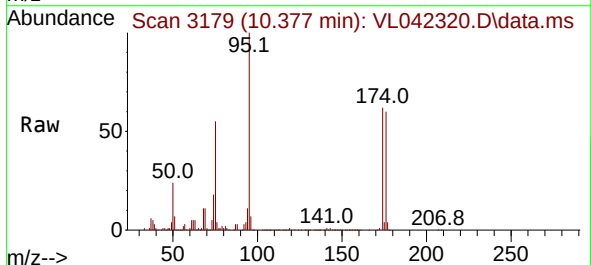
Manual Integrations
APPROVED

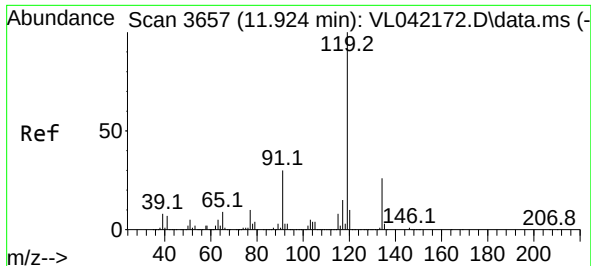
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 10.030 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.006 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

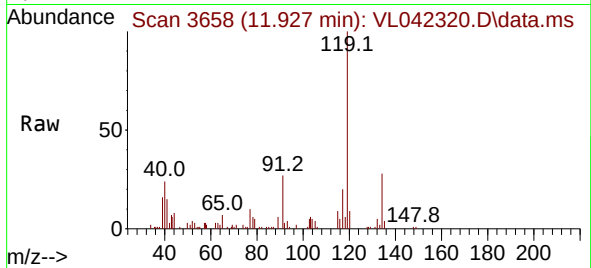
Tgt Ion: 95 Resp: 314052
Ion Ratio Lower Upper
95 100
174 63.2 50.6 76.0
175 4.3 3.8 5.6





#69
p-Isopropyltoluene
Concen: 0.116 ppbv
RT: 11.927 min Scan# 30
Delta R.T. 0.003 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

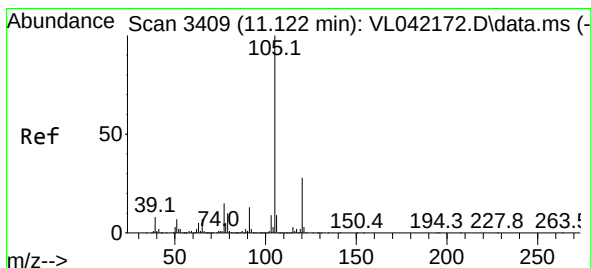
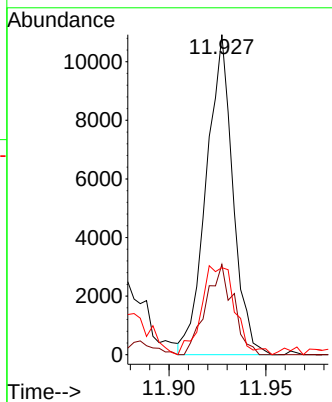
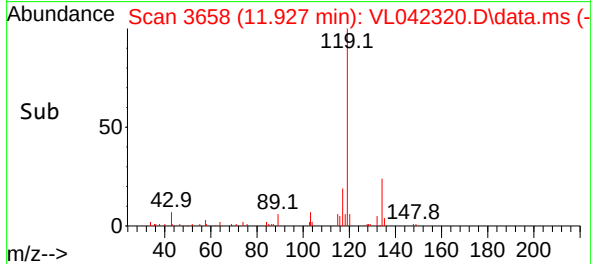
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-1-3242025



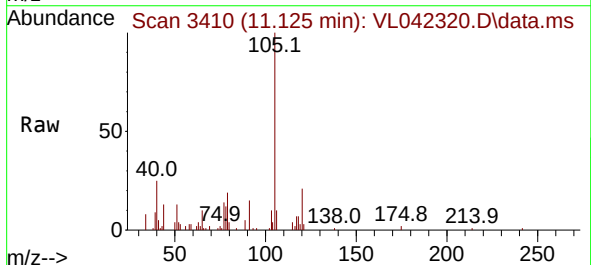
Tgt Ion:119 Resp: 1039
Ion Ratio Lower Upper
119 100
134 33.8 20.4 30.6
91 32.3 23.7 35.5

Manual Integrations
APPROVED

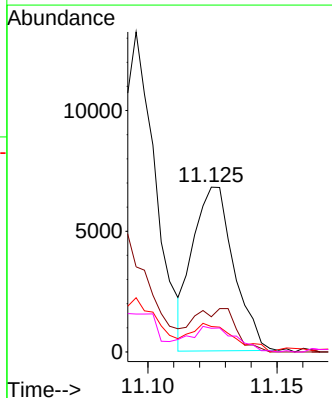
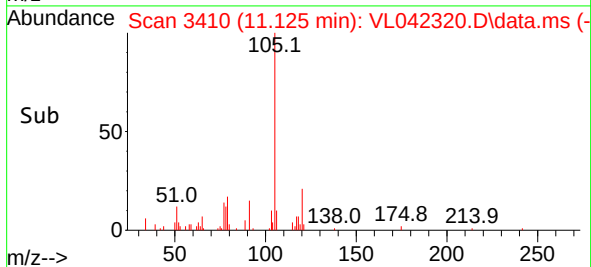
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

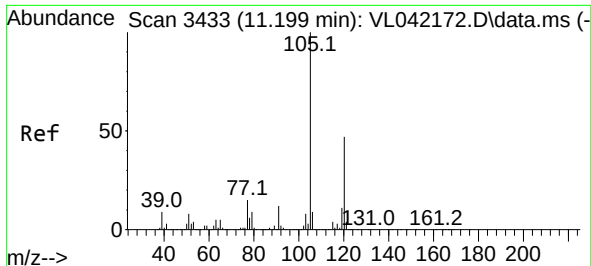


#72
4-Ethyltoluene
Concen: 0.111 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.003 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01



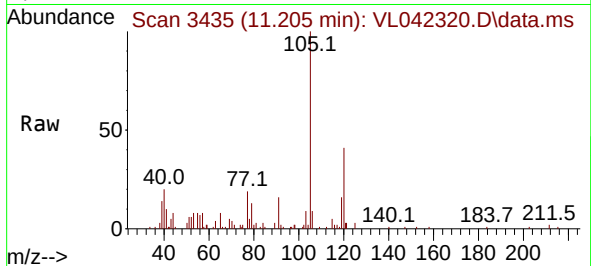
Tgt Ion:105 Resp: 7507
Ion Ratio Lower Upper
105 100
120 0.0 23.4 35.0#
91 0.0 10.3 15.5#
77 14.0 11.4 17.2





#73
1,3,5-Trimethylbenzene
Concen: 0.161 ppbv
RT: 11.205 min Scan# 3435
Delta R.T. 0.006 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

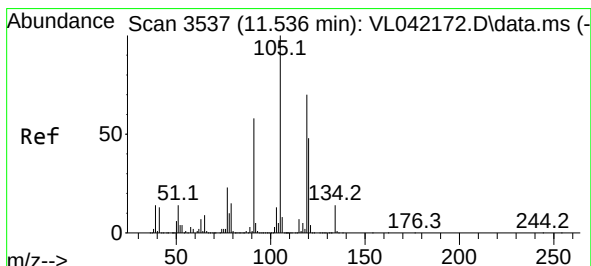
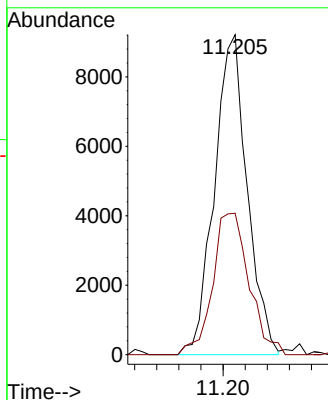
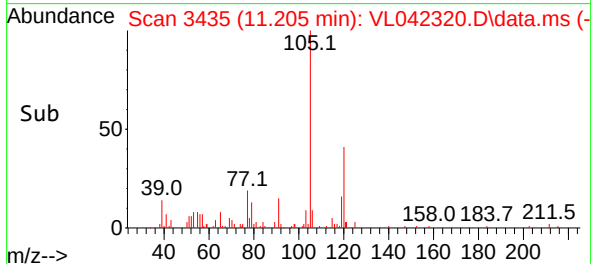
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-1-3242025



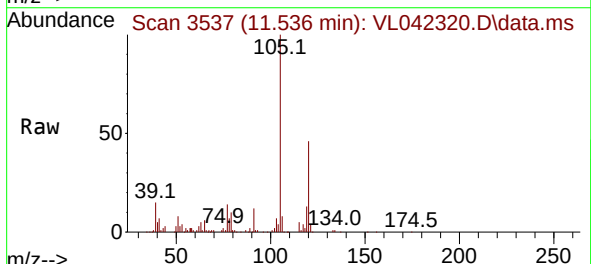
Tgt Ion:105 Resp: 948
Ion Ratio Lower Upper
105 100
120 44.2 37.4 56.0

Manual Integrations
APPROVED

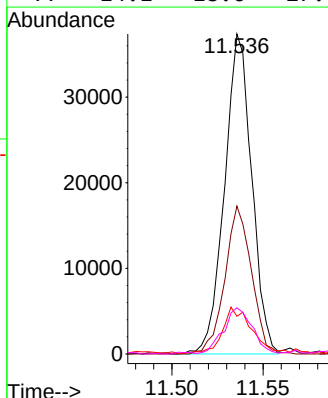
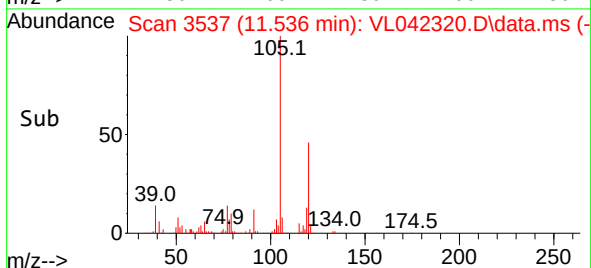
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#74
1,2,4-Trimethylbenzene
Concen: 0.571 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. -0.000 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01



Tgt Ion:105 Resp: 38801
Ion Ratio Lower Upper
105 100
120 46.2 38.6 58.0
91 11.5 46.2 69.2#
77 14.1 18.6 27.8#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042320.D
Acq On : 11 Apr 2025 15:01
Operator : SY/MD
Sample : Q1665-11
Misc : 400mL/MSVOA_L
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B10-1-3242025

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\VL032725AIR.M

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

Signal : TIC: VL042320.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	409	415	420	rBV	4521054	5174698	100.00%	22.327%
2	1.466	423	426	429	rVV	269253	151719	2.93%	0.655%
3	1.486	429	432	438	rVB2	588237	309195	5.98%	1.334%
4	1.557	450	454	461	rVB2	833918	442946	8.56%	1.911%
5	1.619	470	473	478	rVB	269204	152176	2.94%	0.657%
6	1.722	500	505	516	rBV	3716599	2427848	46.92%	10.475%
7	1.832	535	539	548	rBV	4850992	3655379	70.64%	15.772%
8	1.884	548	555	568	rVB	1736706	1240418	23.97%	5.352%
9	2.059	600	609	618	rVB	969996	755882	14.61%	3.261%
10	2.557	757	763	774	rVV	700392	647954	12.52%	2.796%
11	2.625	776	784	791	rVB	80469	87301	1.69%	0.377%
12	2.787	824	834	840	rBV	666814	689399	13.32%	2.975%
13	2.826	840	846	861	rVB2	938666	1179414	22.79%	5.089%
14	3.230	959	971	979	rBV	63135	87401	1.69%	0.377%
15	3.658	1092	1103	1107	rBV3	36811	54817	1.06%	0.237%
16	3.687	1107	1112	1127	rVB3	98863	160073	3.09%	0.691%
17	3.955	1183	1195	1211	rBV	805569	1221021	23.60%	5.268%
18	6.933	2101	2115	2126	rBV2	30809	65965	1.27%	0.285%
19	8.882	2702	2717	2728	rBV	961877	1334856	25.80%	5.759%
20	9.943	3035	3045	3062	rBV6	68894	148791	2.88%	0.642%
21	10.377	3164	3179	3191	rBV	1277243	1538599	29.73%	6.639%
22	11.426	3498	3503	3511	rVB3	60665	68529	1.32%	0.296%
23	11.536	3529	3537	3550	rBV2	117241	142672	2.76%	0.616%
24	11.756	3598	3605	3617	rVB2	189415	233878	4.52%	1.009%
25	12.044	3685	3694	3704	rBV	1148822	1120777	21.66%	4.836%
26	12.827	3930	3936	3944	rBV2	74331	85044	1.64%	0.367%

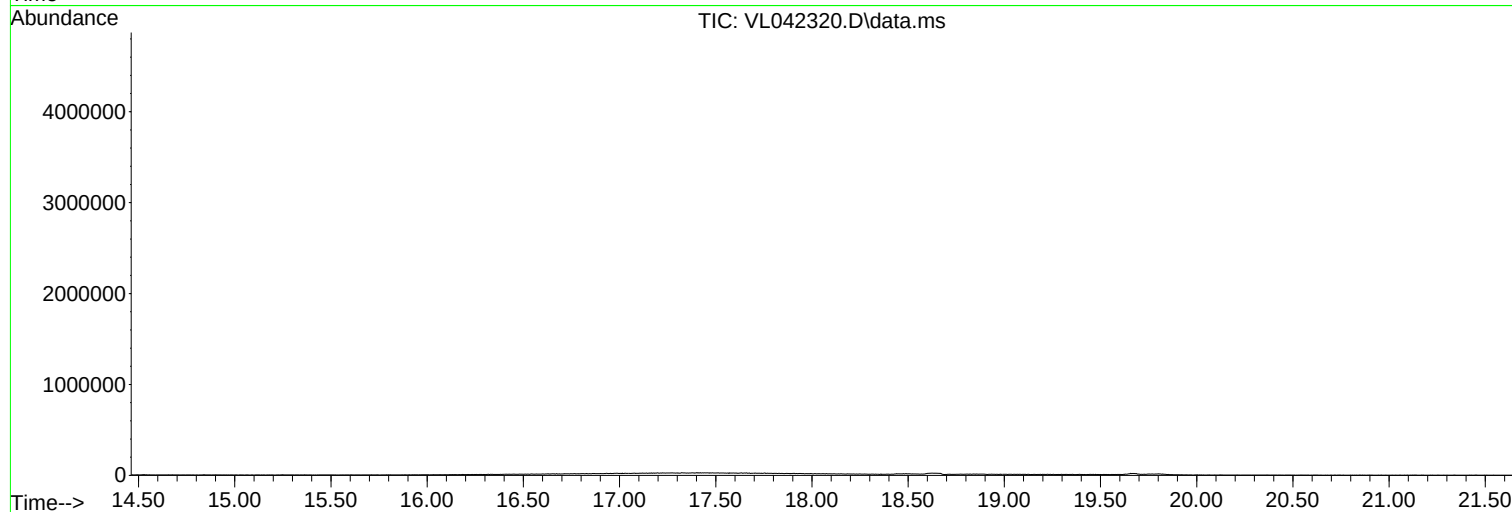
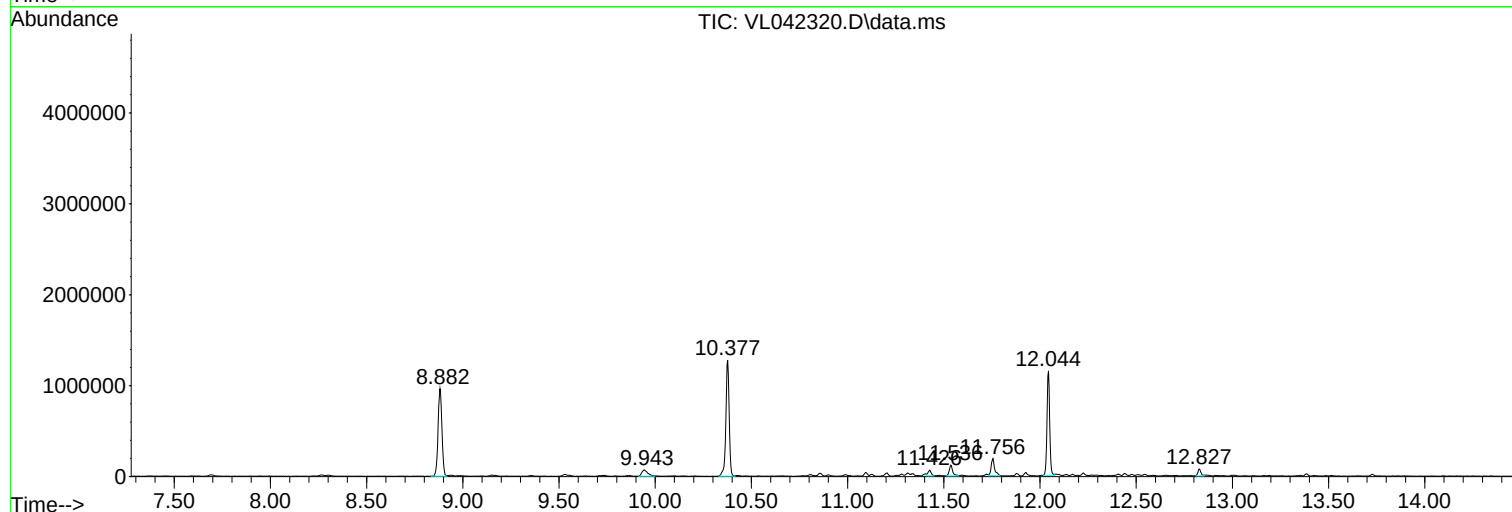
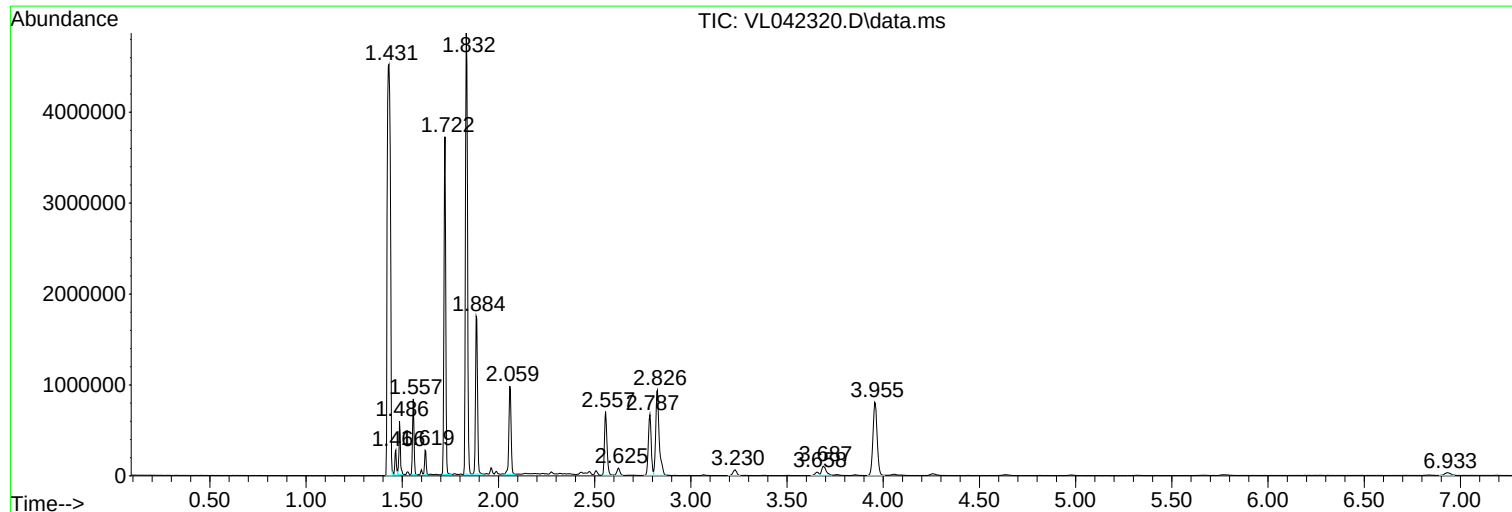
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042320.D
Acq On : 11 Apr 2025 15:01
Operator : SY/MD
Sample : Q1665-11
Misc : 400mL/MSVOA_L
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B10-1-3242025

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

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042320.D
Acq On : 11 Apr 2025 15:01
Operator : SY/MD
Sample : Q1665-11
Misc : 400mL/MSVOA_L
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B10-1-3242025

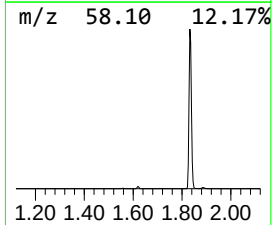
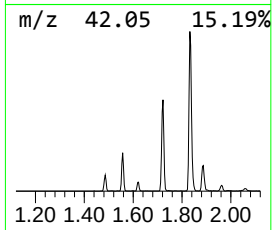
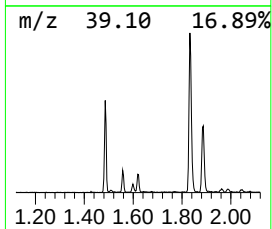
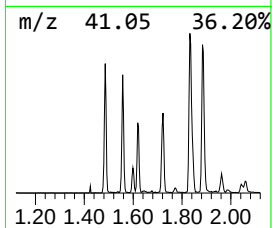
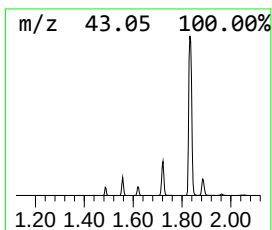
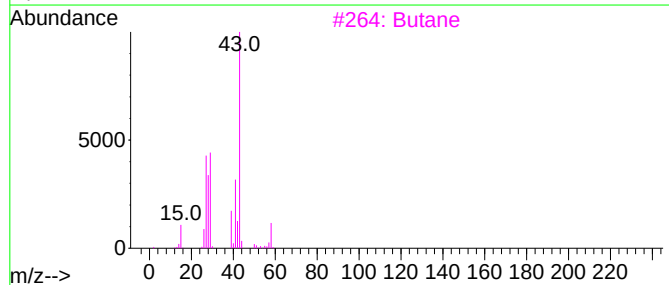
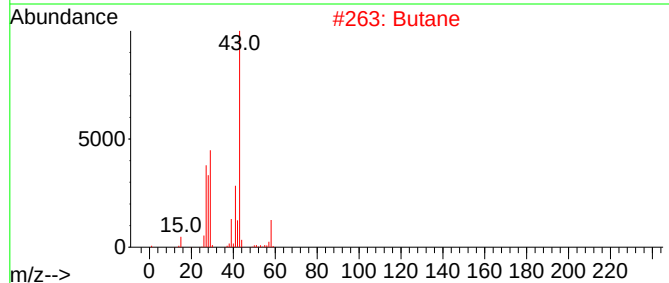
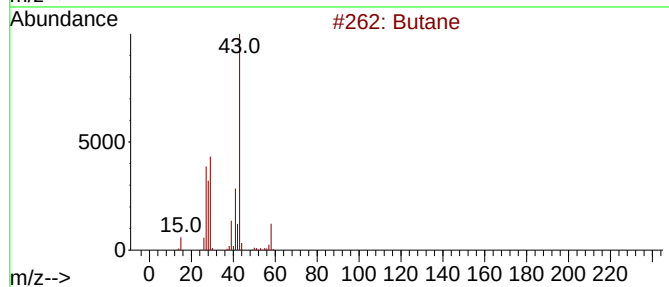
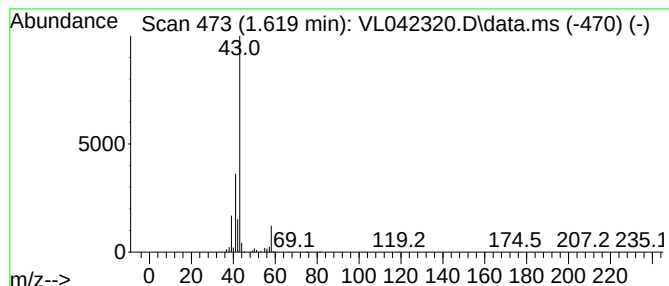
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 1 Butane Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.619	2.21 ppbv	152176	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	Isopropylsulfonyl chloride			142	C3H7ClO2S	010147-37-2	9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042320.D
Acq On : 11 Apr 2025 15:01
Operator : SY/MD
Sample : Q1665-11
Misc : 400mL/MSVOA_L
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B10-1-3242025

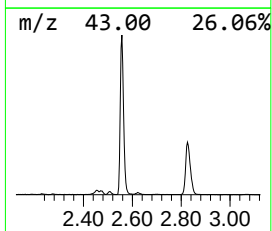
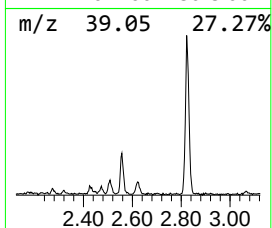
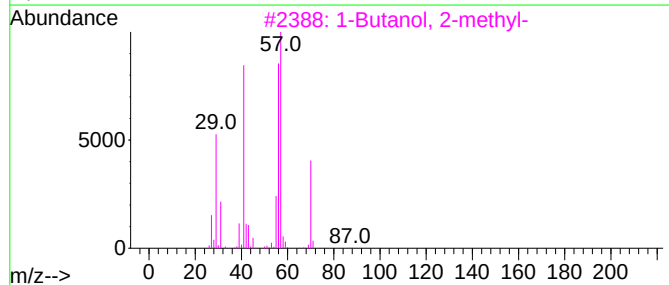
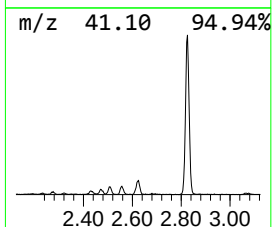
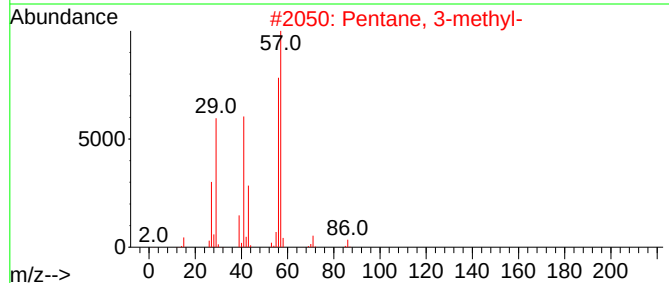
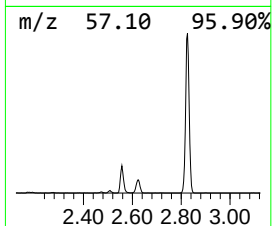
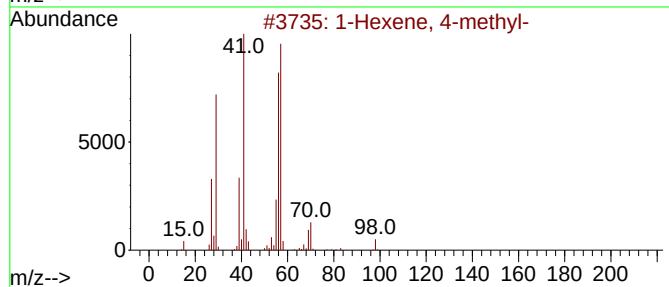
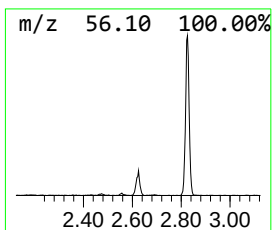
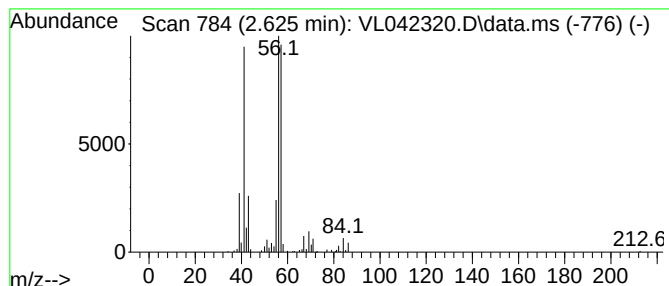
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 2 1-Hexene, 4-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.625	1.27 ppbv	87301	Bromochloromethane	2.787

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Hexene, 4-methyl-		98	C7H14	003769-23-1	72
2	Pentane, 3-methyl-		86	C6H14	000096-14-0	59
3	1-Butanol, 2-methyl-		88	C5H12O	000137-32-6	56
4	1-Hexene, 4-methyl-		98	C7H14	003769-23-1	56
5	Cyclopropane, propyl-		84	C6H12	002415-72-7	50



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042320.D
Acq On : 11 Apr 2025 15:01
Operator : SY/MD
Sample : Q1665-11
Misc : 400mL/MSVOA_L
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B10-1-3242025

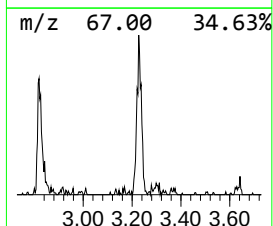
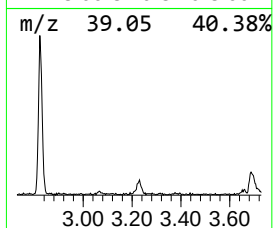
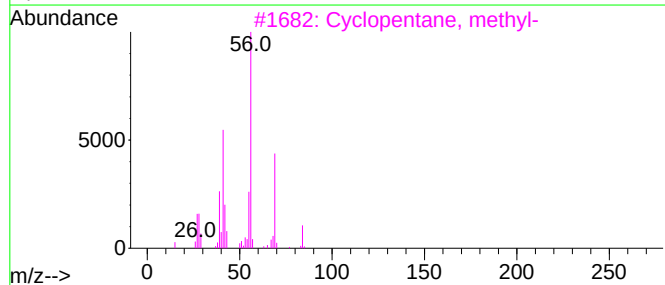
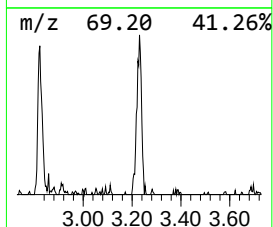
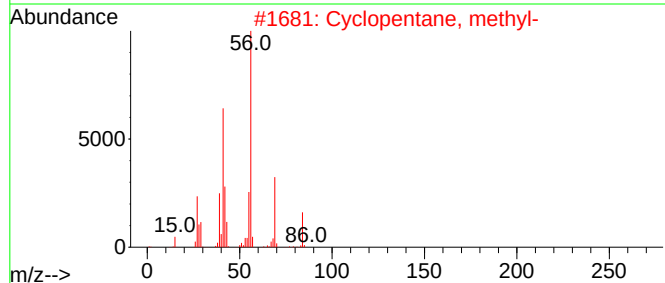
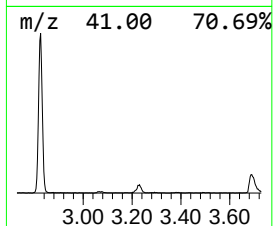
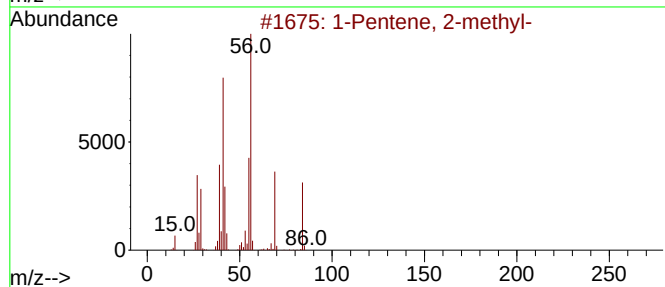
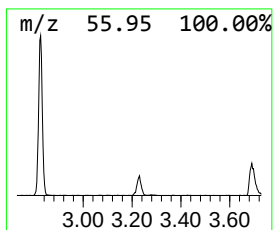
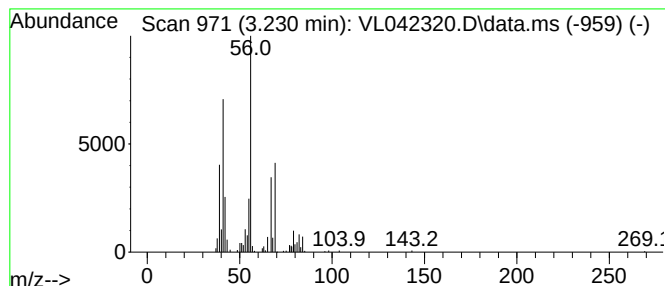
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 3 unknown3.230 Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.230	1.27 ppbv	87401	Bromochloromethane	2.787

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		1-Pentene, 2-methyl-	84	C6H12	000763-29-1	47
2		Cyclopentane, methyl-	84	C6H12	000096-37-7	43
3		Cyclopentane, methyl-	84	C6H12	000096-37-7	38
4		2-Butene	56	C4H8	000107-01-7	38
5		Cyclobutane	56	C4H8	000287-23-0	35



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042320.D
Acq On : 11 Apr 2025 15:01
Operator : SY/MD
Sample : Q1665-11
Misc : 400mL/MSVOA_L
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B10-1-3242025

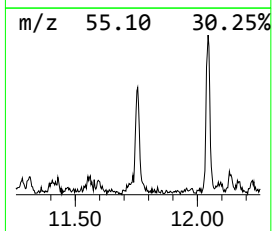
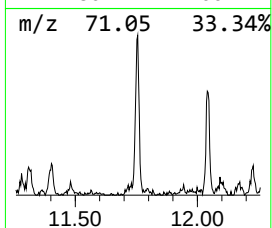
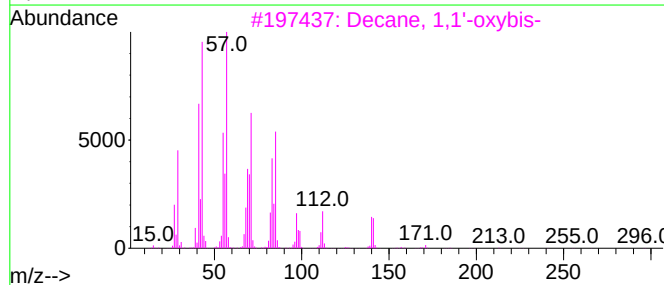
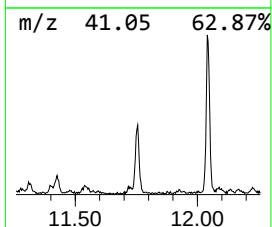
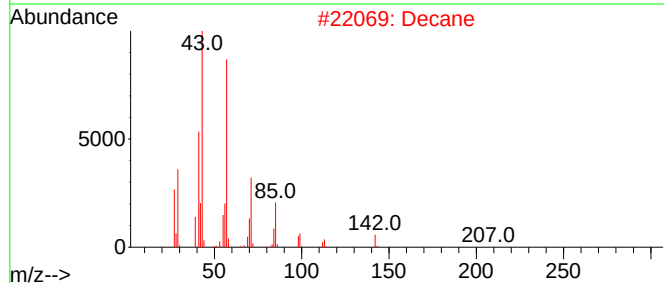
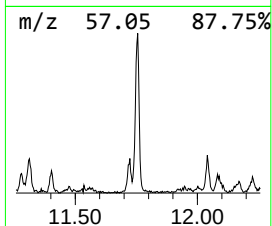
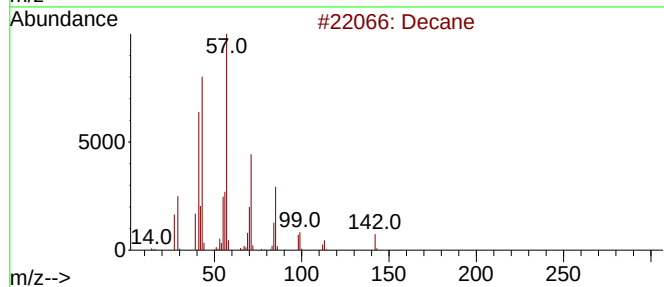
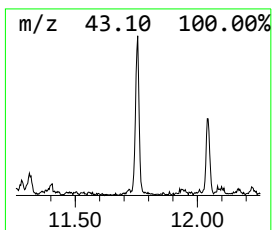
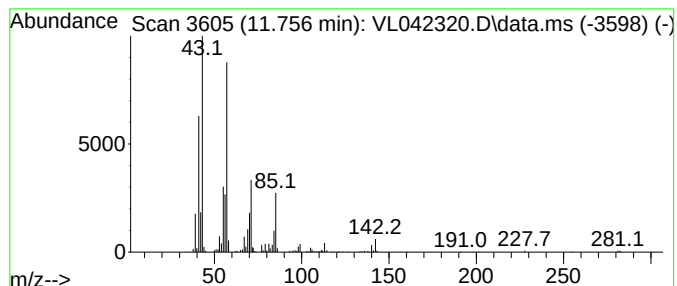
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 4 Decane Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.756	1.75 ppbv	233878	Chlorobenzene-d5	8.882

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Decane			142	C10H22	000124-18-5	90
2	Decane			142	C10H22	000124-18-5	90
3	Decane, 1,1'-oxybis-			298	C20H42O	002456-28-2	78
4	Decane			142	C10H22	000124-18-5	74
5	Hexane, 2,4-dimethyl-			114	C8H18	000589-43-5	59



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042320.D
Acq On : 11 Apr 2025 15:01
Operator : SY/MD
Sample : Q1665-11
Misc : 400mL/MSVOA_L
ALS Vial : 3 Sample Multiplier: 1

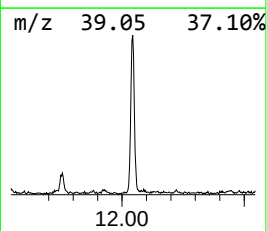
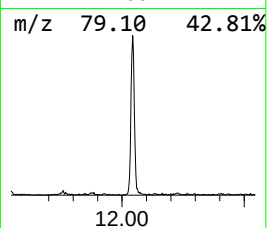
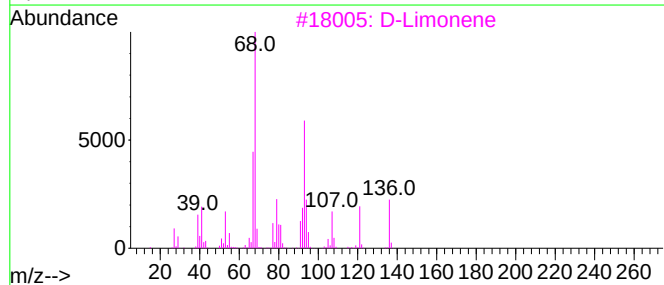
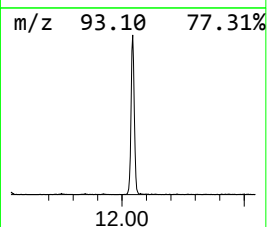
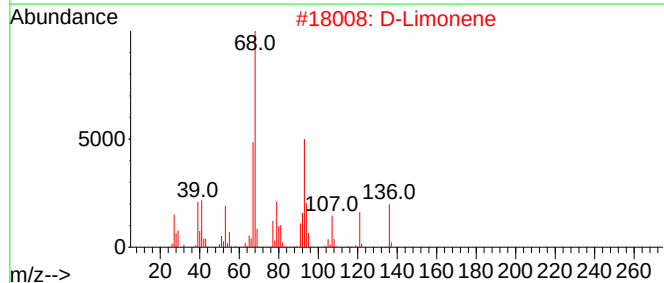
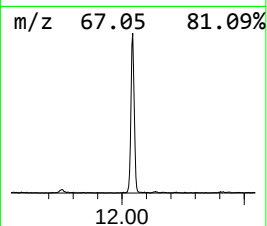
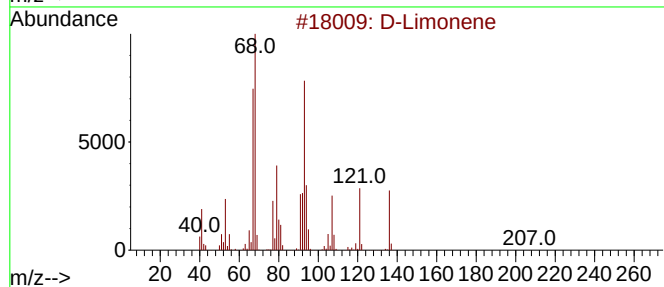
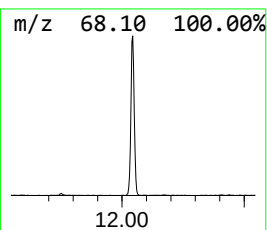
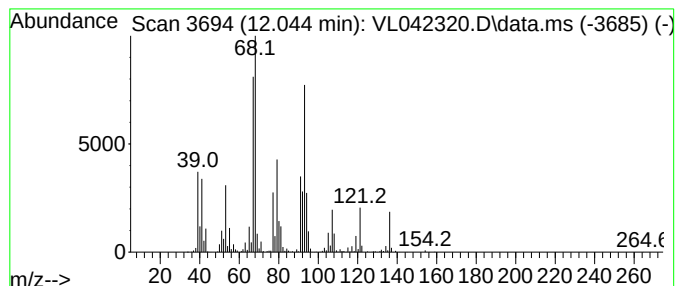
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-1-3242025

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

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

Peak Number 5 D-Limonene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.	
12.044	8.40 ppbv	1120780	Chlorobenzene-d5	8.882	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	D-Limonene	136	C10H16	005989-27-5	98
2	D-Limonene	136	C10H16	005989-27-5	93
3	D-Limonene	136	C10H16	005989-27-5	93
4	Limonene	136	C10H16	000138-86-3	91
5	Limonene	136	C10H16	000138-86-3	81



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042320.D
Acq On : 11 Apr 2025 15:01
Operator : SY/MD
Sample : Q1665-11
Misc : 400mL/MSVOA_L
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B10-1-3242025

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

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	1.619	2.2	ppbv	152176	1	2.787	689399	10.0
1-Hexene, 4-met...	2.625	1.3	ppbv	87301	1	2.787	689399	10.0
unknown3.230	3.230	1.3	ppbv	87401	1	2.787	689399	10.0
Decane	11.756	1.8	ppbv	233878	3	8.882	1334860	10.0
D-Limonene	12.044	8.4	ppbv	1120780	3	8.882	1334860	10.0

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/25/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	03/26/25
Client Sample ID:	IA-B10-1-3242025DL	SDG No.:	Q1665
Lab Sample ID:	Q1665-11DL	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
VL042324.D	10		04/11/25 17:10	VL041125

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	2.10	10.4	UD	10.4	24.7	ug/m3
74-87-3	Chloromethane	0.98	2.02	UD	2.02	10.3	ug/m3
75-01-4	Vinyl Chloride	0.14	0.36	UD	0.36	0.77	ug/m3
74-83-9	Bromomethane	1.40	5.44	UD	5.44	19.4	ug/m3
75-00-3	Chloroethane	1.70	4.49	UD	4.49	13.2	ug/m3
109-99-9	Tetrahydrofuran	1.30	3.83	UD	3.83	14.8	ug/m3
75-69-4	Trichlorofluoromethane	1.60	8.99	UD	8.99	28.1	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	1.60	12.3	UD	12.3	38.3	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.88	6.15	UD	6.15	35.0	ug/m3
75-65-0	tert-Butyl alcohol	1.90	5.76	UD	5.76	15.2	ug/m3
142-82-5	Heptane	1.10	4.51	UD	4.51	20.5	ug/m3
75-35-4	1,1-Dichloroethene	1.40	5.55	UD	5.55	19.8	ug/m3
67-64-1	Acetone	130	309	D	5.70	11.9	ug/m3
75-15-0	Carbon Disulfide	1.60	4.98	UD	4.98	15.6	ug/m3
1634-04-4	Methyl tert-Butyl Ether	1.20	4.33	UD	4.33	18.0	ug/m3
75-09-2	Methylene Chloride	16.4	57.0	D	6.60	17.4	ug/m3
156-60-5	trans-1,2-Dichloroethene	1.90	7.53	UD	7.53	19.8	ug/m3
75-34-3	1,1-Dichloroethane	1.30	5.26	UD	5.26	20.2	ug/m3
110-82-7	Cyclohexane	2.20	7.57	UD	7.57	17.2	ug/m3
78-93-3	2-Butanone	10.0	29.5	D	3.54	14.8	ug/m3
56-23-5	Carbon Tetrachloride	0.11	0.69	UD	0.69	1.89	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.89	3.53	UD	3.53	19.8	ug/m3
67-66-3	Chloroform	1.00	4.88	JD	4.05	24.4	ug/m3
71-55-6	1,1,1-Trichloroethane	0.10	0.55	UD	0.55	1.64	ug/m3
540-84-1	2,2,4-Trimethylpentane	1.00	4.67	UD	4.67	23.4	ug/m3
71-43-2	Benzene	0.87	2.78	UD	2.78	16.0	ug/m3
107-06-2	1,2-Dichloroethane	0.91	3.68	UD	3.68	20.2	ug/m3
79-01-6	Trichloroethene	0.17	0.91	UD	0.91	1.61	ug/m3
78-87-5	1,2-Dichloropropane	1.10	5.08	UD	5.08	23.1	ug/m3
75-27-4	Bromodichloromethane	0.77	5.16	UD	5.16	33.5	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.93	3.81	UD	3.81	20.5	ug/m3
108-88-3	Toluene	1.10	4.15	UD	4.15	18.8	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.60	2.72	UD	2.72	22.7	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.64	2.91	UD	2.91	22.7	ug/m3
79-00-5	1,1,2-Trichloroethane	0.71	3.87	UD	3.87	27.3	ug/m3

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/25/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	03/26/25
Client Sample ID:	IA-B10-1-3242025DL	SDG No.:	Q1665
Lab Sample ID:	Q1665-11DL	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
VL042324.D	10		04/11/25 17:10	VL041125

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.66	5.62	UD	5.62	42.6	ug/m3
106-93-4	1,2-Dibromoethane	0.72	5.53	UD	5.53	7.69	ug/m3
127-18-4	Tetrachloroethene	0.15	1.02	UD	1.02	2.03	ug/m3
108-90-7	Chlorobenzene	0.76	3.50	UD	3.50	23.0	ug/m3
100-41-4	Ethyl Benzene	1.20	5.21	UD	5.21	21.7	ug/m3
179601-23-1	m/p-Xylene	2.10	9.12	UD	9.12	43.4	ug/m3
95-47-6	o-Xylene	1.20	5.21	UD	5.21	21.7	ug/m3
100-42-5	Styrene	1.10	4.68	UD	4.68	21.3	ug/m3
75-25-2	Bromoform	0.57	5.89	UD	5.89	51.7	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.11	0.76	UDQ	0.76	2.06	ug/m3
95-49-8	2-Chlorotoluene	1.10	5.70	UD	5.70	25.9	ug/m3
108-67-8	1,3,5-Trimethylbenzene	1.10	5.41	UD	5.41	24.6	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.78	3.83	UD	3.83	24.6	ug/m3
541-73-1	1,3-Dichlorobenzene	0.80	4.81	UD	4.81	30.1	ug/m3
106-46-7	1,4-Dichlorobenzene	0.53	3.19	UD	3.19	30.1	ug/m3
95-50-1	1,2-Dichlorobenzene	0.75	4.51	UDQ	4.51	30.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.85	6.31	UD	6.31	37.1	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.85	9.07	UD	9.07	53.3	ug/m3
106-99-0	1,3-Butadiene	1.30	2.88	UD	2.88	11.1	ug/m3
91-20-3	Naphthalene	0.75	3.93	UD	3.93	5.24	ug/m3
622-96-8	4-Ethyltoluene	1.20	5.90	UD	5.90	24.6	ug/m3
110-54-3	Hexane	4.40	15.5	JD	3.88	17.6	ug/m3
107-05-1	Allyl Chloride	1.50	4.70	UD	4.70	15.7	ug/m3
123-91-1	1,4-Dioxane	2.10	7.57	UD	7.57	18.0	ug/m3
80-62-6	Methyl Methacrylate	0.86	3.52	UD	3.52	20.5	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.20			70 (65) - 130 (135)	92%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	177000		2.793			
540-36-3	1,4-Difluorobenzene	398000		3.968			
3114-55-4	Chlorobenzene-d5	326000		8.888			

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/25/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	03/26/25
Client Sample ID:	IA-B10-1-3242025DL	SDG No.:	Q1665
Lab Sample ID:	Q1665-11DL	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
VL042324.D	10		04/11/25 17:10	VL041125

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
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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\VL041125\
Data File : VL042324.D
Acq On : 11 Apr 2025 17:10
Operator : SY/MD
Sample : Q1665-11DL 10X
Misc : 400mL/MSVOA_L
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B10-1-3242025DL

Quant Time: Apr 11 23:03:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 04/16/2025
Supervised By : Mahesh Dadoda 04/17/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.793	49	176603	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	398133	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.888	117	325777	10.000	ppbv	0.01
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	246592	9.217	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.200%
Target Compounds						
9) Propene	1.489	41	4857	0.398	ppbv	87
13) Ethanol	1.725	45	151755	131.481	ppbv	81
15) Acetone	1.839	43	316091	12.798	ppbv	96
19) Isopropyl Alcohol	1.890	45	67257	4.826	ppbv #	1
20) Methylene Chloride	2.065	84	15039	1.635	ppbv	90
26) Hexane	2.832	57	10875	0.439	ppbv #	41
29) Chloroform	2.855	83	3754m	0.104	ppbv	
34) 2-Butanone	2.564	43	28789	0.997	ppbv	97

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

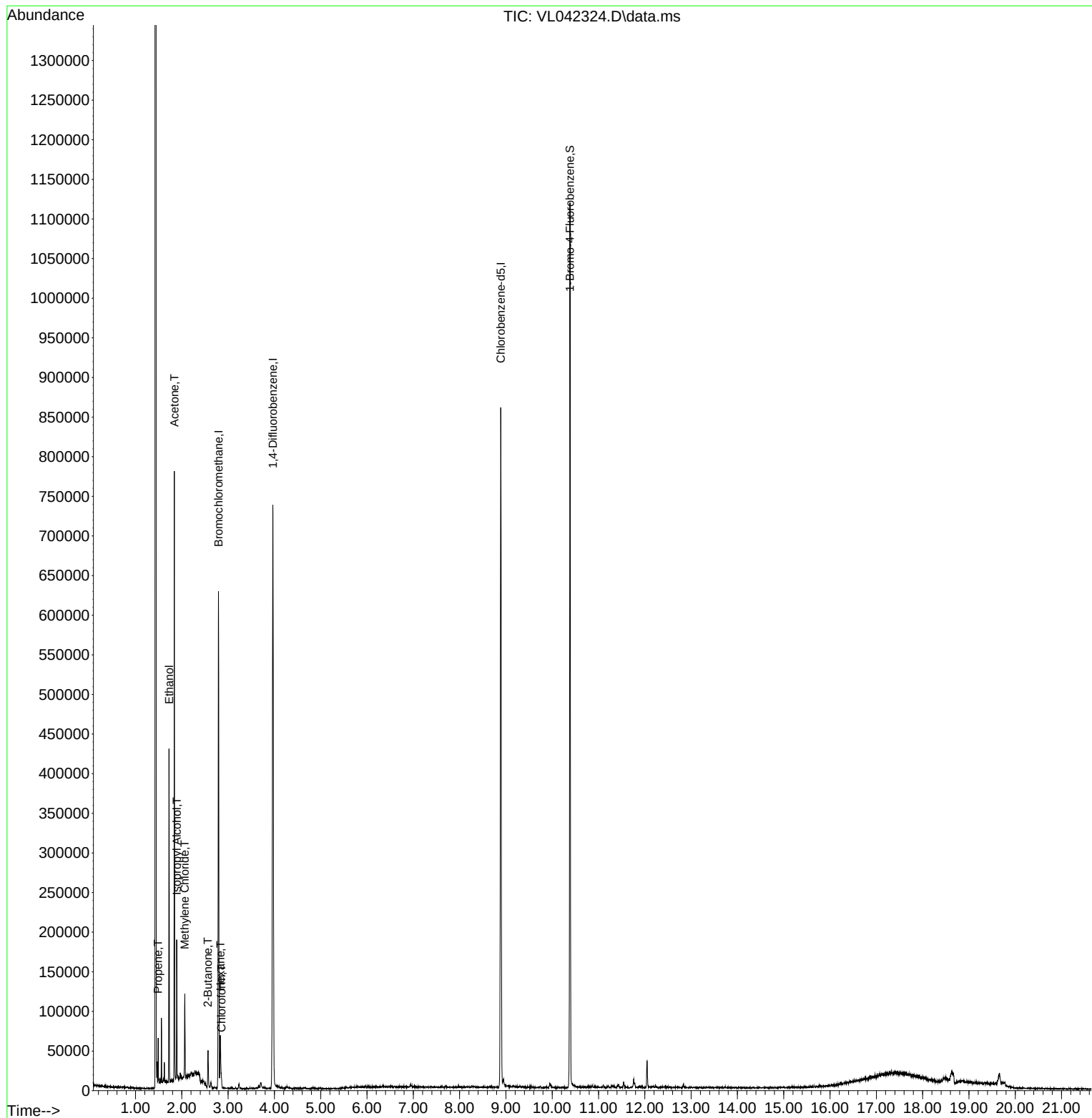
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Operator : SY/MD
Sample : Q1665-11DL 10X
Misc : 400mL/MSVOA_L
ALS Vial : 7 Sample Multiplier: 1

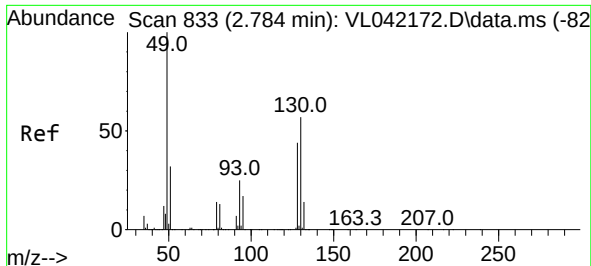
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MSVOA_L
ClientSampleId :
IA-B10-1-3242025DL

Quant Time: Apr 11 23:03:08 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 02:00:52 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025





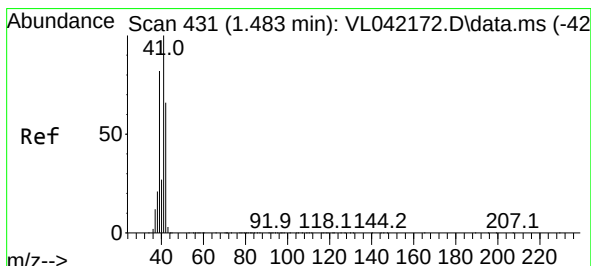
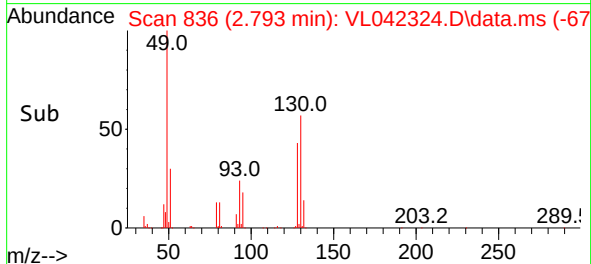
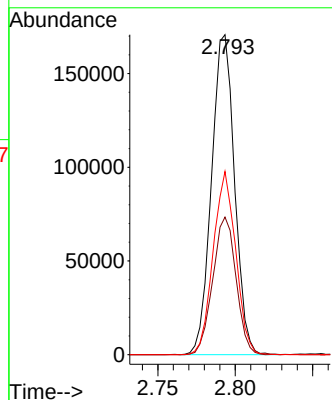
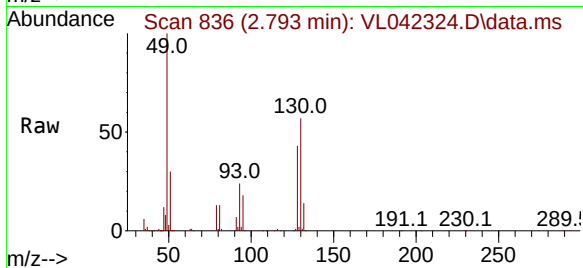
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.793 min Scan# 81
Delta R.T. 0.009 min
Lab File: VL042324.D
Acq: 11 Apr 2025 17:10

Instrument :
MSVOA_L
ClientSampleId :
IA-B10-1-3242025DL

Tgt Ion: 49 Resp: 17660
Ion Ratio Lower Upper
49 100
128 43.4 22.9 68.5
130 56.0 28.8 86.4

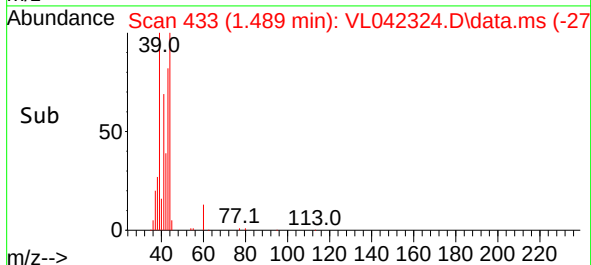
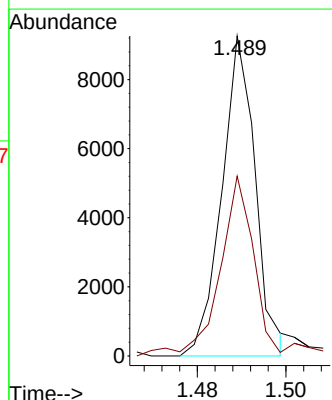
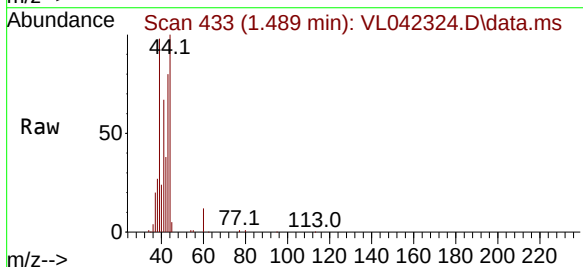
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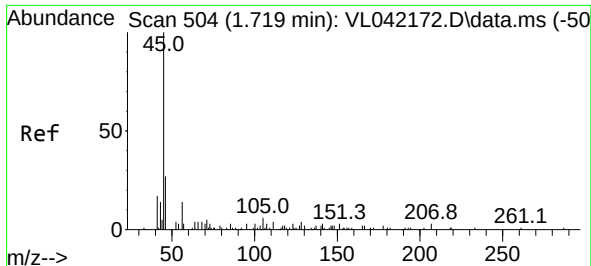
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#9
Propene
Concen: 0.398 ppbv
RT: 1.489 min Scan# 433
Delta R.T. 0.006 min
Lab File: VL042324.D
Acq: 11 Apr 2025 17:10

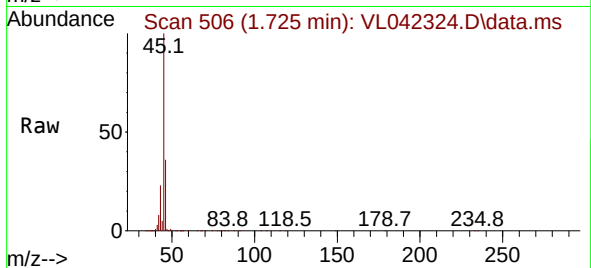
Tgt Ion: 41 Resp: 4857
Ion Ratio Lower Upper
41 100
42 59.0 55.4 83.2





#13
Ethanol
Concen: 131.481 ppbv
RT: 1.725 min Scan# 504
Delta R.T. 0.006 min
Lab File: VL042324.D
Acq: 11 Apr 2025 17:10

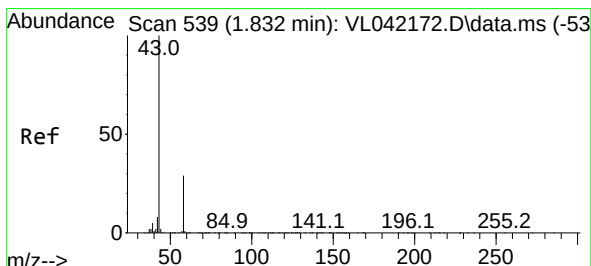
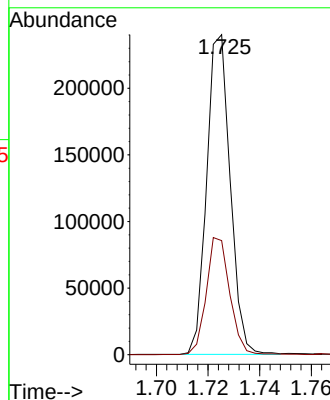
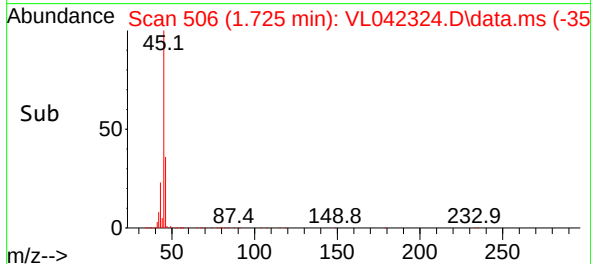
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-1-3242025DL



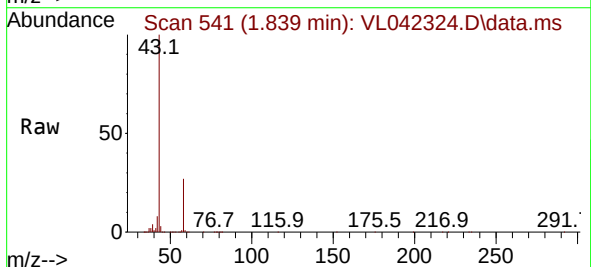
Tgt Ion: 45 Resp: 151758
Ion Ratio Lower Upper
45 100
46 37.0 20.2 80.8

Manual Integrations
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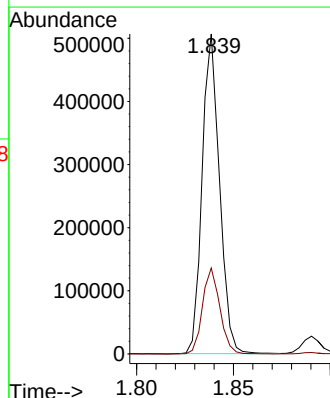
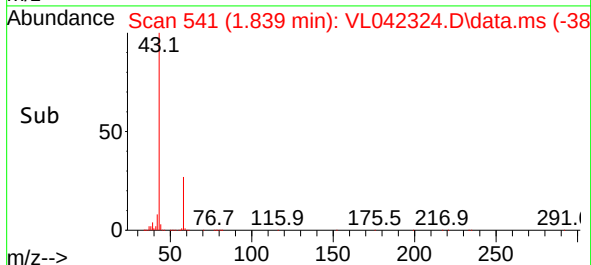
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

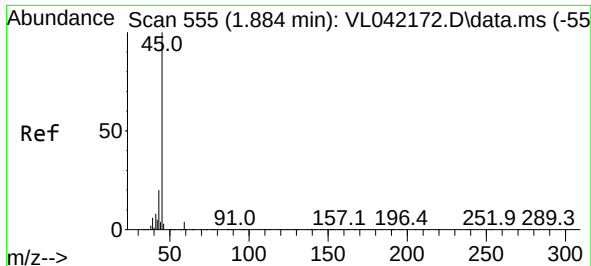


#15
Acetone
Concen: 12.798 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.006 min
Lab File: VL042324.D
Acq: 11 Apr 2025 17:10



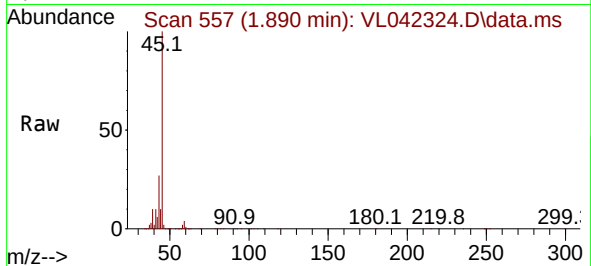
Tgt Ion: 43 Resp: 316091
Ion Ratio Lower Upper
43 100
58 26.9 23.2 34.8





#19
Isopropyl Alcohol
Concen: 4.826 ppbv
RT: 1.890 min Scan# 511
Delta R.T. 0.006 min
Lab File: VL042324.D
Acq: 11 Apr 2025 17:10

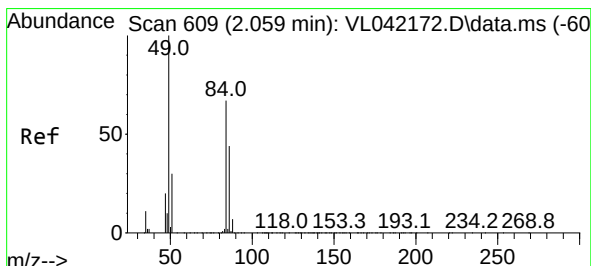
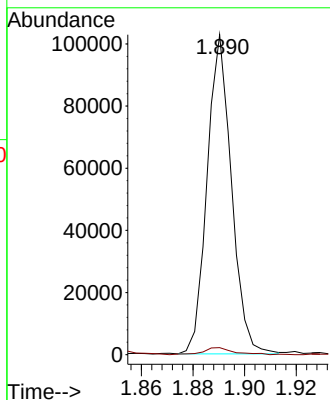
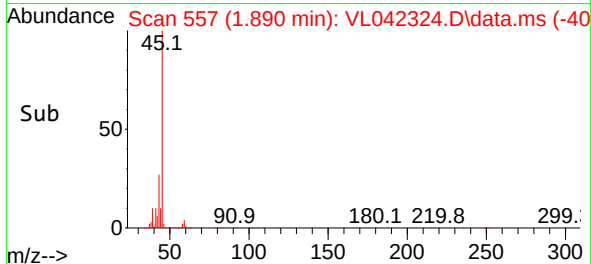
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-1-3242025DL



Tgt Ion: 45 Resp: 6725
Ion Ratio Lower Upper
45 100
58 126.4 36.9 55.3

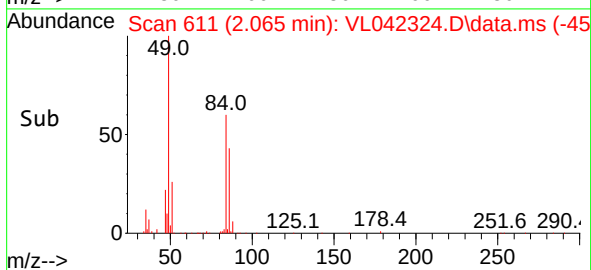
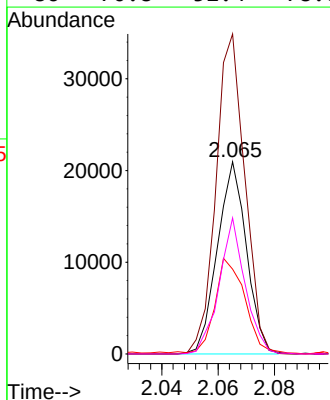
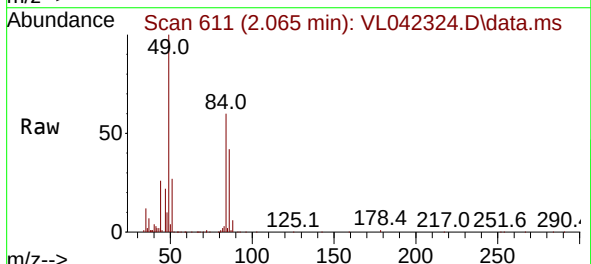
Manual Integrations
APPROVED

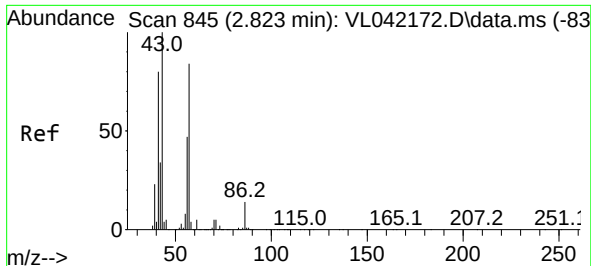
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#20
Methylene Chloride
Concen: 1.635 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.006 min
Lab File: VL042324.D
Acq: 11 Apr 2025 17:10

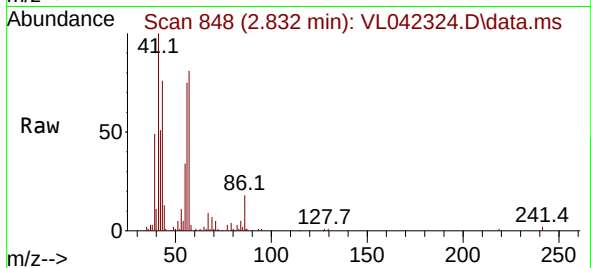
Tgt Ion: 84 Resp: 15039
Ion Ratio Lower Upper
84 100
49 166.5 120.2 180.4
51 42.7 37.4 56.0
86 70.8 52.4 78.6





#26
Hexane
Concen: 0.439 ppbv
RT: 2.832 min Scan# 845
Delta R.T. 0.009 min
Lab File: VL042324.D
Acq: 11 Apr 2025 17:10

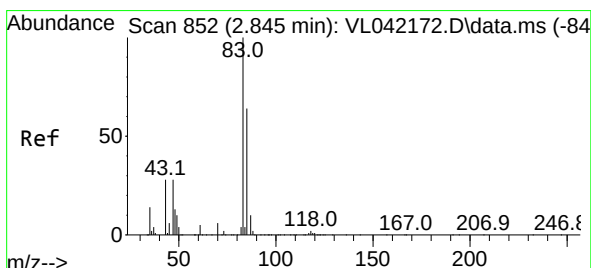
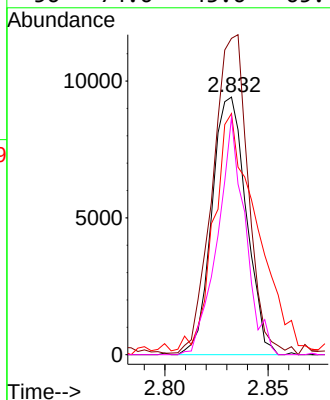
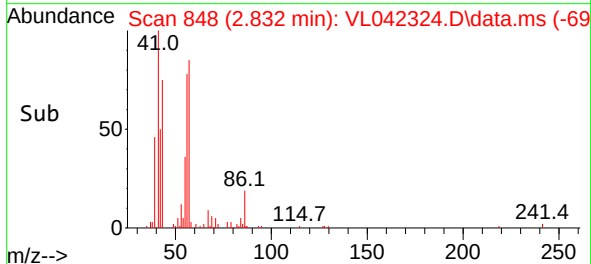
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-1-3242025DL



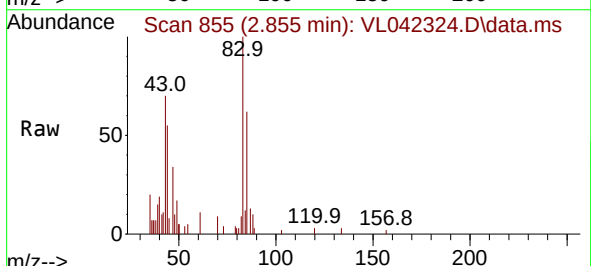
Tgt Ion: 57 Resp: 1087
Ion Ratio Lower Upper
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41 127.0 76.6 114.8
43 125.5 207.8 311.8
56 74.6 43.6 65.4

Manual Integrations
APPROVED

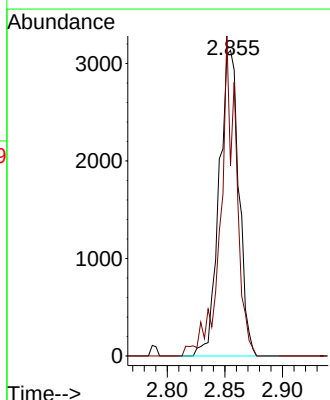
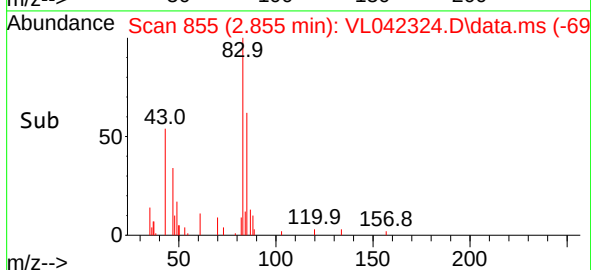
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

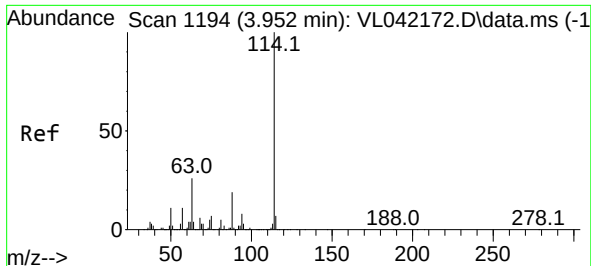


#29
Chloroform
Concen: 0.104 ppbv m
RT: 2.855 min Scan# 855
Delta R.T. 0.009 min
Lab File: VL042324.D
Acq: 11 Apr 2025 17:10



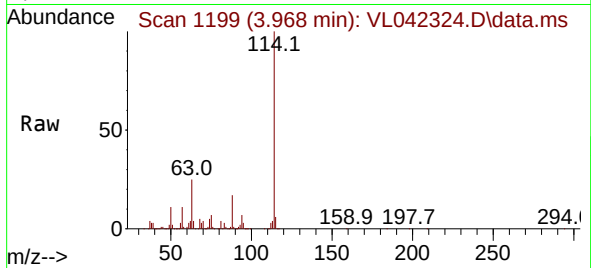
Tgt Ion: 83 Resp: 3754
Ion Ratio Lower Upper
83 100
85 62.2 51.4 77.2





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.968 min Scan# 1199
Delta R.T. 0.016 min
Lab File: VL042324.D
Acq: 11 Apr 2025 17:10

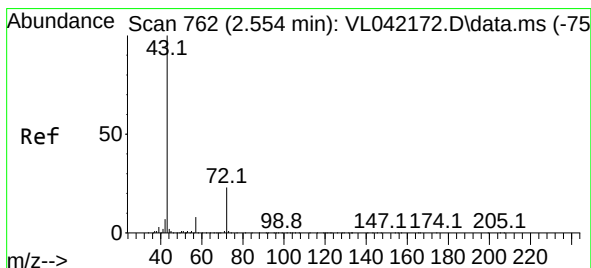
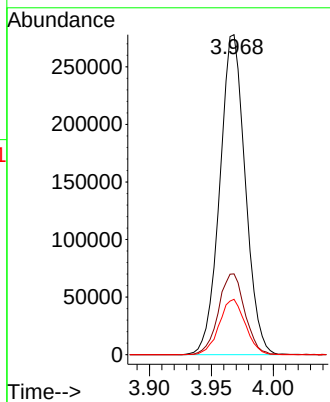
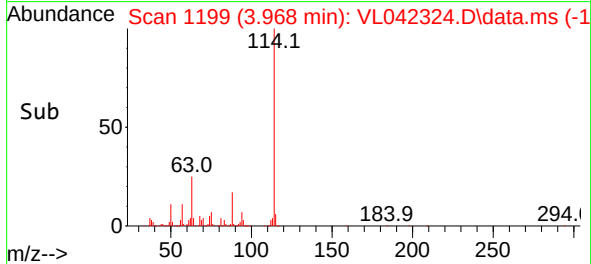
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-1-3242025DL



Tgt Ion:114 Resp: 39813
Ion Ratio Lower Upper
114 100
63 26.2 20.7 31.1
88 17.7 15.0 22.4

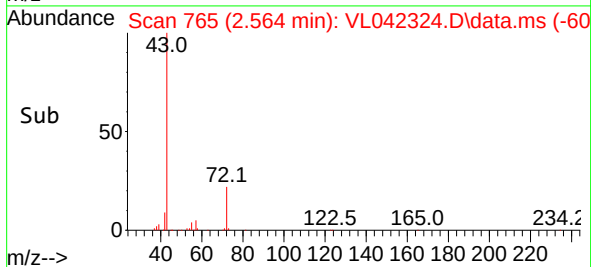
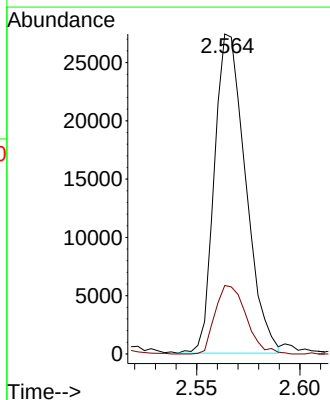
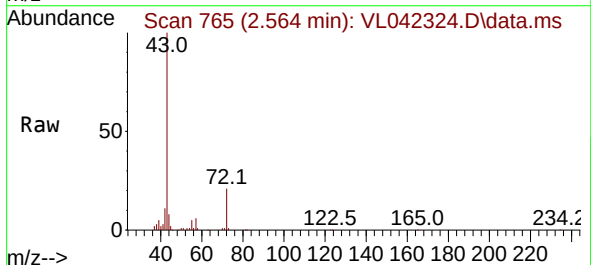
Manual Integrations
APPROVED

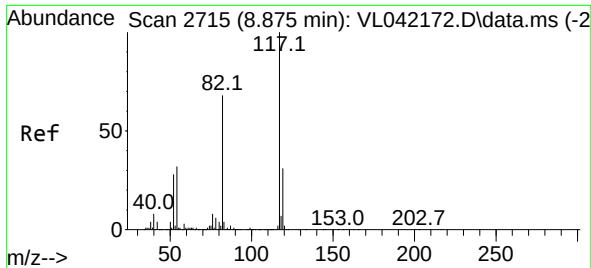
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#34
2-Butanone
Concen: 0.997 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.009 min
Lab File: VL042324.D
Acq: 11 Apr 2025 17:10

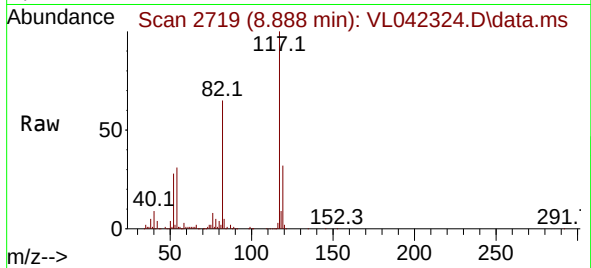
Tgt Ion: 43 Resp: 28789
Ion Ratio Lower Upper
43 100
72 21.4 18.2 27.2





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2719
Delta R.T. 0.013 min
Lab File: VL042324.D
Acq: 11 Apr 2025 17:10

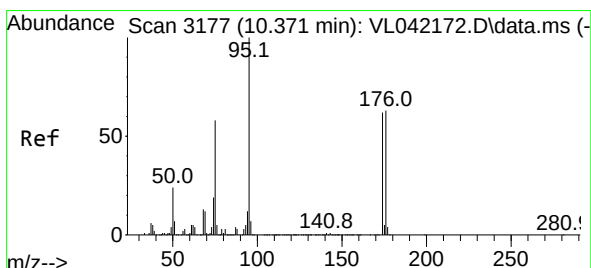
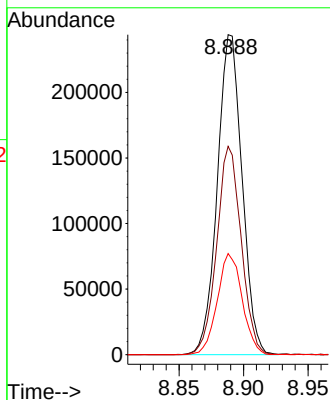
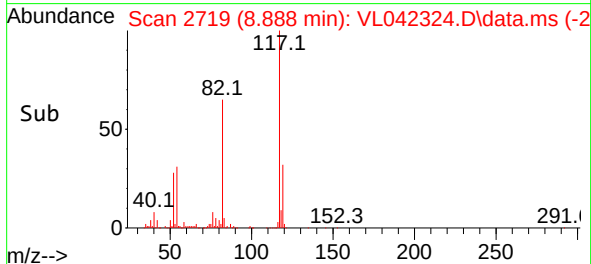
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-1-3242025DL



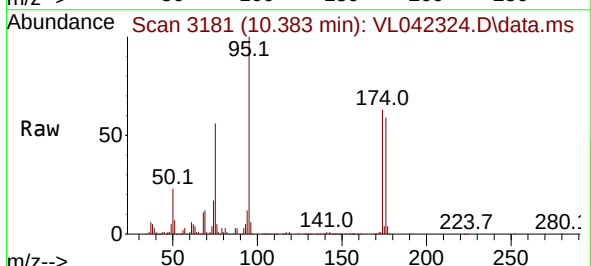
Tgt Ion: 117 Resp: 32577
Ion Ratio Lower Upper
117 100
82 64.5 55.8 83.6
119 31.8 25.5 38.3

Manual Integrations
APPROVED

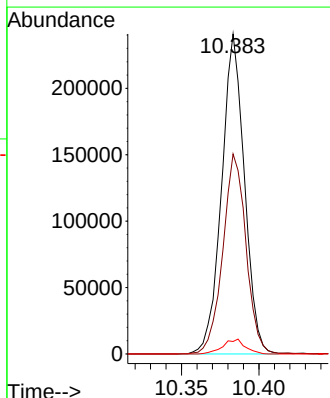
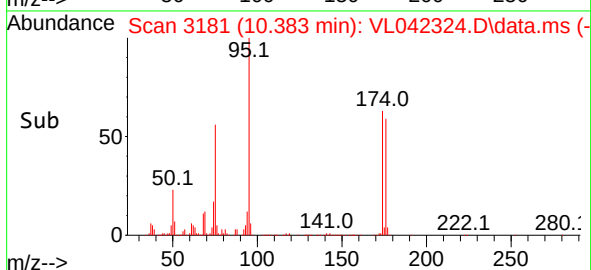
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 9.217 ppbv
RT: 10.383 min Scan# 3181
Delta R.T. 0.013 min
Lab File: VL042324.D
Acq: 11 Apr 2025 17:10



Tgt Ion: 95 Resp: 246592
Ion Ratio Lower Upper
95 100
174 63.8 50.6 76.0
175 4.5 3.8 5.6



Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/25/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	03/26/25
Client Sample ID:	IA-B14-1-3242025	SDG No.:	Q1665
Lab Sample ID:	Q1665-15	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
VL042359.D	1		04/17/25 16:12	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.43	2.13	J	1.04	2.47	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	0.21	1.18	J	0.90	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.16	1.23	U	1.23	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.090	0.63	U	0.63	3.49	ug/m3
75-65-0	tert-Butyl alcohol	0.19	0.58	U	0.58	1.52	ug/m3
142-82-5	Heptane	0.15	0.61	J	0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
67-64-1	Acetone	38.4	91.2	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	1.20	4.17		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	0.74	2.18		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	0.21	1.03	J	0.39	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.040	0.22		0.050	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.18	0.84	J	0.47	2.34	ug/m3
71-43-2	Benzene	0.24	0.77	J	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	0.14	0.57	J	0.37	2.05	ug/m3
108-88-3	Toluene	0.88	3.32		0.41	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.070	0.38	U	0.38	2.73	ug/m3

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/25/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	03/26/25
Client Sample ID:	IA-B14-1-3242025	SDG No.:	Q1665
Lab Sample ID:	Q1665-15	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
VL042359.D	1		04/17/25 16:12	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.070	0.60	U	0.60	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.070	0.54	U	0.54	0.77	ug/m3
127-18-4	Tetrachloroethene	0.020	0.14	U	0.14	0.20	ug/m3
108-90-7	Chlorobenzene	0.080	0.37	U	0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	5.00	21.7		0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	21.3	92.5		0.91	4.34	ug/m3
95-47-6	o-Xylene	4.10	17.8		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	J	0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.27	1.33	J	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	0.14	0.73		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	2.70	9.52		0.39	1.76	ug/m3
107-05-1	Allyl Chloride	0.15	0.47	U	0.47	1.57	ug/m3
123-91-1	1,4-Dioxane	1.00	3.60		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
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INTERNAL STANDARDS

74-97-5	Bromochloromethane	123000	2.787
540-36-3	1,4-Difluorobenzene	354000	3.962
3114-55-4	Chlorobenzene-d5	318000	8.882

TENTATIVE IDENTIFIED COMPOUNDS

75-45-6	Chlorodifluoromethane	0.31	J	1.48	ppbv
115-07-1	Propene	1.60	J	1.49	ppbv
000106-97-8	Butane	1.20	J	1.62	ppbv

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/25/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	03/26/25
Client Sample ID:	IA-B14-1-3242025	SDG No.:	Q1665
Lab Sample ID:	Q1665-15	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
VL042359.D	1		04/17/25 16:12	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
64-17-5	Ethanol	17.3		J		1.72	ppbv
67-63-0	Isopropyl Alcohol	130		J		1.89	ppbv
000107-39-1	1-Pentene, 2,4,4-trimethyl-	1.60		J		5.32	ppbv
591-78-6	2-Hexanone	1.50		J		7.44	ppbv
000106-70-7	Hexanoic acid, methyl ester	4.30		J		10.5	ppbv
000106-73-0	Heptanoic acid, methyl ester	10.6		J		11.8	ppbv
000111-11-5	Octanoic acid, methyl ester	6.40		J		12.9	ppbv
91-57-6	Naphthalene,2-methyl-	0.15		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 : VL042359.D
 Acq On : 17 Apr 2025 16:12
 Operator : SY/MD
 Sample : Q1665-15
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B14-1-3242025

Manual Integrations APPROVED

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

Quant Time: Apr 18 02:37:51 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	123457	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	354157	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	318284	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	265265	10.142	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.400%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	9411	0.431	ppbv	90
3) Chlorodifluoromethane	1.476	51	6345m	0.305	ppbv	
4) Chloromethane	1.531	50	5667	0.657	ppbv	96
9) Propene	1.489	41	15185	1.605	ppbv	84
10) Heptane	4.975	43	3917m	0.147	ppbv	
11) Trichlorofluoromethane	1.877	101	4367	0.211	ppbv	92
13) Ethanol	1.722	45	25940	17.253	ppbv	75
15) Acetone	1.835	43	775779	38.385	ppbv	99
17) tert-Butyl alcohol	2.046	59	3528	0.141	ppbv #	74
19) Isopropyl Alcohol	1.887	45	1485068	132.276	ppbv #	56
20) Methylene Chloride	2.062	84	9718	1.228	ppbv #	92
26) Hexane	2.826	57	54108	2.683	ppbv #	32
29) Chloroform	2.852	83	5846	0.205	ppbv	85
32) 1,1,1-Trichloroethane	3.370	97	1146m	0.036	ppbv	
34) 2-Butanone	2.560	43	20685	0.739	ppbv	98
35) Carbon Tetrachloride	3.761	117	2635m	0.082	ppbv	
36) Benzene	3.658	78	9024m	0.236	ppbv	
40) 1,4-Dioxane	4.596	88	7820m	1.000	ppbv	
44) 2,2,4-Trimethylpentane	4.642	57	12166m	0.184	ppbv	
50) 4-Methyl-2-Pentanone	5.774	43	6399m	0.137	ppbv	
51) 2-Hexanone	7.438	43	61191m	1.466	ppbv	
53) Toluene	6.936	91	40500	0.884	ppbv	97
58) Ethyl Benzene	9.354	91	315931	5.010	ppbv	99
59) m/p-Xylene	9.532	91	1082733	21.313	ppbv	100
60) o-Xylene	9.963	91	207265	4.051	ppbv	98
73) 1,3,5-Trimethylbenzene	11.202	105	6133	0.111	ppbv	90
74) 1,2,4-Trimethylbenzene	11.536	105	17646	0.274	ppbv #	70
79) Naphthalene	13.513	128	10816	0.140	ppbv	97
80) Naphthalene,2-methyl-	14.462	142	6445m	0.147	ppbv	

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

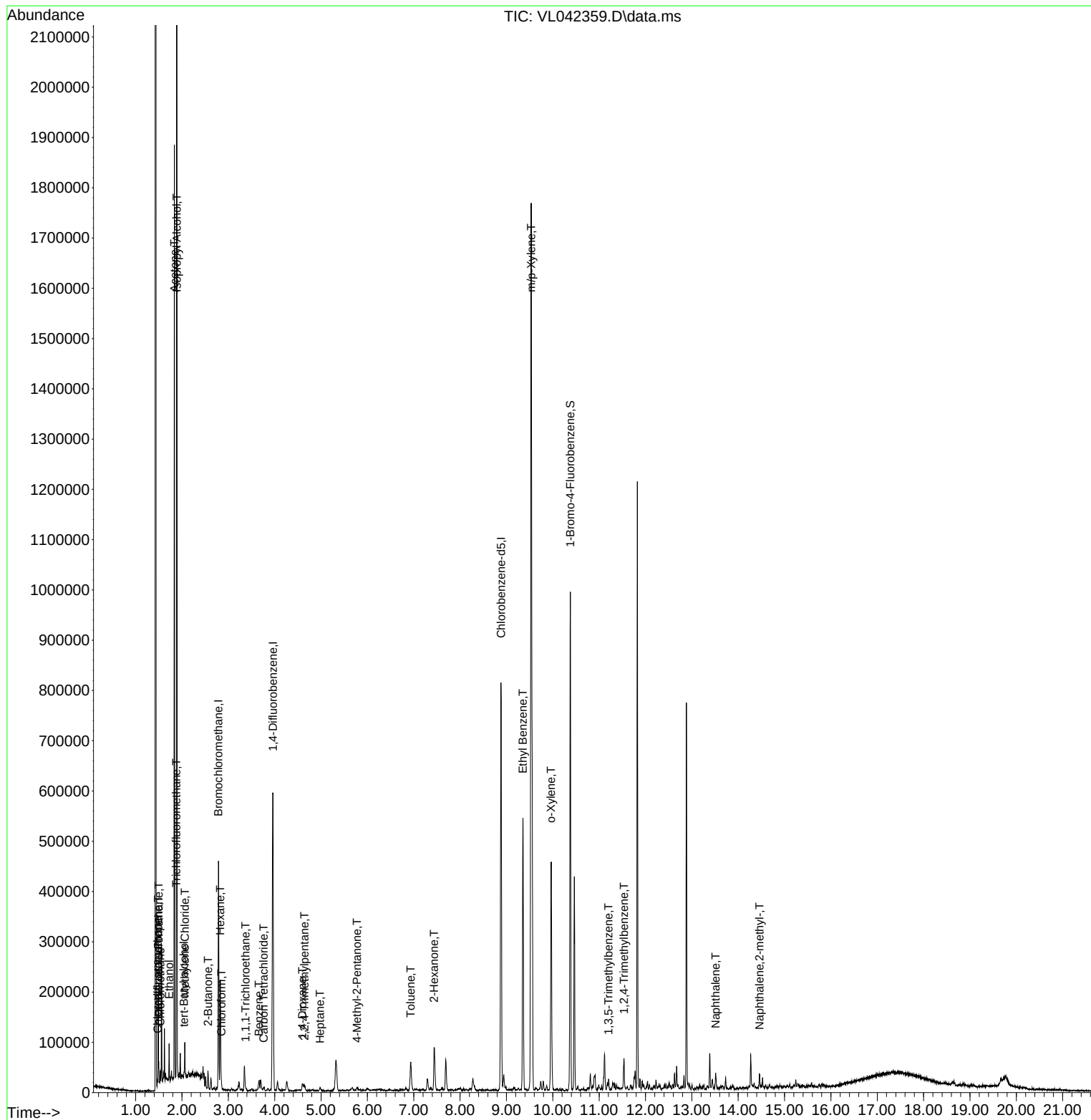
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042359.D
Acq On : 17 Apr 2025 16:12
Operator : SY/MD
Sample : Q1665-15
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

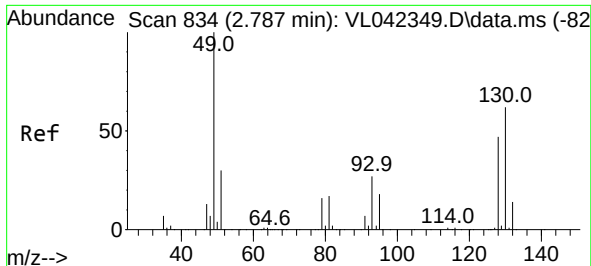
Instrument :
MSVOA_L
ClientSampleId :
IA-B14-1-3242025

Quant Time: Apr 18 02:37:51 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

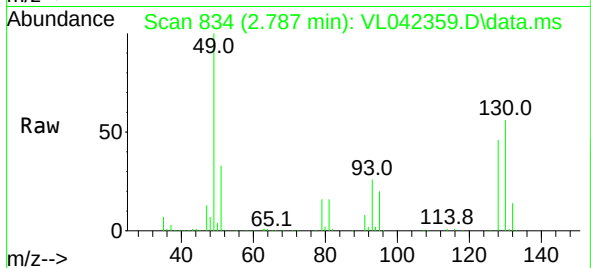
Reviewed By : Semsettin Yesilyurt 04/18/2025
Supervised By : Mahesh Dadoda 04/18/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. -0.000 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

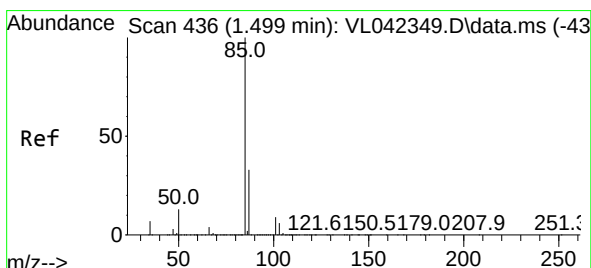
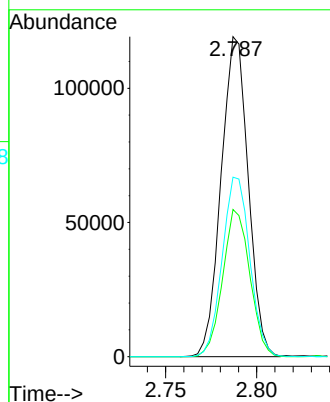
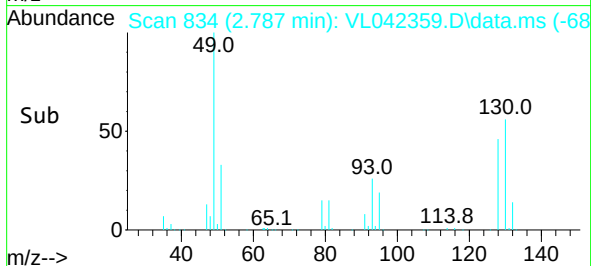
Instrument :
MSVOA_L
ClientSampleId :
IA-B14-1-3242025



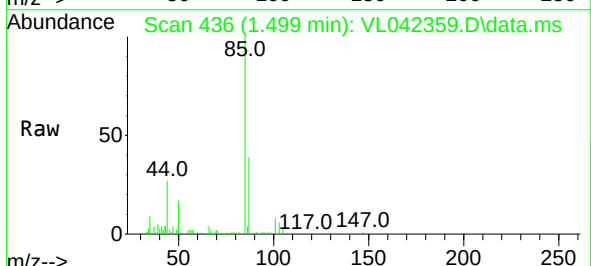
Tgt Ion: 49 Resp: 12345
Ion Ratio Lower Upper
49 100
128 46.0 22.8 68.4
130 57.2 29.3 88.0

Manual Integrations
APPROVED

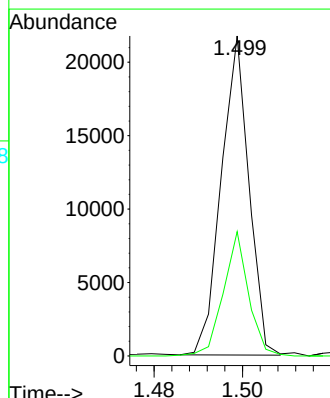
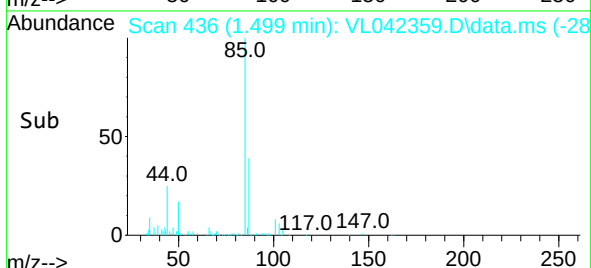
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

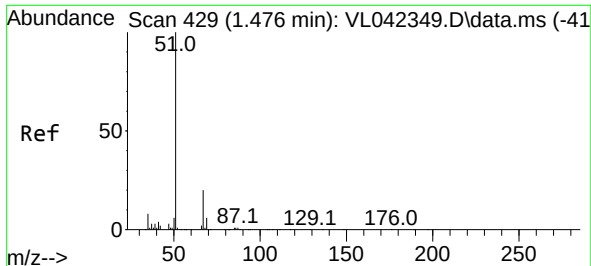


#2
Dichlorodifluoromethane
Concen: 0.431 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12



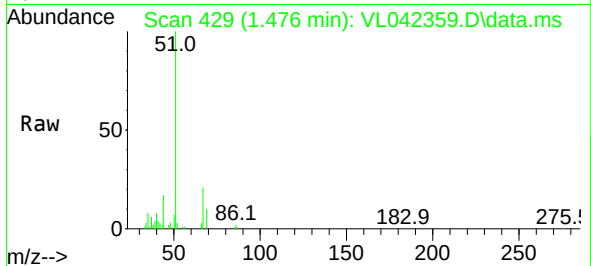
Tgt Ion: 85 Resp: 9411
Ion Ratio Lower Upper
85 100
87 38.7 26.6 39.8





#3
Chlorodifluoromethane
Concen: 0.305 ppbv m
RT: 1.476 min Scan# 429
Delta R.T. 0.000 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

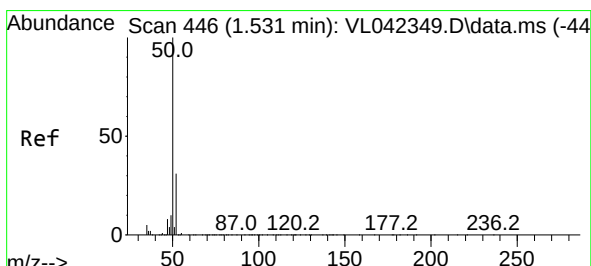
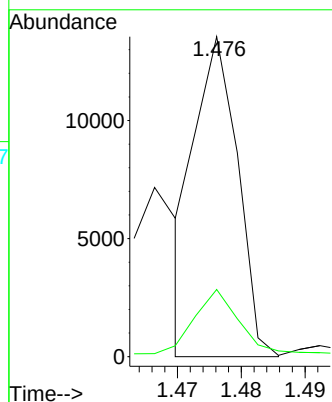
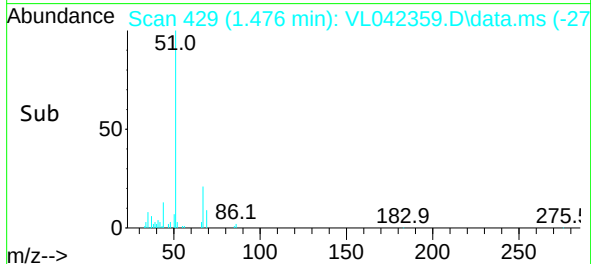
Instrument :
MSVOA_L
ClientSampleId :
IA-B14-1-3242025



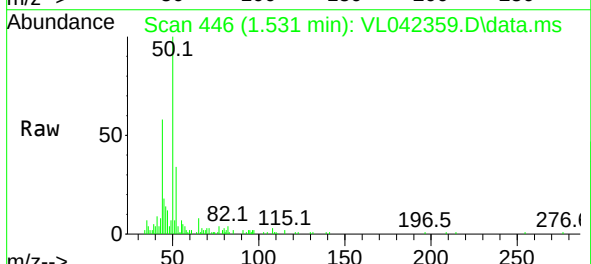
Tgt Ion: 51 Resp: 6349
Ion Ratio Lower Upper
51 100
67 8.2 16.2 24.4

Manual Integrations
APPROVED

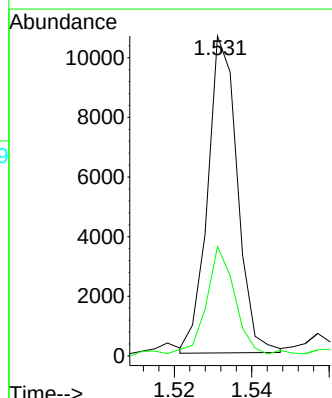
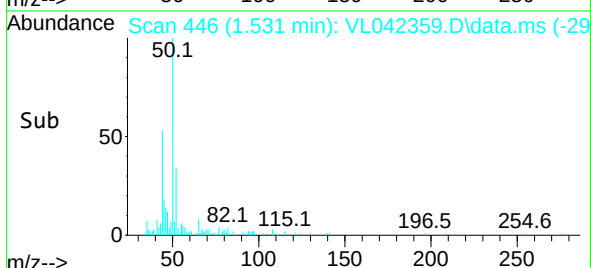
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

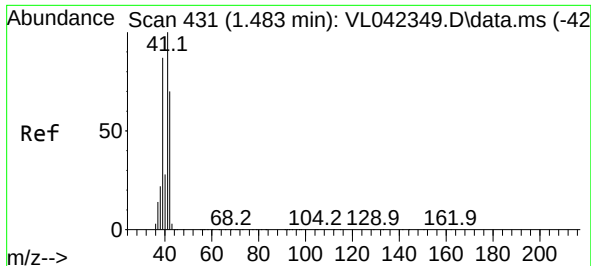


#4
Chloromethane
Concen: 0.657 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12



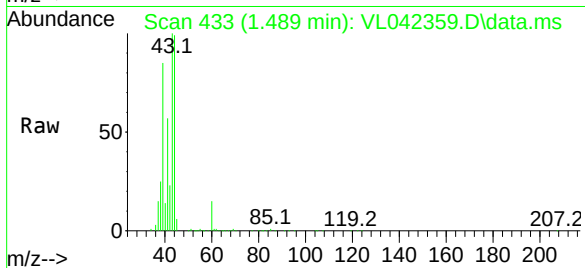
Tgt Ion: 50 Resp: 5667
Ion Ratio Lower Upper
50 100
52 33.3 24.7 37.1





#9
Propene
Concen: 1.605 ppbv
RT: 1.489 min Scan# 41
Delta R.T. 0.006 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

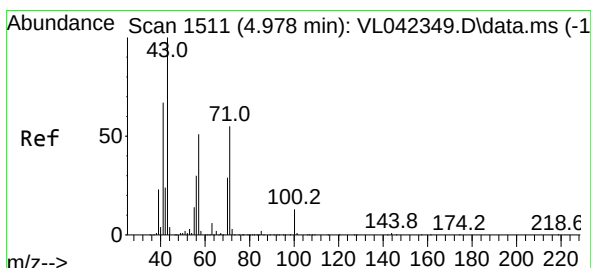
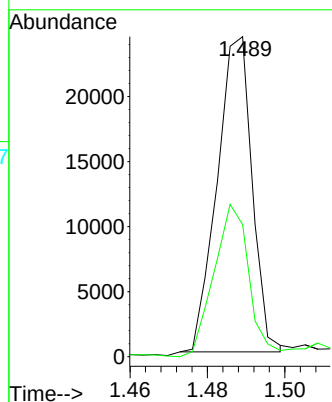
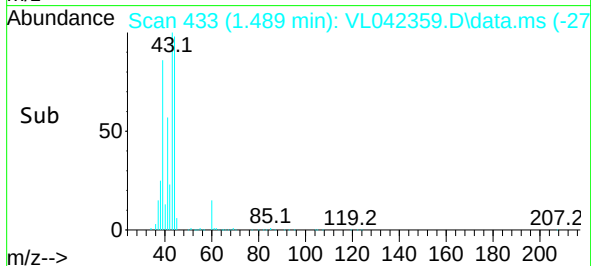
Instrument :
MSVOA_L
ClientSampleId :
IA-B14-1-3242025



Tgt Ion: 41 Resp: 1518
Ion Ratio Lower Upper
41 100
42 57.1 56.2 84.4

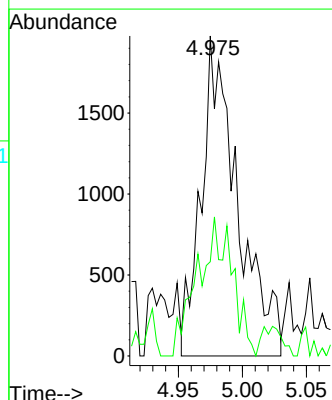
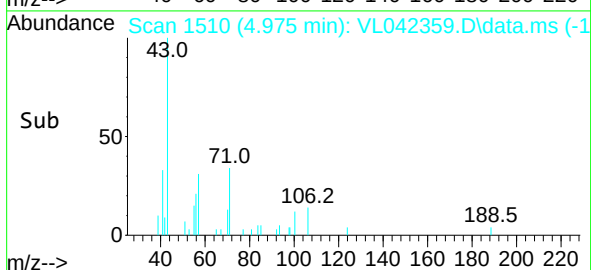
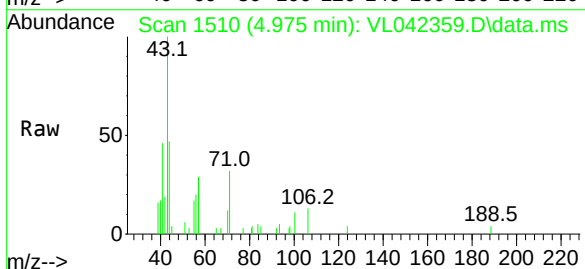
Manual Integrations
APPROVED

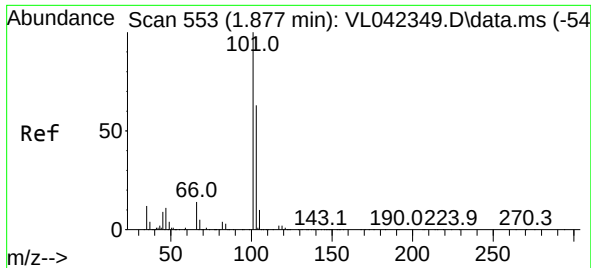
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#10
Heptane
Concen: 0.147 ppbv m
RT: 4.975 min Scan# 1510
Delta R.T. -0.003 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

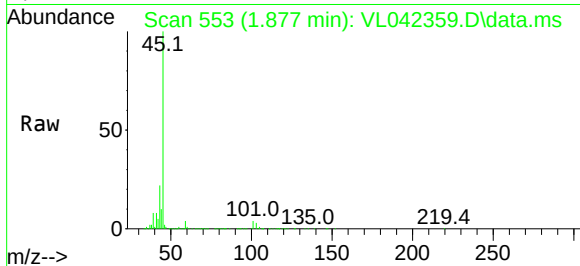
Tgt Ion: 43 Resp: 3917
Ion Ratio Lower Upper
43 100
57 45.4 39.9 59.9





#11
 Trichlorofluoromethane
 Concen: 0.211 ppbv
 RT: 1.877 min Scan# 505
 Delta R.T. 0.000 min
 Lab File: VL042359.D
 Acq: 17 Apr 2025 16:12

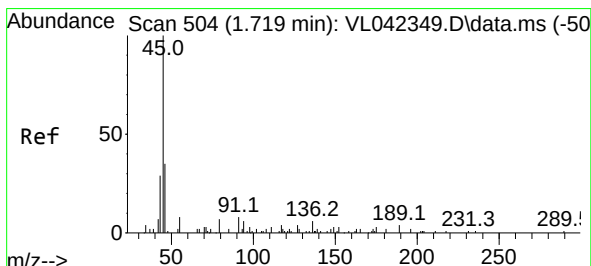
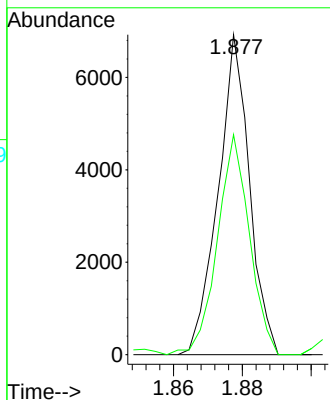
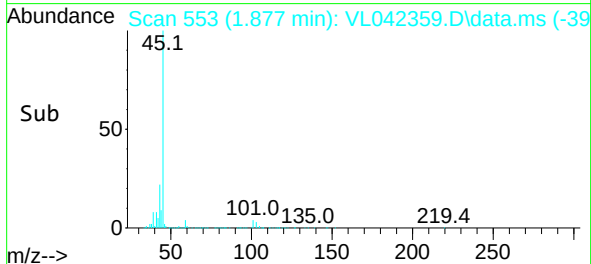
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B14-1-3242025



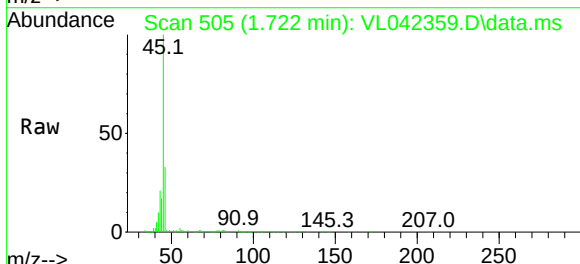
Tgt Ion:101 Resp: 436
 Ion Ratio Lower Upper
 101 100
 103 68.8 50.1 75.1

Manual Integrations
 APPROVED

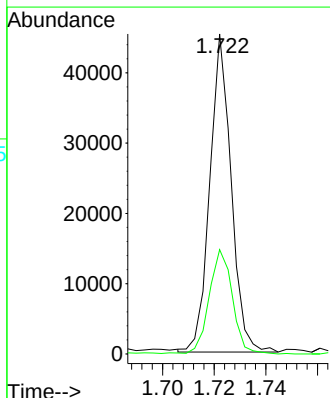
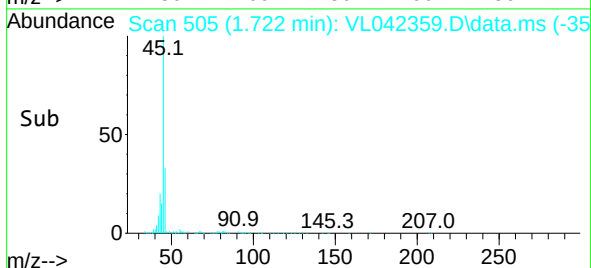
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

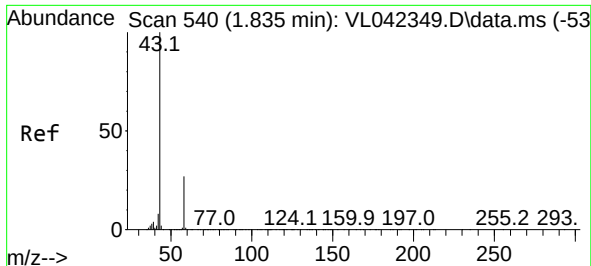


#13
 Ethanol
 Concen: 17.253 ppbv
 RT: 1.722 min Scan# 505
 Delta R.T. 0.003 min
 Lab File: VL042359.D
 Acq: 17 Apr 2025 16:12



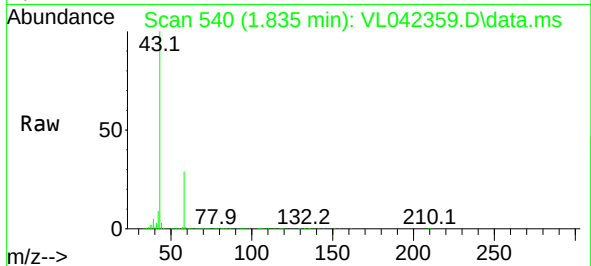
Tgt Ion: 45 Resp: 25940
 Ion Ratio Lower Upper
 45 100
 46 36.5 21.9 87.7





#15
Acetone
Concen: 38.385 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

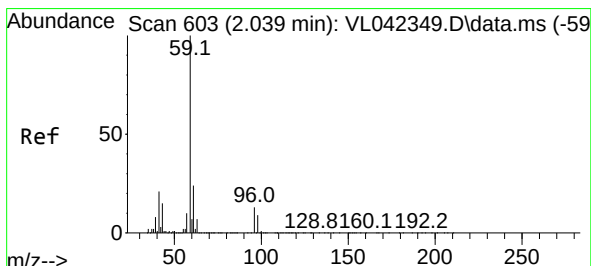
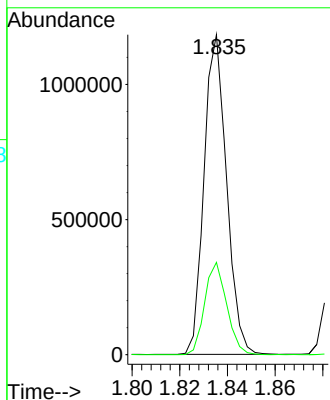
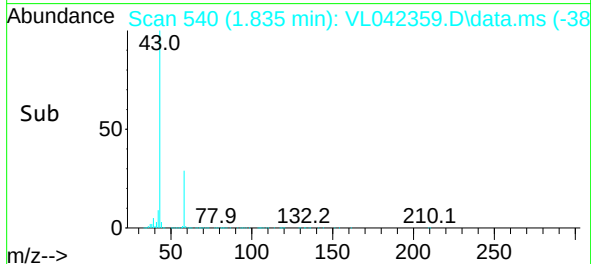
Instrument :
MSVOA_L
ClientSampleId :
IA-B14-1-3242025



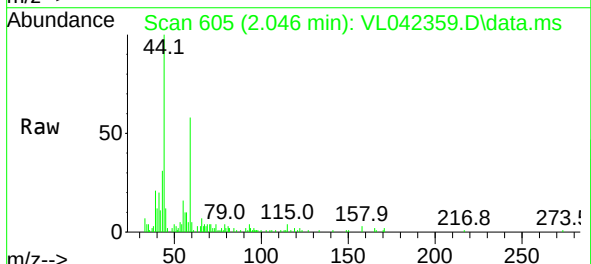
Tgt Ion: 43 Resp: 775779
Ion Ratio Lower Upper
43 100
58 28.3 22.4 33.6

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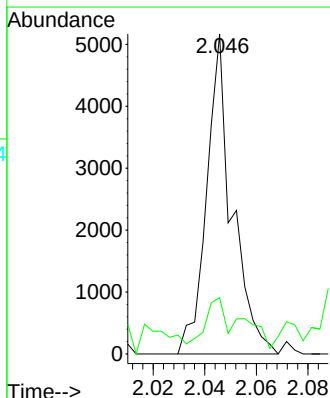
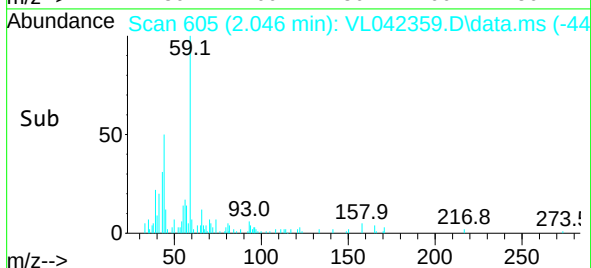
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

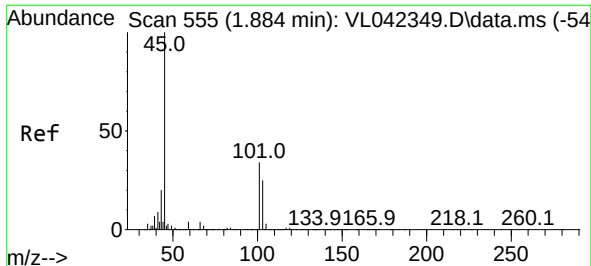


#17
tert-Butyl alcohol
Concen: 0.141 ppbv
RT: 2.046 min Scan# 605
Delta R.T. 0.006 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12



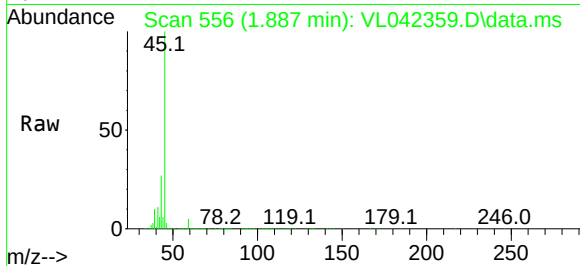
Tgt Ion: 59 Resp: 3528
Ion Ratio Lower Upper
59 100
57 20.6 8.7 13.1#





#19
Isopropyl Alcohol
Concen: 132.276 ppbv
RT: 1.887 min Scan# 555
Delta R.T. 0.003 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

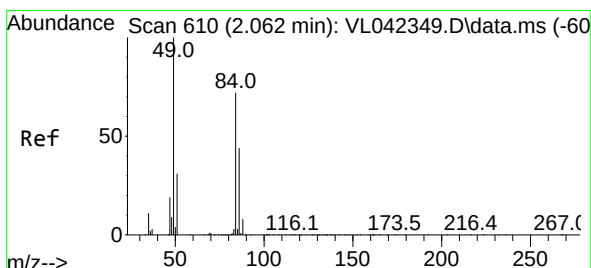
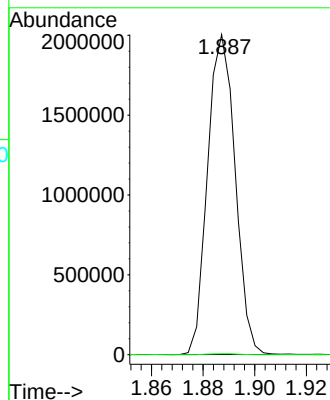
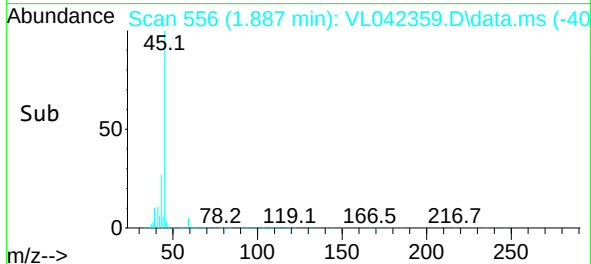
Instrument :
MSVOA_L
ClientSampleId :
IA-B14-1-3242025



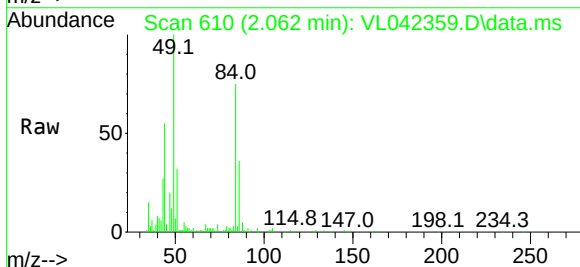
Tgt Ion: 45 Resp: 1485068
Ion Ratio Lower Upper
45 100
58 14.8 34.5 51.7

Manual Integrations
APPROVED

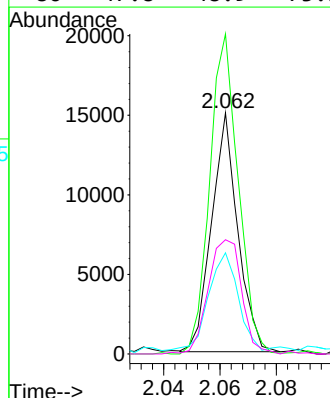
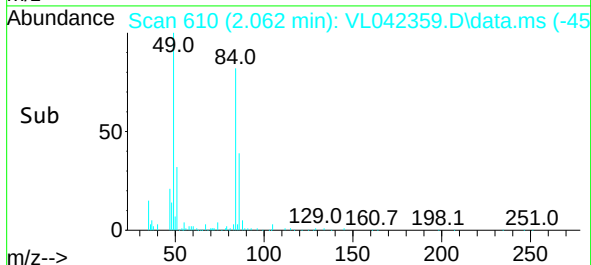
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

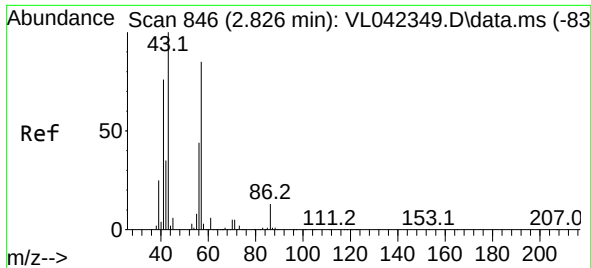


#20
Methylene Chloride
Concen: 1.228 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12



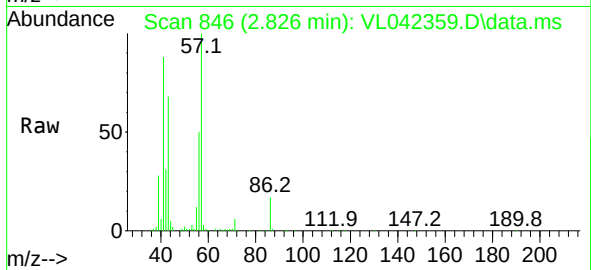
Tgt Ion: 84 Resp: 9718
Ion Ratio Lower Upper
84 100
49 134.0 111.6 167.4
51 39.7 35.1 52.7
86 47.8 48.9 73.3





#26
Hexane
Concen: 2.683 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

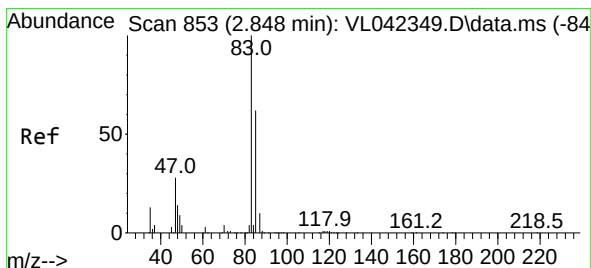
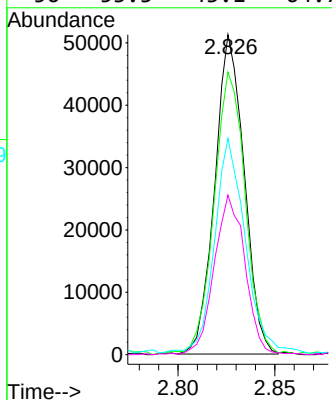
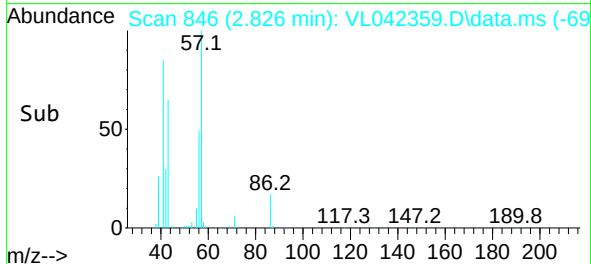
Instrument :
MSVOA_L
ClientSampleId :
IA-B14-1-3242025



Tgt Ion: 57 Resp: 54108
Ion Ratio Lower Upper
57 100
41 93.4 77.9 116.9
43 70.0 208.4 312.6
56 53.3 43.1 64.7

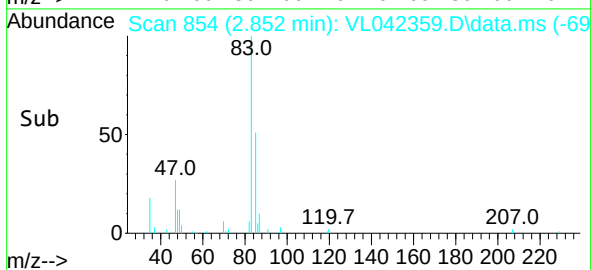
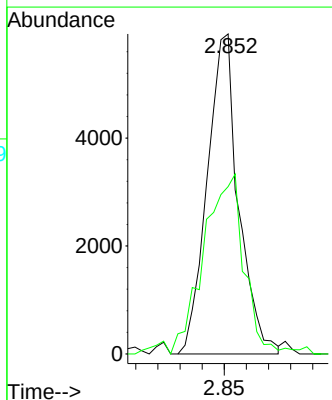
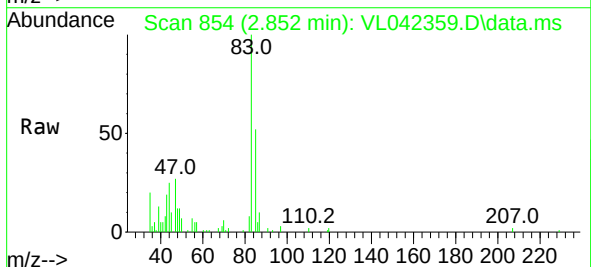
Manual Integrations
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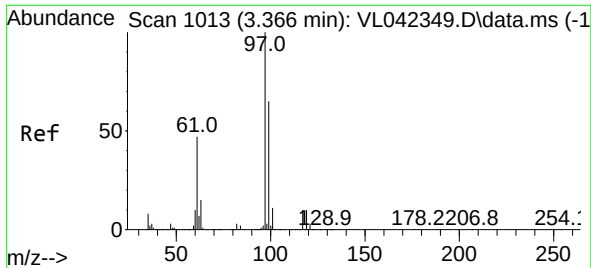
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#29
Chloroform
Concen: 0.205 ppbv
RT: 2.852 min Scan# 854
Delta R.T. 0.003 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

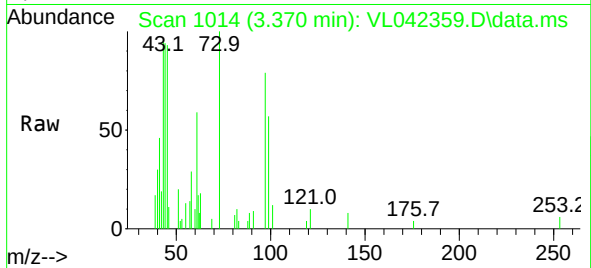
Tgt Ion: 83 Resp: 5846
Ion Ratio Lower Upper
83 100
85 51.1 50.0 75.0





#32
1,1,1-Trichloroethane
Concen: 0.036 ppbv m
RT: 3.370 min Scan# 1013
Delta R.T. 0.003 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

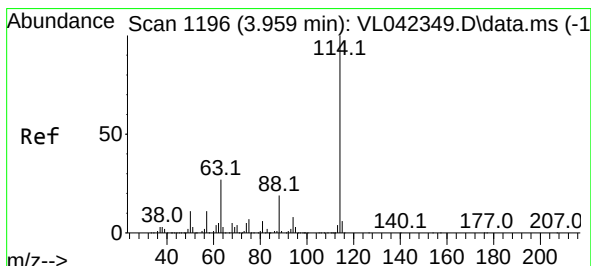
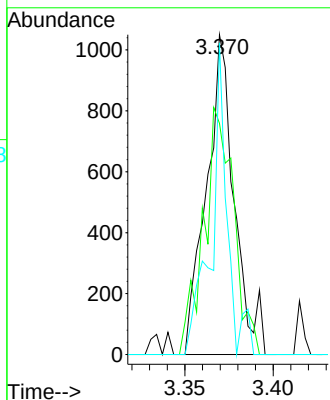
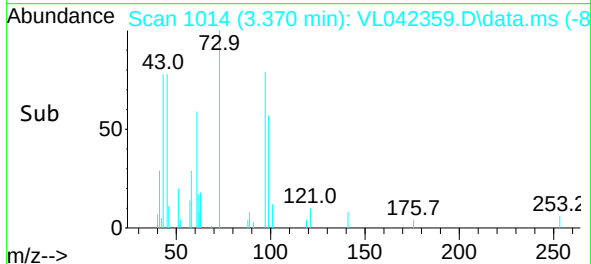
Instrument :
MSVOA_L
ClientSampleId :
IA-B14-1-3242025



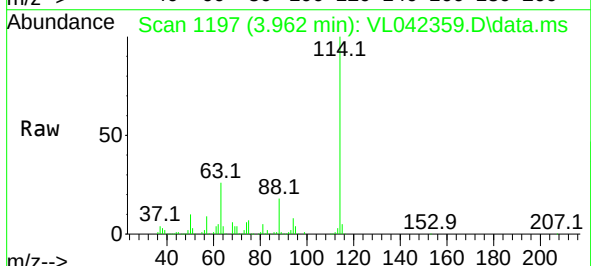
Tgt Ion: 97 Resp: 1140
Ion Ratio Lower Upper
97 100
99 83.5 51.0 76.4
61 56.3 38.8 58.2

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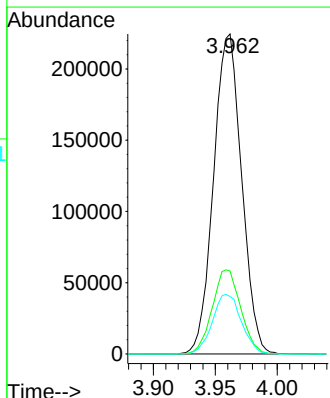
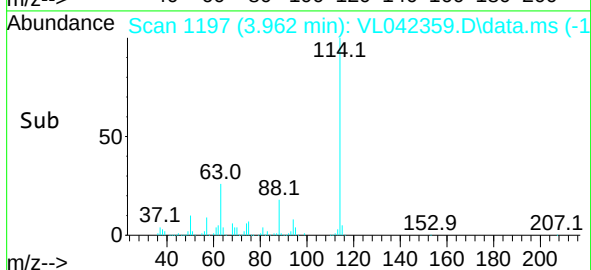
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

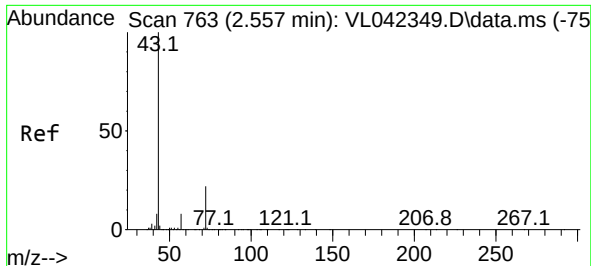


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. 0.003 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12



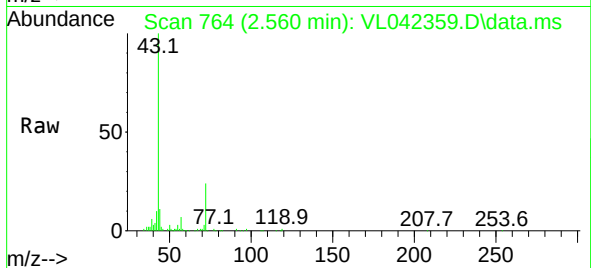
Tgt Ion:114 Resp: 354157
Ion Ratio Lower Upper
114 100
63 26.6 21.8 32.6
88 19.2 15.5 23.3





#34
2-Butanone
Concen: 0.739 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.003 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

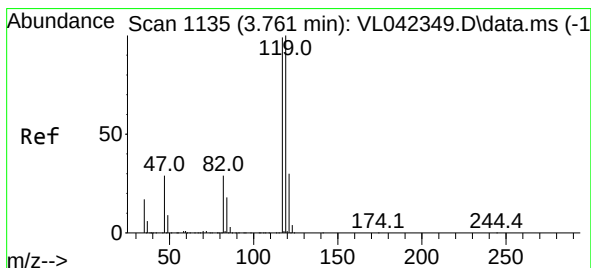
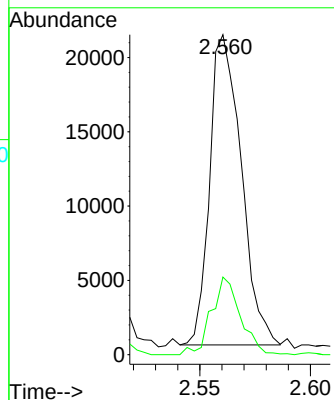
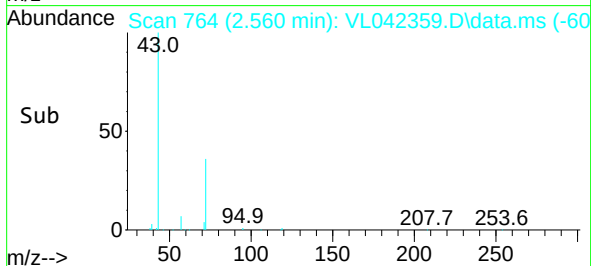
Instrument :
MSVOA_L
ClientSampleId :
IA-B14-1-3242025



Tgt Ion: 43 Resp: 2068
Ion Ratio Lower Upper
43 100
72 23.5 18.2 27.2

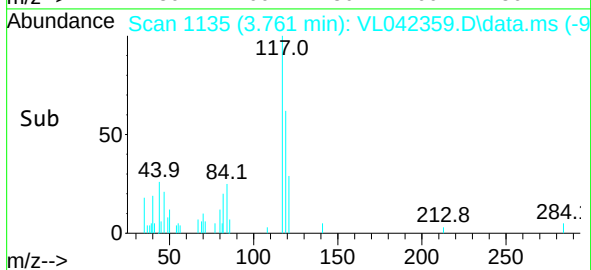
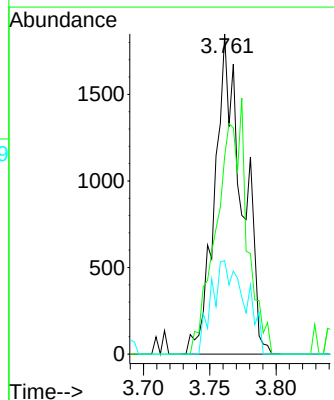
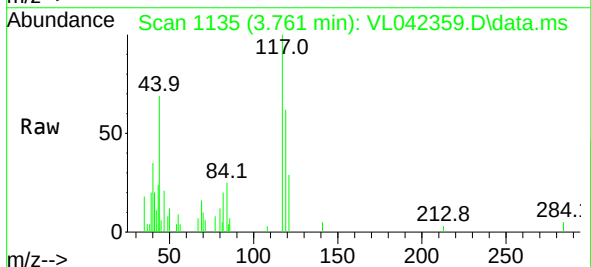
Manual Integrations
APPROVED

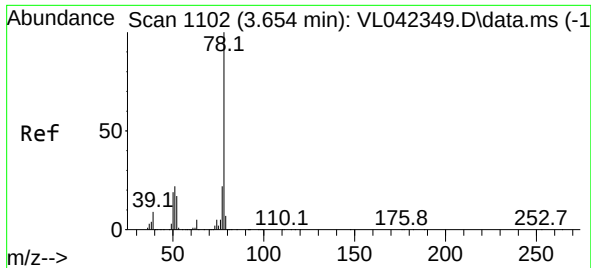
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#35
Carbon Tetrachloride
Concen: 0.082 ppbv m
RT: 3.761 min Scan# 1135
Delta R.T. 0.000 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

Tgt Ion:117 Resp: 2635
Ion Ratio Lower Upper
117 100
119 61.8 80.5 120.7#
121 29.2 24.2 36.2





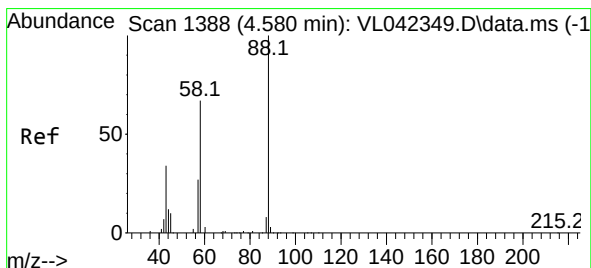
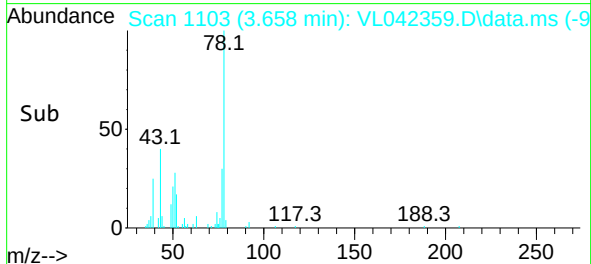
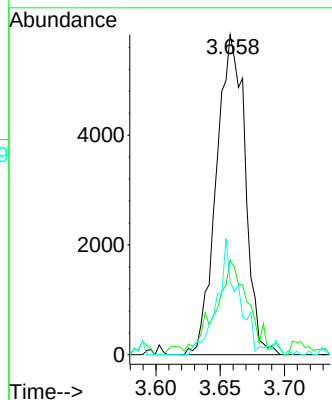
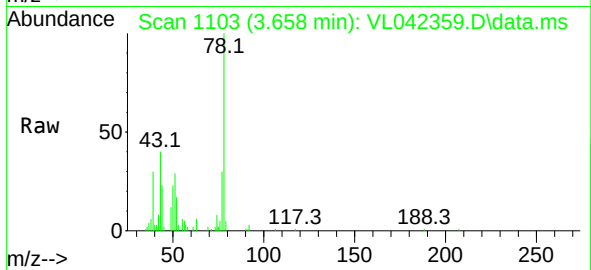
#36
Benzene
Concen: 0.236 ppbv m
RT: 3.658 min Scan# 1103
Delta R.T. 0.003 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

Instrument : MSVOA_L
ClientSampleId : IA-B14-1-3242025

Tgt Ion: 78	Resp: 9024
Ion Ratio	Lower Upper
78 100	
77 29.5	17.4 26.0
50 22.9	15.5 23.3

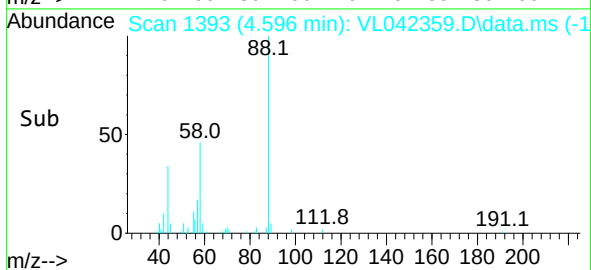
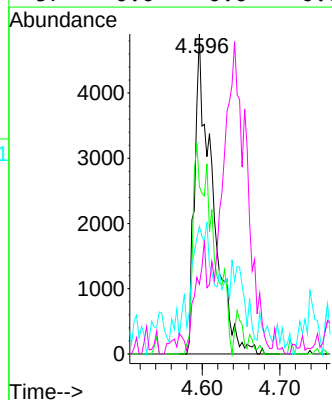
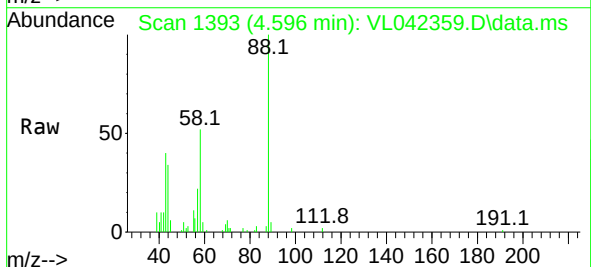
Manual Integrations
APPROVED

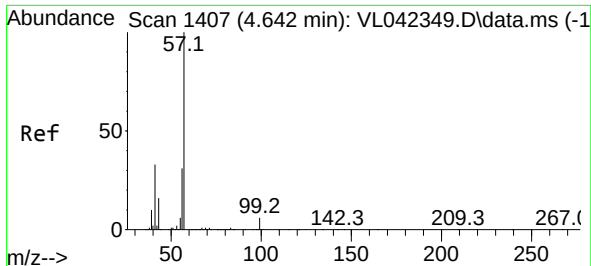
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#40
1,4-Dioxane
Concen: 1.000 ppbv m
RT: 4.596 min Scan# 1393
Delta R.T. 0.016 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

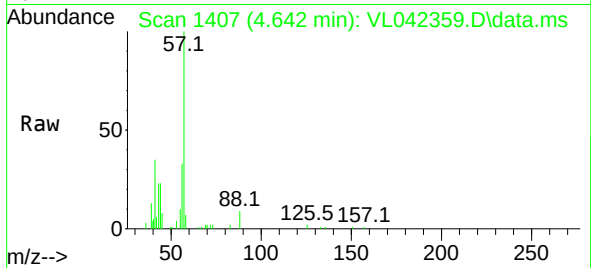
Tgt Ion: 88	Resp: 7820
Ion Ratio	Lower Upper
88 100	
58 80.9	61.4 92.0
43 3.4	23.2 34.8#
57 0.0	0.0 0.0





#44
2,2,4-Trimethylpentane
Concen: 0.184 ppbv m
RT: 4.642 min Scan# 1407
Delta R.T. 0.000 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

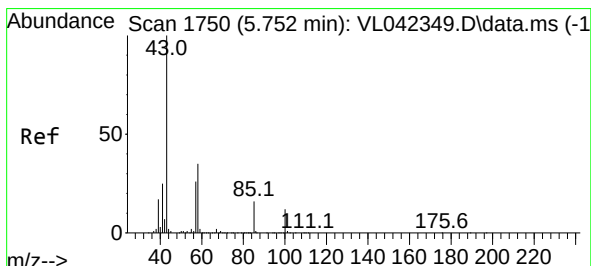
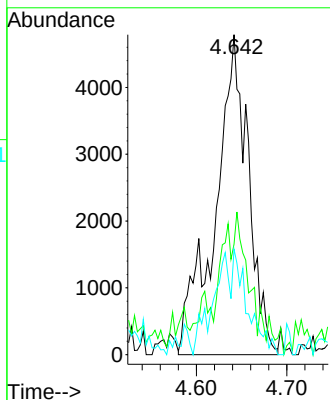
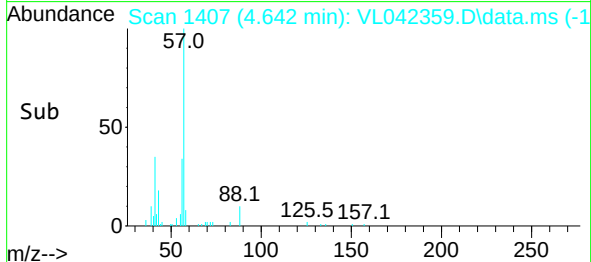
Instrument :
MSVOA_L
ClientSampleId :
IA-B14-1-3242025



Tgt Ion: 57 Resp: 1216
Ion Ratio Lower Upper
57 100
41 39.1 27.2 40.8
56 35.1 25.7 38.5

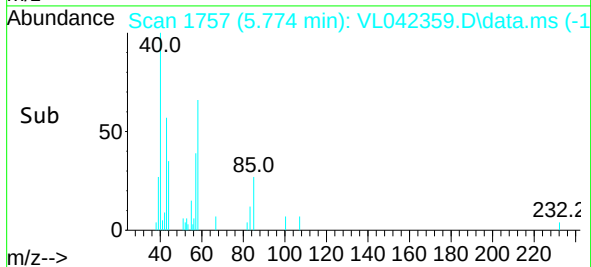
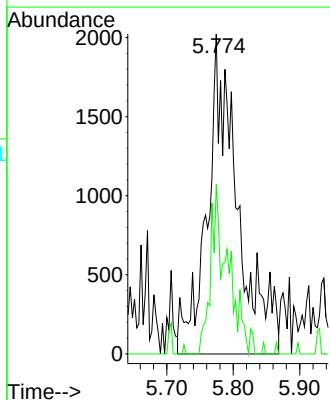
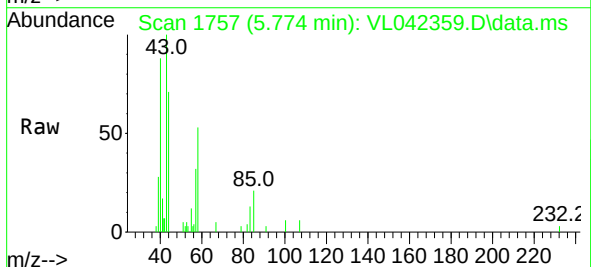
Manual Integrations
APPROVED

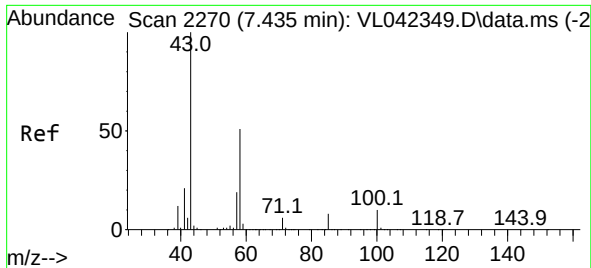
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#50
4-Methyl-2-Pentanone
Concen: 0.137 ppbv m
RT: 5.774 min Scan# 1757
Delta R.T. 0.023 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

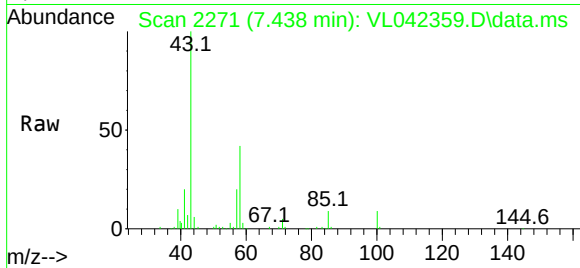
Tgt Ion: 43 Resp: 6399
Ion Ratio Lower Upper
43 100
58 0.0 28.6 43.0#





#51
2-Hexanone
Concen: 1.466 ppbv m
RT: 7.438 min Scan# 2119
Delta R.T. 0.003 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

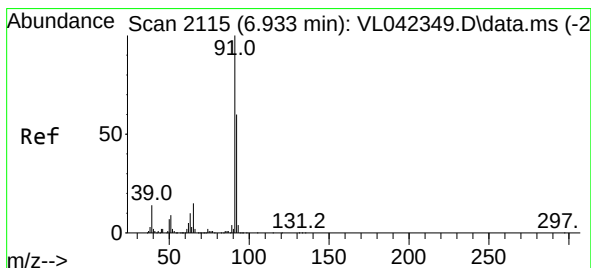
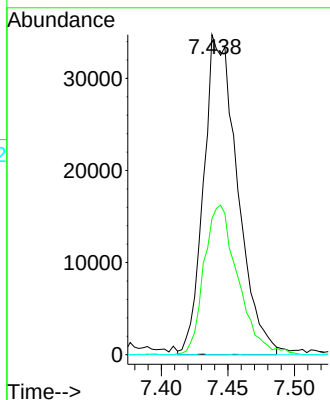
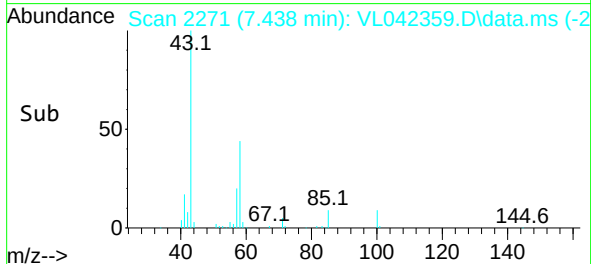
Instrument :
MSVOA_L
ClientSampleId :
IA-B14-1-3242025



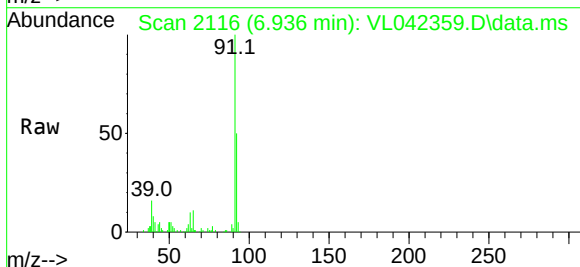
Tgt Ion: 43 Resp: 6119
Ion Ratio Lower Upper
43 100
58 0.0 40.2 60.4
98 0.0 0.1 0.1

Manual Integrations
APPROVED

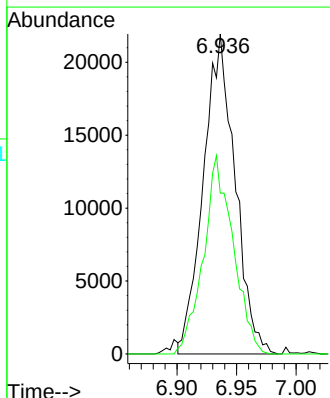
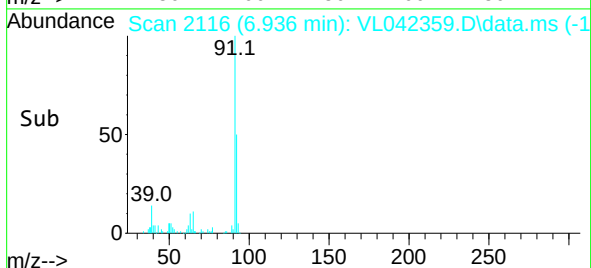
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

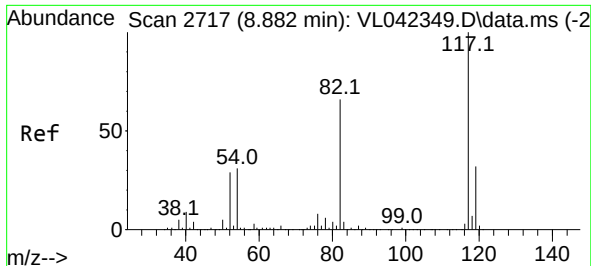


#53
Toluene
Concen: 0.884 ppbv
RT: 6.936 min Scan# 2116
Delta R.T. 0.003 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12



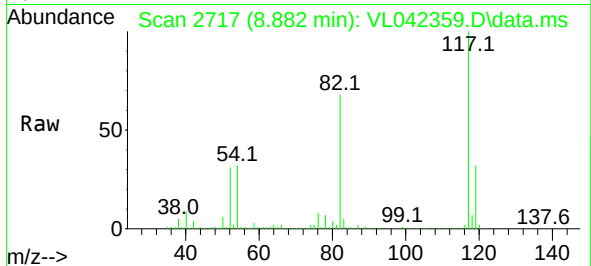
Tgt Ion: 91 Resp: 40500
Ion Ratio Lower Upper
91 100
92 58.2 48.2 72.4





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2717
Delta R.T. 0.000 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

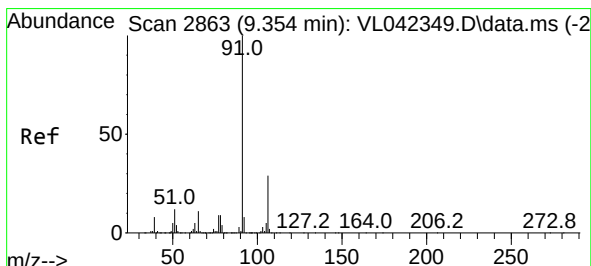
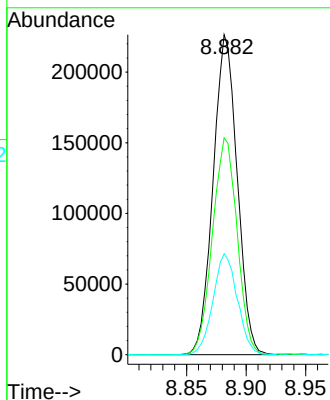
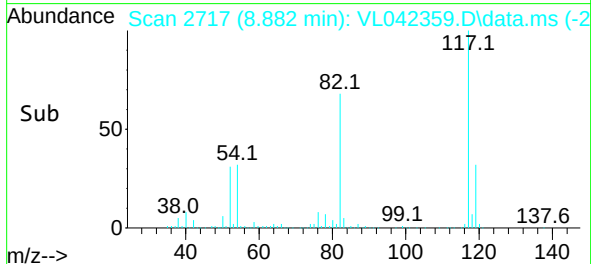
Instrument :
MSVOA_L
ClientSampleId :
IA-B14-1-3242025



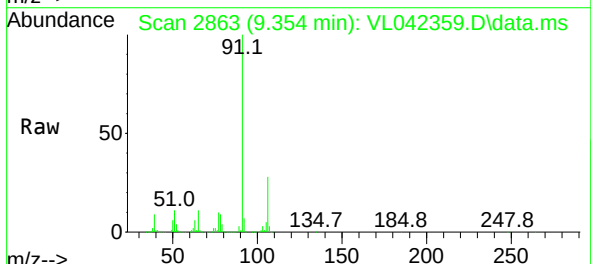
Tgt Ion:117 Resp: 318284
Ion Ratio Lower Upper
117 100
82 69.4 57.8 86.6
119 31.8 25.2 37.8

Manual Integrations
APPROVED

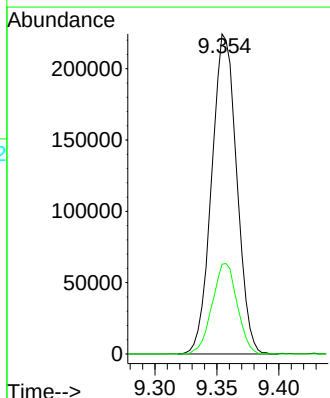
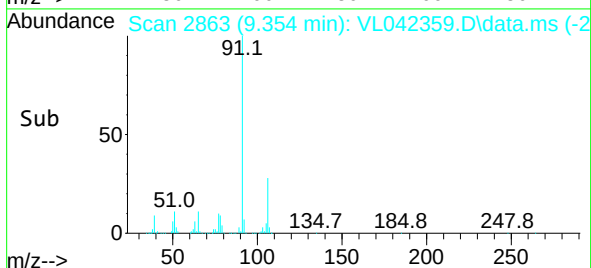
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

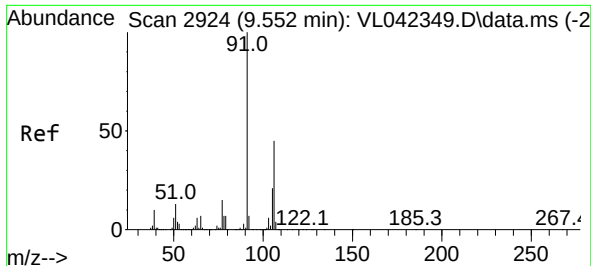


#58
Ethyl Benzene
Concen: 5.010 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.000 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12



Tgt Ion: 91 Resp: 315931
Ion Ratio Lower Upper
91 100
106 28.1 23.0 34.4





#59

m/p-Xylene

Concen: 21.313 ppbv

RT: 9.532 min Scan# 2918

Delta R.T. -0.019 min

Lab File: VL042359.D

Acq: 17 Apr 2025 16:12

Instrument :

MSVOA_L

ClientSampleId :

LA-B14-1-3242025

Tgt Ion: 91 Resp: 108273

Ion Ratio Lower Upper

91 100

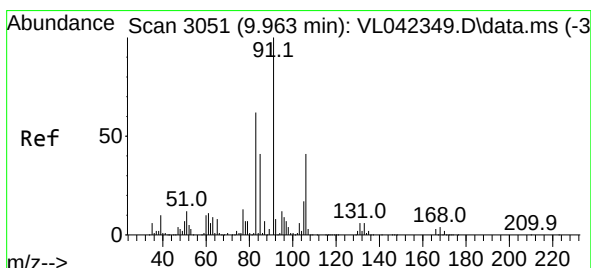
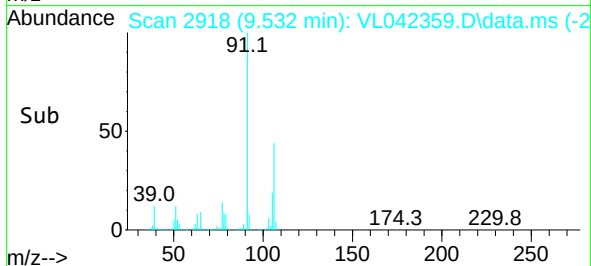
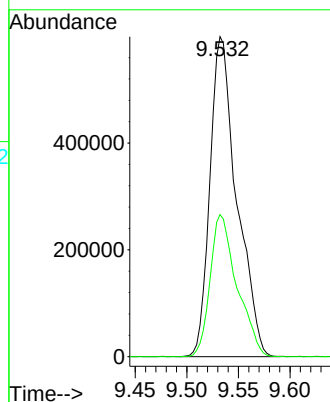
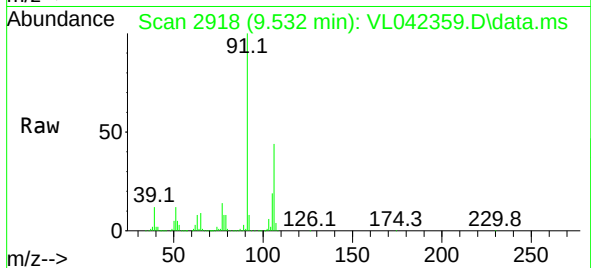
106 44.4 35.4 53.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#60

o-Xylene

Concen: 4.051 ppbv

RT: 9.963 min Scan# 3051

Delta R.T. 0.000 min

Lab File: VL042359.D

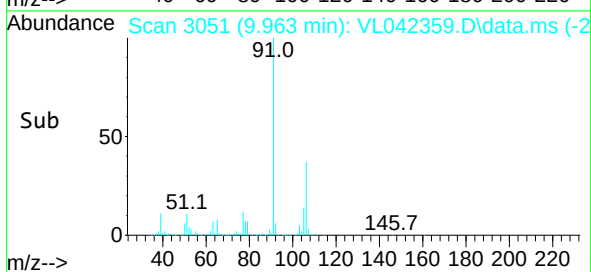
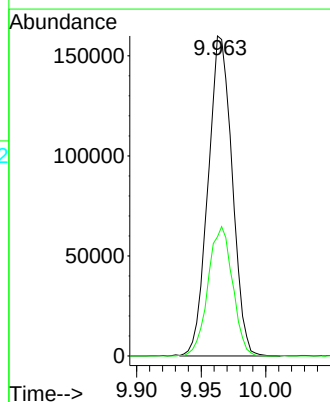
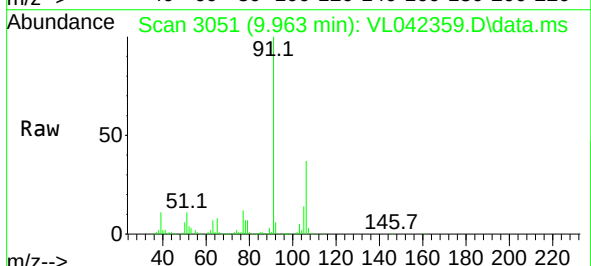
Acq: 17 Apr 2025 16:12

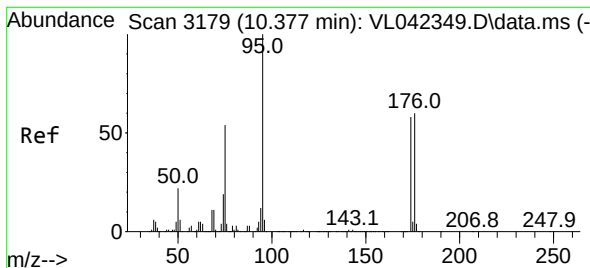
Tgt Ion: 91 Resp: 207265

Ion Ratio Lower Upper

91 100

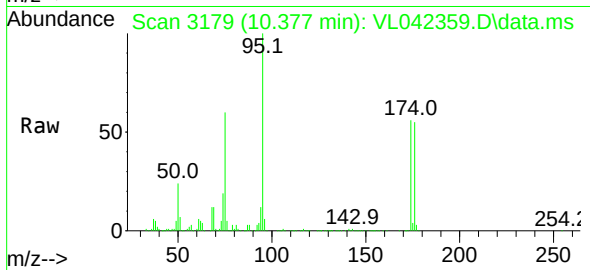
106 41.1 21.1 63.4





#68
1-Bromo-4-Fluorobenzene
Concen: 10.142 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.000 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

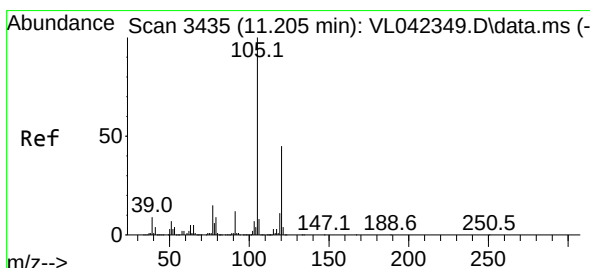
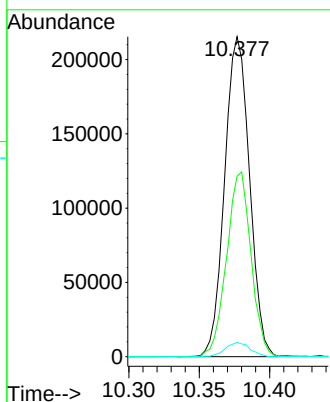
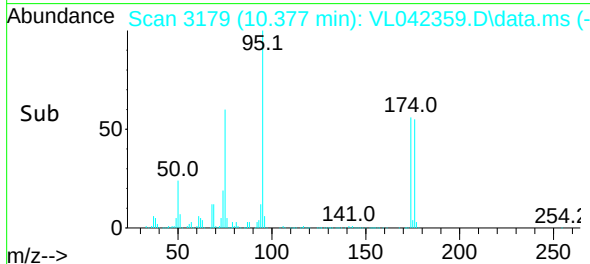
Instrument :
MSVOA_L
ClientSampleId :
IA-B14-1-3242025



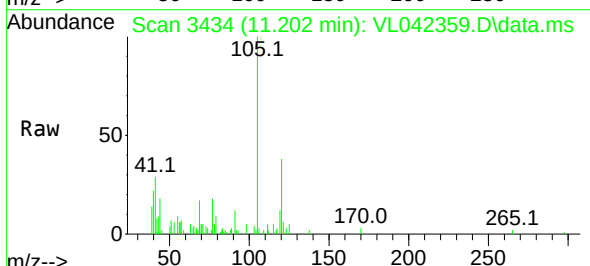
Tgt Ion: 95 Resp: 26526
Ion Ratio Lower Upper
95 100
174 56.8 48.5 72.7
175 4.4 3.7 5.5

Manual Integrations
APPROVED

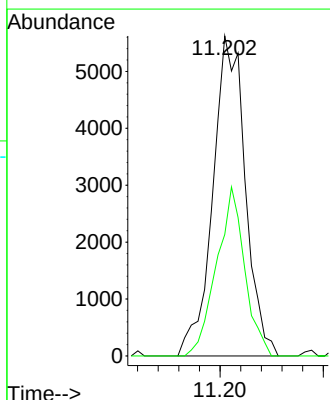
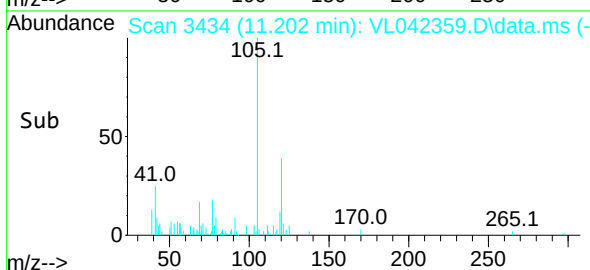
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

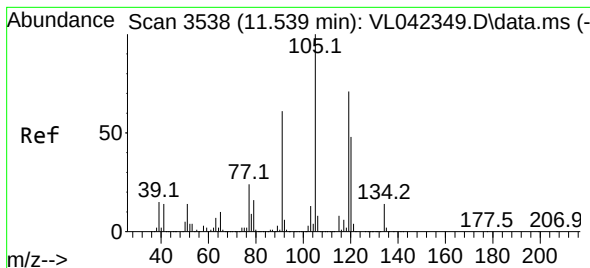


#73
1,3,5-Trimethylbenzene
Concen: 0.111 ppbv
RT: 11.202 min Scan# 3434
Delta R.T. -0.003 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12



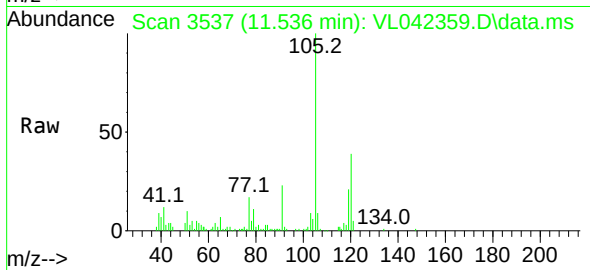
Tgt Ion:105 Resp: 6133
Ion Ratio Lower Upper
105 100
120 38.0 35.6 53.4





#74
1,2,4-Trimethylbenzene
Concen: 0.274 ppbv
RT: 11.536 min Scan# 3538
Delta R.T. -0.003 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

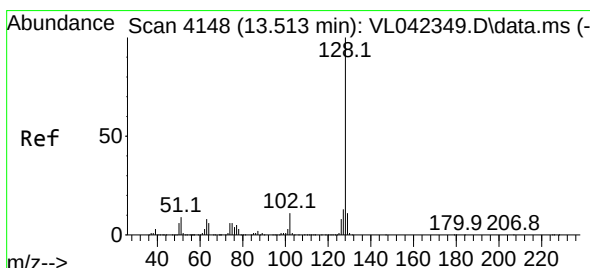
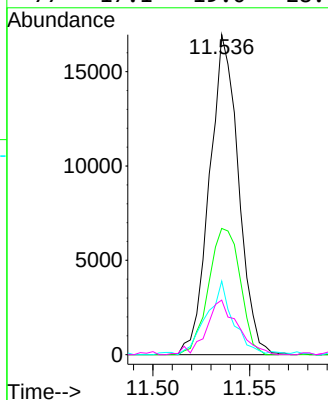
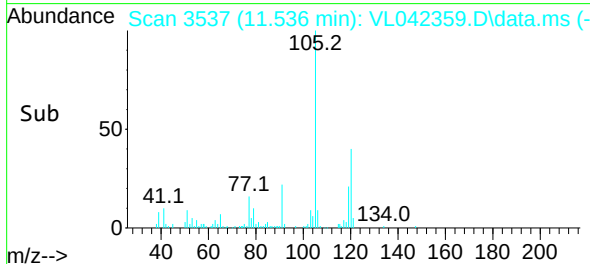
Instrument :
MSVOA_L
ClientSampleId :
IA-B14-1-3242025



Tgt Ion:	105	Resp:	17640
Ion	Ratio	Lower	Upper
105	100		
120	39.5	38.1	57.1
91	23.0	48.8	73.2
77	17.1	19.0	28.4

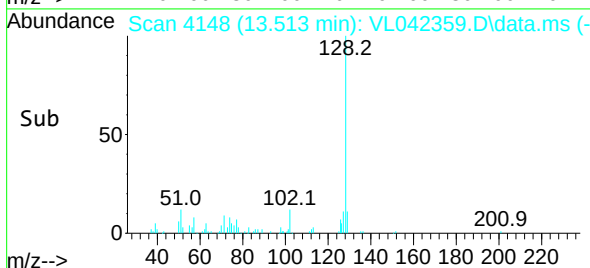
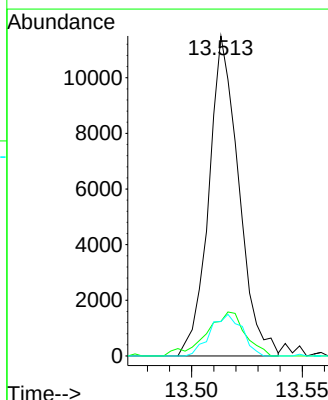
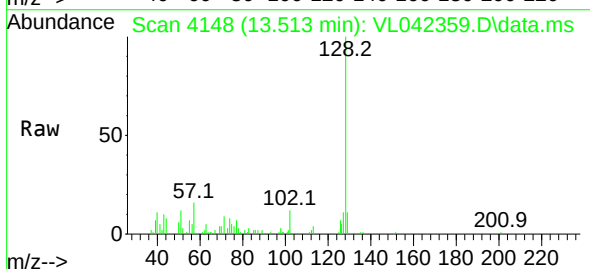
Manual Integrations
APPROVED

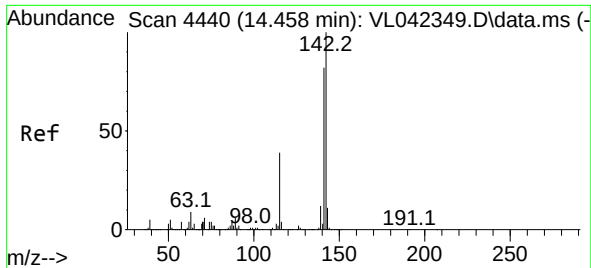
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#79
Naphthalene
Concen: 0.140 ppbv
RT: 13.513 min Scan# 4148
Delta R.T. 0.000 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

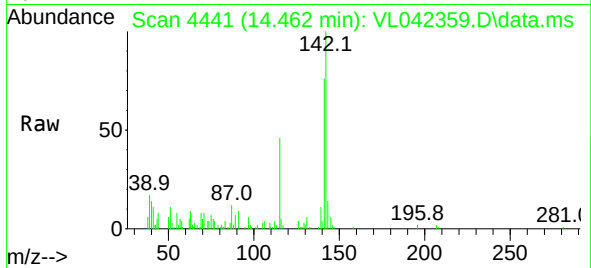
Tgt Ion:	128	Resp:	10816
Ion	Ratio	Lower	Upper
128	100		
127	10.8	10.6	15.8
129	10.8	8.6	12.8





#80
Naphthalene, 2-methyl-
Concen: 0.147 ppbv m
RT: 14.462 min Scan# 44
Delta R.T. 0.003 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

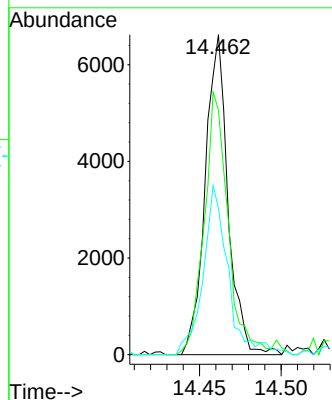
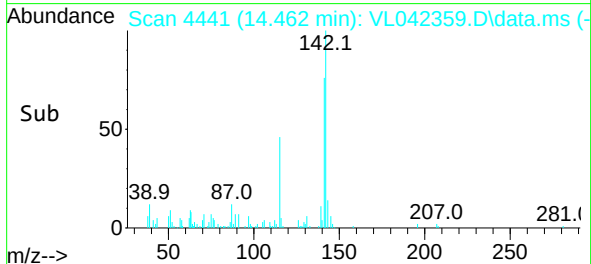
Instrument :
MSVOA_L
ClientSampleId :
IA-B14-1-3242025



Tgt Ion:142 Resp: 644
Ion Ratio Lower Upper
142 100
141 22.5 66.8 100.2
115 13.8 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 : VL042359.D
Acq On : 17 Apr 2025 16:12
Operator : SY/MD
Sample : Q1665-15
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B14-1-3242025

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: VL042359.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	4167250	4711580	100.00%	22.523%
2	1.489	427	433	435	rBV2	177771	96323	2.04%	0.460%
3	1.557	450	454	462	rVB2	275399	181667	3.86%	0.868%
4	1.622	470	474	478	rVB	104166	57617	1.22%	0.275%
5	1.835	535	540	547	rBV	1859303	1244192	26.41%	5.948%
6	1.887	551	556	567	rVB	3498328	2490804	52.87%	11.907%
7	2.787	826	834	841	rBV	452912	477223	10.13%	2.281%
8	2.826	841	846	860	rVB2	218353	253193	5.37%	1.210%
9	3.347	1000	1007	1018	rBV	48995	70231	1.49%	0.336%
10	3.959	1185	1196	1211	rVB2	592332	954188	20.25%	4.561%
11	5.321	1599	1617	1634	rVB3	60586	154255	3.27%	0.737%
12	6.936	2102	2116	2127	rBV3	56741	116984	2.48%	0.559%
13	7.292	2214	2226	2239	rBV5	23305	48184	1.02%	0.230%
14	7.438	2264	2271	2272	rBV	84627	64560	1.37%	0.309%
15	7.444	2272	2273	2289	rVB2	83297	89420	1.90%	0.427%
16	7.690	2340	2349	2361	rBV5	60077	101742	2.16%	0.486%
17	8.882	2705	2717	2728	rBV	809288	1154517	24.50%	5.519%
18	9.354	2853	2863	2876	rBV	540491	760417	16.14%	3.635%
19	9.532	2900	2918	2936	rBV	1764736	3183410	67.57%	15.218%
20	9.966	3039	3052	3064	rBV2	453275	675767	14.34%	3.230%
21	10.377	3164	3179	3190	rBV2	991428	1238425	26.28%	5.920%
22	10.464	3198	3206	3218	rVB	424500	500758	10.63%	2.394%
23	11.115	3393	3407	3417	rBV3	70919	111463	2.37%	0.533%
24	11.536	3528	3537	3544	rBV4	58481	76465	1.62%	0.366%
25	11.824	3618	3626	3639	rBV	1207135	1222142	25.94%	5.842%
26	12.882	3942	3953	3962	rBV	766928	737294	15.65%	3.525%
27	13.384	4103	4108	4116	rVB	67371	69174	1.47%	0.331%
28	14.267	4374	4381	4390	rBV2	66101	76518	1.62%	0.366%

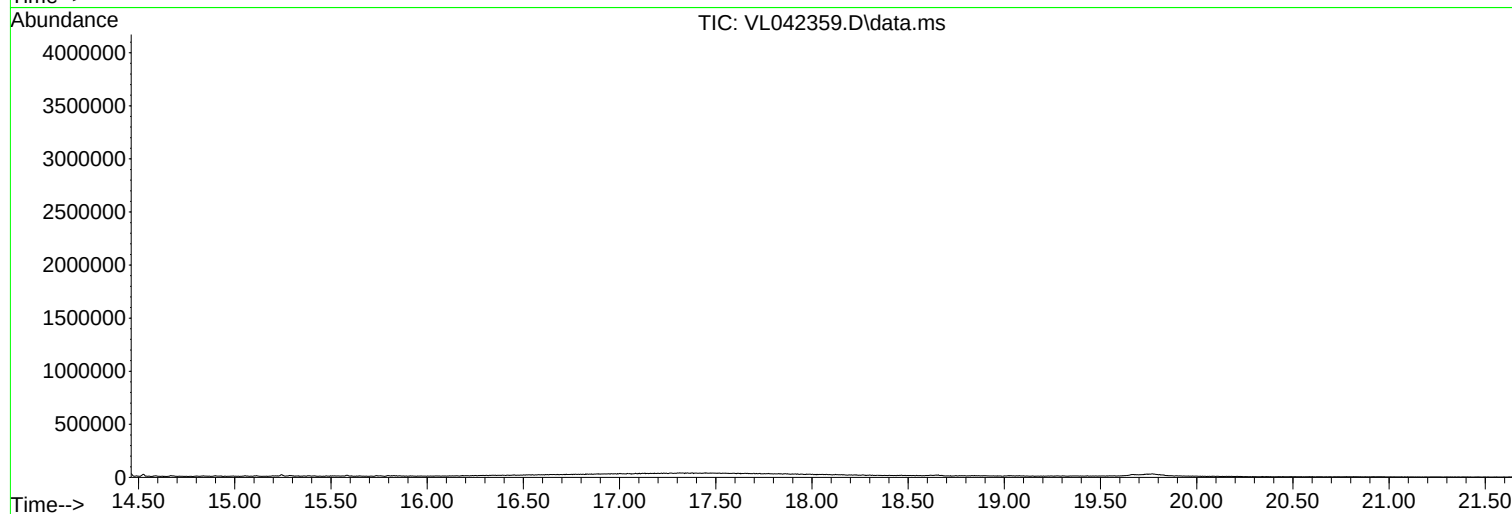
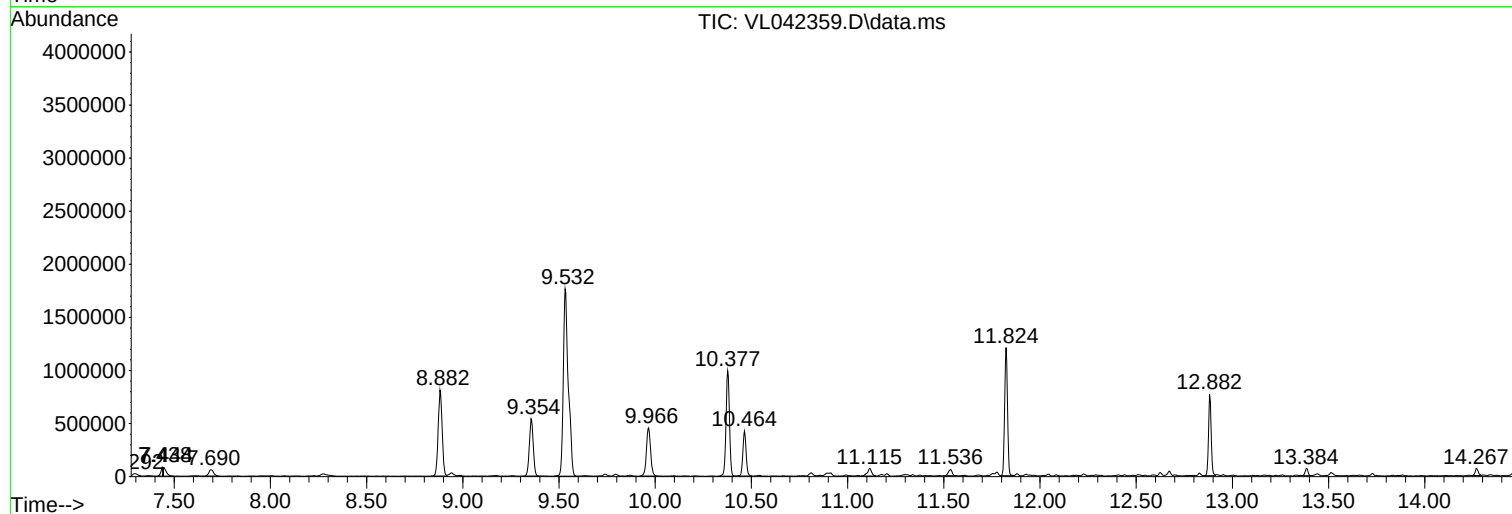
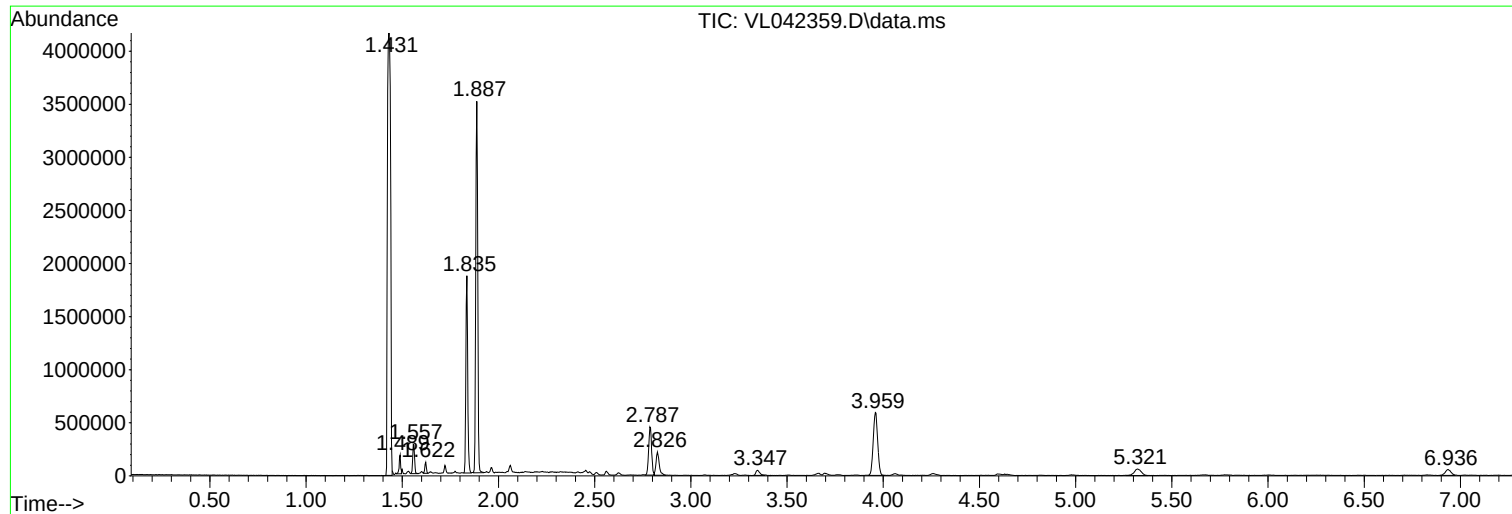
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Acq On : 17 Apr 2025 16:12
Operator : SY/MD
Sample : Q1665-15
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B14-1-3242025

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 : VL042359.D
Acq On : 17 Apr 2025 16:12
Operator : SY/MD
Sample : Q1665-15
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B14-1-3242025

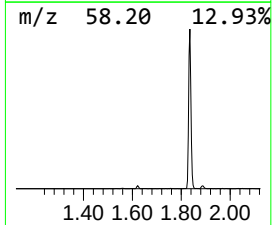
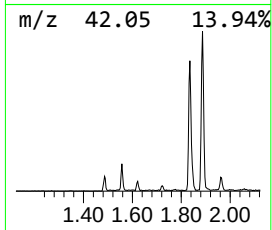
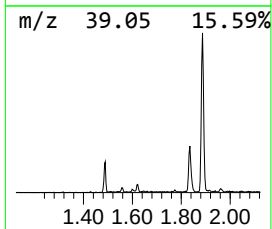
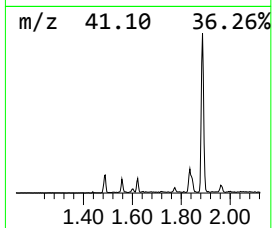
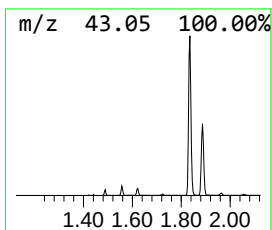
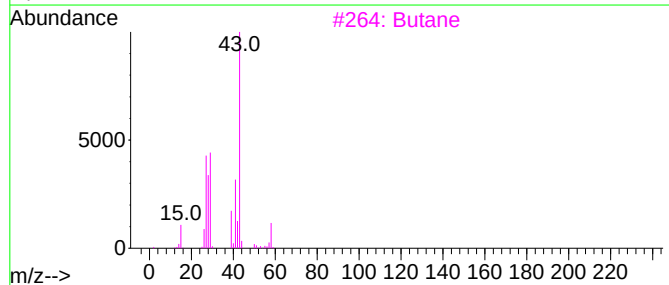
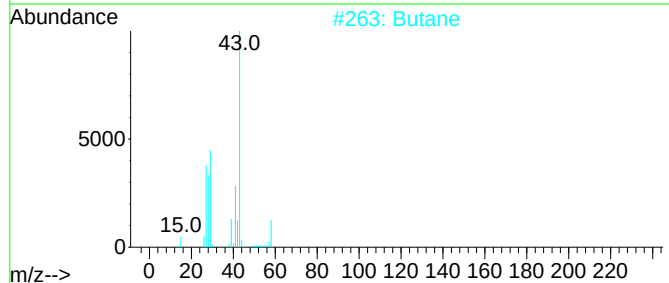
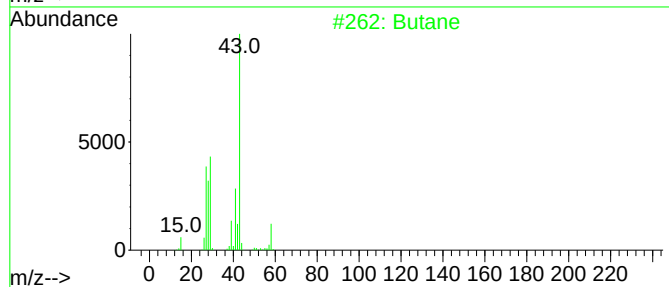
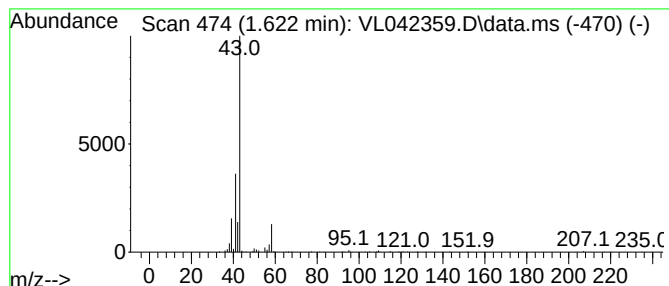
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 1 Butane Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.622	1.21 ppbv	57617	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	53
3			Butane	58	C4H10	000106-97-8	42
4			Butane	58	C4H10	000106-97-8	42
5			1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	39



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042359.D
Acq On : 17 Apr 2025 16:12
Operator : SY/MD
Sample : Q1665-15
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B14-1-3242025

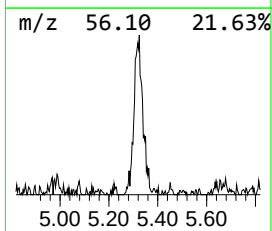
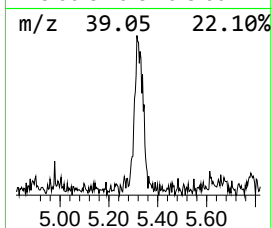
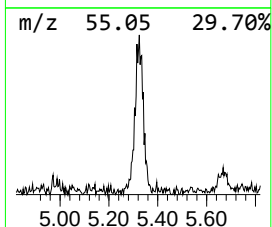
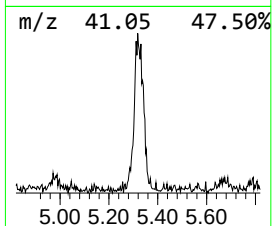
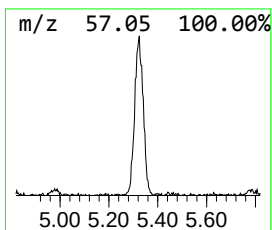
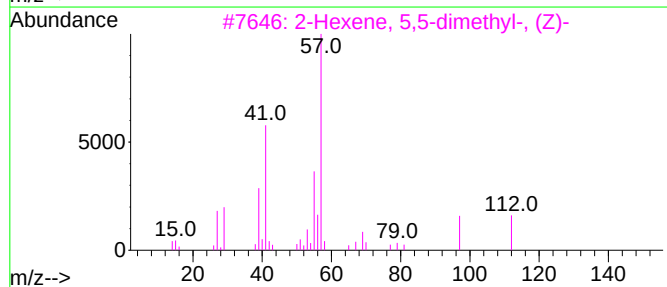
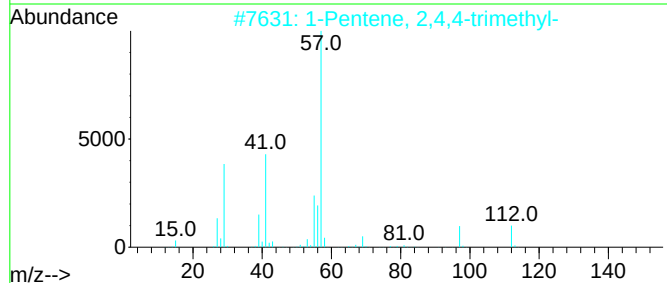
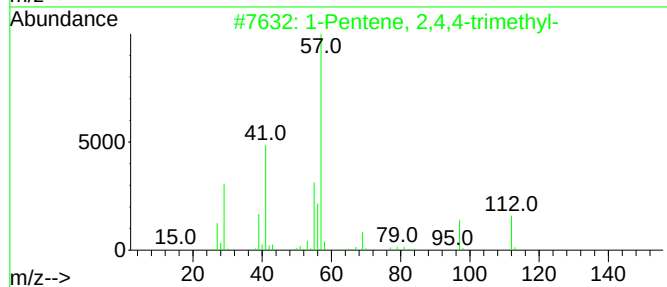
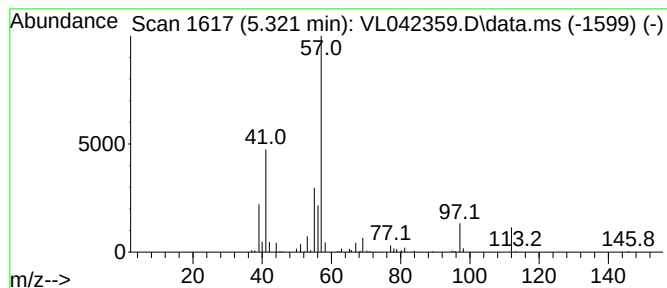
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 2 1-Pentene, 2,4,4-trimethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.321	1.62 ppbv	154255	1,4-Difluorobenzene	3.962

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Pentene, 2,4,4-trimethyl-	112	C8H16	000107-39-1	87	
2	1-Pentene, 2,4,4-trimethyl-	112	C8H16	000107-39-1	86	
3	2-Hexene, 5,5-dimethyl-, (Z)-	112	C8H16	039761-61-0	81	
4	1-Pentene, 2,4,4-trimethyl-	112	C8H16	000107-39-1	74	
5	1-Pentene, 2,4,4-trimethyl-	112	C8H16	000107-39-1	59	



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042359.D
Acq On : 17 Apr 2025 16:12
Operator : SY/MD
Sample : Q1665-15
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B14-1-3242025

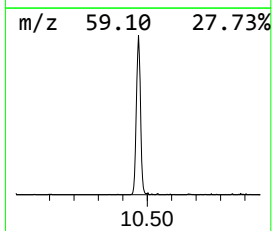
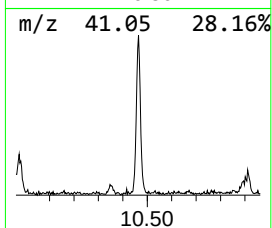
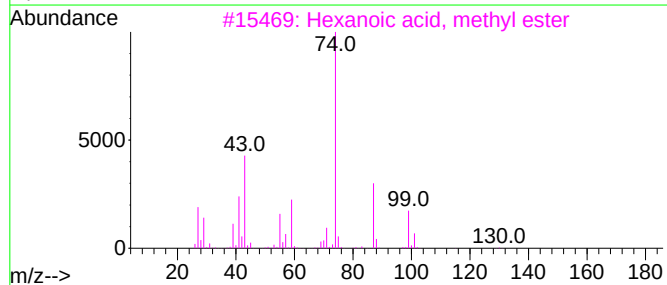
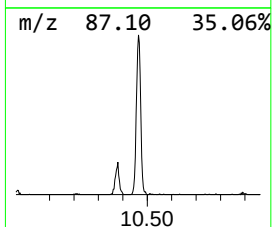
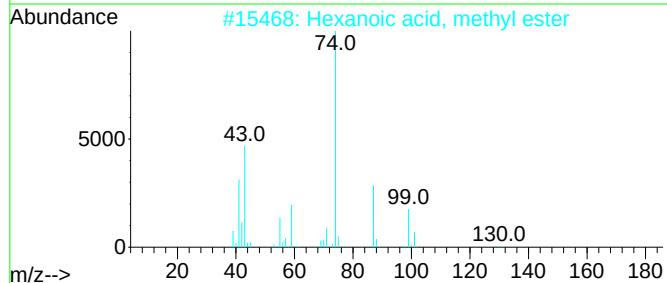
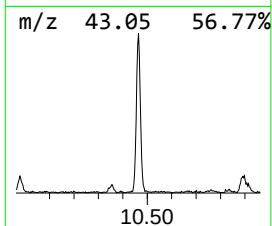
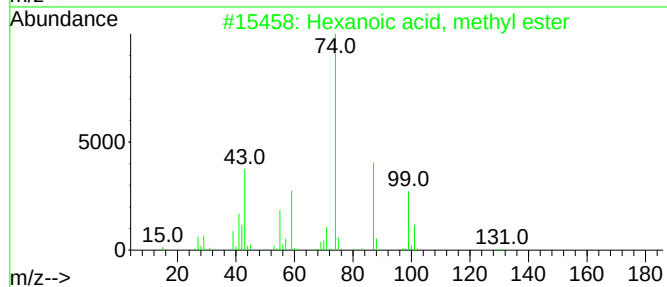
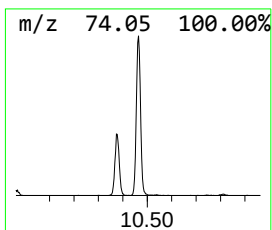
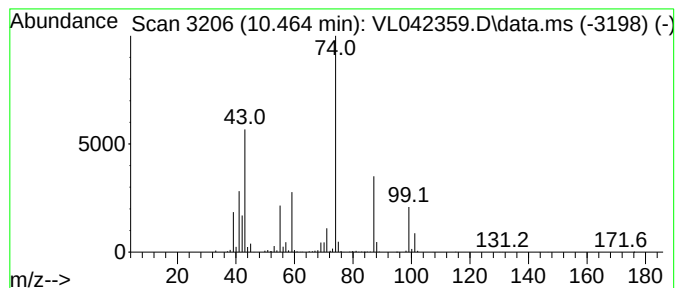
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 3 Hexanoic acid, methyl ester Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.464	4.34 ppbv	500758	Chlorobenzene-d5	8.882

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Hexanoic acid, methyl ester	130	C7H14O2	000106-70-7	90
2			Hexanoic acid, methyl ester	130	C7H14O2	000106-70-7	90
3			Hexanoic acid, methyl ester	130	C7H14O2	000106-70-7	78
4			Methyl valerate	116	C6H12O2	000624-24-8	59
5			Methyl valerate	116	C6H12O2	000624-24-8	45



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042359.D
Acq On : 17 Apr 2025 16:12
Operator : SY/MD
Sample : Q1665-15
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B14-1-3242025

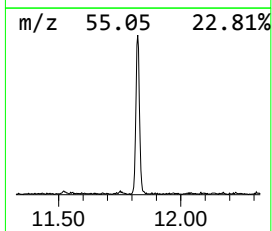
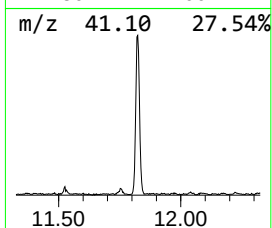
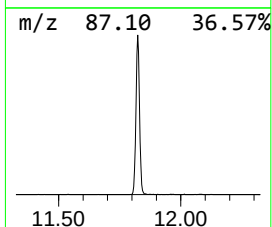
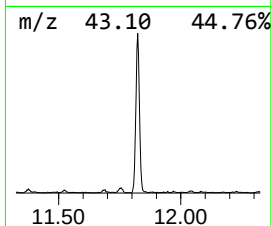
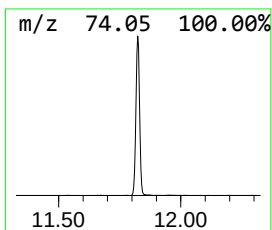
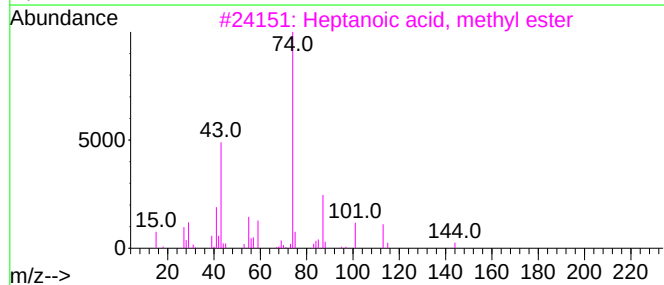
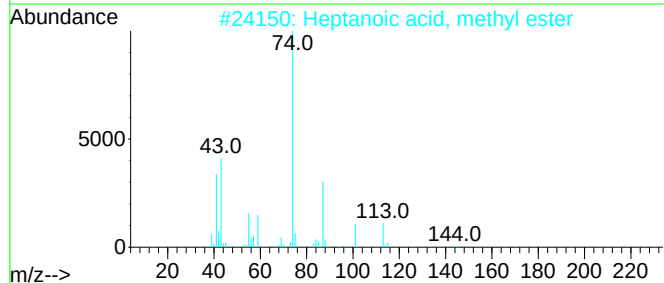
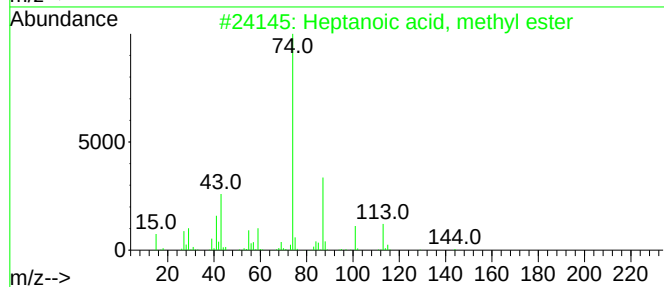
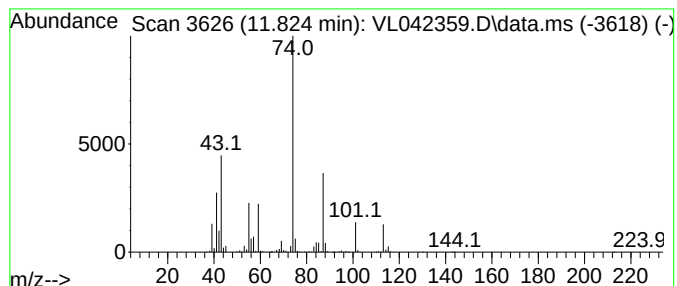
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 4 Heptanoic acid, methyl ester Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.824	10.59 ppbv	1222140	Chlorobenzene-d5	8.882

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Heptanoic acid, methyl ester	144	C8H16O2	000106-73-0	83
2			Heptanoic acid, methyl ester	144	C8H16O2	000106-73-0	80
3			Heptanoic acid, methyl ester	144	C8H16O2	000106-73-0	72
4			Heptanoic acid, methyl ester	144	C8H16O2	000106-73-0	72
5			Hexanoic acid, methyl ester	130	C7H14O2	000106-70-7	64



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042359.D
Acq On : 17 Apr 2025 16:12
Operator : SY/MD
Sample : Q1665-15
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B14-1-3242025

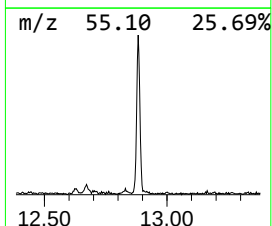
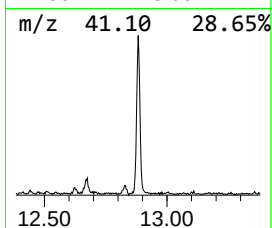
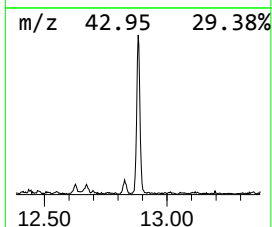
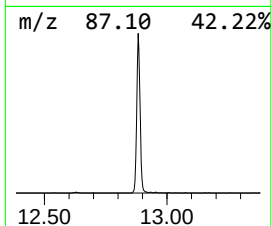
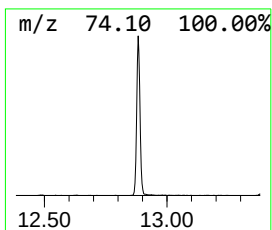
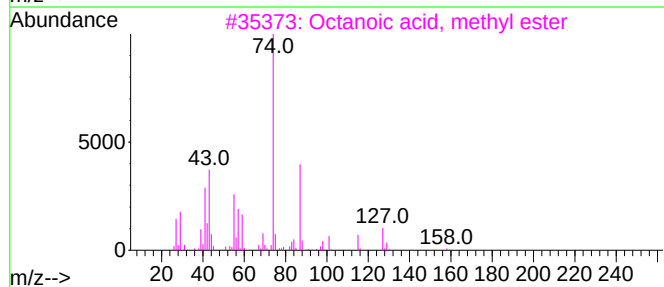
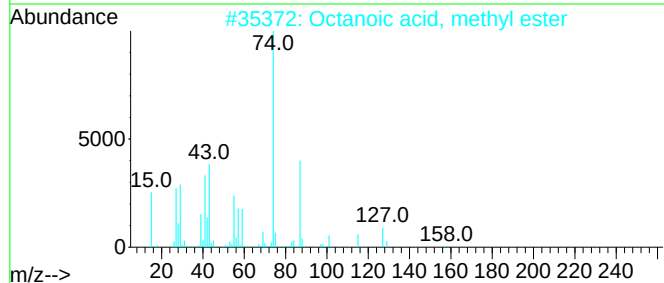
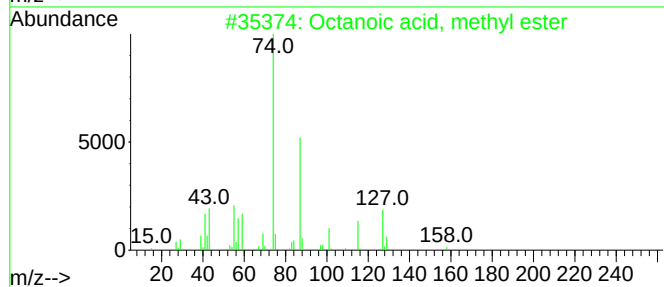
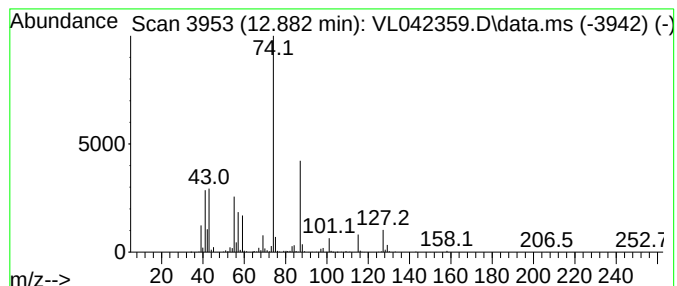
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 5 Octanoic acid, methyl ester Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.882	6.39 ppbv	737294	Chlorobenzene-d5	8.882

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Octanoic acid, methyl ester	158	C9H18O2	000111-11-5	95
2			Octanoic acid, methyl ester	158	C9H18O2	000111-11-5	91
3			Octanoic acid, methyl ester	158	C9H18O2	000111-11-5	90
4			Octanoic acid, methyl ester	158	C9H18O2	000111-11-5	90
5			Octanoic acid, methyl ester	158	C9H18O2	000111-11-5	86



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042359.D
Acq On : 17 Apr 2025 16:12
Operator : SY/MD
Sample : Q1665-15
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B14-1-3242025

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	1.2	ppbv	57617	1	2.787	477223	10.0
1-Pentene, 2,4,...	5.321	1.6	ppbv	154255	2	3.962	954188	10.0
Hexanoic acid, ...	10.464	4.3	ppbv	500758	3	8.882	1154520	10.0
Heptanoic acid,...	11.824	10.6	ppbv	1222140	3	8.882	1154520	10.0
Octanoic acid, ...	12.882	6.4	ppbv	737294	3	8.882	1154520	10.0

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/25/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	03/26/25
Client Sample ID:	IA-B14-1-3242025DL	SDG No.:	Q1665
Lab Sample ID:	Q1665-15DL	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
VL042360.D	10		04/17/25 16:44	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	2.10	10.4	UD	10.4	24.7	ug/m3
74-87-3	Chloromethane	0.98	2.02	UD	2.02	10.3	ug/m3
75-01-4	Vinyl Chloride	0.14	0.36	UD	0.36	0.77	ug/m3
74-83-9	Bromomethane	1.40	5.44	UD	5.44	19.4	ug/m3
75-00-3	Chloroethane	1.70	4.49	UD	4.49	13.2	ug/m3
109-99-9	Tetrahydrofuran	1.30	3.83	UD	3.83	14.8	ug/m3
75-69-4	Trichlorofluoromethane	1.60	8.99	UD	8.99	28.1	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	1.60	12.3	UD	12.3	38.3	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.88	6.15	UD	6.15	35.0	ug/m3
75-65-0	tert-Butyl alcohol	1.90	5.76	UD	5.76	15.2	ug/m3
142-82-5	Heptane	1.10	4.51	UD	4.51	20.5	ug/m3
75-35-4	1,1-Dichloroethene	1.40	5.55	UD	5.55	19.8	ug/m3
67-64-1	Acetone	42.5	101	D	5.70	11.9	ug/m3
75-15-0	Carbon Disulfide	1.60	4.98	UD	4.98	15.6	ug/m3
1634-04-4	Methyl tert-Butyl Ether	1.20	4.33	UD	4.33	18.0	ug/m3
75-09-2	Methylene Chloride	1.90	6.60	UD	6.60	17.4	ug/m3
156-60-5	trans-1,2-Dichloroethene	1.90	7.53	UD	7.53	19.8	ug/m3
75-34-3	1,1-Dichloroethane	1.30	5.26	UD	5.26	20.2	ug/m3
110-82-7	Cyclohexane	2.20	7.57	UD	7.57	17.2	ug/m3
78-93-3	2-Butanone	1.30	3.83	JD	3.54	14.8	ug/m3
56-23-5	Carbon Tetrachloride	0.11	0.69	UD	0.69	1.89	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.89	3.53	UD	3.53	19.8	ug/m3
67-66-3	Chloroform	0.83	4.05	UD	4.05	24.4	ug/m3
71-55-6	1,1,1-Trichloroethane	0.10	0.55	UD	0.55	1.64	ug/m3
540-84-1	2,2,4-Trimethylpentane	1.00	4.67	UD	4.67	23.4	ug/m3
71-43-2	Benzene	0.87	2.78	UD	2.78	16.0	ug/m3
107-06-2	1,2-Dichloroethane	0.91	3.68	UD	3.68	20.2	ug/m3
79-01-6	Trichloroethene	0.17	0.91	UD	0.91	1.61	ug/m3
78-87-5	1,2-Dichloropropane	1.10	5.08	UD	5.08	23.1	ug/m3
75-27-4	Bromodichloromethane	0.77	5.16	UD	5.16	33.5	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.93	3.81	UD	3.81	20.5	ug/m3
108-88-3	Toluene	1.10	4.15	UD	4.15	18.8	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.60	2.72	UD	2.72	22.7	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.64	2.91	UD	2.91	22.7	ug/m3
79-00-5	1,1,2-Trichloroethane	0.71	3.87	UD	3.87	27.3	ug/m3

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/25/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	03/26/25
Client Sample ID:	IA-B14-1-3242025DL	SDG No.:	Q1665
Lab Sample ID:	Q1665-15DL	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
VL042360.D	10		04/17/25 16:44	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.66	5.62	UD	5.62	42.6	ug/m3
106-93-4	1,2-Dibromoethane	0.72	5.53	UD	5.53	7.69	ug/m3
127-18-4	Tetrachloroethene	0.15	1.02	UD	1.02	2.03	ug/m3
108-90-7	Chlorobenzene	0.76	3.50	UD	3.50	23.0	ug/m3
100-41-4	Ethyl Benzene	5.10	22.1	D	5.21	21.7	ug/m3
179601-23-1	m/p-Xylene	22.3	96.9	D	9.12	43.4	ug/m3
95-47-6	o-Xylene	4.10	17.8	JD	5.21	21.7	ug/m3
100-42-5	Styrene	1.10	4.68	UD	4.68	21.3	ug/m3
75-25-2	Bromoform	0.57	5.89	UD	5.89	51.7	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.11	0.76	UD	0.76	2.06	ug/m3
95-49-8	2-Chlorotoluene	1.10	5.70	UD	5.70	25.9	ug/m3
108-67-8	1,3,5-Trimethylbenzene	1.10	5.41	UD	5.41	24.6	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.78	3.83	UD	3.83	24.6	ug/m3
541-73-1	1,3-Dichlorobenzene	0.80	4.81	UD	4.81	30.1	ug/m3
106-46-7	1,4-Dichlorobenzene	0.53	3.19	UD	3.19	30.1	ug/m3
95-50-1	1,2-Dichlorobenzene	0.75	4.51	UD	4.51	30.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.85	6.31	UD	6.31	37.1	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.85	9.07	UD	9.07	53.3	ug/m3
106-99-0	1,3-Butadiene	1.30	2.88	UD	2.88	11.1	ug/m3
91-20-3	Naphthalene	0.75	3.93	UD	3.93	5.24	ug/m3
622-96-8	4-Ethyltoluene	1.20	5.90	UD	5.90	24.6	ug/m3
110-54-3	Hexane	1.10	3.88	UD	3.88	17.6	ug/m3
107-05-1	Allyl Chloride	1.50	4.70	UD	4.70	15.7	ug/m3
123-91-1	1,4-Dioxane	2.10	7.57	UD	7.57	18.0	ug/m3
80-62-6	Methyl Methacrylate	0.86	3.52	UD	3.52	20.5	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	122000		2.787			
540-36-3	1,4-Difluorobenzene	347000		3.962			
3114-55-4	Chlorobenzene-d5	308000		8.882			

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/25/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	03/26/25
Client Sample ID:	IA-B14-1-3242025DL	SDG No.:	Q1665
Lab Sample ID:	Q1665-15DL	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
VL042360.D	10		04/17/25 16:44	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
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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 : VL042360.D
Acq On : 17 Apr 2025 16:44
Operator : SY/MD
Sample : Q1665-15DL 10X
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B14-1-3242025DL

Quant Time: Apr 18 02:38:31 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 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

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

Internal Standards						
1) Bromochloromethane	2.787	49	121918	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	347081	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	308280	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	259047	10.226	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.300%
Target Compounds						Qvalue
9) Propene	1.489	41	2087	0.223	ppbv	85
13) Ethanol	1.722	45	4134m	2.784	ppbv	
15) Acetone	1.836	43	84869	4.252	ppbv	100
19) Isopropyl Alcohol	1.887	45	188363	16.989	ppbv #	52
34) 2-Butanone	2.564	43	3500m	0.128	ppbv	
51) 2-Hexanone	7.448	43	5539	0.135	ppbv #	96
53) Toluene	6.937	91	4561m	0.102	ppbv	
58) Ethyl Benzene	9.358	91	30946	0.507	ppbv	93
59) m/p-Xylene	9.532	91	109489m	2.225	ppbv	
60) o-Xylene	9.966	91	20222	0.408	ppbv	97

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

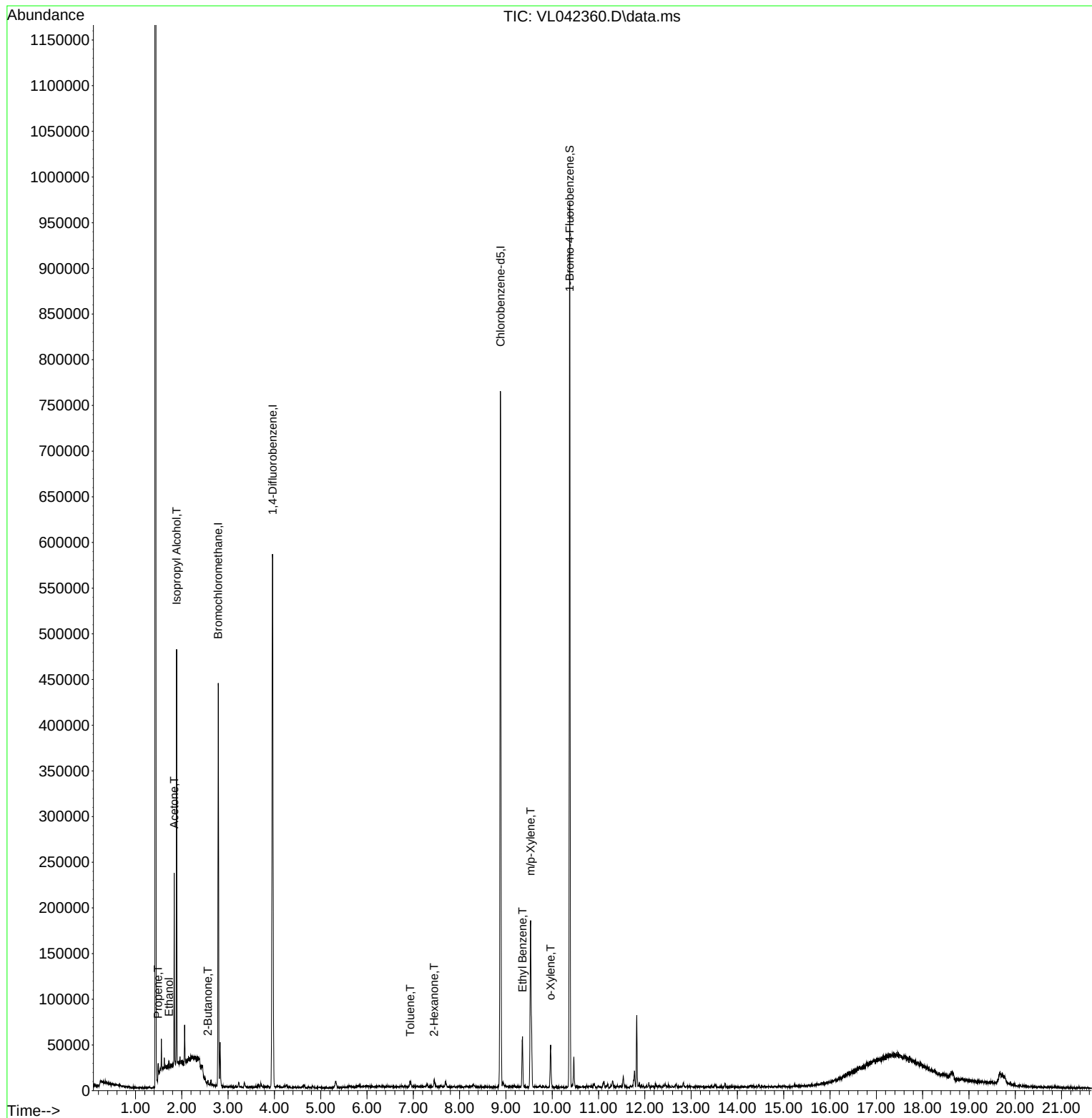
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Sample : Q1665-15DL 10X
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

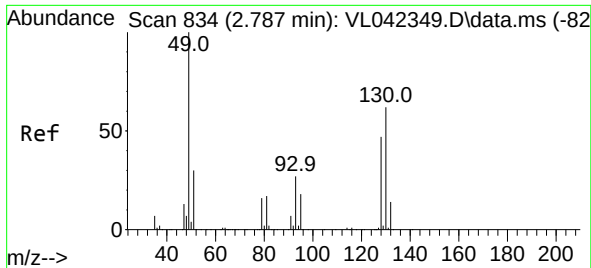
Instrument :
MSVOA_L
ClientSampleId :
IA-B14-1-3242025DL

Quant Time: Apr 18 02:38:31 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

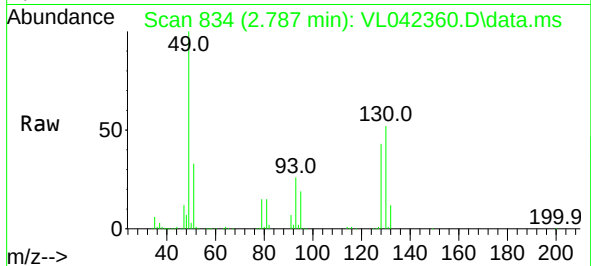
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. 0.000 min
Lab File: VL042360.D
Acq: 17 Apr 2025 16:44

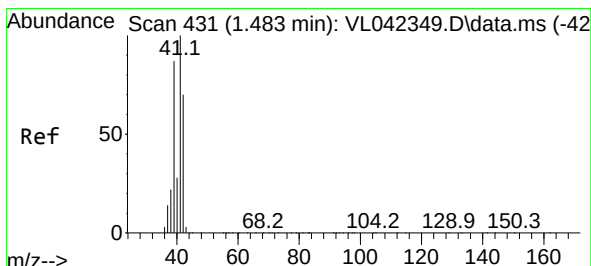
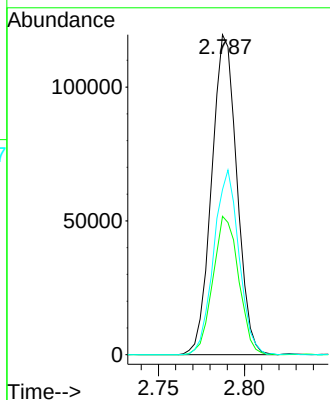
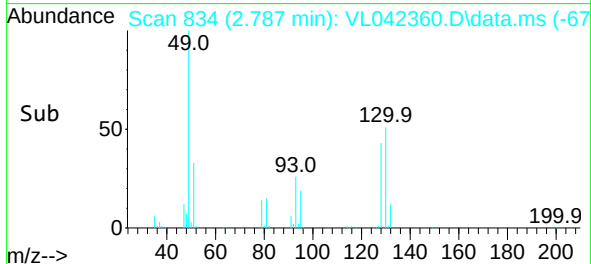
Instrument :
MSVOA_L
ClientSampleId :
IA-B14-1-3242025DL



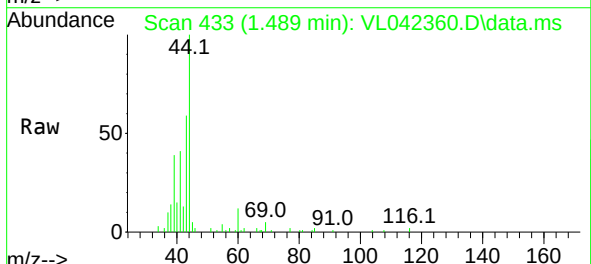
Tgt Ion: 49 Resp: 121918
Ion Ratio Lower Upper
49 100
128 44.1 22.8 68.4
130 57.9 29.3 88.0

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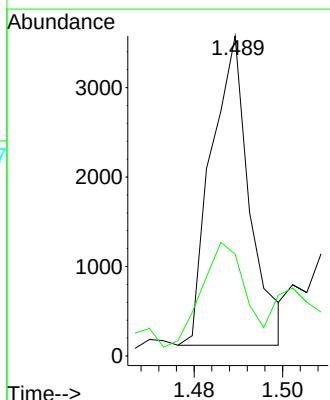
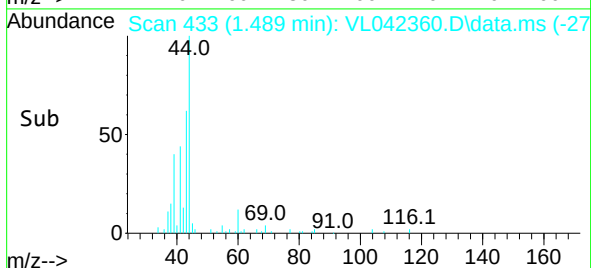
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

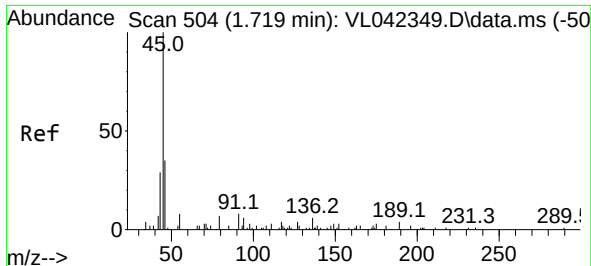


#9
Propene
Concen: 0.223 ppbv
RT: 1.489 min Scan# 433
Delta R.T. 0.007 min
Lab File: VL042360.D
Acq: 17 Apr 2025 16:44



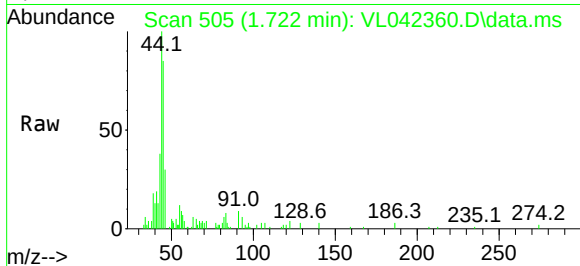
Tgt Ion: 41 Resp: 2087
Ion Ratio Lower Upper
41 100
42 82.3 56.2 84.4





#13
Ethanol
Concen: 2.784 ppbv m
RT: 1.722 min Scan# 50
Delta R.T. 0.003 min
Lab File: VL042360.D
Acq: 17 Apr 2025 16:44

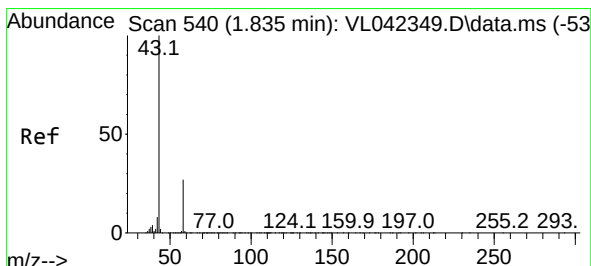
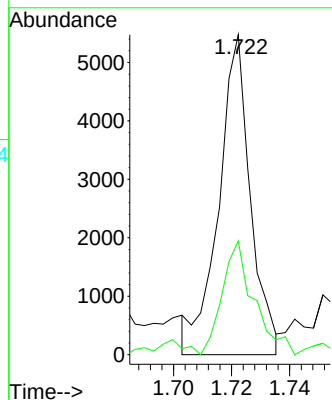
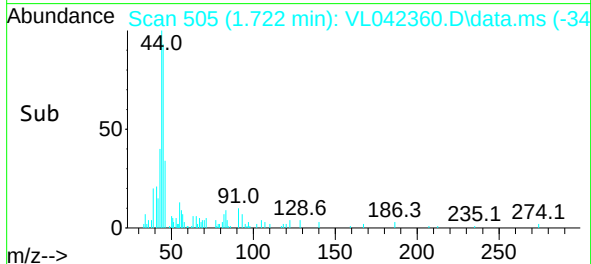
Instrument :
MSVOA_L
ClientSampleId :
IA-B14-1-3242025DL



Tgt Ion: 45 Resp: 4134
Ion Ratio Lower Upper
45 100
46 0.0 21.9 87.7

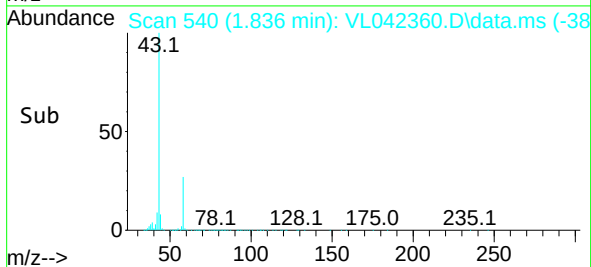
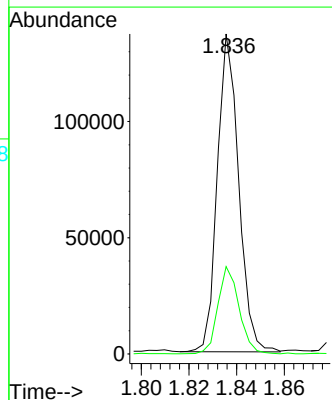
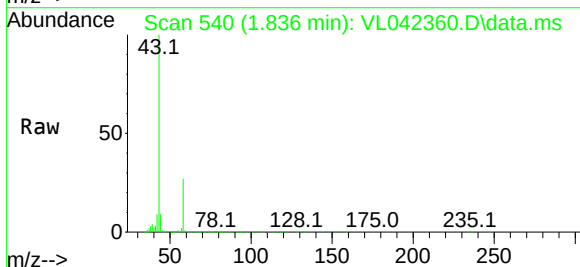
Manual Integrations
APPROVED

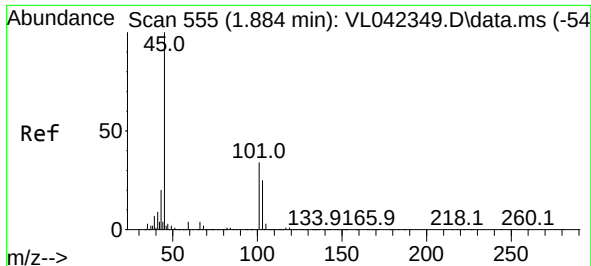
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#15
Acetone
Concen: 4.252 ppbv
RT: 1.836 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL042360.D
Acq: 17 Apr 2025 16:44

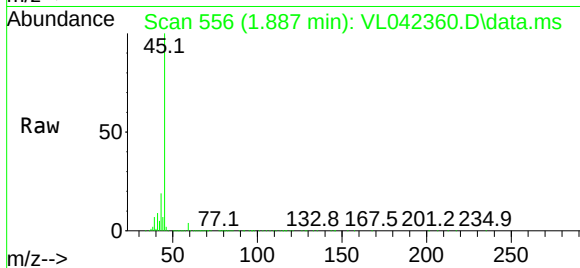
Tgt Ion: 43 Resp: 84869
Ion Ratio Lower Upper
43 100
58 27.8 22.4 33.6





#19
Isopropyl Alcohol
Concen: 16.989 ppbv
RT: 1.887 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042360.D
Acq: 17 Apr 2025 16:44

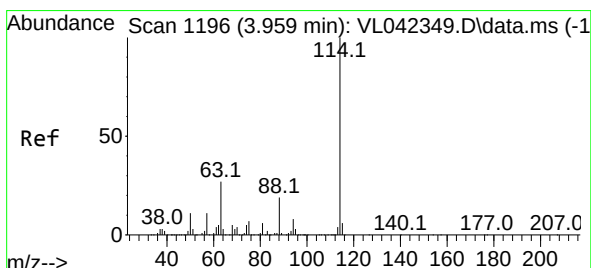
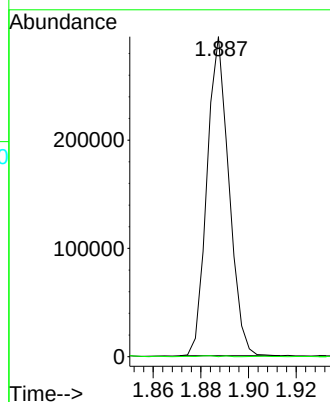
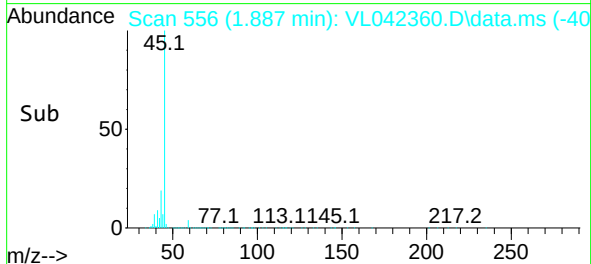
Instrument :
MSVOA_L
ClientSampleId :
IA-B14-1-3242025DL



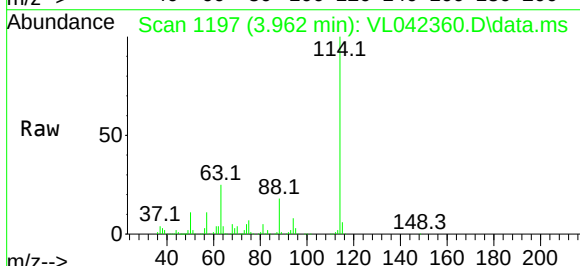
Tgt Ion: 45 Resp: 18836
Ion Ratio Lower Upper
45 100
58 12.5 34.5 51.7

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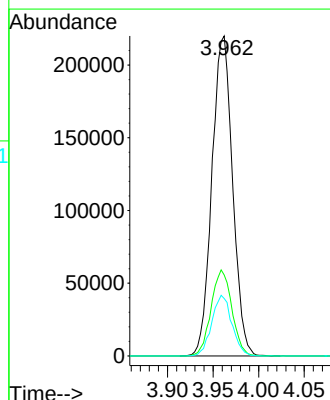
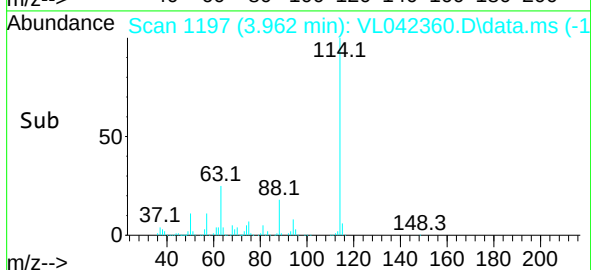
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

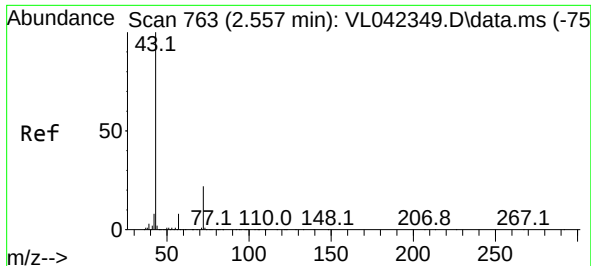


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. 0.003 min
Lab File: VL042360.D
Acq: 17 Apr 2025 16:44



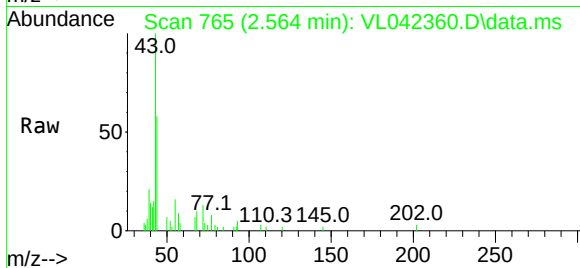
Tgt Ion:114 Resp: 347081
Ion Ratio Lower Upper
114 100
63 27.1 21.8 32.6
88 18.4 15.5 23.3





#34
2-Butanone
Concen: 0.128 ppbv m
RT: 2.564 min Scan# 765
Delta R.T. 0.007 min
Lab File: VL042360.D
Acq: 17 Apr 2025 16:44

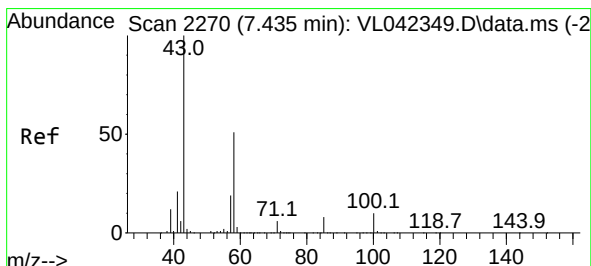
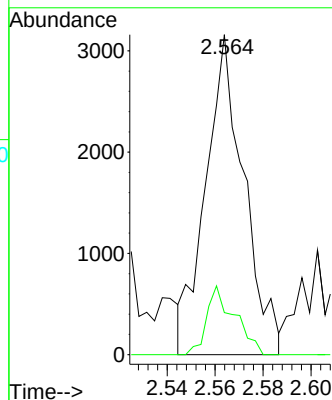
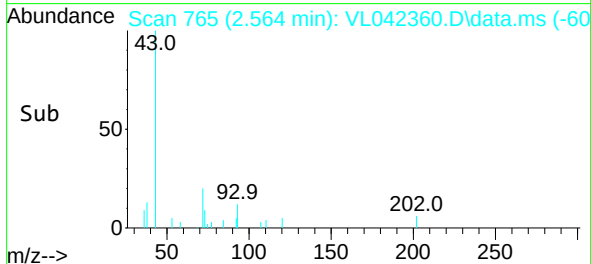
Instrument :
MSVOA_L
ClientSampleId :
IA-B14-1-3242025DL



Tgt Ion: 43 Resp: 3500
Ion Ratio Lower Upper
43 100
72 15.7 18.2 27.2

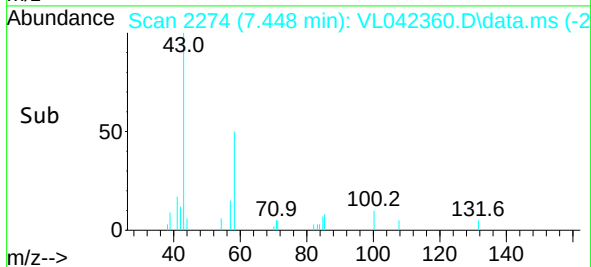
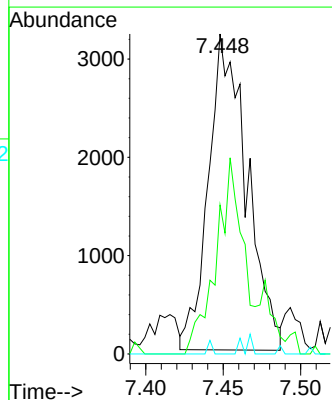
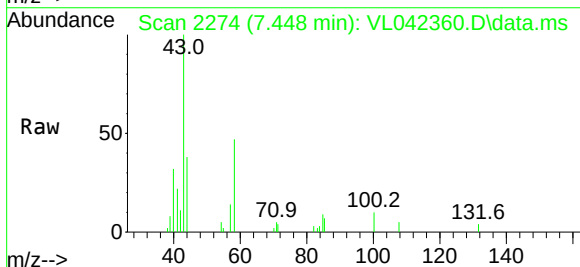
Manual Integrations
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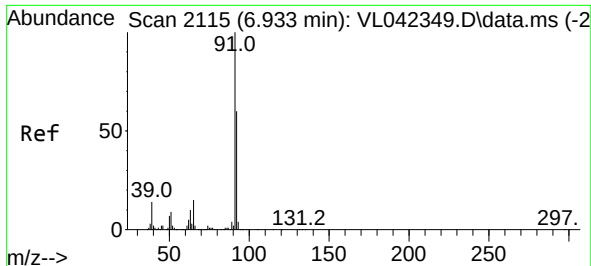
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#51
2-Hexanone
Concen: 0.135 ppbv
RT: 7.448 min Scan# 2274
Delta R.T. 0.013 min
Lab File: VL042360.D
Acq: 17 Apr 2025 16:44

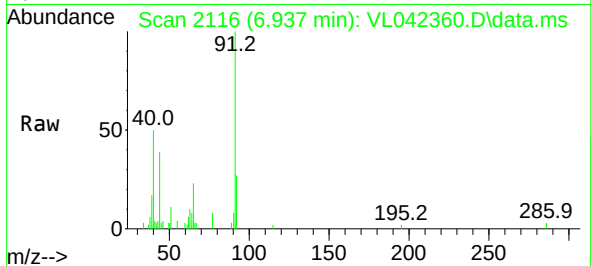
Tgt Ion: 43 Resp: 5539
Ion Ratio Lower Upper
43 100
58 53.1 40.2 60.4
98 0.0 0.1 0.1





#53
Toluene
Concen: 0.102 ppbv m
RT: 6.937 min Scan# 2115
Delta R.T. 0.003 min
Lab File: VL042360.D
Acq: 17 Apr 2025 16:44

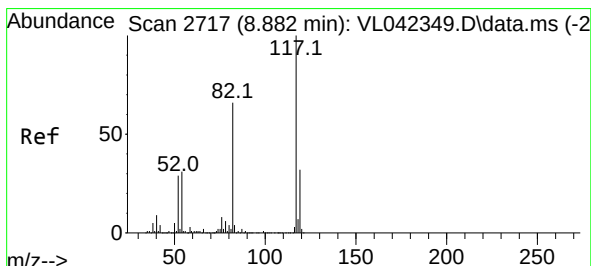
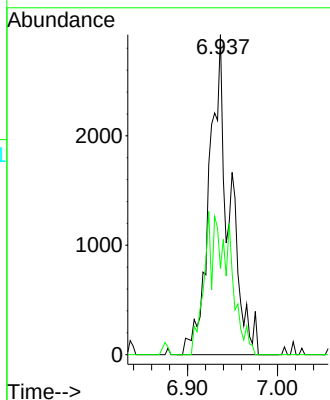
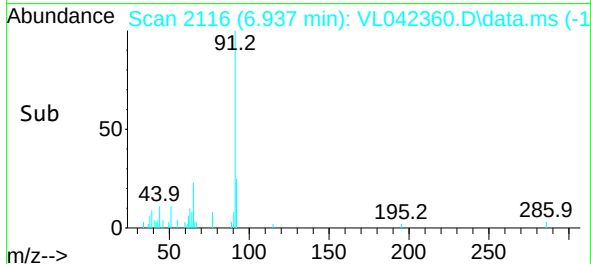
Instrument :
MSVOA_L
ClientSampleId :
IA-B14-1-3242025DL



Tgt Ion: 91 Resp: 456
Ion Ratio Lower Upper
91 100
92 0.0 48.2 72.4

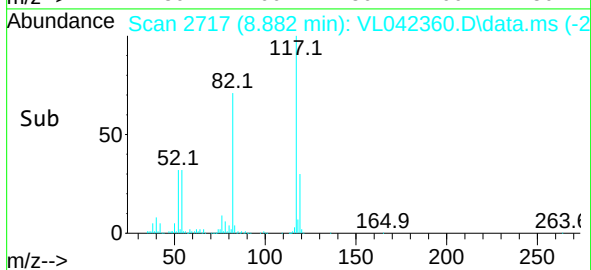
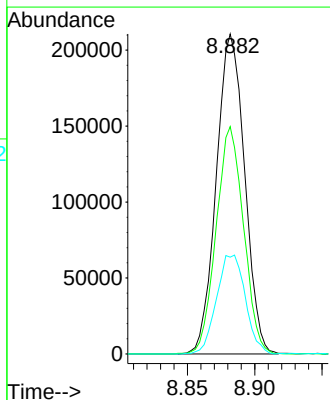
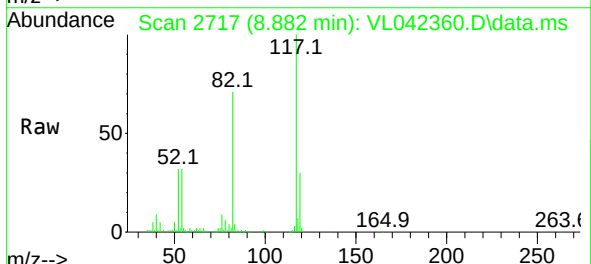
Manual Integrations
APPROVED

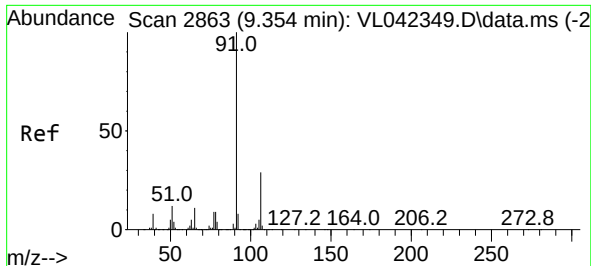
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2717
Delta R.T. 0.000 min
Lab File: VL042360.D
Acq: 17 Apr 2025 16:44

Tgt Ion:117 Resp: 308280
Ion Ratio Lower Upper
117 100
82 68.8 57.8 86.6
119 31.5 25.2 37.8





#58

Ethyl Benzene

Concen: 0.507 ppbv

RT: 9.358 min Scan# 21

Delta R.T. 0.003 min

Lab File: VL042360.D

Acq: 17 Apr 2025 16:44

Instrument :

MSVOA_L

ClientSampleId :

IA-B14-1-3242025DL

Tgt Ion: 91 Resp: 30940

Ion Ratio Lower Upper

91 100

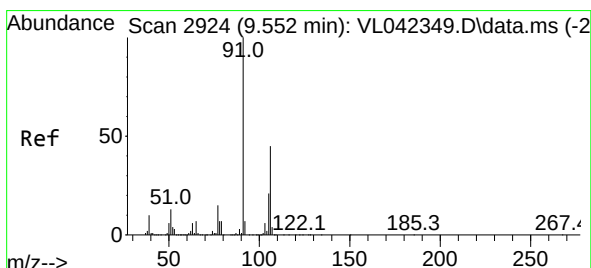
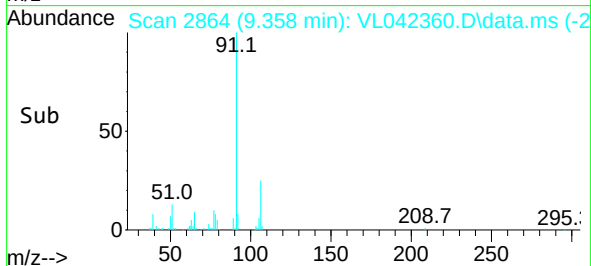
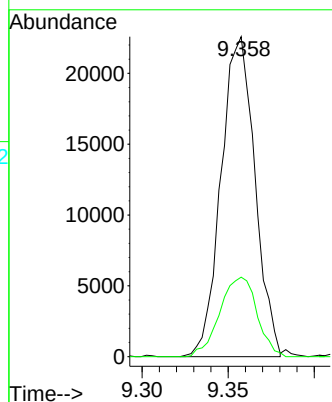
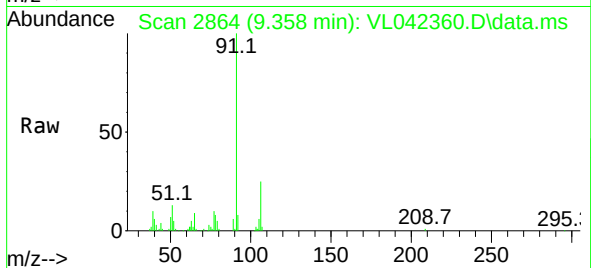
106 24.8 23.0 34.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#59

m/p-Xylene

Concen: 2.225 ppbv m

RT: 9.532 min Scan# 2918

Delta R.T. -0.019 min

Lab File: VL042360.D

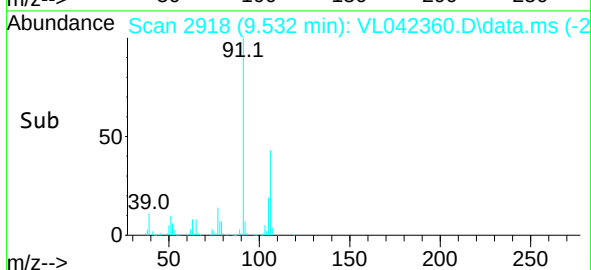
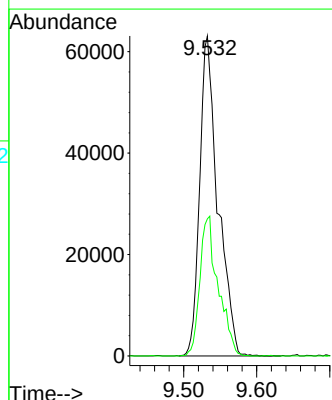
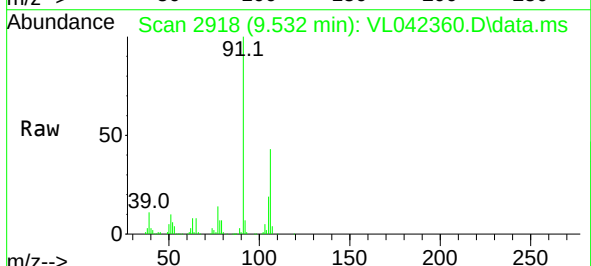
Acq: 17 Apr 2025 16:44

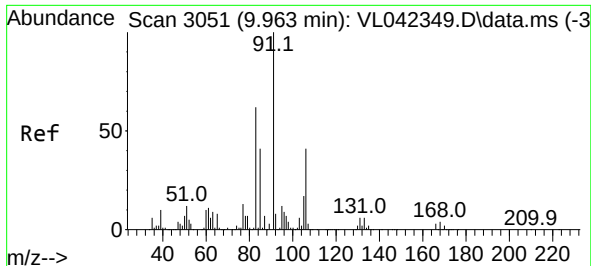
Tgt Ion: 91 Resp: 109489

Ion Ratio Lower Upper

91 100

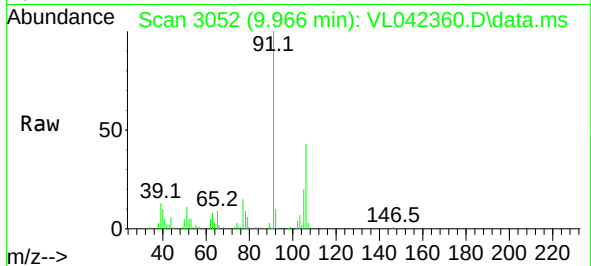
106 43.8 35.4 53.2





#60
o-Xylene
Concen: 0.408 ppbv
RT: 9.966 min Scan# 3051
Delta R.T. 0.003 min
Lab File: VL042360.D
Acq: 17 Apr 2025 16:44

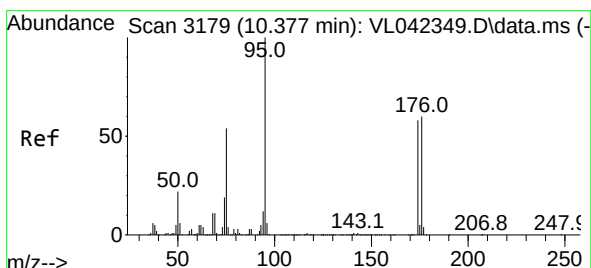
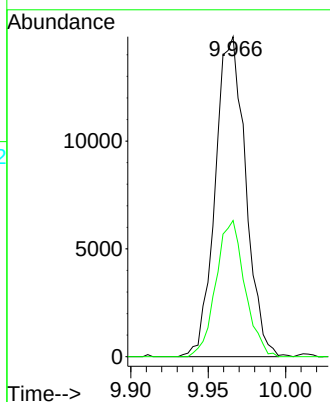
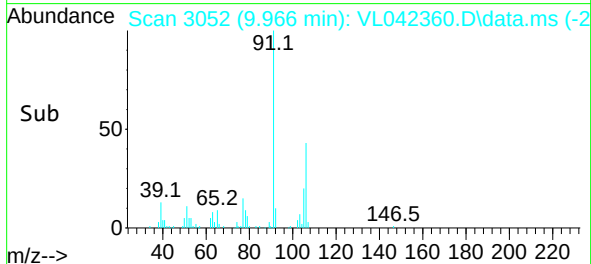
Instrument :
MSVOA_L
ClientSampleId :
IA-B14-1-3242025DL



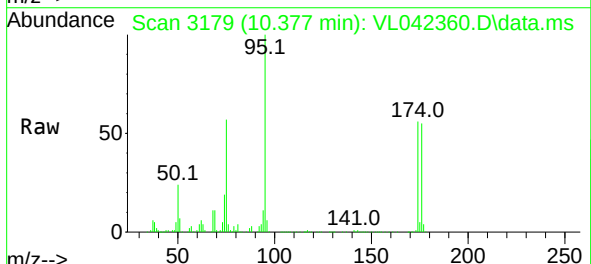
Tgt Ion: 91 Resp: 2022
Ion Ratio Lower Upper
91 100
106 40.4 21.1 63.4

Manual Integrations
APPROVED

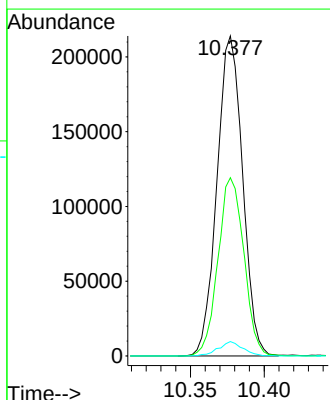
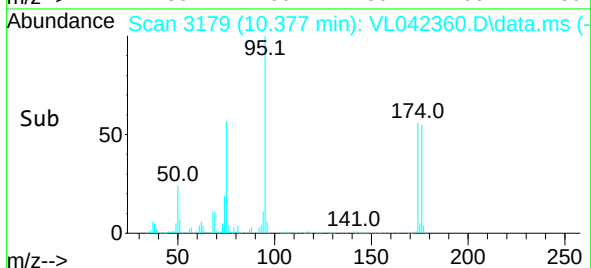
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 10.226 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.000 min
Lab File: VL042360.D
Acq: 17 Apr 2025 16:44



Tgt Ion: 95 Resp: 259047
Ion Ratio Lower Upper
95 100
174 56.2 48.5 72.7
175 4.3 3.7 5.5



Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/25/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	03/26/25
Client Sample ID:	IA-B10-3-3242025	SDG No.:	Q1665
Lab Sample ID:	Q1665-18	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
VL042321.D	1		04/11/25 15:36	VL041125

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.44	2.18	J	1.04	2.47	ug/m3
74-87-3	Chloromethane	0.61	1.26		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	0.19	1.07	J	0.90	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.16	1.23	U	1.23	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.090	0.63	U	0.63	3.49	ug/m3
75-65-0	tert-Butyl alcohol	0.45	1.36	J	0.58	1.52	ug/m3
142-82-5	Heptane	0.19	0.78	J	0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
67-64-1	Acetone	90.6	215	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	0.90	3.13		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	22.7	67.0	E	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	1.50	7.33		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	0.68	2.17		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	0.45	1.84	J	0.37	2.05	ug/m3
108-88-3	Toluene	0.54	2.03		0.41	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.070	0.38	U	0.38	2.73	ug/m3

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/25/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	03/26/25
Client Sample ID:	IA-B10-3-3242025	SDG No.:	Q1665
Lab Sample ID:	Q1665-18	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
VL042321.D	1		04/11/25 15:36	VL041125

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.070	0.60	U	0.60	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.070	0.54	U	0.54	0.77	ug/m3
127-18-4	Tetrachloroethene	0.040	0.27		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	UQ	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	0.16	0.79	J	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	UQ	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	2.70	9.52		0.39	1.76	ug/m3
107-05-1	Allyl Chloride	0.15	0.47	U	0.47	1.57	ug/m3
123-91-1	1,4-Dioxane	0.21	0.76	U	0.76	1.80	ug/m3
80-62-6	Methyl Methacrylate	0.090	0.37	U	0.37	2.05	ug/m3

SURROGATES

460-00-4	1-Bromo-4-Fluorobenzene	9.40		70 (65) - 130 (135)	94%	SPK: 10
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INTERNAL STANDARDS

74-97-5	Bromochloromethane	184000	2.787
540-36-3	1,4-Difluorobenzene	454000	3.959
3114-55-4	Chlorobenzene-d5	391000	8.882

TENTATIVE IDENTIFIED COMPOUNDS

75-45-6	Chlorodifluoromethane	0.18	J	1.47	ppbv
115-07-1	Propene	5.00	J	1.49	ppbv
000106-97-8	Butane	1.30	J	1.62	ppbv

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/25/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	03/26/25
Client Sample ID:	IA-B10-3-3242025	SDG No.:	Q1665
Lab Sample ID:	Q1665-18	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
VL042321.D	1		04/11/25 15:36	VL041125

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
64-17-5	Ethanol	1400		J		1.72	ppbv
67-63-0	Isopropyl Alcohol	86.2		J		1.89	ppbv
007452-79-1	Butanoic acid, 2-methyl-, ethyl es	1.40		J		9.15	ppbv
018172-67-3	Bicyclo[3.1.1]heptane, 6,6-dimethy	1.10		J		11.4	ppbv
99-87-6	p-Isopropyltoluene	0.11		J		11.9	ppbv
005989-27-5	D-Limonene	18.0		J		12.0	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\VL041125\
 Data File : VL042321.D
 Acq On : 11 Apr 2025 15:36
 Operator : SY/MD
 Sample : Q1665-18
 Misc : 400mL/MSVOA_L
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B10-3-3242025

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/16/2025
 Supervised By :Mahesh Dadoda 04/17/2025

Quant Time: Apr 11 23:01:40 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

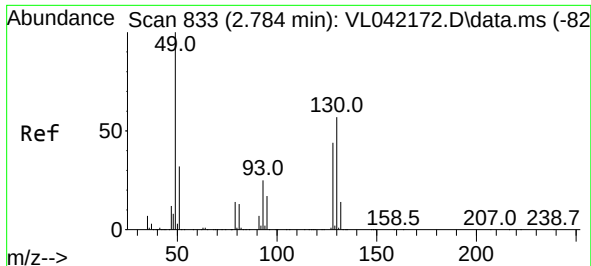
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Fri Mar 28 02:00:52 2025

Response via : Initial Calibration

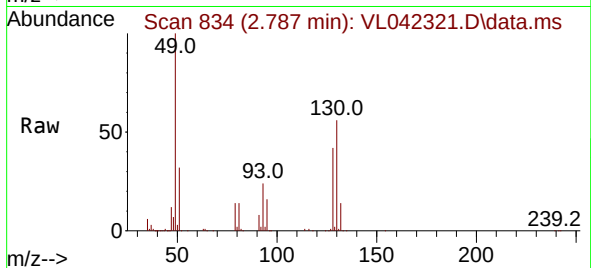
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.787	49	184452	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	454008	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	391031	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	301415	9.386	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.900%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	11984	0.440	ppbv	90
3) Chlorodifluoromethane	1.473	51	5086m	0.183	ppbv	
4) Chloromethane	1.531	50	6779	0.609	ppbv	99
9) Propene	1.486	41	63490m	4.979	ppbv	
10) Heptane	4.975	43	6471m	0.191	ppbv	
11) Trichlorofluoromethane	1.877	101	5150	0.194	ppbv	94
13) Ethanol	1.722	45	1721714	1428.217	ppbv	97
15) Acetone	1.832	43	2336283	90.565	ppbv #	69
17) tert-Butyl alcohol	2.043	59	14483m	0.451	ppbv	
19) Isopropyl Alcohol	1.887	45	1254135	86.165	ppbv #	41
20) Methylene Chloride	2.062	84	8636	0.899	ppbv #	76
26) Hexane	2.826	57	70462	2.725	ppbv	92
29) Chloroform	2.848	83	55947	1.478	ppbv	100
34) 2-Butanone	2.557	43	746435	22.673	ppbv	99
35) Carbon Tetrachloride	3.764	117	2892m	0.082	ppbv	
36) Benzene	3.654	78	30723	0.683	ppbv	95
50) 4-Methyl-2-Pentanone	5.768	43	23404m	0.449	ppbv	
52) Tetrachloroethene	8.225	164	653m	0.037	ppbv	
53) Toluene	6.933	91	28699	0.538	ppbv	98
59) m/p-Xylene	9.529	91	11090m	0.200	ppbv	
60) o-Xylene	9.959	91	6064m	0.109	ppbv	
69) p-Isopropyltoluene	11.927	119	10463	0.114	ppbv #	93
74) 1,2,4-Trimethylbenzene	11.536	105	10882	0.156	ppbv #	68

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



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

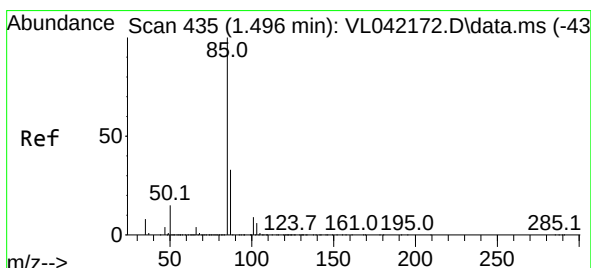
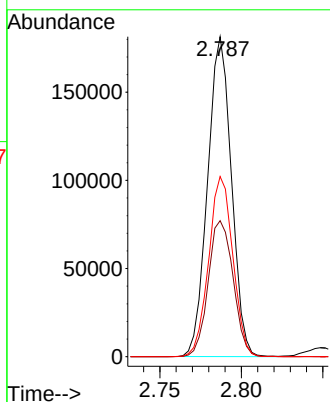
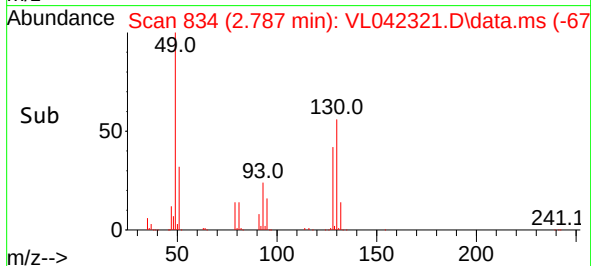
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-3-3242025



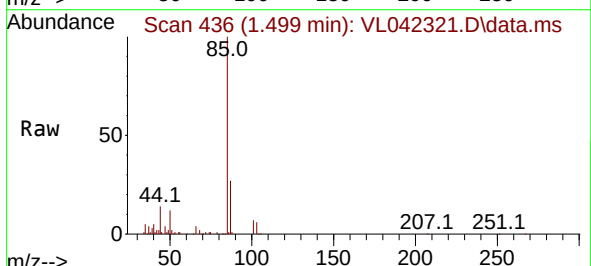
Tgt Ion: 49 Resp: 184452
Ion Ratio Lower Upper
49 100
128 44.5 22.9 68.5
130 57.1 28.8 86.4

Manual Integrations
APPROVED

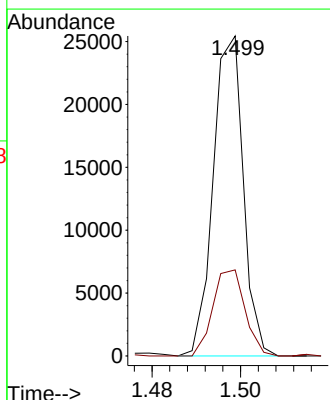
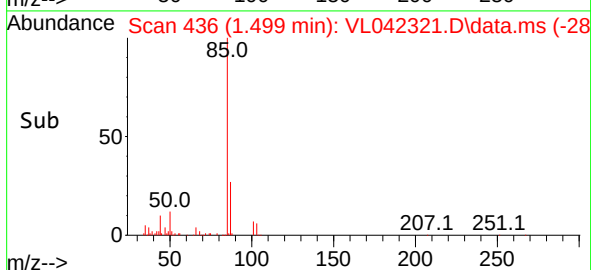
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

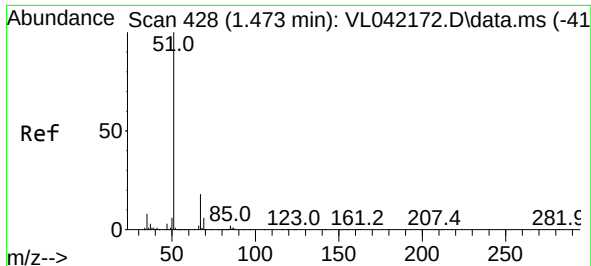


#2
Dichlorodifluoromethane
Concen: 0.440 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36



Tgt Ion: 85 Resp: 11984
Ion Ratio Lower Upper
85 100
87 26.9 26.1 39.1





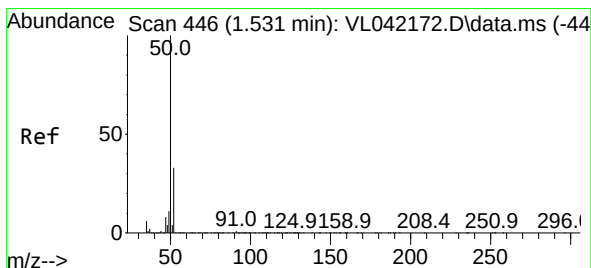
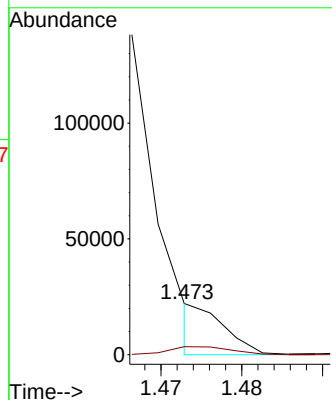
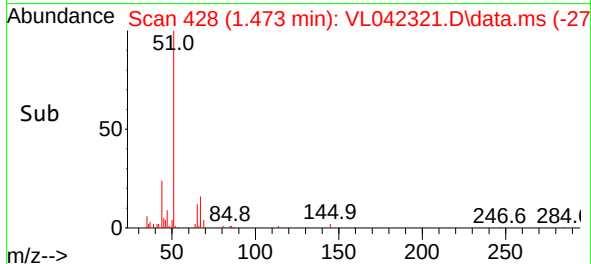
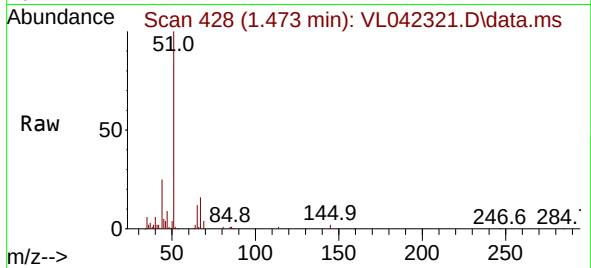
#3
Chlorodifluoromethane
Concen: 0.183 ppbv m
RT: 1.473 min Scan# 428
Delta R.T. -0.000 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

Instrument :
MSVOA_L
ClientSampleId :
IA-B10-3-3242025

Tgt Ion: 51 Resp: 5080
Ion Ratio Lower Upper
51 100
67 37.0 15.0 22.6

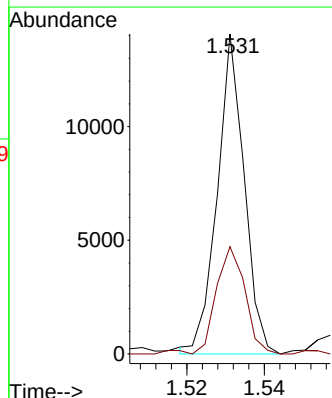
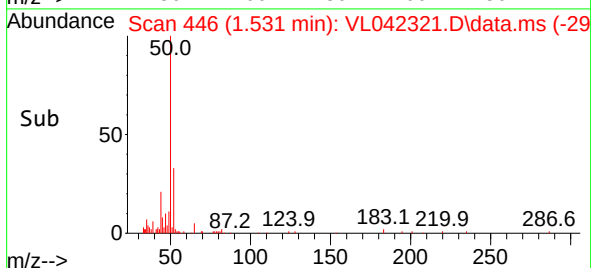
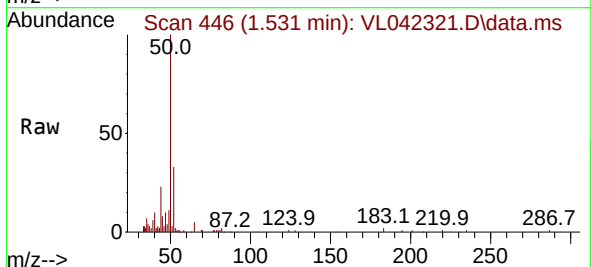
Manual Integrations
APPROVED

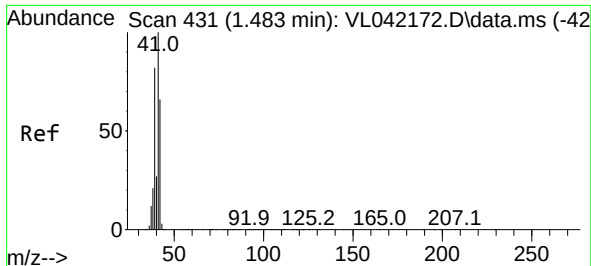
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#4
Chloromethane
Concen: 0.609 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

Tgt Ion: 50 Resp: 6779
Ion Ratio Lower Upper
50 100
52 33.0 26.1 39.1





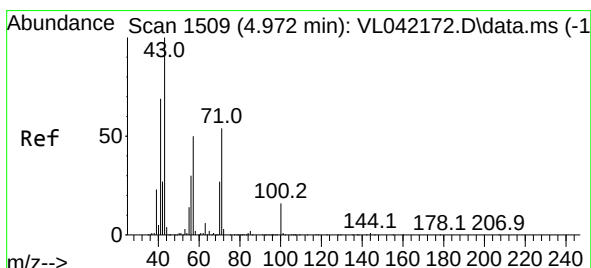
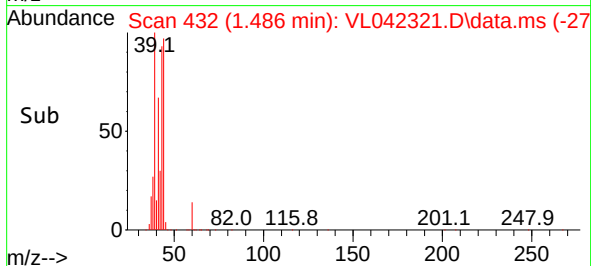
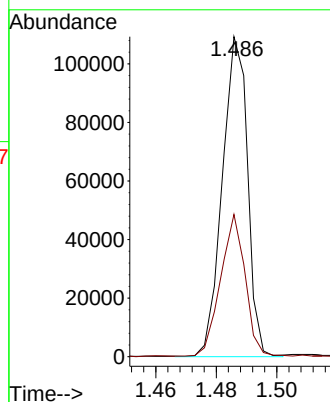
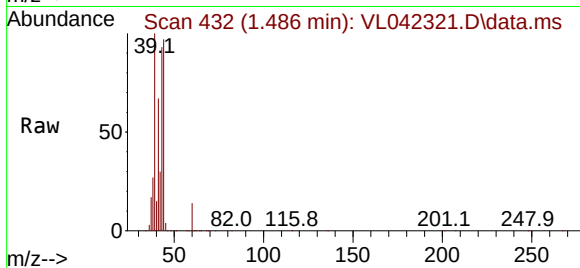
#9
Propene
Concen: 4.979 ppbv m
RT: 1.486 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

Instrument :
MSVOA_L
ClientSampleId :
IA-B10-3-3242025

Tgt Ion: 41 Resp: 63490
Ion Ratio Lower Upper
41 100
42 119.1 55.4 83.2

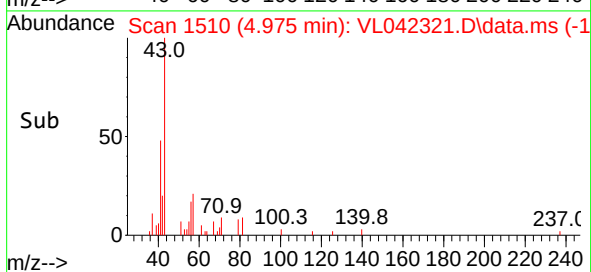
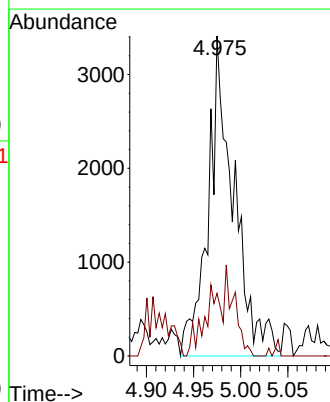
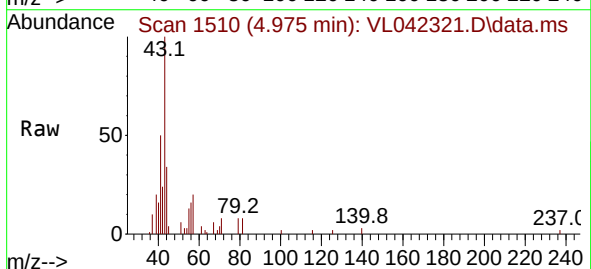
Manual Integrations
APPROVED

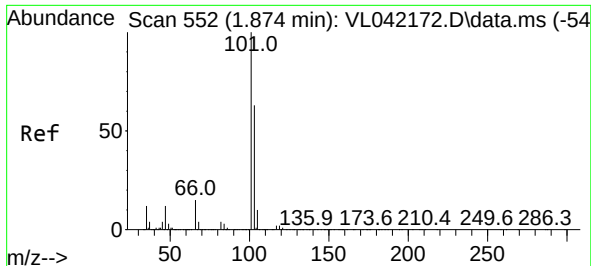
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#10
Heptane
Concen: 0.191 ppbv m
RT: 4.975 min Scan# 1510
Delta R.T. 0.003 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

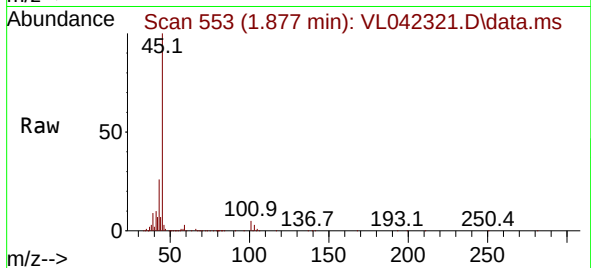
Tgt Ion: 43 Resp: 6471
Ion Ratio Lower Upper
43 100
57 0.0 39.4 59.2





#11
Trichlorofluoromethane
Concen: 0.194 ppbv
RT: 1.877 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

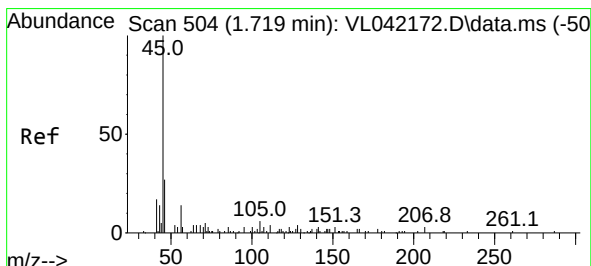
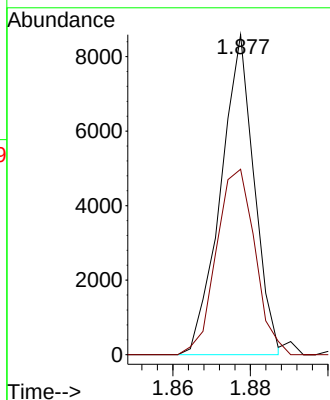
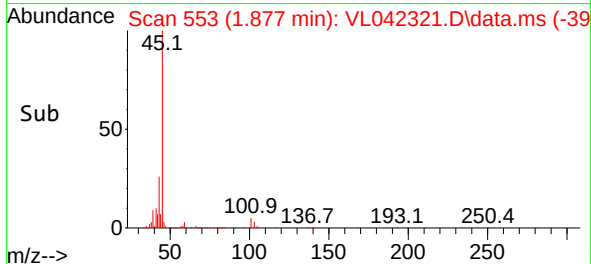
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-3-3242025



Tgt Ion:101 Resp: 5150
Ion Ratio Lower Upper
101 100
103 58.0 50.2 75.2

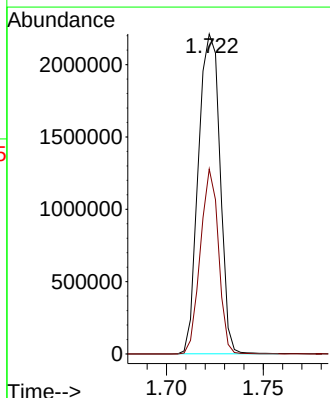
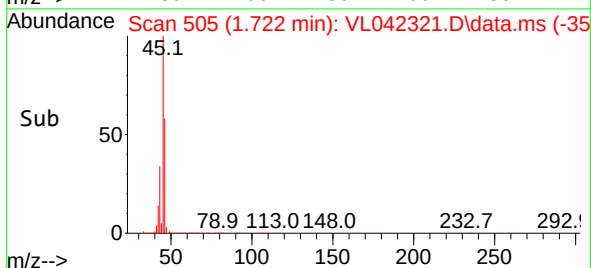
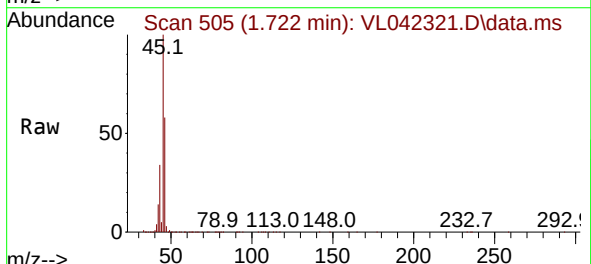
Manual Integrations
APPROVED

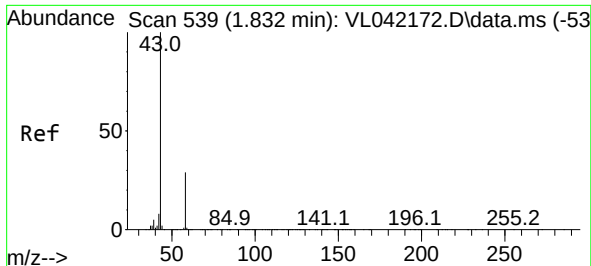
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#13
Ethanol
Concen: 1428.217 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

Tgt Ion: 45 Resp: 1721714
Ion Ratio Lower Upper
45 100
46 48.6 20.2 80.8





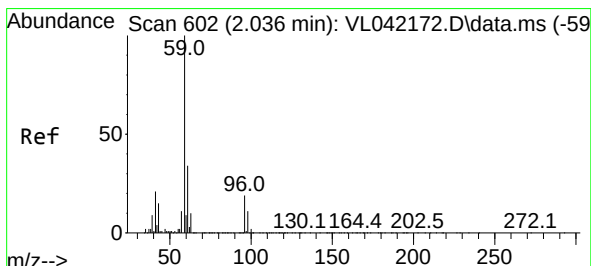
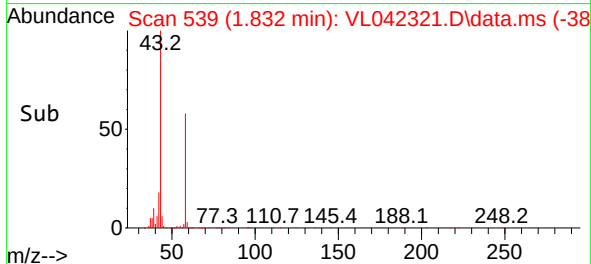
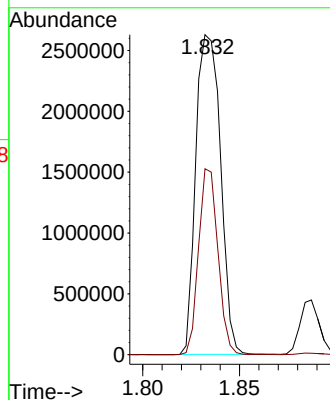
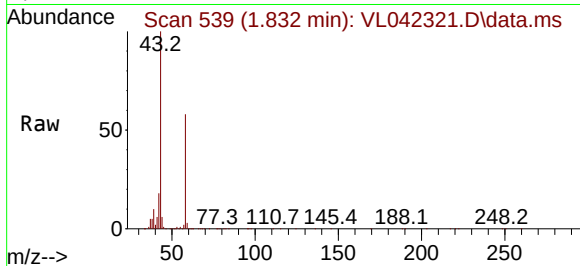
#15
Acetone
Concen: 90.565 ppbv
RT: 1.832 min Scan# 51
Delta R.T. -0.000 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

Instrument :
MSVOA_L
ClientSampleId :
IA-B10-3-3242025

Tgt Ion: 43 Resp: 233628
Ion Ratio Lower Upper
43 100
58 45.7 23.2 34.8

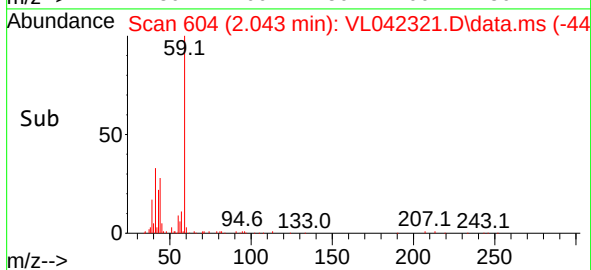
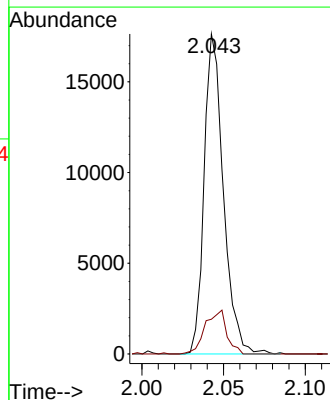
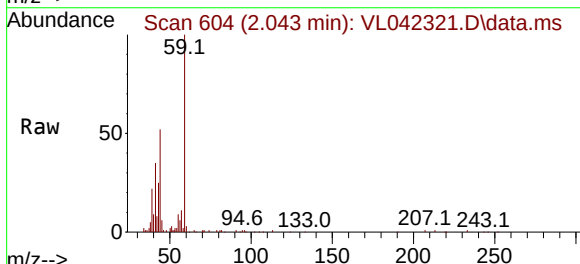
Manual Integrations
APPROVED

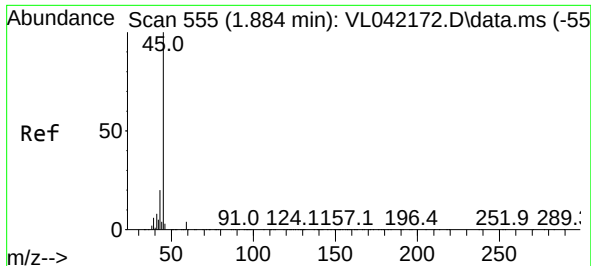
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#17
tert-Butyl alcohol
Concen: 0.451 ppbv m
RT: 2.043 min Scan# 604
Delta R.T. 0.006 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

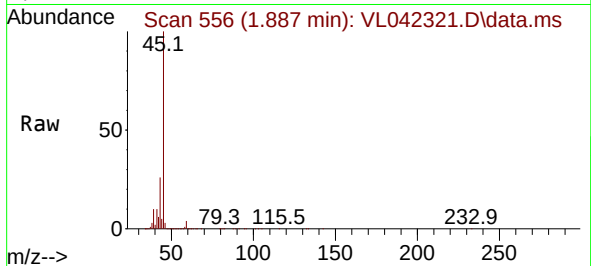
Tgt Ion: 59 Resp: 14483
Ion Ratio Lower Upper
59 100
57 33.0 8.9 13.3





#19
Isopropyl Alcohol
Concen: 86.165 ppbv
RT: 1.887 min Scan# 511
Delta R.T. 0.003 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

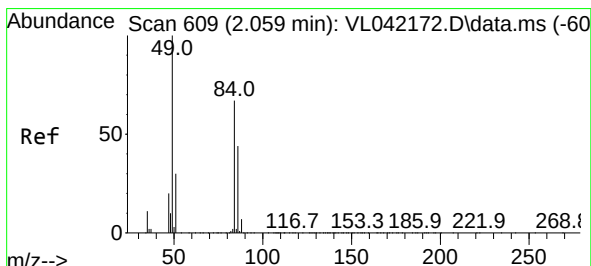
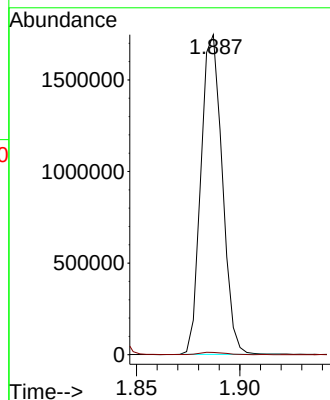
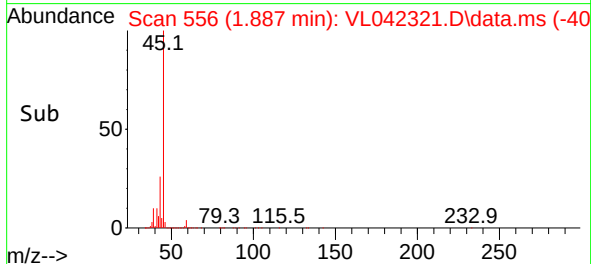
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-3-3242025



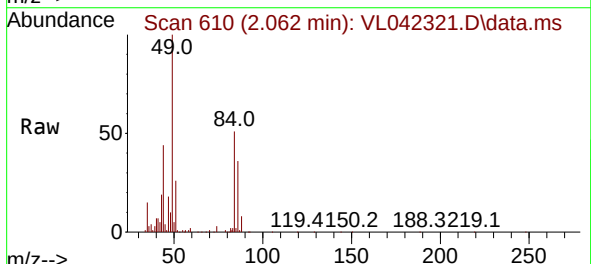
Tgt Ion: 45 Resp: 125413
Ion Ratio Lower Upper
45 100
58 85.1 36.9 55.3

Manual Integrations
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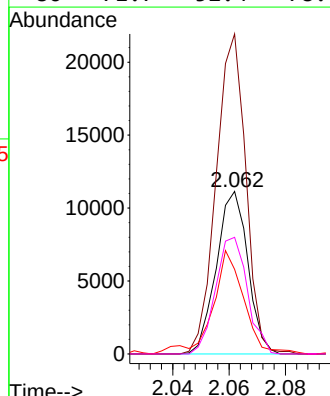
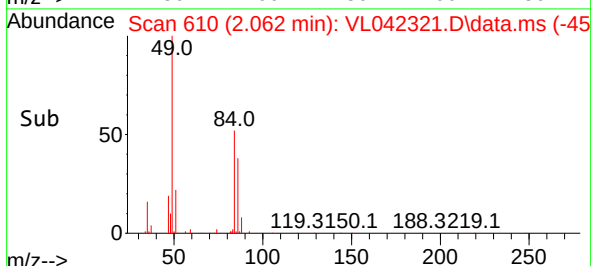
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

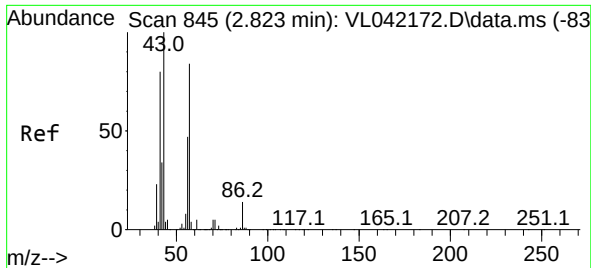


#20
Methylene Chloride
Concen: 0.899 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36



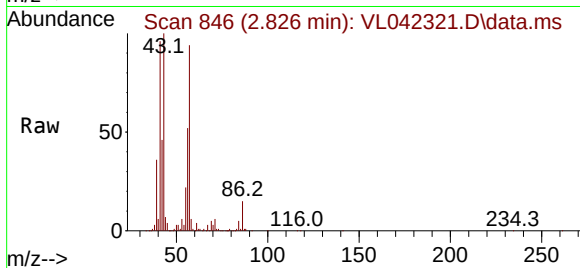
Tgt Ion: 84 Resp: 8636
Ion Ratio Lower Upper
84 100
49 196.9 120.2 180.4#
51 49.7 37.4 56.0
86 71.7 52.4 78.6





#26
Hexane
Concen: 2.725 ppbv
RT: 2.826 min Scan# 845
Delta R.T. 0.003 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

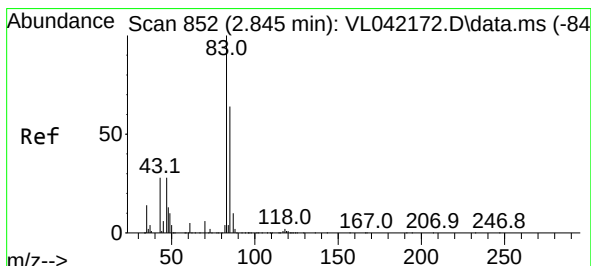
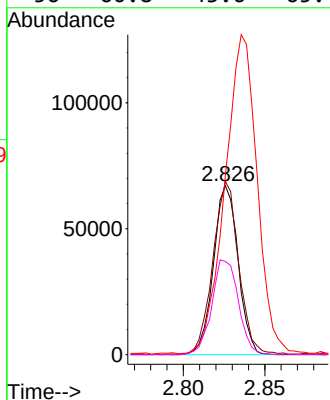
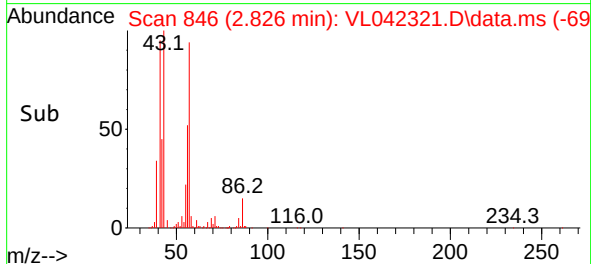
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-3-3242025



Tgt Ion: 57 Resp: 70462
Ion Ratio Lower Upper
57 100
41 107.0 76.6 114.8
43 249.4 207.8 311.8
56 60.8 43.6 65.4

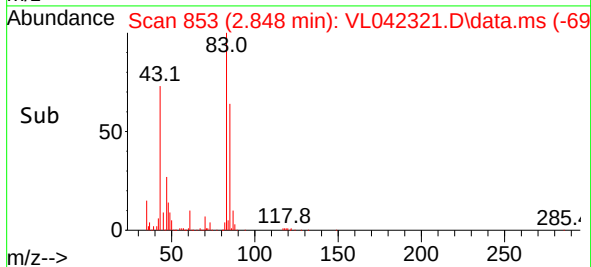
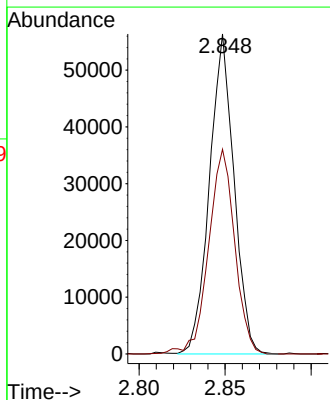
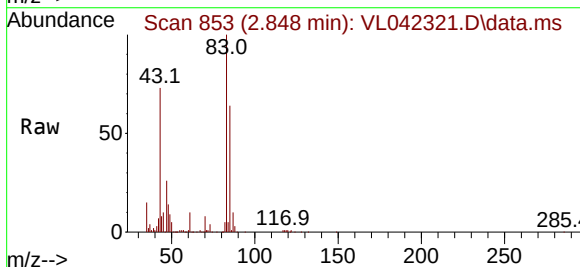
Manual Integrations
APPROVED

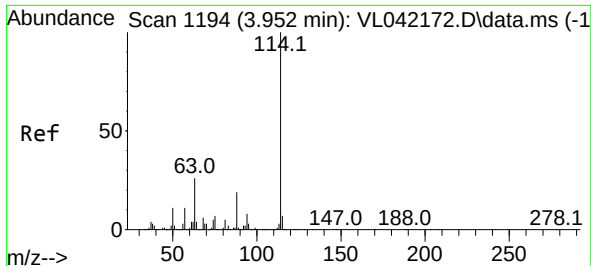
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#29
Chloroform
Concen: 1.478 ppbv
RT: 2.848 min Scan# 853
Delta R.T. 0.003 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

Tgt Ion: 83 Resp: 55947
Ion Ratio Lower Upper
83 100
85 64.0 51.4 77.2





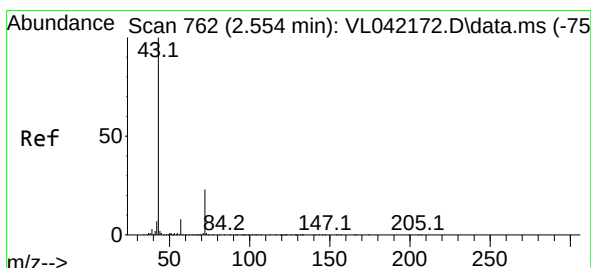
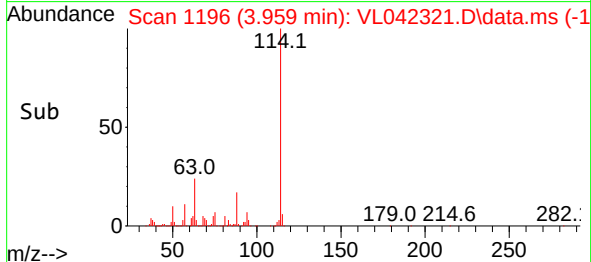
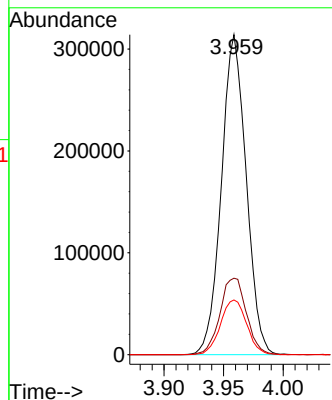
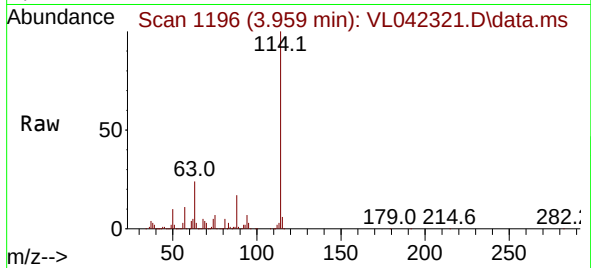
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. 0.006 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

Instrument :
MSVOA_L
ClientSampleId :
IA-B10-3-3242025

Tgt Ion:114 Resp: 454008
Ion Ratio Lower Upper
114 100
63 25.7 20.7 31.1
88 18.1 15.0 22.4

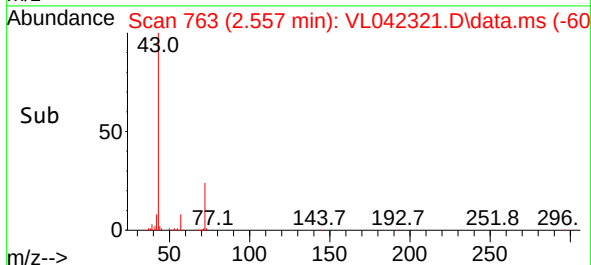
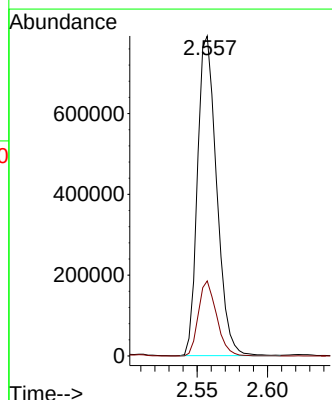
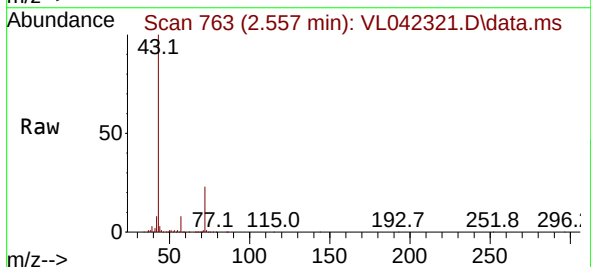
Manual Integrations
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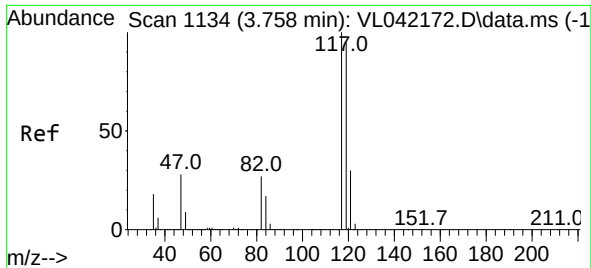
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#34
2-Butanone
Concen: 22.673 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.003 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

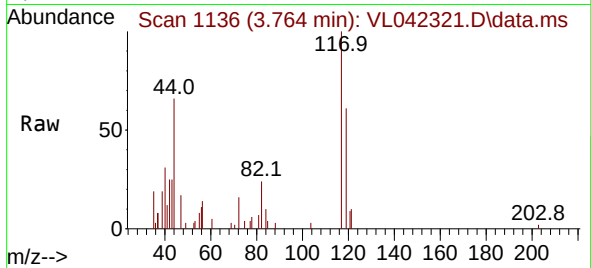
Tgt Ion: 43 Resp: 746435
Ion Ratio Lower Upper
43 100
72 22.4 18.2 27.2





#35
Carbon Tetrachloride
Concen: 0.082 ppbv m
RT: 3.764 min Scan# 1134
Delta R.T. 0.006 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

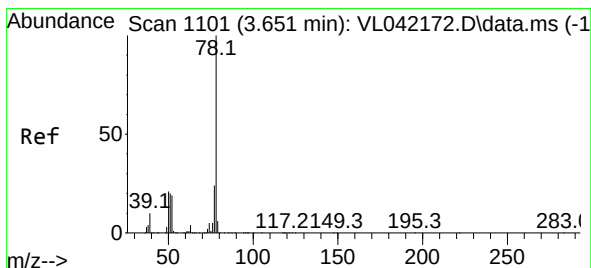
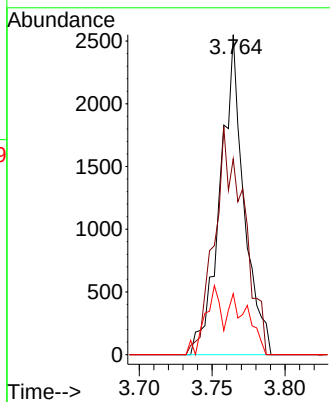
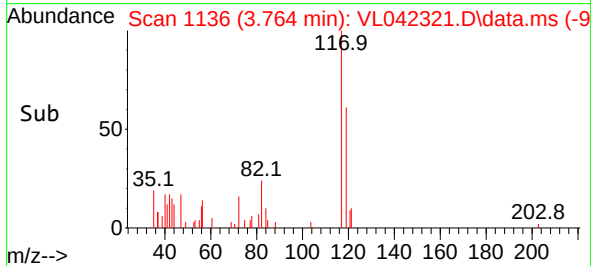
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-3-3242025



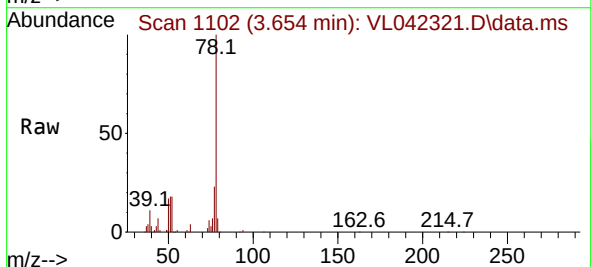
Tgt Ion: 117 Resp: 2892
Ion Ratio Lower Upper
117 100
119 61.2 76.2 114.2
121 10.2 24.2 36.4

Manual Integrations
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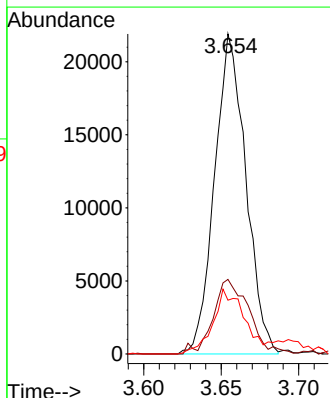
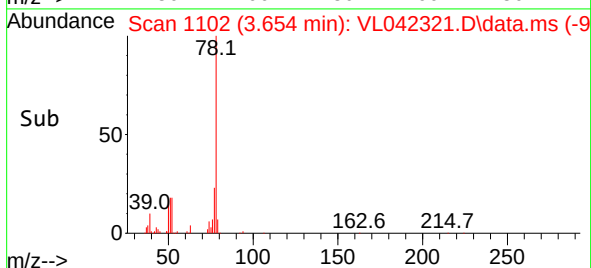
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

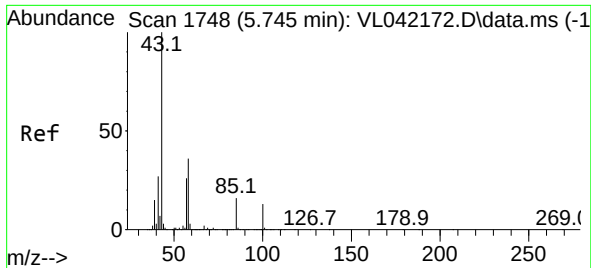


#36
Benzene
Concen: 0.683 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. 0.003 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36



Tgt Ion: 78 Resp: 30723
Ion Ratio Lower Upper
78 100
77 23.3 19.1 28.7
50 16.8 16.6 24.8





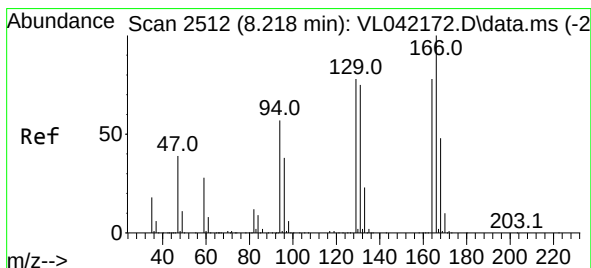
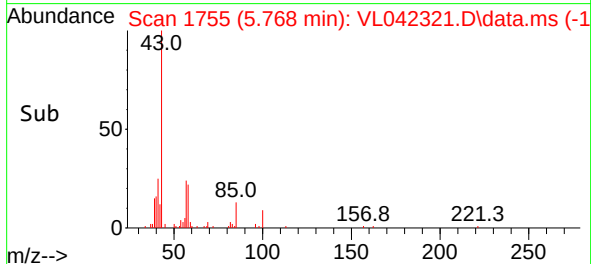
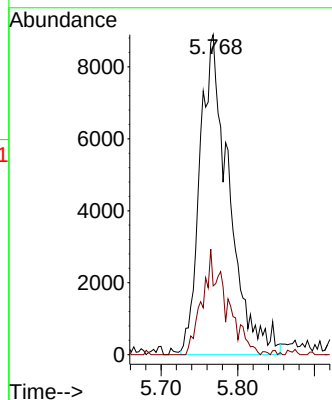
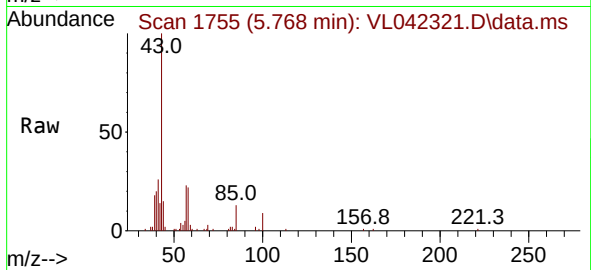
#50
4-Methyl-2-Pentanone
Concen: 0.449 ppbv m
RT: 5.768 min Scan# 1755
Delta R.T. 0.022 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

Instrument :
MSVOA_L
ClientSampleId :
IA-B10-3-3242025

Tgt Ion: 43 Resp: 23404
Ion Ratio Lower Upper
43 100
58 0.0 29.0 43.6

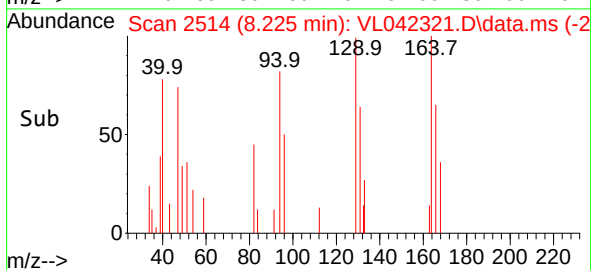
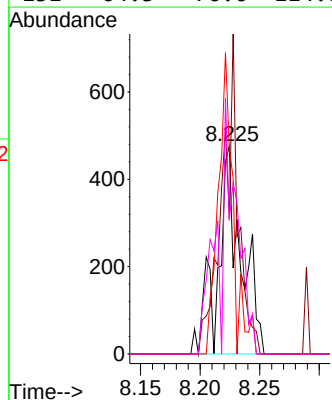
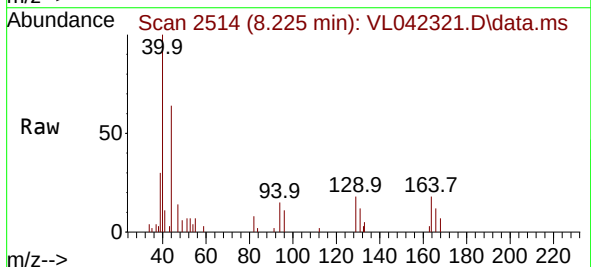
Manual Integrations
APPROVED

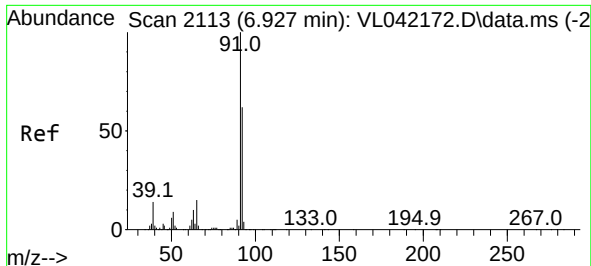
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#52
Tetrachloroethene
Concen: 0.037 ppbv m
RT: 8.225 min Scan# 2514
Delta R.T. 0.006 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

Tgt Ion:164 Resp: 653
Ion Ratio Lower Upper
164 100
166 64.9 102.5 153.7#
129 98.9 79.8 119.8
131 64.3 76.6 114.8#





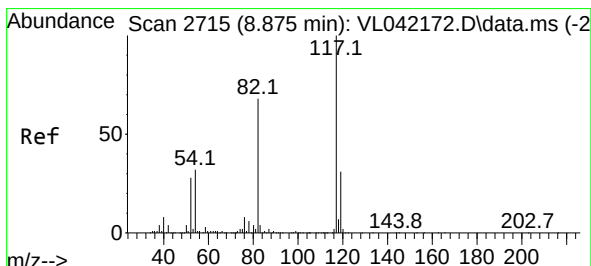
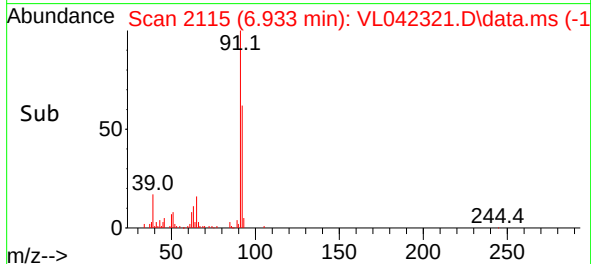
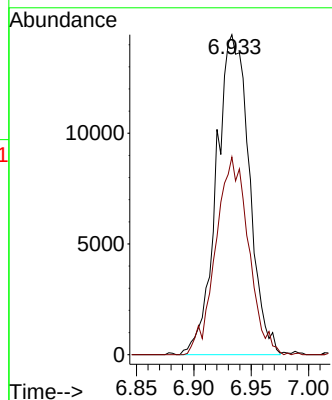
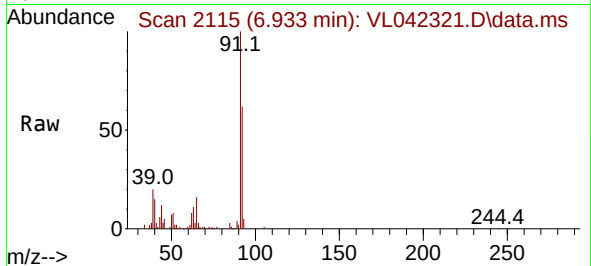
#53
Toluene
Concen: 0.538 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. 0.006 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

Instrument :
MSVOA_L
ClientSampleId :
IA-B10-3-3242025

Tgt Ion: 91 Resp: 2869
Ion Ratio Lower Upper
91 100
92 61.8 48.4 72.6

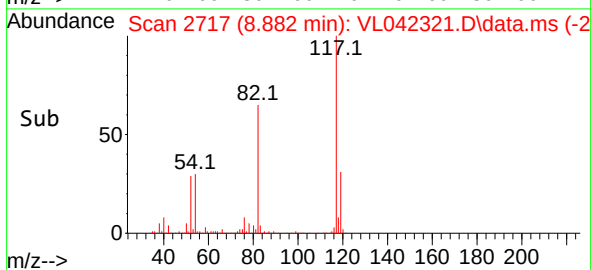
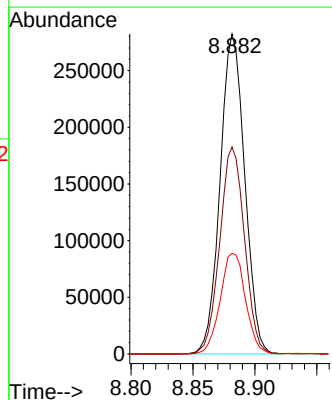
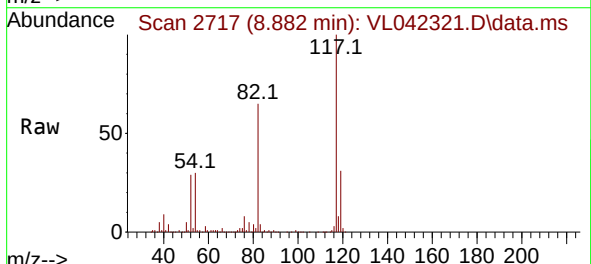
Manual Integrations
APPROVED

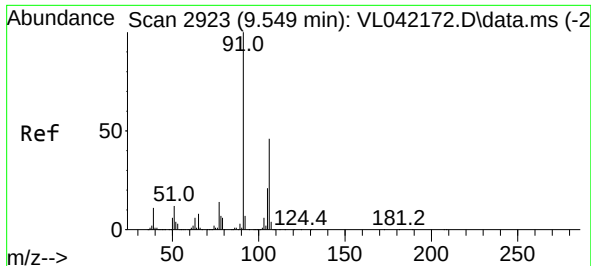
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2717
Delta R.T. 0.006 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

Tgt Ion:117 Resp: 391031
Ion Ratio Lower Upper
117 100
82 65.2 55.8 83.6
119 32.4 25.5 38.3





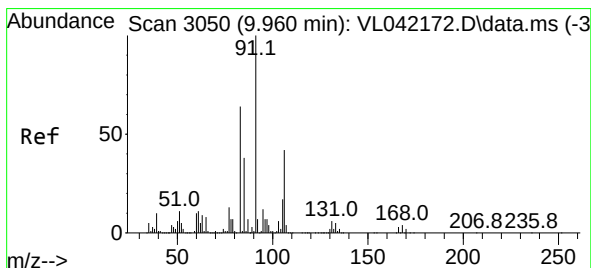
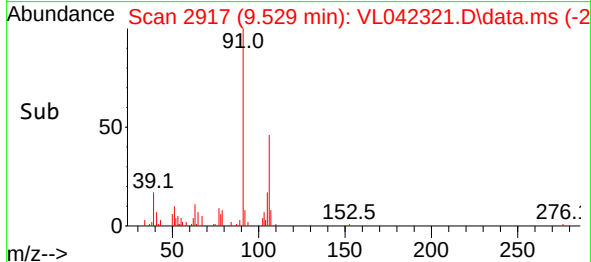
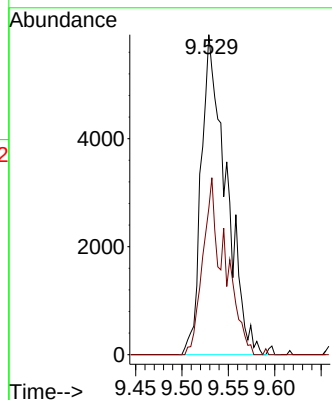
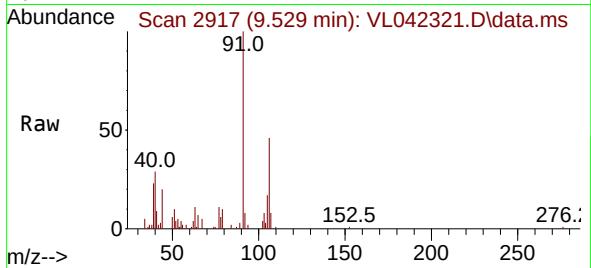
#59
m/p-Xylene
Concen: 0.200 ppbv m
RT: 9.529 min Scan# 2917
Delta R.T. -0.020 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

Instrument :
MSVOA_L
ClientSampleId :
IA-B10-3-3242025

Tgt Ion: 91 Resp: 11090
Ion Ratio Lower Upper
91 100
106 0.0 36.4 54.6

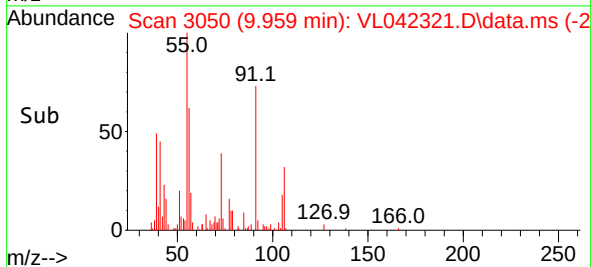
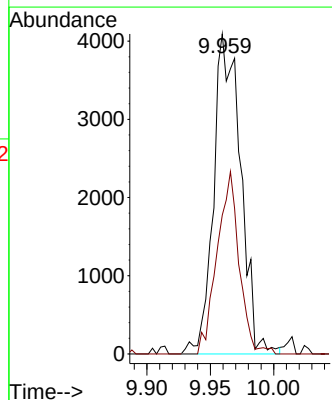
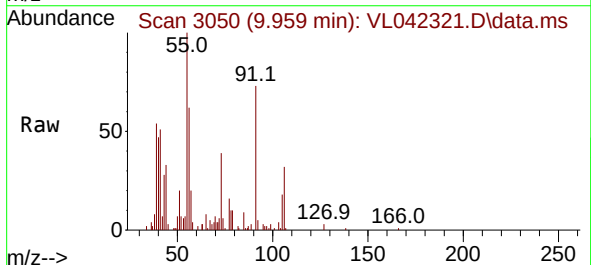
Manual Integrations
APPROVED

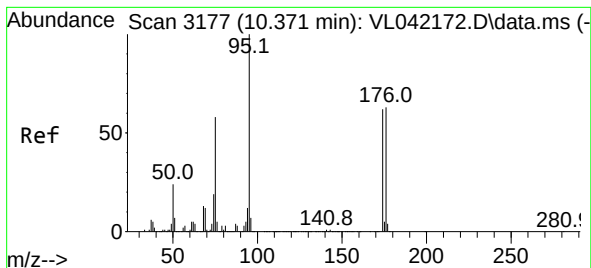
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#60
o-Xylene
Concen: 0.109 ppbv m
RT: 9.959 min Scan# 3050
Delta R.T. -0.000 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

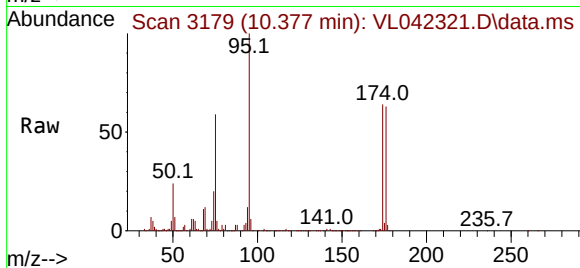
Tgt Ion: 91 Resp: 6064
Ion Ratio Lower Upper
91 100
106 46.6 20.8 62.5





#68
1-Bromo-4-Fluorobenzene
Concen: 9.386 ppbv
RT: 10.377 min Scan# 3177
Delta R.T. 0.006 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

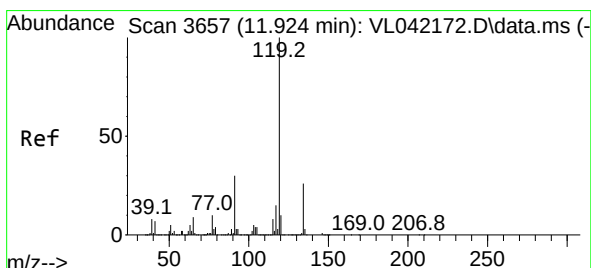
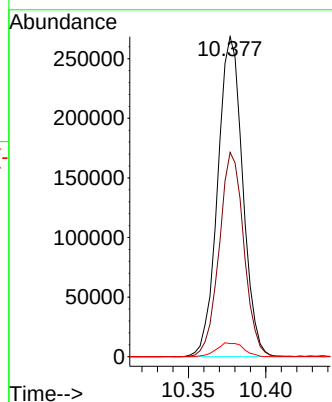
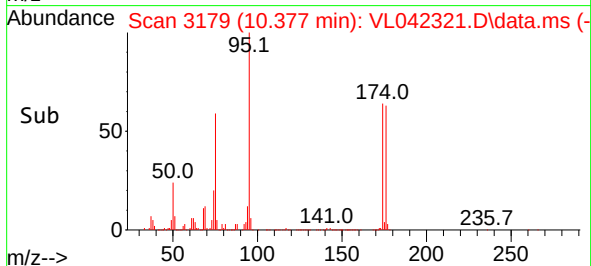
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-3-3242025



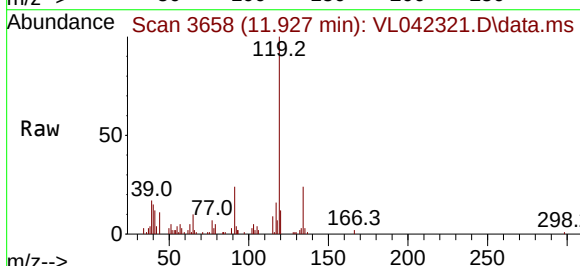
Tgt Ion: 95 Resp: 301415
Ion Ratio Lower Upper
95 100
174 63.4 50.6 76.0
175 4.7 3.8 5.6

Manual Integrations
APPROVED

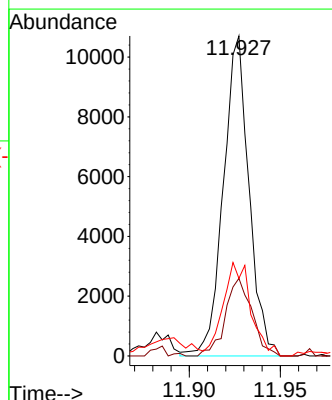
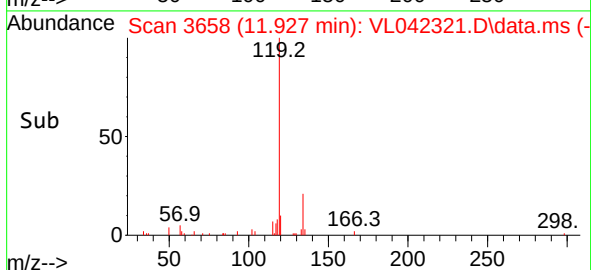
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

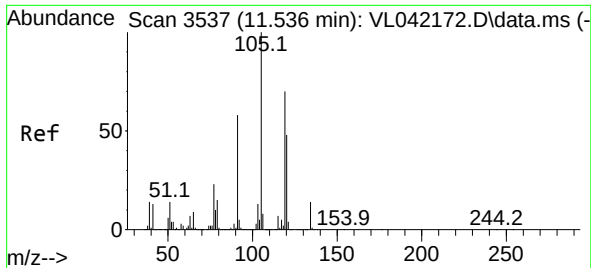


#69
p-Isopropyltoluene
Concen: 0.114 ppbv
RT: 11.927 min Scan# 3658
Delta R.T. 0.003 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36



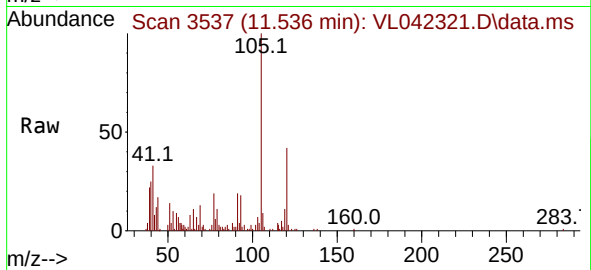
Tgt Ion:119 Resp: 10463
Ion Ratio Lower Upper
119 100
134 25.2 20.4 30.6
91 36.3 23.7 35.5#





#74
 1,2,4-Trimethylbenzene
 Concen: 0.156 ppbv
 RT: 11.536 min Scan# 30
 Delta R.T. -0.000 min
 Lab File: VL042321.D
 Acq: 11 Apr 2025 15:36

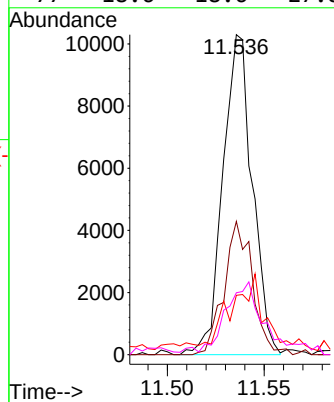
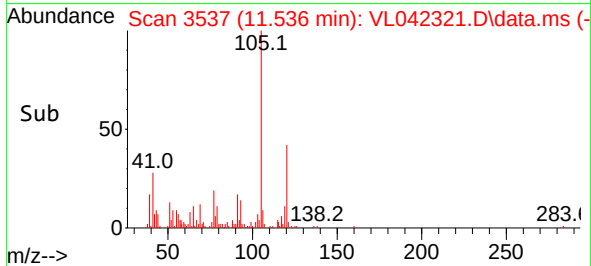
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B10-3-3242025



Tgt Ion:	105	Resp:	1088
Ion	Ratio	Lower	Upper
105	100		
120	40.0	38.6	58.0
91	15.8	46.2	69.2
77	18.6	18.6	27.8

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/16/2025
 Supervised By :Mahesh Dadoda 04/17/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042321.D
Acq On : 11 Apr 2025 15:36
Operator : SY/MD
Sample : Q1665-18
Misc : 400mL/MSVOA_L
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B10-3-3242025

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\VL032725AIR.M

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

Signal : TIC: VL042321.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	4517017	5153864	100.00%	18.717%
2	1.466	423	426	428	rVV	312649	159503	3.09%	0.579%
3	1.486	428	432	438	rVB2	749422	405028	7.86%	1.471%
4	1.557	450	454	461	rBV	697970	378399	7.34%	1.374%
5	1.622	470	474	478	rVB	152301	85941	1.67%	0.312%
6	1.722	500	505	518	rBV	4849867	3440613	66.76%	12.495%
7	1.832	535	539	549	rBV	5743431	4524378	87.79%	16.431%
8	1.887	551	556	568	rVB	2999529	2140699	41.54%	7.774%
9	2.557	757	763	774	rBV	1249370	1168551	22.67%	4.244%
10	2.787	826	834	840	rBV	665833	681609	13.23%	2.475%
11	2.829	840	847	862	rVB4	386924	723248	14.03%	2.627%
12	3.658	1092	1103	1108	rBV3	52362	79481	1.54%	0.289%
13	3.690	1108	1113	1129	rVB2	137575	209630	4.07%	0.761%
14	3.959	1183	1196	1210	rBV	802244	1219447	23.66%	4.429%
15	5.765	1741	1754	1769	rBV3	24314	64903	1.26%	0.236%
16	6.933	2102	2115	2128	rBV2	40994	90852	1.76%	0.330%
17	7.694	2337	2350	2359	rBV4	42230	76460	1.48%	0.278%
18	8.267	2516	2527	2536	rBV3	66192	104592	2.03%	0.380%
19	8.882	2703	2717	2728	rBV	979887	1401276	27.19%	5.089%
20	9.153	2790	2801	2813	rBV2	122986	188629	3.66%	0.685%
21	9.632	2940	2949	2960	rBV2	44595	68239	1.32%	0.248%
22	9.946	3034	3046	3053	rBV6	71633	130873	2.54%	0.475%
23	10.377	3163	3179	3188	rBV	1287388	1451377	28.16%	5.271%
24	10.807	3305	3312	3321	rBV3	46584	56863	1.10%	0.207%
25	11.426	3490	3503	3513	rBV3	115794	147995	2.87%	0.537%
26	11.536	3527	3537	3549	rVB6	47089	90827	1.76%	0.330%
27	12.044	3684	3694	3703	rBV	2571263	2526939	49.03%	9.177%
28	12.442	3801	3817	3824	rBV8	25442	58837	1.14%	0.214%
29	13.387	4100	4109	4118	rBV2	766919	706774	13.71%	2.567%

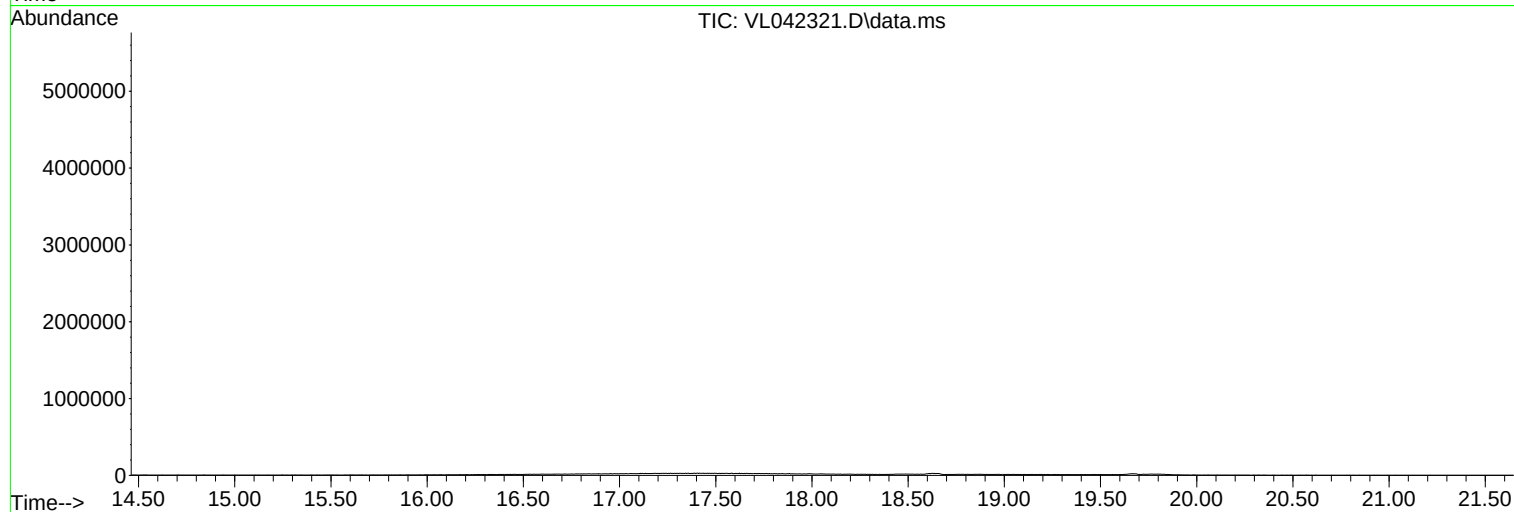
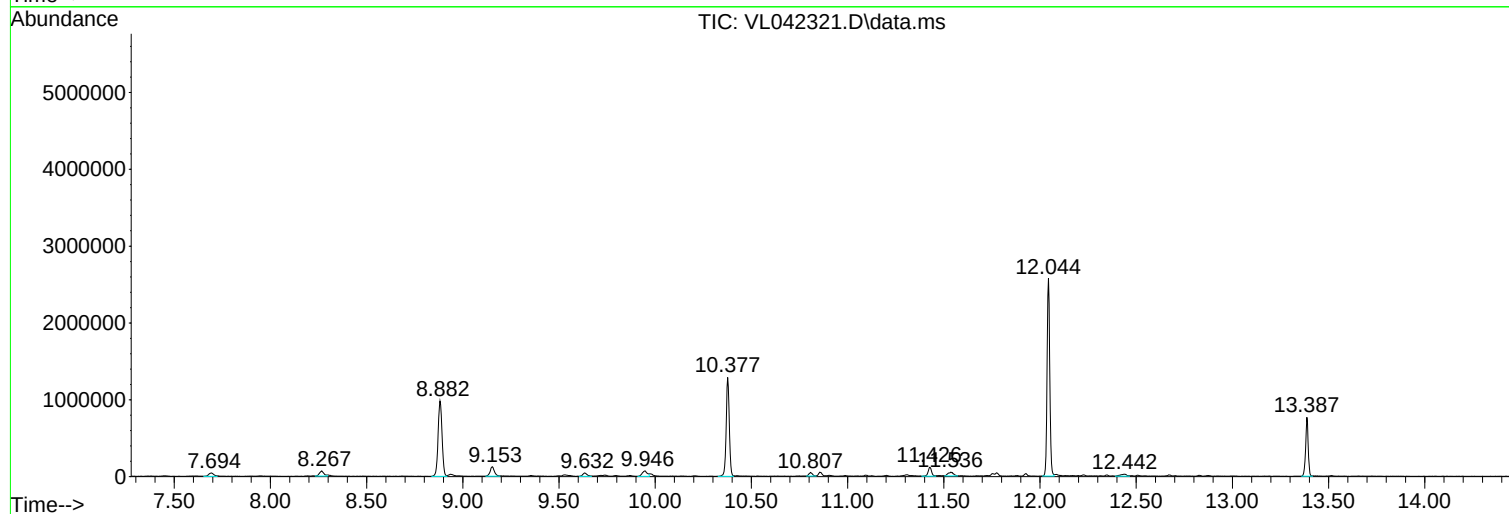
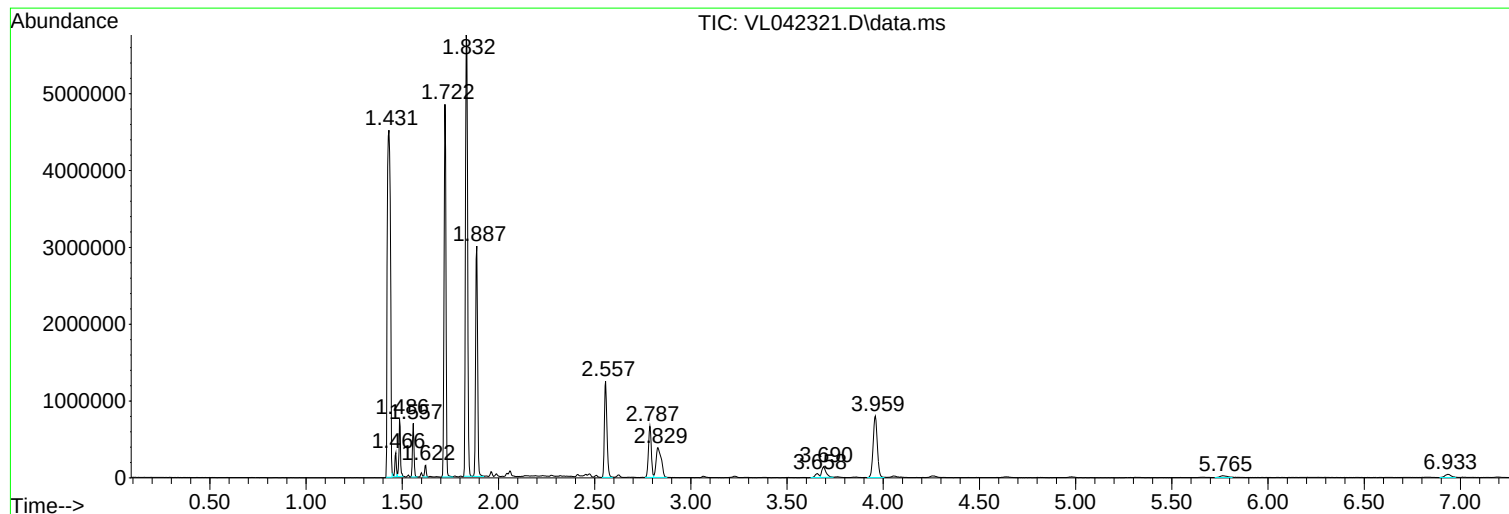
Sum of corrected areas: 27535827

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042321.D
Acq On : 11 Apr 2025 15:36
Operator : SY/MD
Sample : Q1665-18
Misc : 400mL/MSVOA_L
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B10-3-3242025

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

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042321.D
Acq On : 11 Apr 2025 15:36
Operator : SY/MD
Sample : Q1665-18
Misc : 400mL/MSVOA_L
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B10-3-3242025

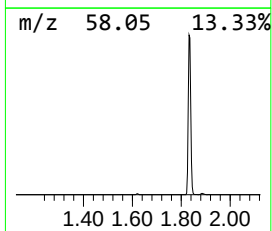
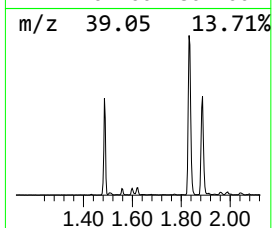
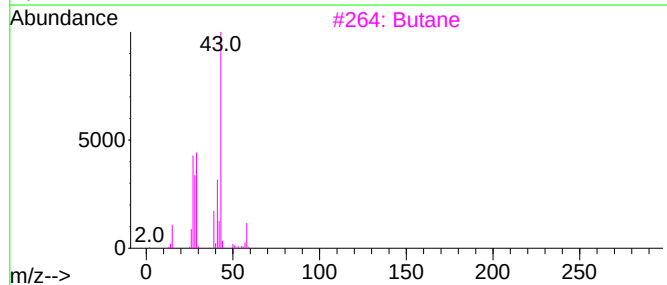
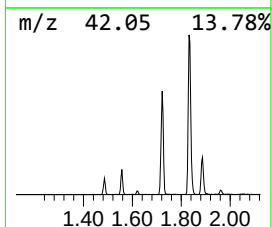
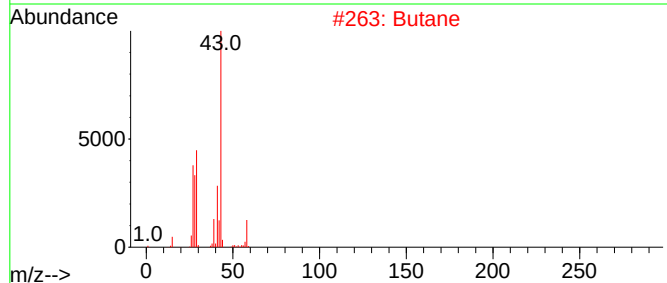
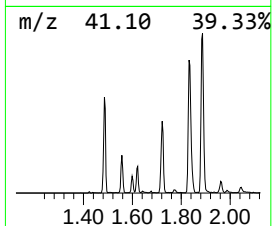
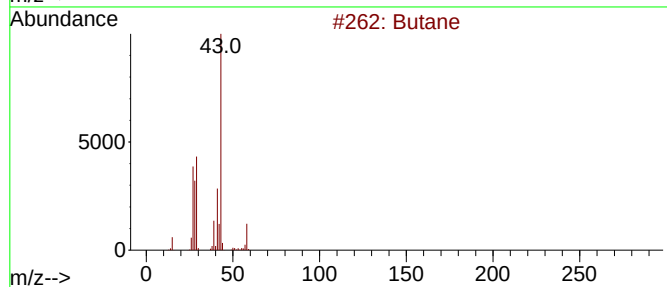
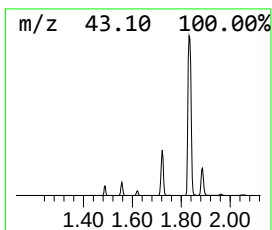
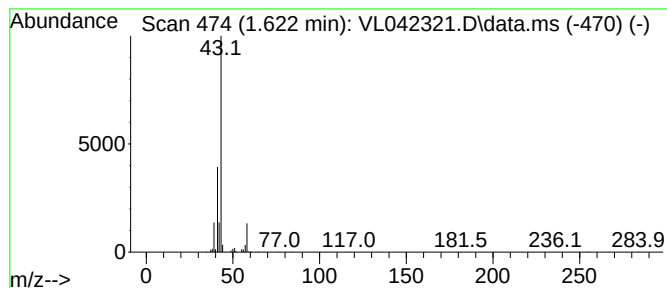
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 1 Butane Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.622	1.26 ppbv	85941	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	59
5	Diazene, dimethyl-			58	C2H6N2	000503-28-6	4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042321.D
Acq On : 11 Apr 2025 15:36
Operator : SY/MD
Sample : Q1665-18
Misc : 400mL/MSVOA_L
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B10-3-3242025

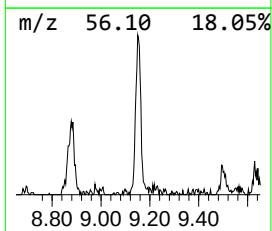
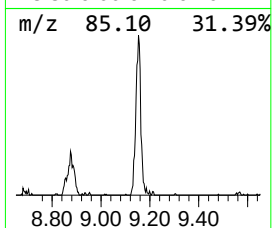
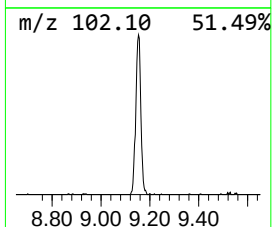
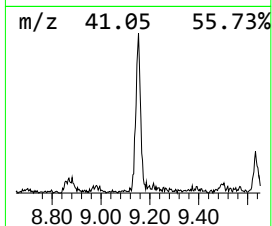
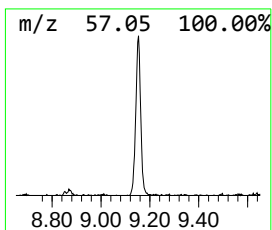
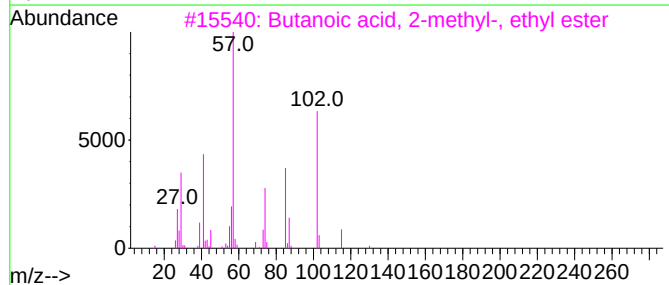
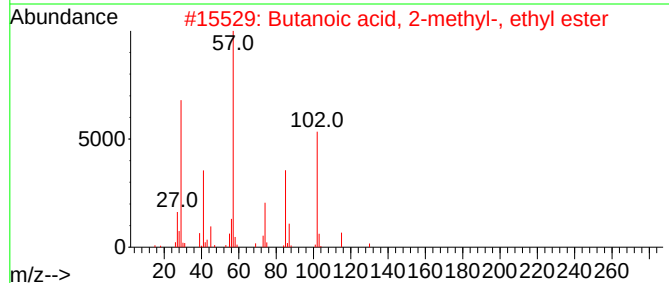
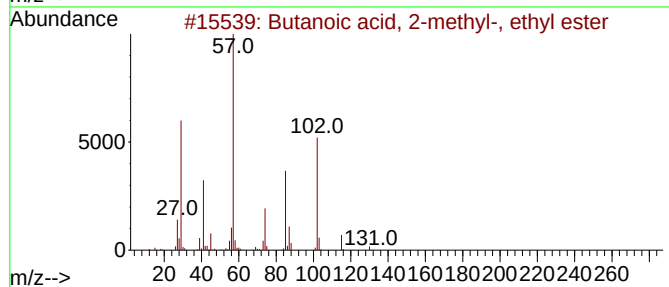
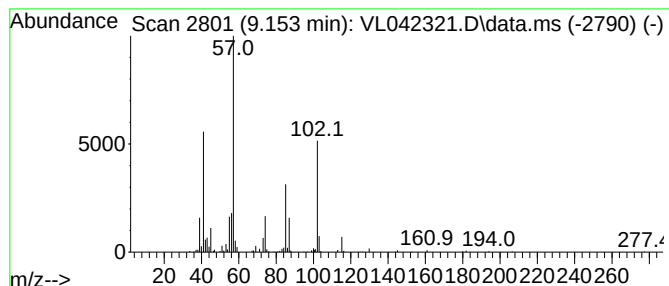
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 2 Butanoic acid, 2-methyl-, e... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.153	1.35 ppbv	188629	Chlorobenzene-d5	8.882

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		Butanoic acid, 2-methyl-, ethyl ...	130	C7H14O2	007452-79-1	91
2		Butanoic acid, 2-methyl-, ethyl ...	130	C7H14O2	007452-79-1	91
3		Butanoic acid, 2-methyl-, ethyl ...	130	C7H14O2	007452-79-1	72
4		Butanoic acid, 2-methyl-, ethyl ...	130	C7H14O2	007452-79-1	64
5		Butanoic acid, 2-methyl-, ethyl ...	130	C7H14O2	007452-79-1	49



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042321.D
Acq On : 11 Apr 2025 15:36
Operator : SY/MD
Sample : Q1665-18
Misc : 400mL/MSVOA_L
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B10-3-3242025

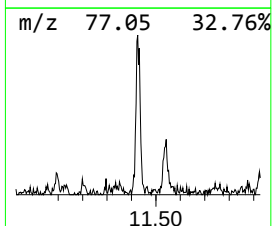
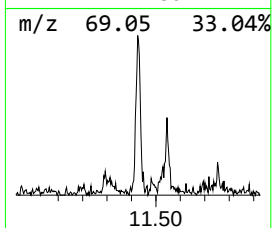
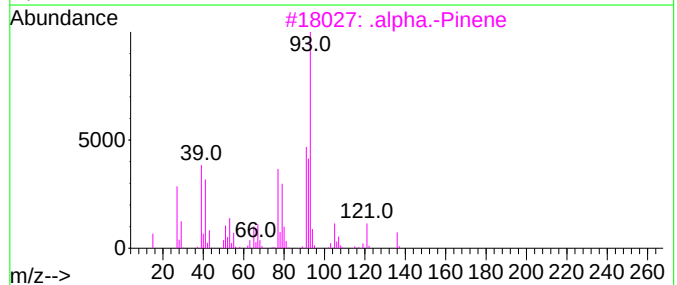
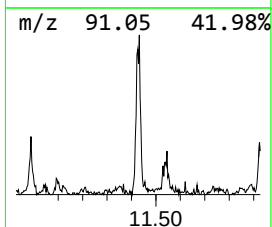
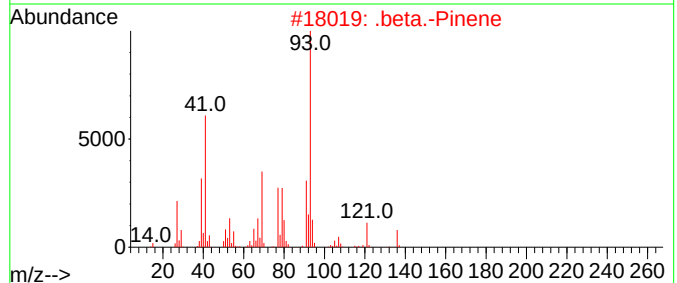
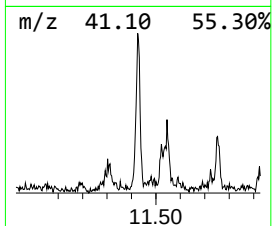
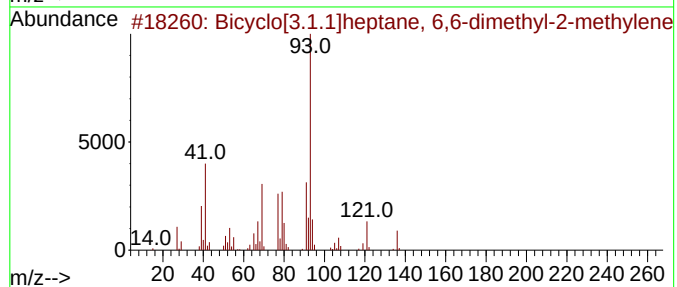
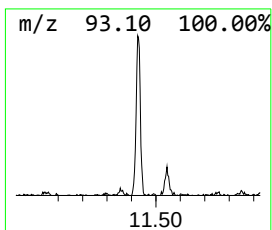
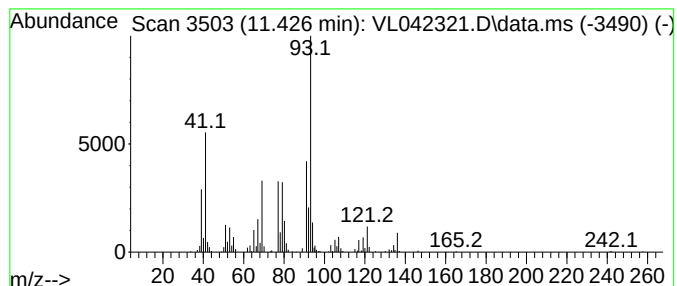
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 3 Bicyclo[3.1.1]heptane, 6,6-... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.426	1.06 ppbv	147995	Chlorobenzene-d5	8.882

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		Bicyclo[3.1.1]heptane, 6,6-dimet...	136	C10H16	018172-67-3	94
2		.beta.-Pinene	136	C10H16	000127-91-3	93
3		.alpha.-Pinene	136	C10H16	000080-56-8	91
4		.beta.-Pinene	136	C10H16	000127-91-3	90
5		(+)-3-Carene	136	C10H16	000498-15-7	87



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042321.D
Acq On : 11 Apr 2025 15:36
Operator : SY/MD
Sample : Q1665-18
Misc : 400mL/MSVOA_L
ALS Vial : 4 Sample Multiplier: 1

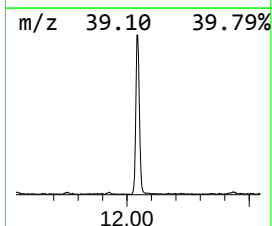
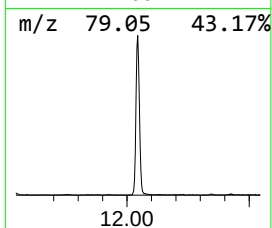
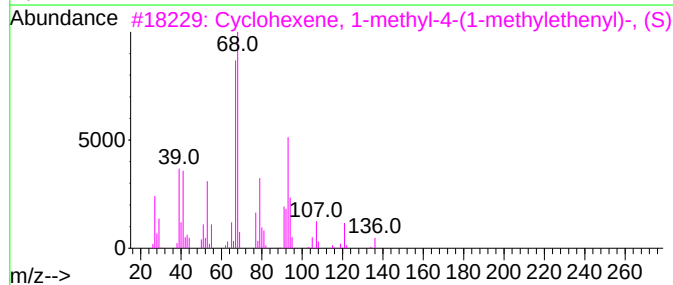
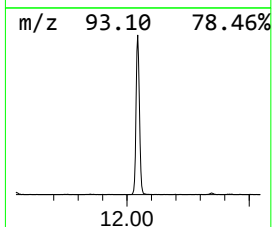
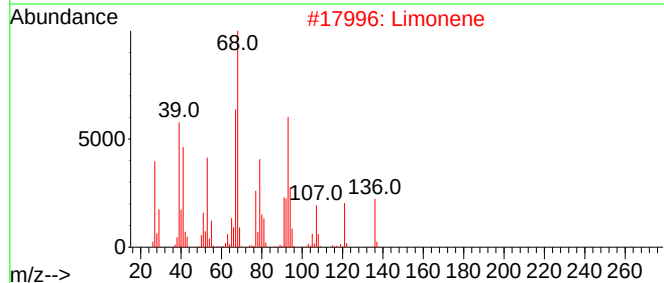
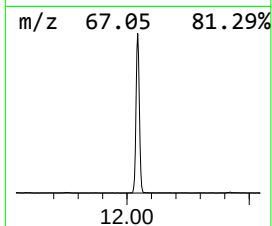
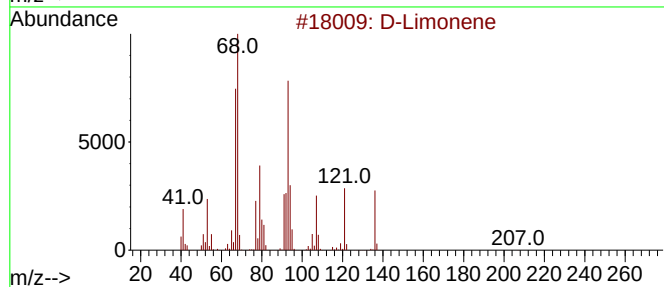
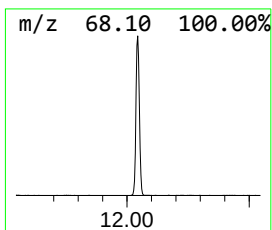
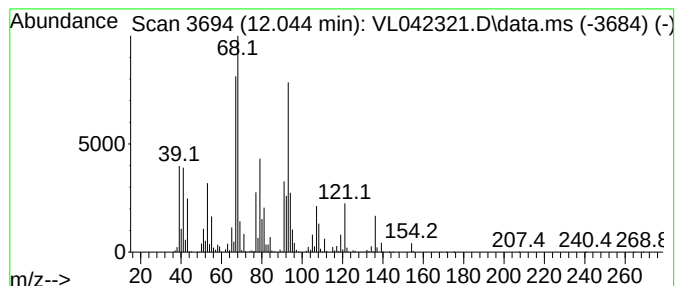
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-3-3242025

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

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

Peak Number 4 D-Limonene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.	
12.044	18.03 ppbv	2526940	Chlorobenzene-d5	8.882	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	D-Limonene	136	C10H16	005989-27-5	97
2	Limonene	136	C10H16	000138-86-3	94
3	Cyclohexene, 1-methyl-4-(1-methy...	136	C10H16	005989-54-8	91
4	Limonene	136	C10H16	000138-86-3	89
5	Limonene	136	C10H16	000138-86-3	81



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042321.D
Acq On : 11 Apr 2025 15:36
Operator : SY/MD
Sample : Q1665-18
Misc : 400mL/MSVOA_L
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B10-3-3242025

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

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	1.3	ppbv	85941	1	2.787	681609	10.0
Butanoic acid, ...	9.153	1.4	ppbv	188629	3	8.882	1401280	10.0
Bicyclo[3.1.1]h...	11.426	1.1	ppbv	147995	3	8.882	1401280	10.0
D-Limonene	12.044	18.0	ppbv	2526940	3	8.882	1401280	10.0

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/25/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	03/26/25
Client Sample ID:	IA-B10-3-3242025DL	SDG No.:	Q1665
Lab Sample ID:	Q1665-18DL	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
VL042331.D	10		04/15/25 14:29	VL041525

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	2.10	10.4	UD	10.4	24.7	ug/m3
74-87-3	Chloromethane	0.98	2.02	UD	2.02	10.3	ug/m3
75-01-4	Vinyl Chloride	0.14	0.36	UD	0.36	0.77	ug/m3
74-83-9	Bromomethane	1.40	5.44	UD	5.44	19.4	ug/m3
75-00-3	Chloroethane	1.70	4.49	UD	4.49	13.2	ug/m3
109-99-9	Tetrahydrofuran	1.30	3.83	UD	3.83	14.8	ug/m3
75-69-4	Trichlorofluoromethane	1.60	8.99	UD	8.99	28.1	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	1.60	12.3	UD	12.3	38.3	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.88	6.15	UD	6.15	35.0	ug/m3
75-65-0	tert-Butyl alcohol	1.90	5.76	UDQ	5.76	15.2	ug/m3
142-82-5	Heptane	1.10	4.51	UD	4.51	20.5	ug/m3
75-35-4	1,1-Dichloroethene	1.40	5.55	UD	5.55	19.8	ug/m3
67-64-1	Acetone	150	356	D	5.70	11.9	ug/m3
75-15-0	Carbon Disulfide	1.60	4.98	UD	4.98	15.6	ug/m3
1634-04-4	Methyl tert-Butyl Ether	1.20	4.33	UD	4.33	18.0	ug/m3
75-09-2	Methylene Chloride	1.90	6.60	UDQ	6.60	17.4	ug/m3
156-60-5	trans-1,2-Dichloroethene	1.90	7.53	UD	7.53	19.8	ug/m3
75-34-3	1,1-Dichloroethane	1.30	5.26	UD	5.26	20.2	ug/m3
110-82-7	Cyclohexane	2.20	7.57	UD	7.57	17.2	ug/m3
78-93-3	2-Butanone	15.1	44.5	D	3.54	14.8	ug/m3
56-23-5	Carbon Tetrachloride	0.11	0.69	UD	0.69	1.89	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.89	3.53	UD	3.53	19.8	ug/m3
67-66-3	Chloroform	1.30	6.35	JD	4.05	24.4	ug/m3
71-55-6	1,1,1-Trichloroethane	0.10	0.55	UD	0.55	1.64	ug/m3
540-84-1	2,2,4-Trimethylpentane	1.00	4.67	UD	4.67	23.4	ug/m3
71-43-2	Benzene	0.87	2.78	UD	2.78	16.0	ug/m3
107-06-2	1,2-Dichloroethane	0.91	3.68	UD	3.68	20.2	ug/m3
79-01-6	Trichloroethene	0.17	0.91	UD	0.91	1.61	ug/m3
78-87-5	1,2-Dichloropropane	1.10	5.08	UD	5.08	23.1	ug/m3
75-27-4	Bromodichloromethane	0.77	5.16	UD	5.16	33.5	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.93	3.81	UD	3.81	20.5	ug/m3
108-88-3	Toluene	1.10	4.15	UD	4.15	18.8	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.60	2.72	UD	2.72	22.7	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.64	2.91	UD	2.91	22.7	ug/m3
79-00-5	1,1,2-Trichloroethane	0.71	3.87	UD	3.87	27.3	ug/m3

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/25/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	03/26/25
Client Sample ID:	IA-B10-3-3242025DL	SDG No.:	Q1665
Lab Sample ID:	Q1665-18DL	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
VL042331.D	10		04/15/25 14:29	VL041525

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.66	5.62	UD	5.62	42.6	ug/m3
106-93-4	1,2-Dibromoethane	0.72	5.53	UD	5.53	7.69	ug/m3
127-18-4	Tetrachloroethene	0.15	1.02	UD	1.02	2.03	ug/m3
108-90-7	Chlorobenzene	0.76	3.50	UD	3.50	23.0	ug/m3
100-41-4	Ethyl Benzene	1.20	5.21	UD	5.21	21.7	ug/m3
179601-23-1	m/p-Xylene	2.10	9.12	UD	9.12	43.4	ug/m3
95-47-6	o-Xylene	1.20	5.21	UD	5.21	21.7	ug/m3
100-42-5	Styrene	1.10	4.68	UD	4.68	21.3	ug/m3
75-25-2	Bromoform	0.57	5.89	UD	5.89	51.7	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.11	0.76	UD	0.76	2.06	ug/m3
95-49-8	2-Chlorotoluene	1.10	5.70	UD	5.70	25.9	ug/m3
108-67-8	1,3,5-Trimethylbenzene	1.10	5.41	UD	5.41	24.6	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.78	3.83	UD	3.83	24.6	ug/m3
541-73-1	1,3-Dichlorobenzene	0.80	4.81	UD	4.81	30.1	ug/m3
106-46-7	1,4-Dichlorobenzene	0.53	3.19	UD	3.19	30.1	ug/m3
95-50-1	1,2-Dichlorobenzene	0.75	4.51	UD	4.51	30.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.85	6.31	UD	6.31	37.1	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.85	9.07	UD	9.07	53.3	ug/m3
106-99-0	1,3-Butadiene	1.30	2.88	UD	2.88	11.1	ug/m3
91-20-3	Naphthalene	0.75	3.93	UD	3.93	5.24	ug/m3
622-96-8	4-Ethyltoluene	1.20	5.90	UD	5.90	24.6	ug/m3
110-54-3	Hexane	1.70	5.99	JD	3.88	17.6	ug/m3
107-05-1	Allyl Chloride	1.50	4.70	UD	4.70	15.7	ug/m3
123-91-1	1,4-Dioxane	2.10	7.57	UD	7.57	18.0	ug/m3
80-62-6	Methyl Methacrylate	0.86	3.52	UD	3.52	20.5	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.50			70 (65) - 130 (135)	95%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	169000		2.81			
540-36-3	1,4-Difluorobenzene	401000		3.994			
3114-55-4	Chlorobenzene-d5	340000		8.914			

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/25/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	03/26/25
Client Sample ID:	IA-B10-3-3242025DL	SDG No.:	Q1665
Lab Sample ID:	Q1665-18DL	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
VL042331.D	10		04/15/25 14:29	VL041525

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
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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\VL041525\
Data File : VL042331.D
Acq On : 15 Apr 2025 14:29
Operator : SY/MD
Sample : Q1665-18DL 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B10-3-3242025DL

Quant Time: Apr 16 01:32:02 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)

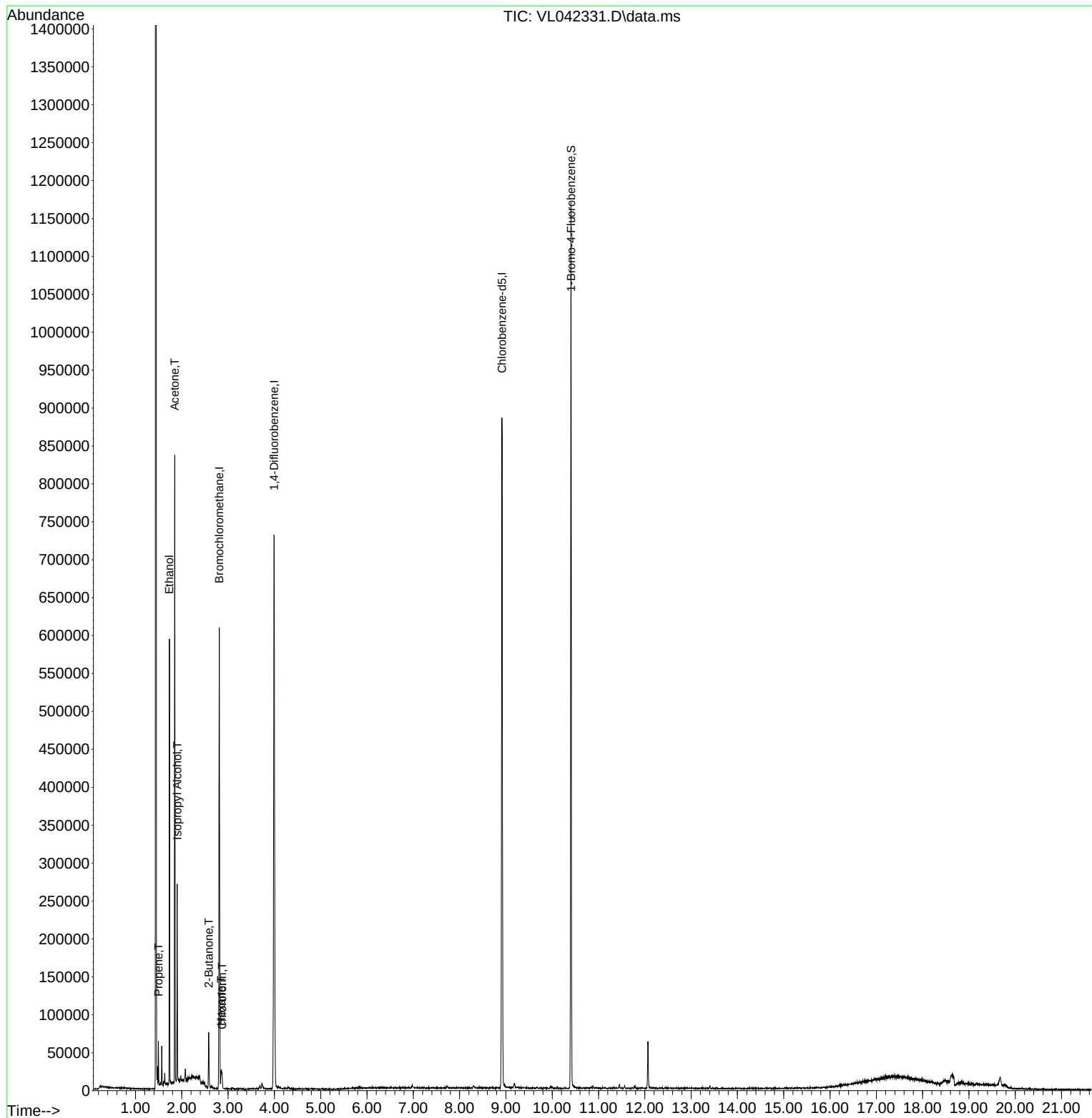
Internal Standards						
1) Bromochloromethane	2.810	49	168977	10.000	ppbv	0.03
33) 1,4-Difluorobenzene	3.994	114	401158	10.000	ppbv	0.04
55) Chlorobenzene-d5	8.914	117	339800	10.000	ppbv	0.04
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.406	95	265292	9.507	ppbv	0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.100%
Target Compounds						
					Qvalue	
9) Propene	1.495	41	4953	0.424	ppbv	90
13) Ethanol	1.732	45	197027	178.408	ppbv	81
15) Acetone	1.848	43	351816	14.887	ppbv	96
19) Isopropyl Alcohol	1.900	45	105242	7.893	ppbv #	35
26) Hexane	2.852	57	4022	0.170	ppbv #	86
29) Chloroform	2.871	83	4529	0.131	ppbv	89
34) 2-Butanone	2.580	43	44053	1.514	ppbv	100

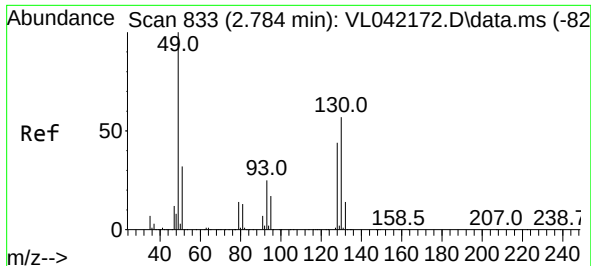
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041525\
Data File : VL042331.D
Acq On : 15 Apr 2025 14:29
Operator : SY/MD
Sample : Q1665-18DL 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B10-3-3242025DL

Quant Time: Apr 16 01:32:02 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

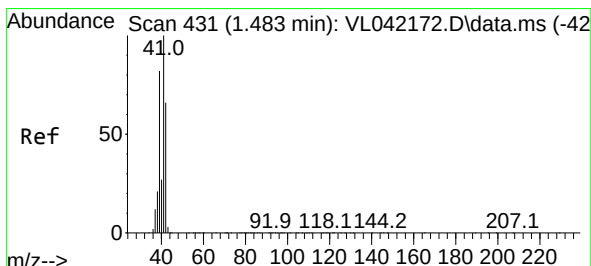
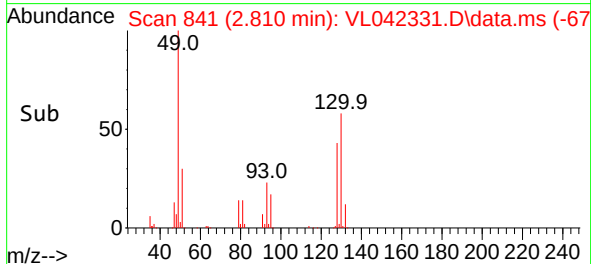
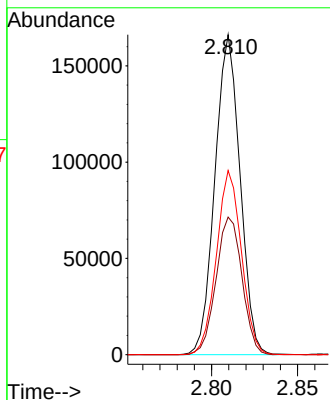
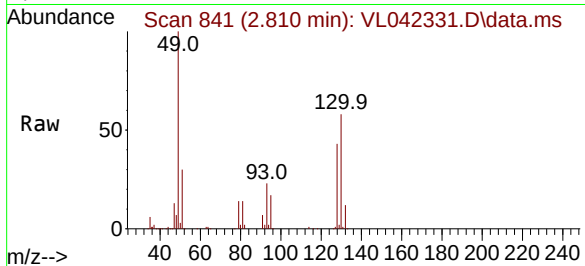




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.810 min Scan# 841
Delta R.T. 0.026 min
Lab File: VL042331.D
Acq: 15 Apr 2025 14:29

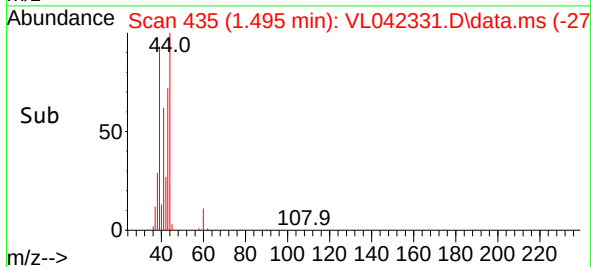
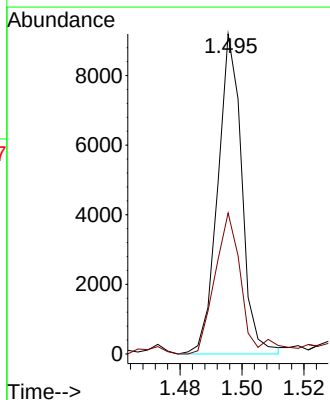
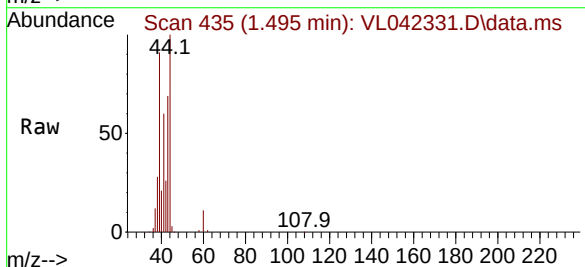
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-3-3242025DL

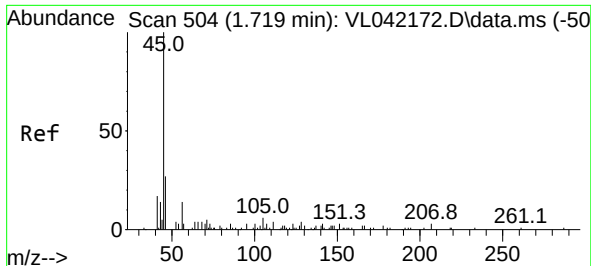
Tgt Ion: 49 Resp: 168977
Ion Ratio Lower Upper
49 100
128 44.4 22.9 68.5
130 57.3 28.8 86.4



#9
Propene
Concen: 0.424 ppbv
RT: 1.495 min Scan# 435
Delta R.T. 0.013 min
Lab File: VL042331.D
Acq: 15 Apr 2025 14:29

Tgt Ion: 41 Resp: 4953
Ion Ratio Lower Upper
41 100
42 61.5 55.4 83.2

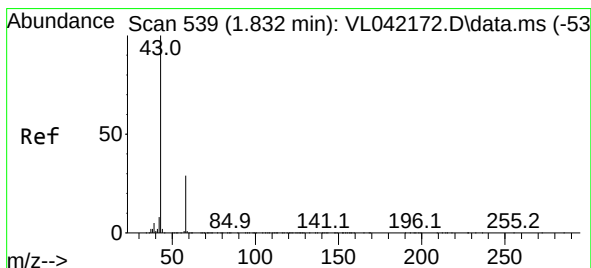
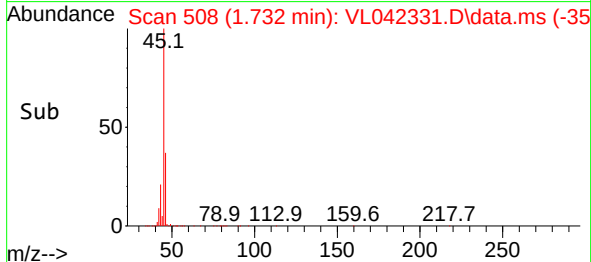
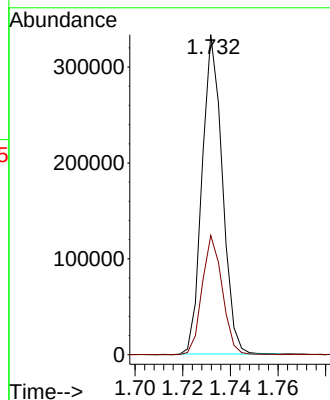
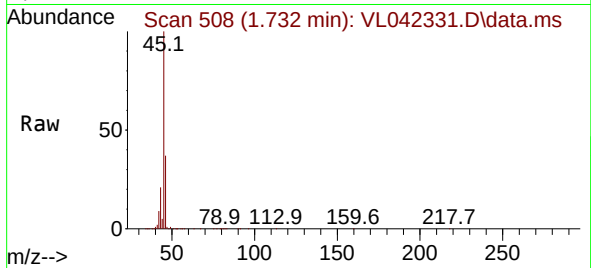




#13
Ethanol
Concen: 178.408 ppbv
RT: 1.732 min Scan# 504
Delta R.T. 0.013 min
Lab File: VL042331.D
Acq: 15 Apr 2025 14:29

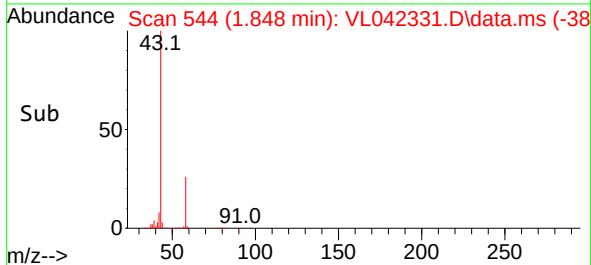
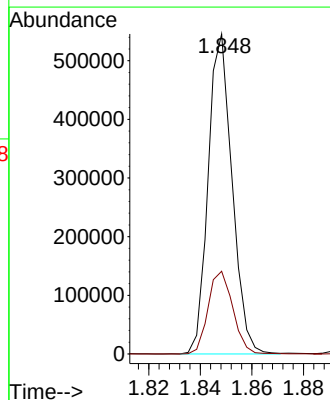
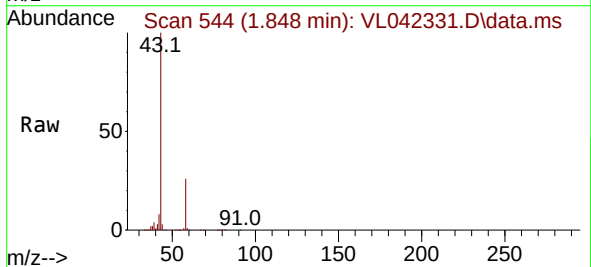
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-3-3242025DL

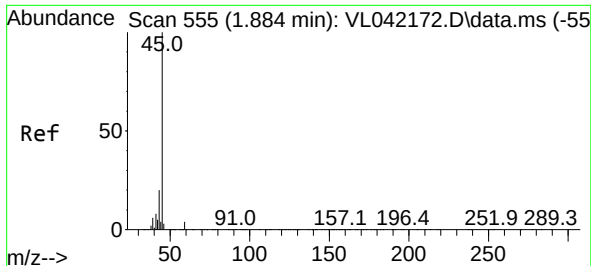
Tgt Ion: 45 Resp: 197027
Ion Ratio Lower Upper
45 100
46 37.5 20.2 80.8



#15
Acetone
Concen: 14.887 ppbv
RT: 1.848 min Scan# 544
Delta R.T. 0.016 min
Lab File: VL042331.D
Acq: 15 Apr 2025 14:29

Tgt Ion: 43 Resp: 351816
Ion Ratio Lower Upper
43 100
58 26.7 23.2 34.8

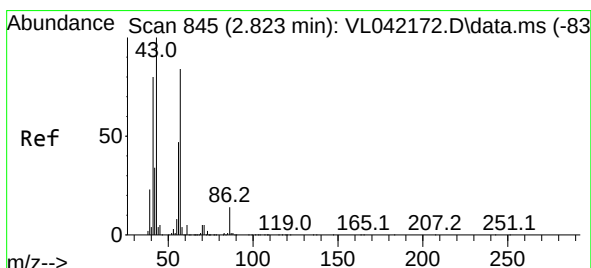
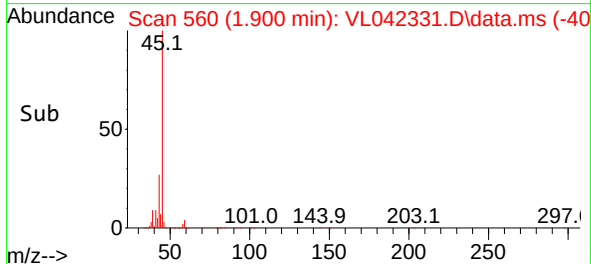
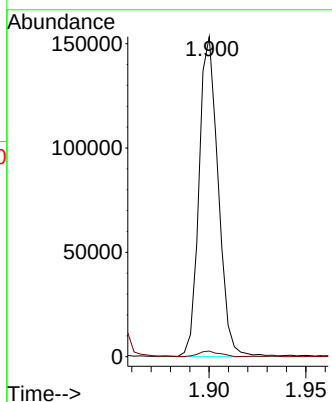
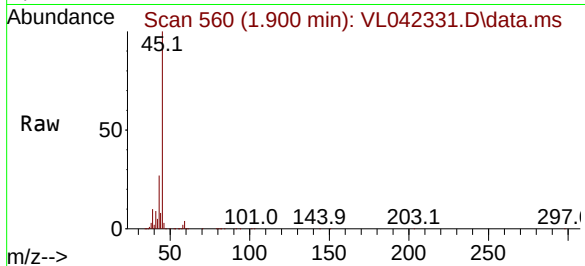




#19
Isopropyl Alcohol
Concen: 7.893 ppbv
RT: 1.900 min Scan# 51
Delta R.T. 0.016 min
Lab File: VL042331.D
Acq: 15 Apr 2025 14:29

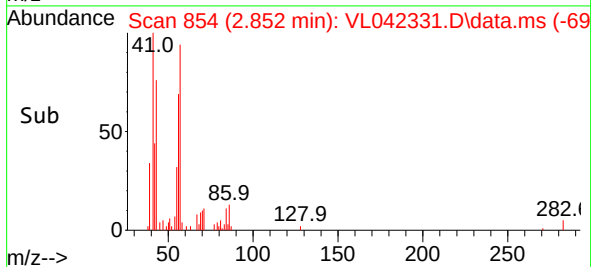
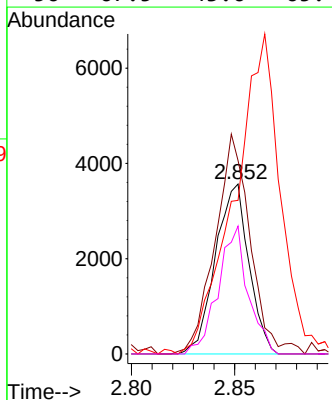
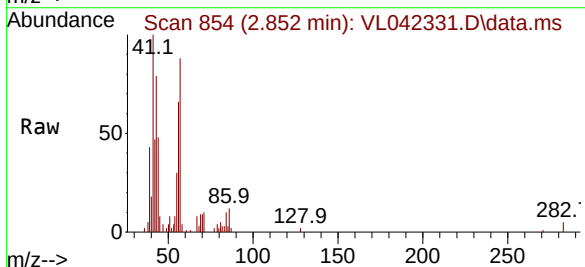
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-3-3242025DL

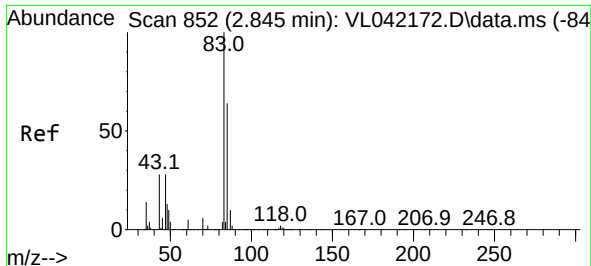
Tgt Ion: 45 Resp: 105242
Ion Ratio Lower Upper
45 100
58 89.3 36.9 55.3#



#26
Hexane
Concen: 0.170 ppbv
RT: 2.852 min Scan# 854
Delta R.T. 0.029 min
Lab File: VL042331.D
Acq: 15 Apr 2025 14:29

Tgt Ion: 57 Resp: 4022
Ion Ratio Lower Upper
57 100
41 141.6 76.6 114.8#
43 262.3 207.8 311.8
56 67.5 43.6 65.4#





#29

Chloroform

Concen: 0.131 ppbv

RT: 2.871 min Scan# 80

Delta R.T. 0.026 min

Lab File: VL042331.D

Acq: 15 Apr 2025 14:29

Instrument :

MSVOA_L

ClientSampleId :

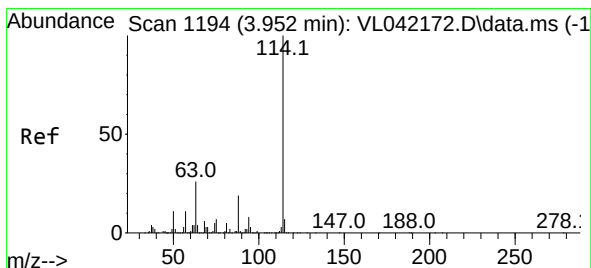
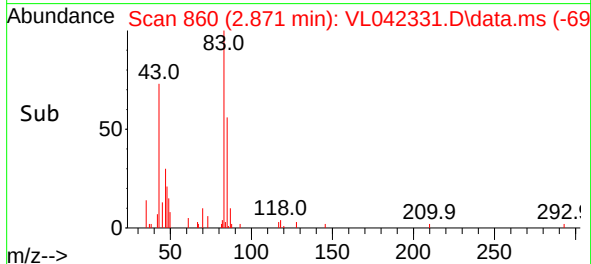
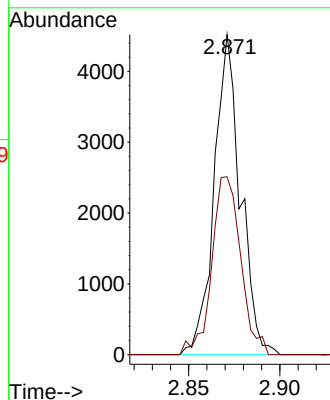
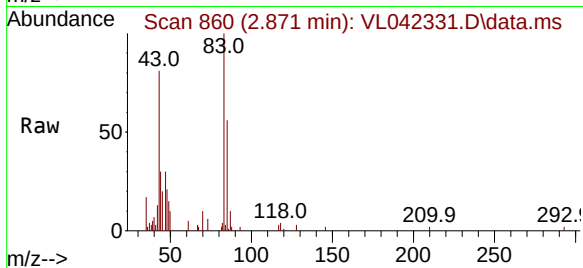
IA-B10-3-3242025DL

Tgt Ion: 83 Resp: 4529

Ion Ratio Lower Upper

83 100

85 55.6 51.4 77.2



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.994 min Scan# 1207

Delta R.T. 0.042 min

Lab File: VL042331.D

Acq: 15 Apr 2025 14:29

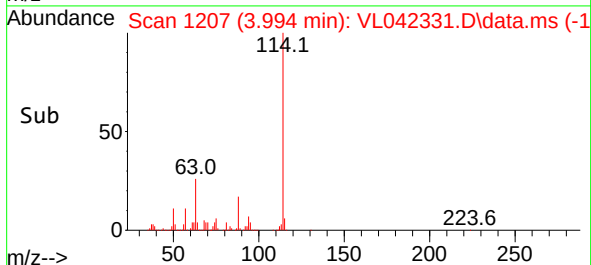
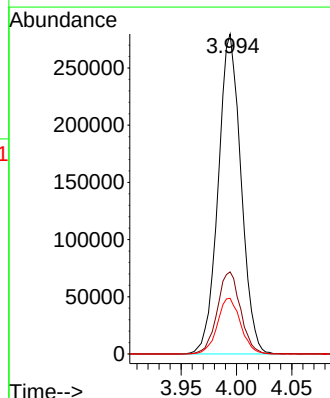
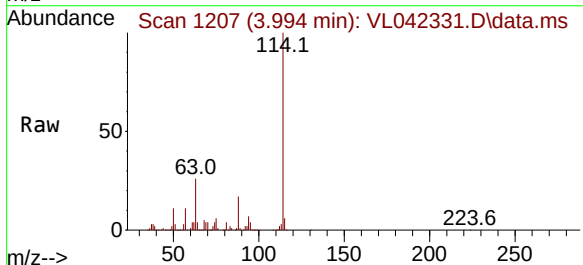
Tgt Ion: 114 Resp: 401158

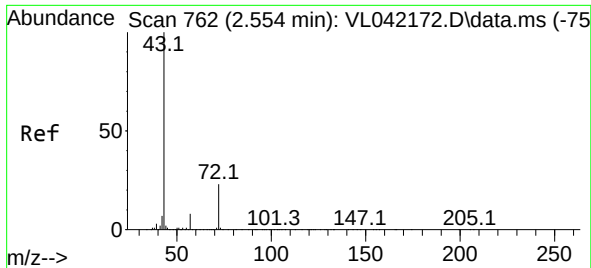
Ion Ratio Lower Upper

114 100

63 26.2 20.7 31.1

88 17.7 15.0 22.4

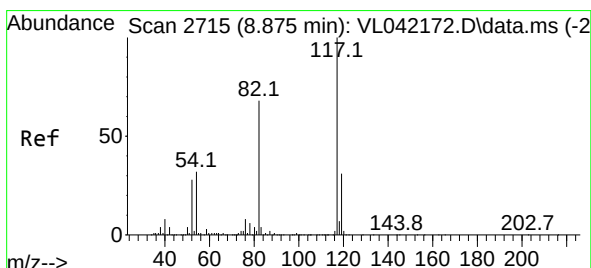
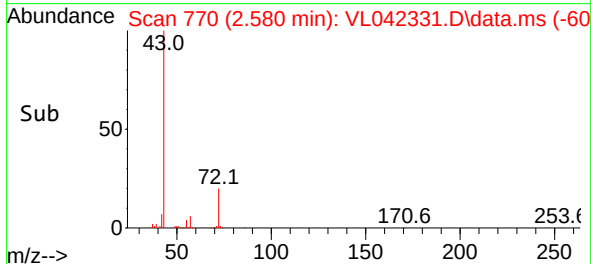
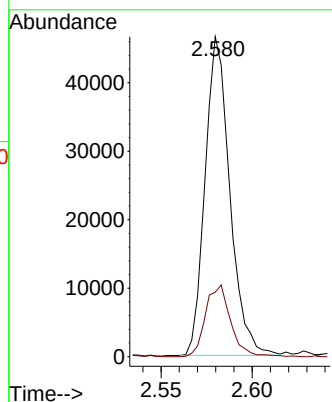
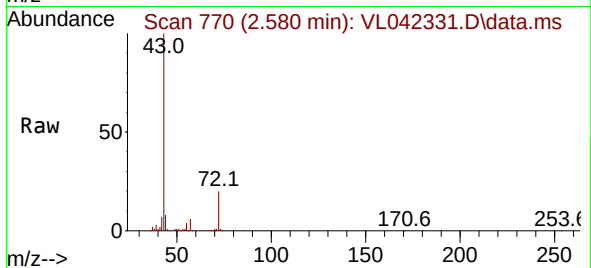




#34
2-Butanone
Concen: 1.514 ppbv
RT: 2.580 min Scan# 71
Delta R.T. 0.026 min
Lab File: VL042331.D
Acq: 15 Apr 2025 14:29

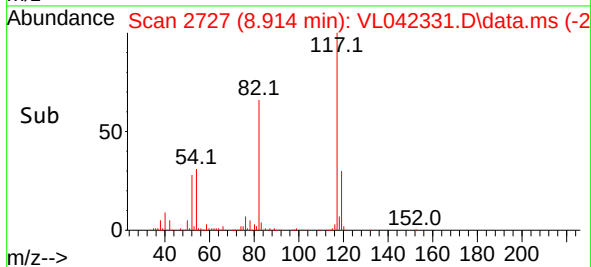
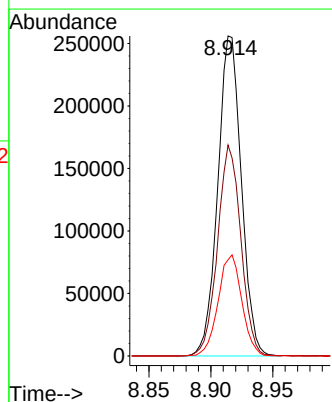
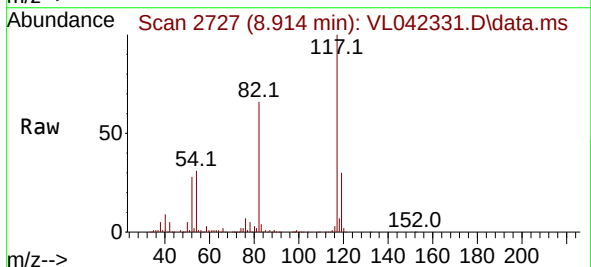
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-3-3242025DL

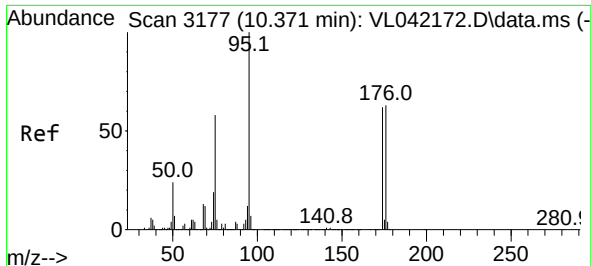
Tgt Ion: 43 Resp: 44053
Ion Ratio Lower Upper
43 100
72 22.9 18.2 27.2



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.914 min Scan# 2727
Delta R.T. 0.039 min
Lab File: VL042331.D
Acq: 15 Apr 2025 14:29

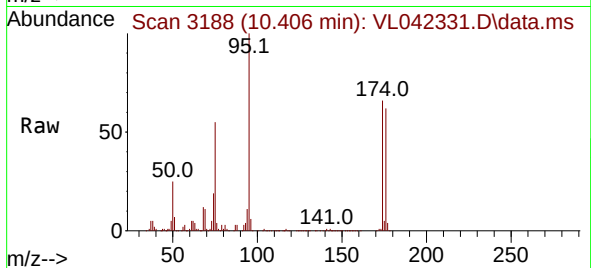
Tgt Ion: 117 Resp: 339800
Ion Ratio Lower Upper
117 100
82 65.2 55.8 83.6
119 31.8 25.5 38.3



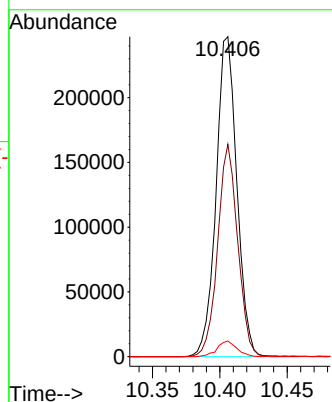
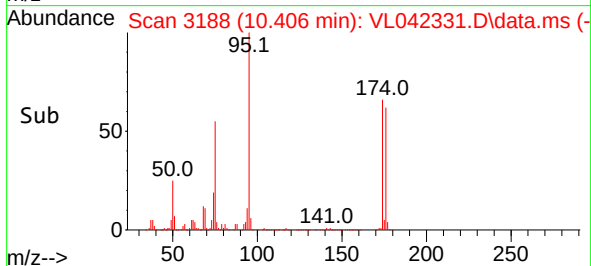


#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.507 ppbv
 RT: 10.406 min Scan# 31
 Delta R.T. 0.035 min
 Lab File: VL042331.D
 Acq: 15 Apr 2025 14:29

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B10-3-3242025DL



Tgt Ion: 95 Resp: 265292
 Ion Ratio Lower Upper
 95 100
 174 64.1 50.6 76.0
 175 4.7 3.8 5.6



Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/25/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	03/26/25
Client Sample ID:	IA-B9-3-3242025	SDG No.:	Q1665
Lab Sample ID:	Q1665-20	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
VL042296.D	1		04/09/25 16:57	VL040925

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.42	2.08	J	1.04	2.47	ug/m3
74-87-3	Chloromethane	0.49	1.01	J	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	0.28	0.83	J	0.38	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.21	1.18	J	0.90	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.16	1.23	U	1.23	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.090	0.63	U	0.63	3.49	ug/m3
75-65-0	tert-Butyl alcohol	0.19	0.58	U	0.58	1.52	ug/m3
142-82-5	Heptane	0.16	0.66	J	0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
67-64-1	Acetone	8.00	19.0		0.57	1.19	ug/m3
75-15-0	Carbon Disulfide	0.16	0.50	U	0.50	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.12	0.43	U	0.43	1.80	ug/m3
75-09-2	Methylene Chloride	1.30	4.52		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	2.50	7.37		0.35	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.080	0.50		0.060	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.090	0.36	U	0.36	1.98	ug/m3
67-66-3	Chloroform	0.080	0.39	U	0.39	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.010	0.050	U	0.050	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.10	0.47	U	0.47	2.34	ug/m3
71-43-2	Benzene	0.28	0.89	J	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	0.53	2.00		0.41	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.070	0.38	U	0.38	2.73	ug/m3

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/25/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	03/26/25
Client Sample ID:	IA-B9-3-3242025	SDG No.:	Q1665
Lab Sample ID:	Q1665-20	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
VL042296.D	1		04/09/25 16:57	VL040925

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.070	0.60	U	0.60	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.070	0.54	U	0.54	0.77	ug/m3
127-18-4	Tetrachloroethene	0.020	0.14	U	0.14	0.20	ug/m3
108-90-7	Chlorobenzene	0.13	0.60	J	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	0.22	0.96	J	0.91	4.34	ug/m3
95-47-6	o-Xylene	0.13	0.56	J	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	1.50	5.29		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	9.40		70 (65) - 130 (135)	94%	SPK: 10
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INTERNAL STANDARDS

74-97-5	Bromochloromethane	162000	2.787
540-36-3	1,4-Difluorobenzene	385000	3.959
3114-55-4	Chlorobenzene-d5	329000	8.878

TENTATIVE IDENTIFIED COMPOUNDS

75-45-6	Chlorodifluoromethane	0.56	J	1.48	ppbv
115-07-1	Propene	3.10	J	1.49	ppbv
000106-97-8	Butane	1.30	J	1.62	ppbv

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/25/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	03/26/25
Client Sample ID:	IA-B9-3-3242025	SDG No.:	Q1665
Lab Sample ID:	Q1665-20	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
VL042296.D	1		04/09/25 16:57	VL040925

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
64-17-5	Ethanol	31.7		J		1.72	ppbv
67-63-0	Isopropyl Alcohol	39.0		J		1.88	ppbv
000100-52-7	Benzaldehyde	1.10		J		10.8	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\VL040925\
 Data File : VL042296.D
 Acq On : 09 Apr 2025 16:57
 Operator : SY/MD
 Sample : Q1665-20
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B9-3-3242025

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/10/2025
 Supervised By :Mahesh Dadoda 04/10/2025

Quant Time: Apr 10 01:46:46 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	2.787	49	161865	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	384782	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	329132	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	253889	9.393	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.900%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	10098	0.423	ppbv	94
3) Chlorodifluoromethane	1.476	51	13698m	0.561	ppbv	
4) Chloromethane	1.531	50	4745	0.486	ppbv	96
9) Propene	1.486	41	34342m	3.069	ppbv	
10) Heptane	4.981	43	4849m	0.163	ppbv	
11) Trichlorofluoromethane	1.877	101	4945	0.213	ppbv #	74
13) Ethanol	1.722	45	33576	31.739	ppbv	81
15) Acetone	1.835	43	182118	8.045	ppbv	92
19) Isopropyl Alcohol	1.884	45	498343	39.016	ppbv #	32
20) Methylene Chloride	2.062	84	11004	1.305	ppbv	96
26) Hexane	2.826	57	33283	1.467	ppbv #	36
34) 2-Butanone	2.560	43	71103	2.548	ppbv	95
35) Carbon Tetrachloride	3.758	117	2271	0.076	ppbv #	90
36) Benzene	3.654	78	10547	0.276	ppbv #	94
41) Tetrahydrofuran	3.062	42	4483	0.279	ppbv	92
53) Toluene	6.930	91	24055	0.532	ppbv	98
57) Chlorobenzene	8.914	112	3957m	0.127	ppbv	
59) m/p-Xylene	9.526	91	10336m	0.221	ppbv	
60) o-Xylene	9.963	91	5830	0.125	ppbv	99

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

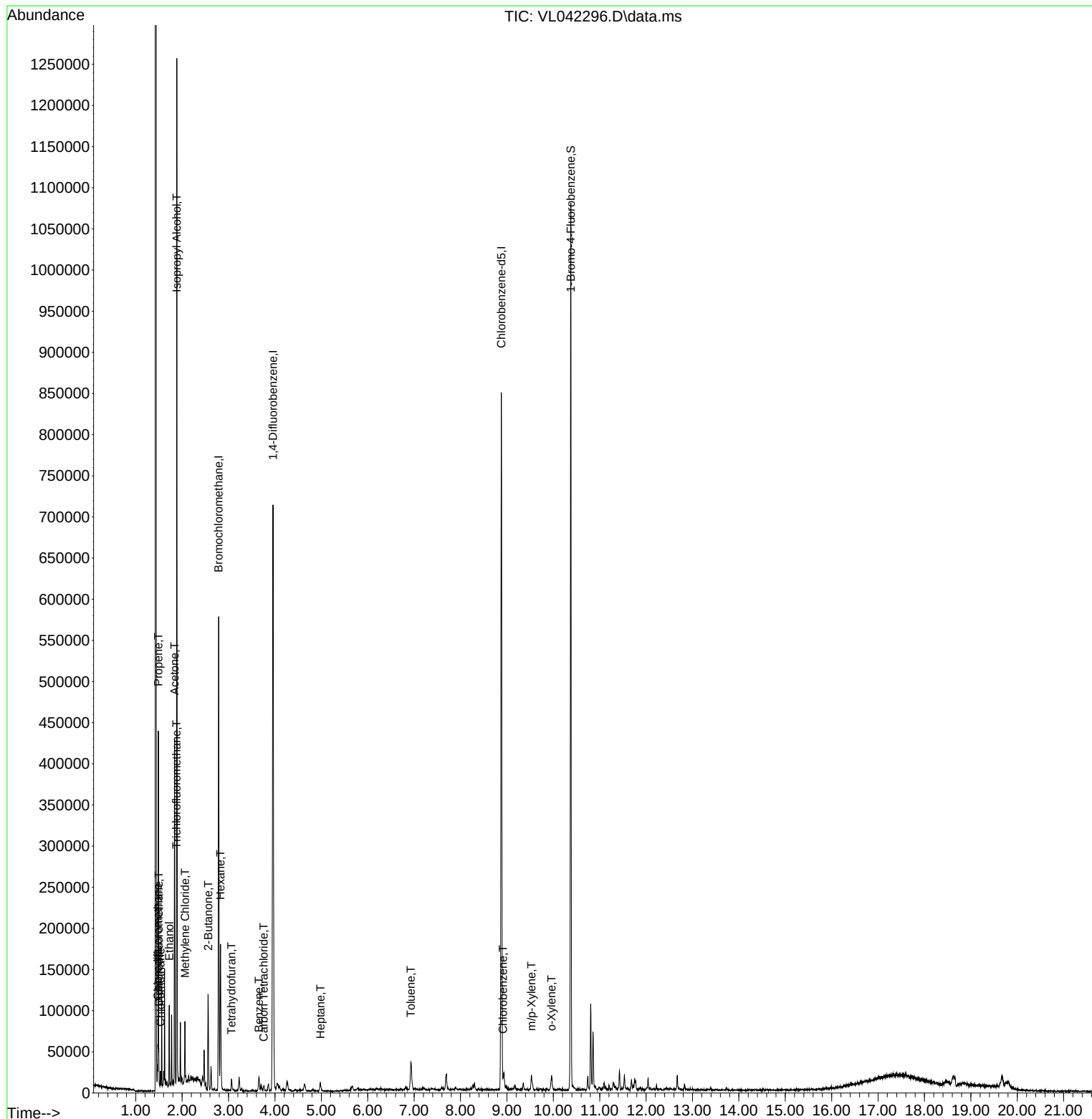
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042296.D
Acq On : 09 Apr 2025 16:57
Operator : SY/MD
Sample : Q1665-20
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

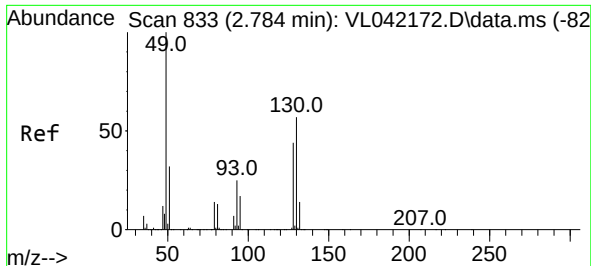
Instrument :
MSVOA_L
ClientSampleId :
IA-B9-3-3242025

Quant Time: Apr 10 01:46:46 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 02:00:52 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 04/10/2025
Supervised By : Mahesh Dadoda 04/10/2025





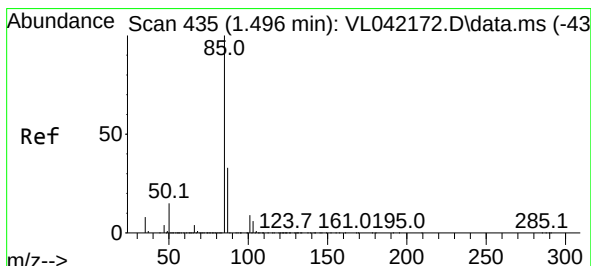
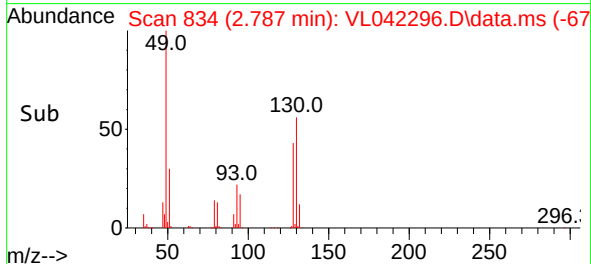
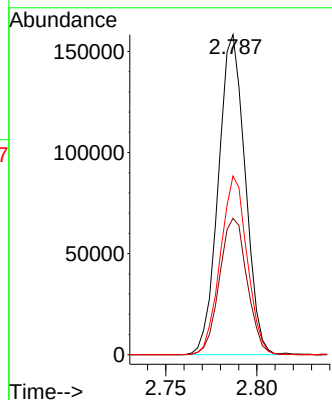
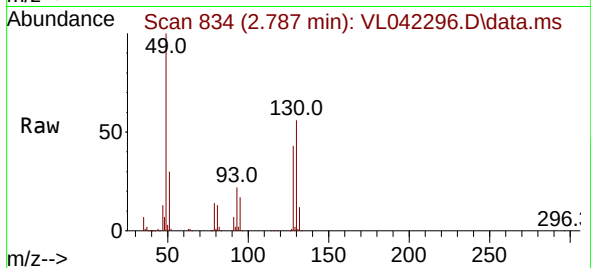
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

Instrument :
MSVOA_L
ClientSampleId :
IA-B9-3-3242025

Tgt Ion: 49 Resp: 16186
Ion Ratio Lower Upper
49 100
128 43.9 22.9 68.5
130 55.7 28.8 86.4

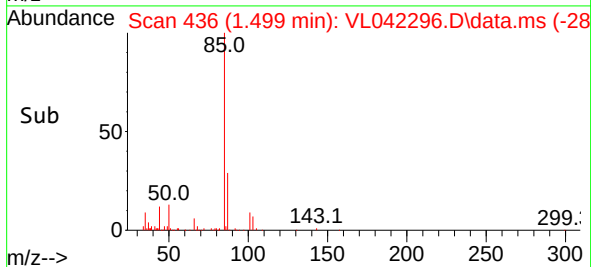
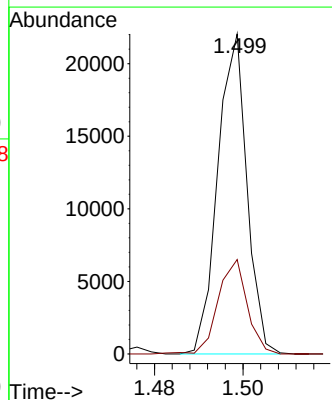
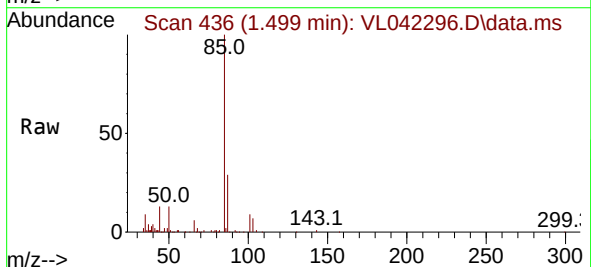
Manual Integrations
APPROVED

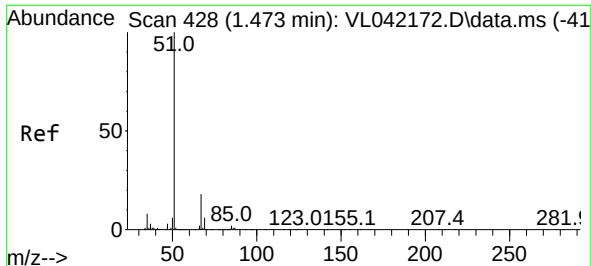
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#2
Dichlorodifluoromethane
Concen: 0.423 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

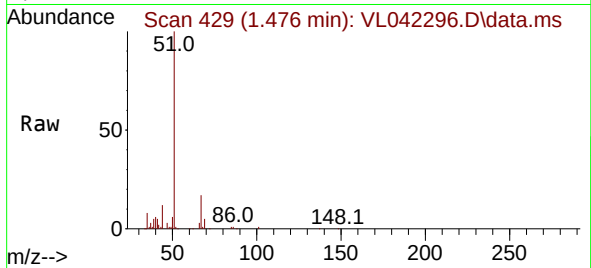
Tgt Ion: 85 Resp: 10098
Ion Ratio Lower Upper
85 100
87 29.5 26.1 39.1





#3
Chlorodifluoromethane
Concen: 0.561 ppbv m
RT: 1.476 min Scan# 428
Delta R.T. 0.003 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

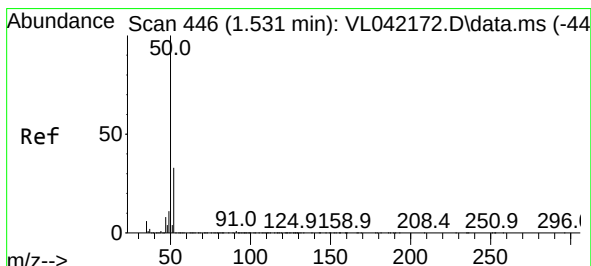
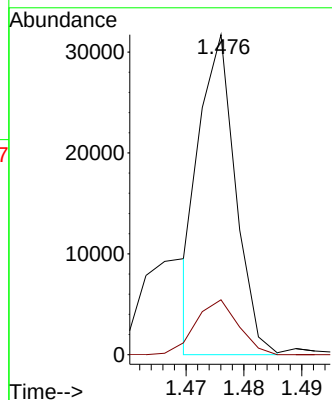
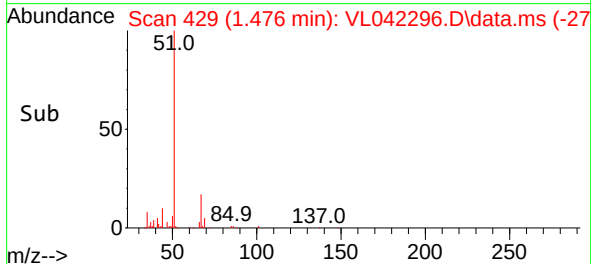
Instrument :
MSVOA_L
ClientSampleId :
IA-B9-3-3242025



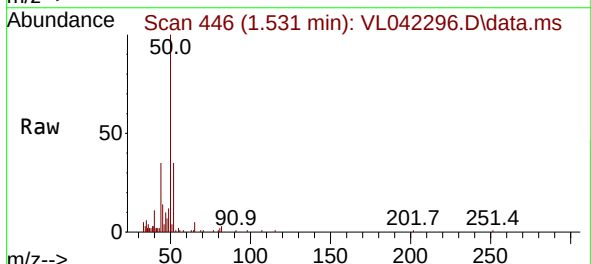
Tgt Ion: 51 Resp: 13698
Ion Ratio Lower Upper
51 100
67 2.8 15.0 22.6

Manual Integrations
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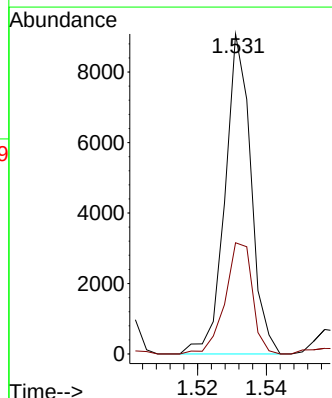
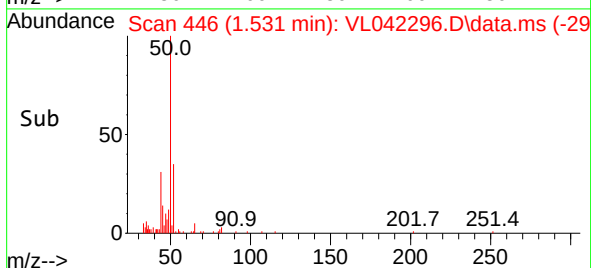
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

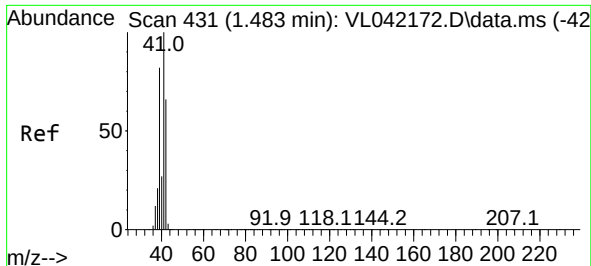


#4
Chloromethane
Concen: 0.486 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57



Tgt Ion: 50 Resp: 4745
Ion Ratio Lower Upper
50 100
52 34.8 26.1 39.1





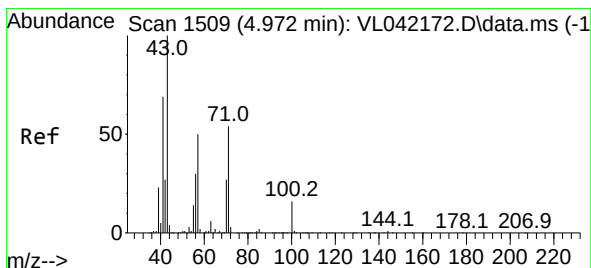
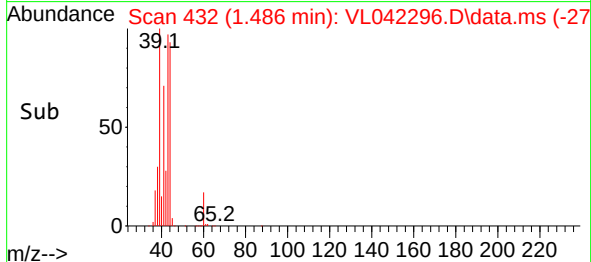
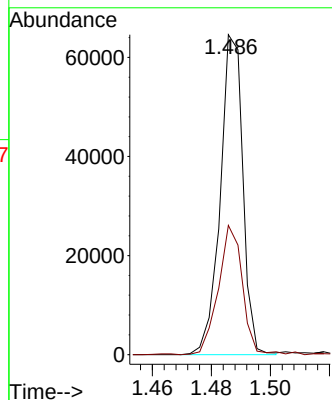
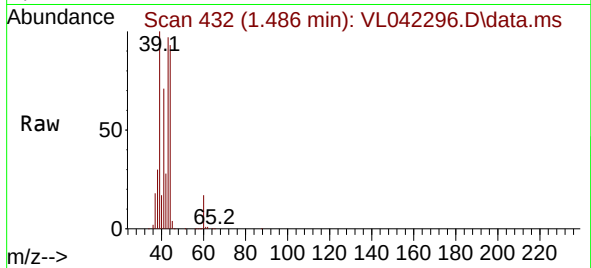
#9
Propene
Concen: 3.069 ppbv m
RT: 1.486 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

Instrument :
MSVOA_L
ClientSampleId :
IA-B9-3-3242025

Tgt Ion: 41 Resp: 3434
Ion Ratio Lower Upper
41 100
42 87.7 55.4 83.2

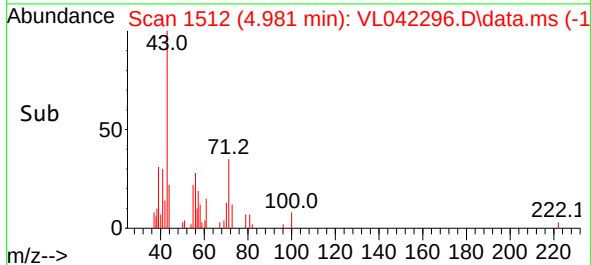
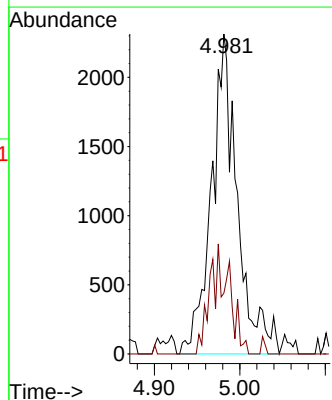
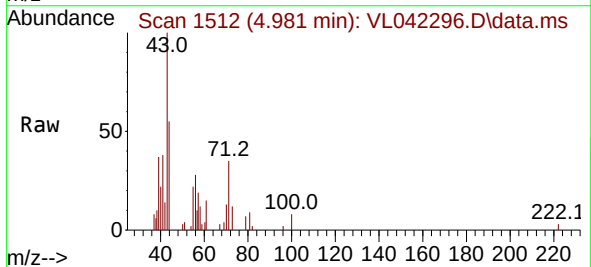
Manual Integrations
APPROVED

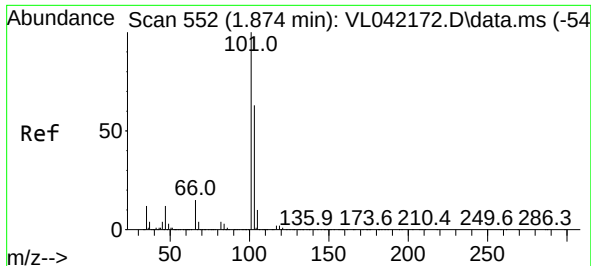
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#10
Heptane
Concen: 0.163 ppbv m
RT: 4.981 min Scan# 1512
Delta R.T. 0.009 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

Tgt Ion: 43 Resp: 4849
Ion Ratio Lower Upper
43 100
57 0.0 39.4 59.2





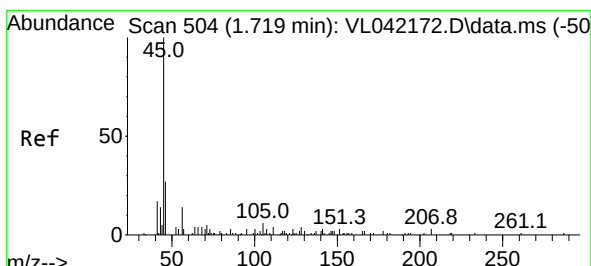
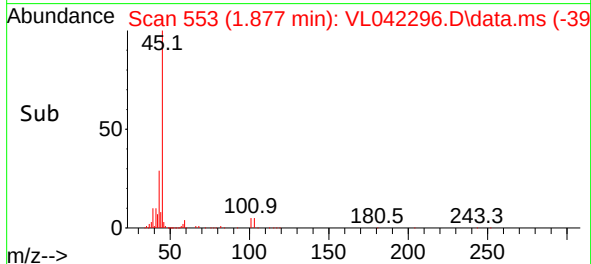
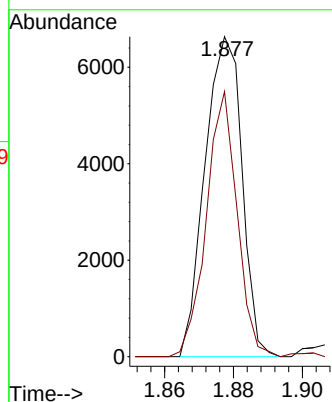
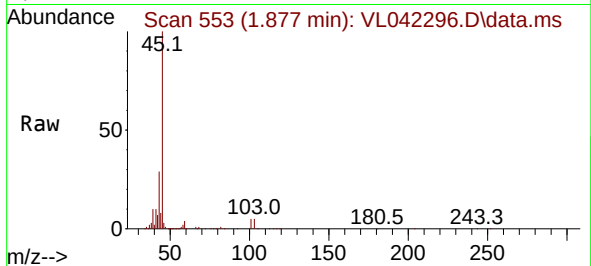
#11
Trichlorofluoromethane
Concen: 0.213 ppbv
RT: 1.877 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

Instrument :
MSVOA_L
ClientSampleId :
IA-B9-3-3242025

Tgt Ion:101 Resp: 4945
Ion Ratio Lower Upper
101 100
103 82.8 50.2 75.2

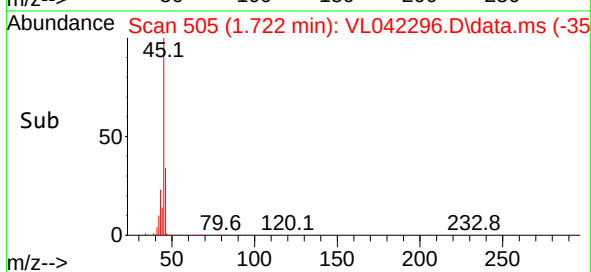
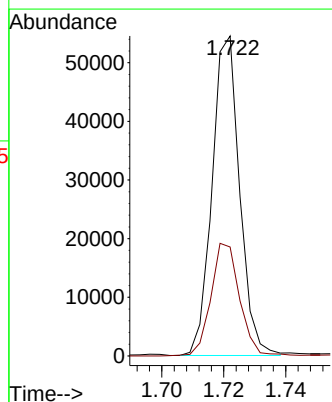
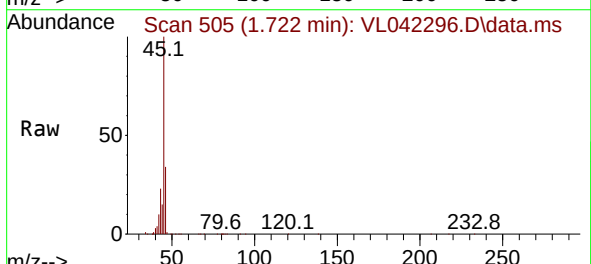
Manual Integrations
APPROVED

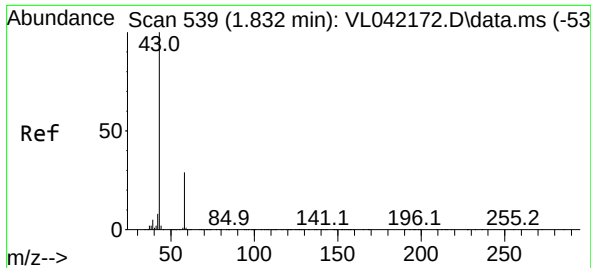
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#13
Ethanol
Concen: 31.739 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

Tgt Ion: 45 Resp: 33576
Ion Ratio Lower Upper
45 100
46 37.1 20.2 80.8





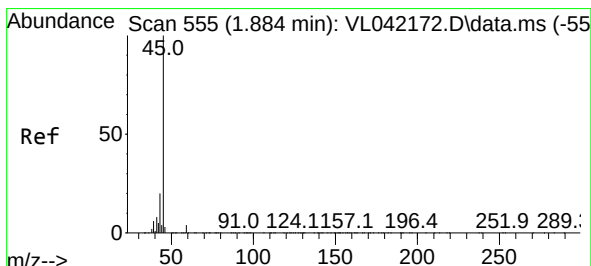
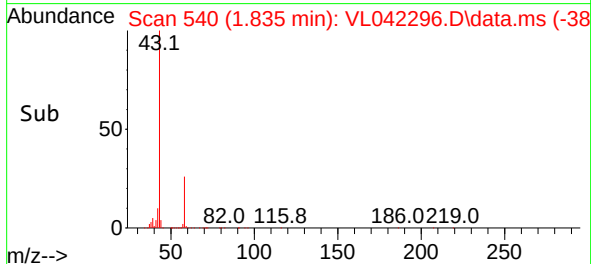
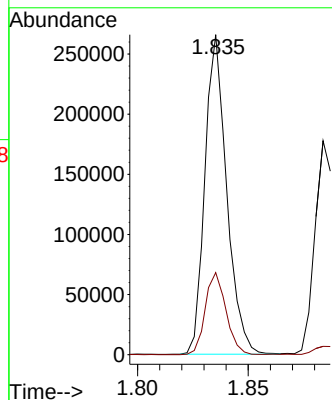
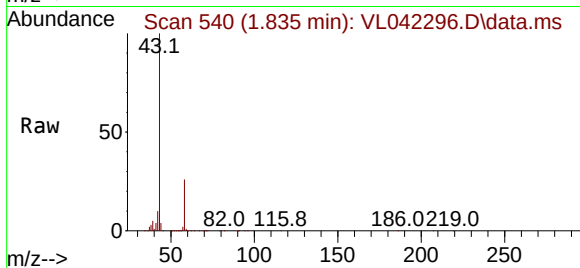
#15
Acetone
Concen: 8.045 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.003 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

Instrument : MSVOA_L
ClientSampleId : IA-B9-3-3242025

Tgt Ion: 43 Resp: 182118
Ion Ratio Lower Upper
43 100
58 24.5 23.2 34.8

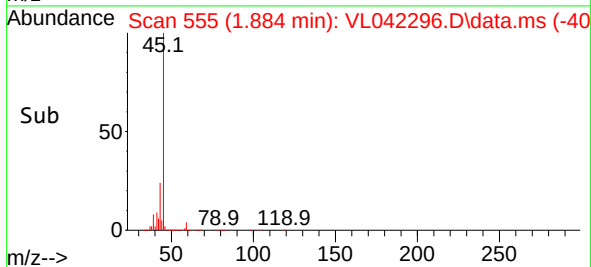
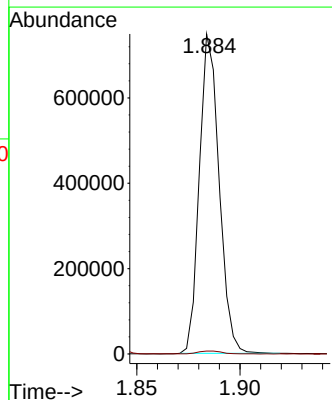
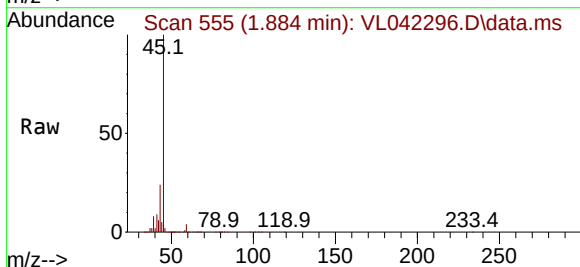
Manual Integrations
APPROVED

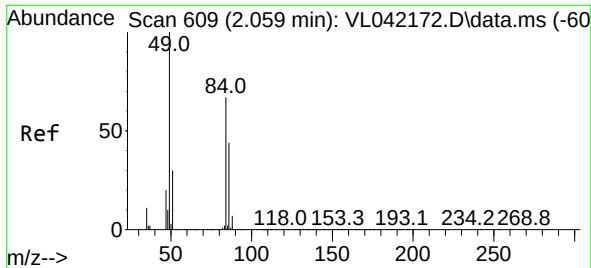
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#19
Isopropyl Alcohol
Concen: 39.016 ppbv
RT: 1.884 min Scan# 555
Delta R.T. -0.000 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

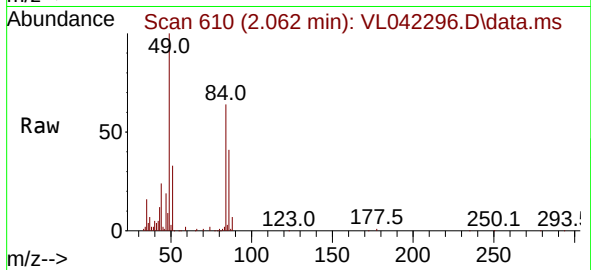
Tgt Ion: 45 Resp: 498343
Ion Ratio Lower Upper
45 100
58 1.2 36.9 55.3#





#20
Methylene Chloride
Concen: 1.305 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

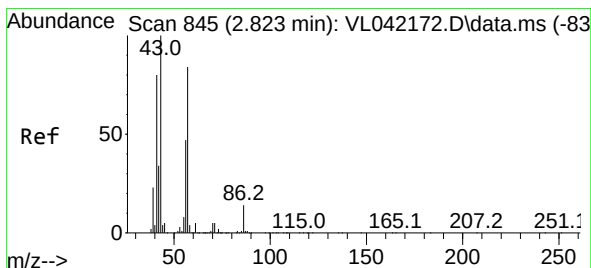
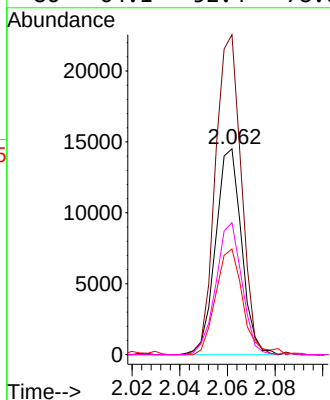
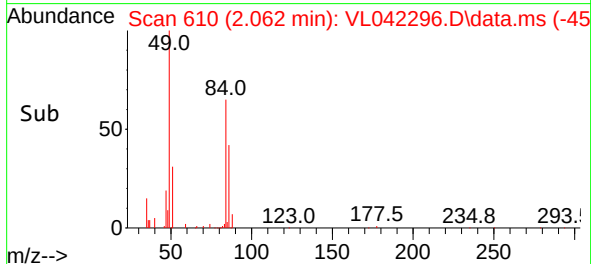
Instrument :
MSVOA_L
ClientSampleId :
IA-B9-3-3242025



Tgt Ion: 84 Resp: 11004
Ion Ratio Lower Upper
84 100
49 155.3 120.2 180.4
51 51.4 37.4 56.0
86 64.1 52.4 78.6

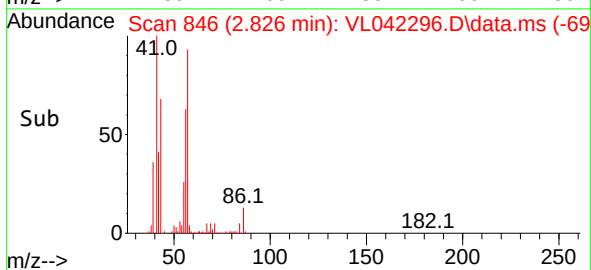
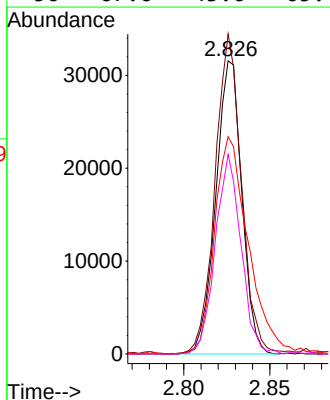
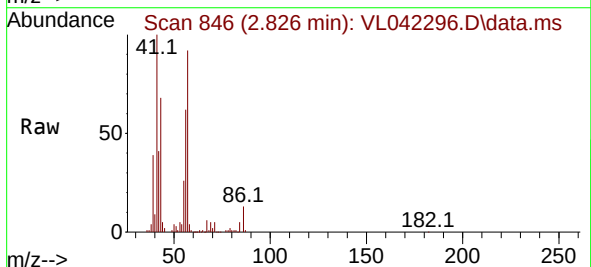
Manual Integrations
APPROVED

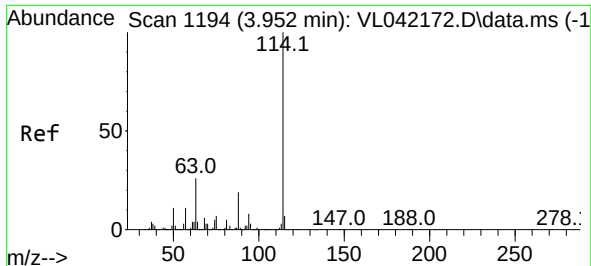
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#26
Hexane
Concen: 1.467 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.003 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

Tgt Ion: 57 Resp: 33283
Ion Ratio Lower Upper
57 100
41 112.6 76.6 114.8
43 96.8 207.8 311.8#
56 67.6 43.6 65.4#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.959 min Scan# 1196

Delta R.T. 0.006 min

Lab File: VL042296.D

Acq: 09 Apr 2025 16:57

Instrument :

MSVOA_L

ClientSampleId :

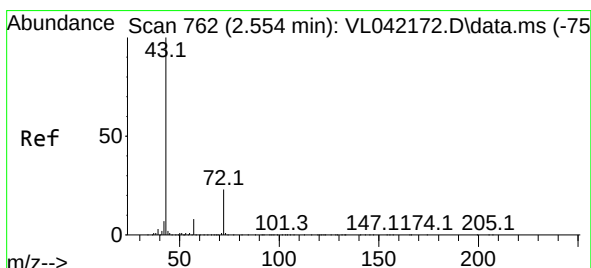
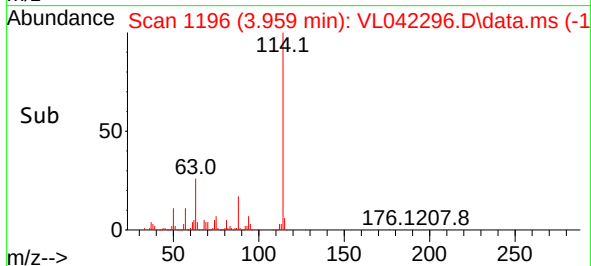
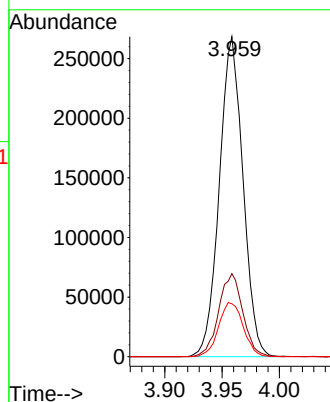
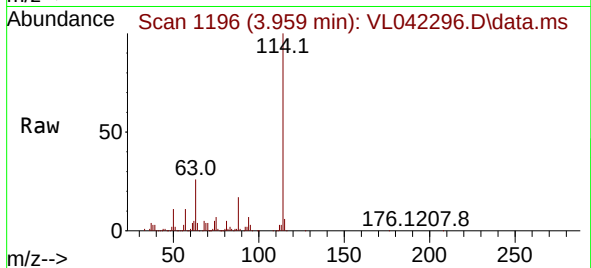
IA-B9-3-3242025

Tgt Ion:	114	Resp:	38478
Ion Ratio	Lower	Upper	
114	100		
63	26.6	20.7	31.1
88	17.6	15.0	22.4

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#34

2-Butanone

Concen: 2.548 ppbv

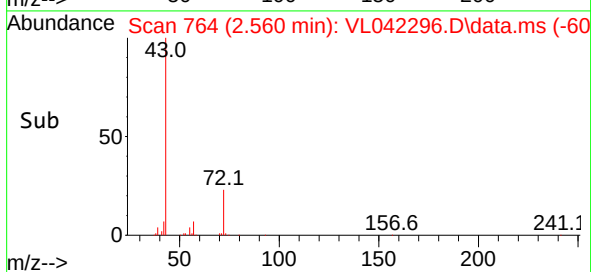
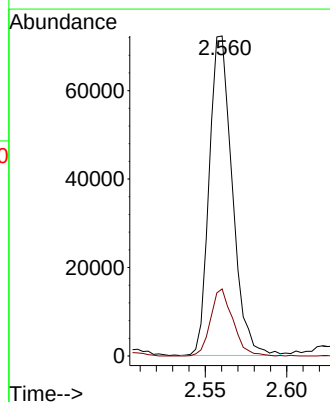
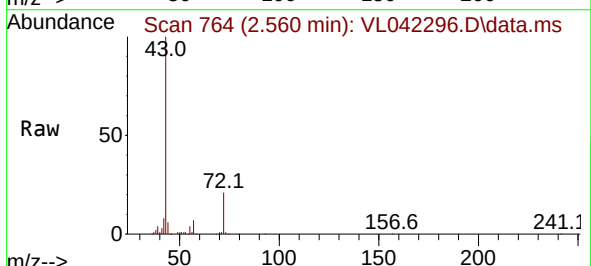
RT: 2.560 min Scan# 764

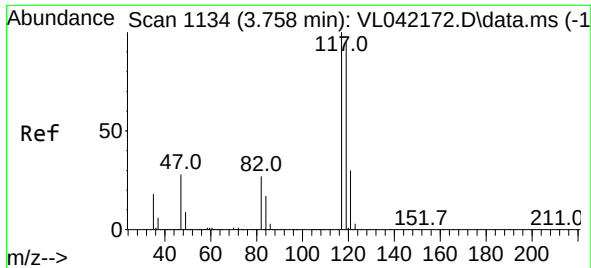
Delta R.T. 0.006 min

Lab File: VL042296.D

Acq: 09 Apr 2025 16:57

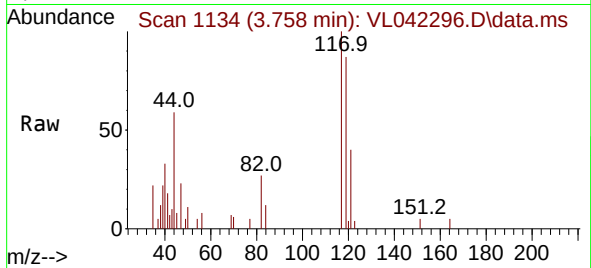
Tgt Ion:	43	Resp:	71103
Ion Ratio	Lower	Upper	
43	100		
72	20.4	18.2	27.2





#35
Carbon Tetrachloride
Concen: 0.076 ppbv
RT: 3.758 min Scan# 1134
Delta R.T. -0.000 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

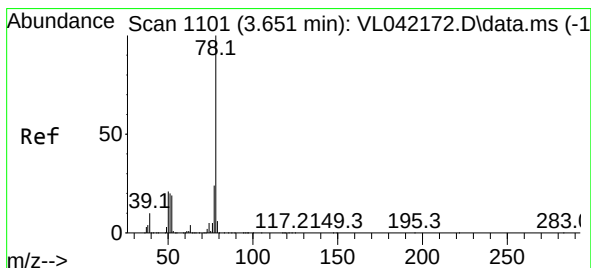
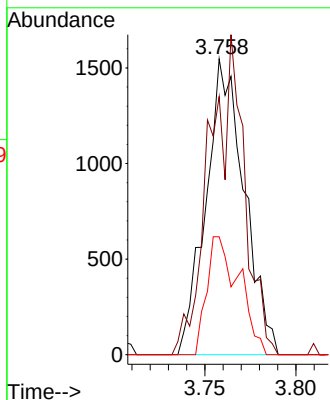
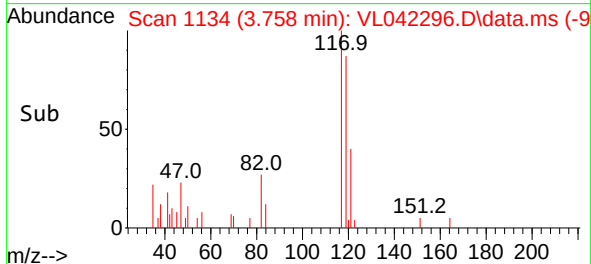
Instrument : MSVOA_L
ClientSampleId : IA-B9-3-3242025



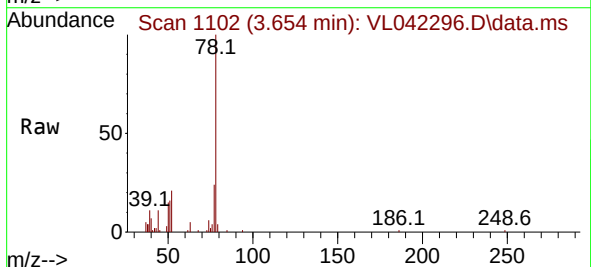
Tgt Ion: 117 Resp: 227
Ion Ratio Lower Upper
117 100
119 87.2 76.2 114.2
121 39.9 24.2 36.4

Manual Integrations
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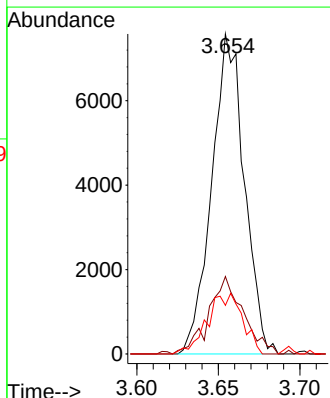
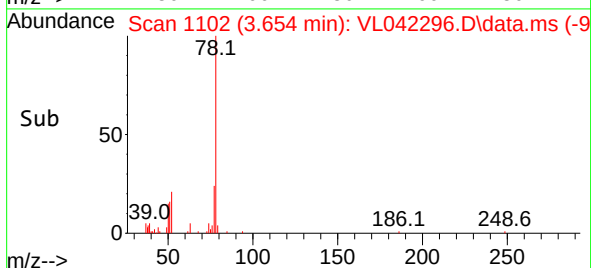
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

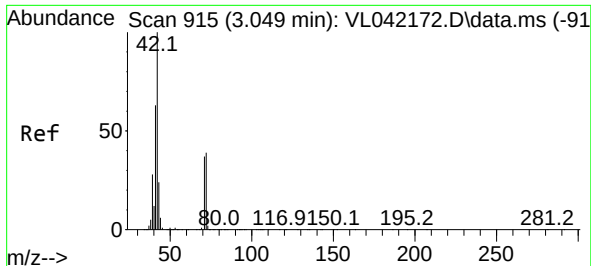


#36
Benzene
Concen: 0.276 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. 0.003 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57



Tgt Ion: 78 Resp: 10547
Ion Ratio Lower Upper
78 100
77 24.2 19.1 28.7
50 15.2 16.6 24.8





#41

Tetrahydrofuran

Concen: 0.279 ppbv

RT: 3.062 min Scan# 915

Delta R.T. 0.013 min

Lab File: VL042296.D

Acq: 09 Apr 2025 16:57

Instrument :

MSVOA_L

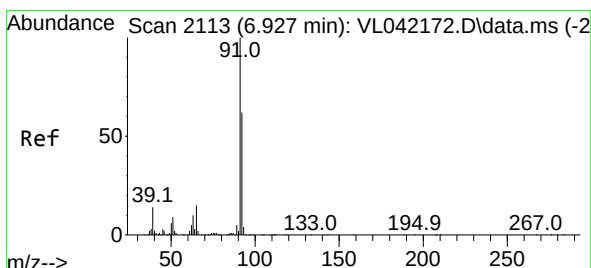
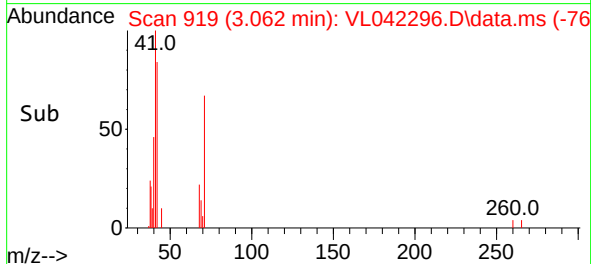
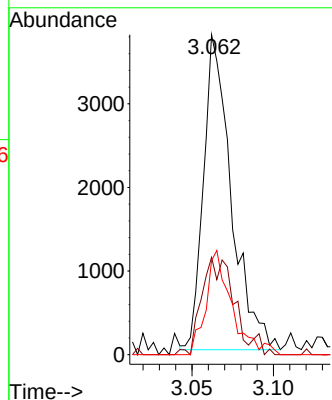
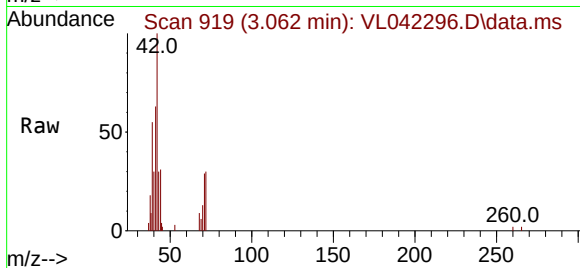
ClientSampleId :

IA-B9-3-3242025

Tgt Ion: 42	Resp: 448
Ion Ratio	Lower Upper
42 100	
72 36.6	31.4 47.0
71 30.6	30.2 45.4

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#53

Toluene

Concen: 0.532 ppbv

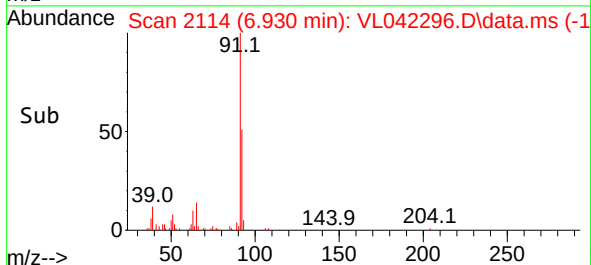
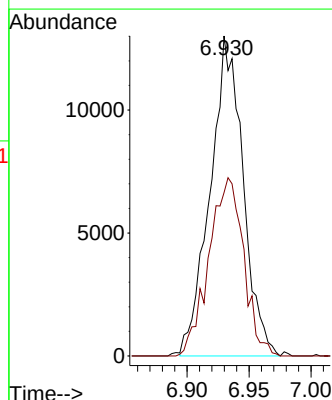
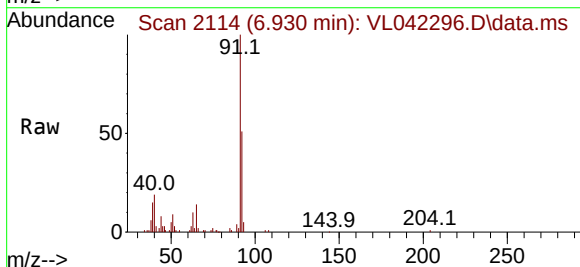
RT: 6.930 min Scan# 2114

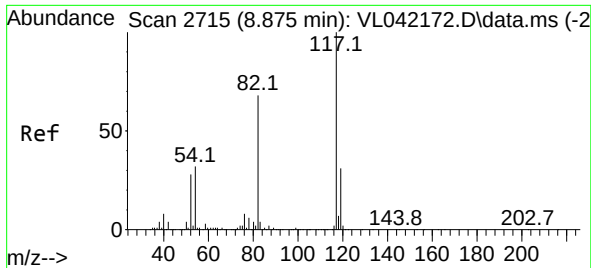
Delta R.T. 0.003 min

Lab File: VL042296.D

Acq: 09 Apr 2025 16:57

Tgt Ion: 91	Resp: 24055
Ion Ratio	Lower Upper
91 100	
92 58.8	48.4 72.6





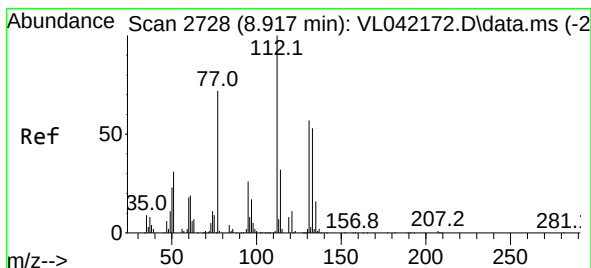
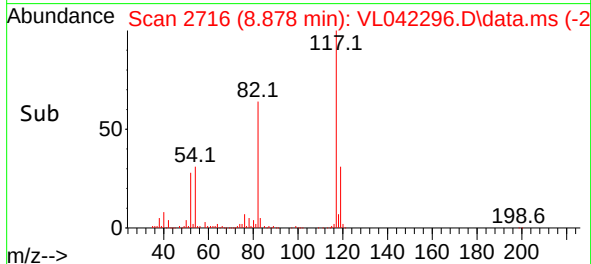
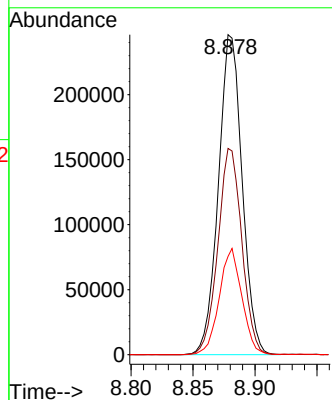
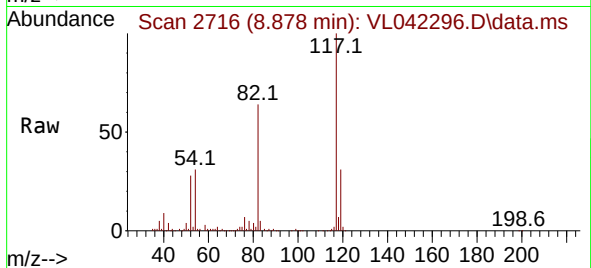
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2715
Delta R.T. 0.003 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

Instrument :
MSVOA_L
ClientSampleId :
IA-B9-3-3242025

Tgt Ion:117 Resp: 32913
Ion Ratio Lower Upper
117 100
82 64.9 55.8 83.6
119 31.8 25.5 38.3

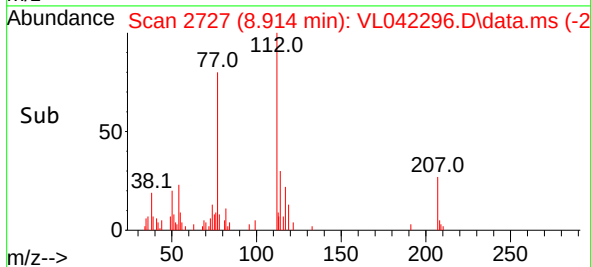
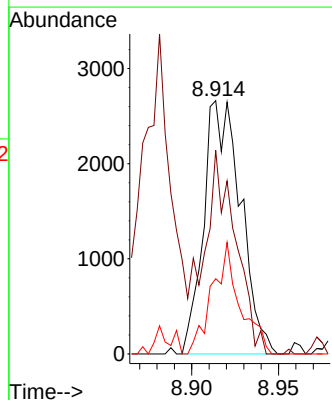
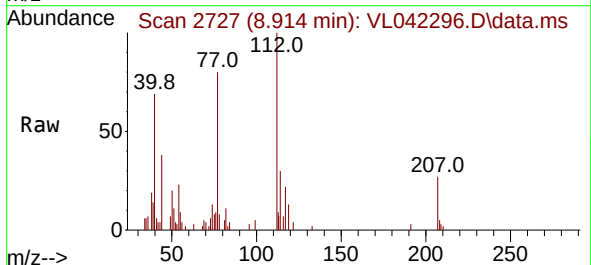
Manual Integrations
APPROVED

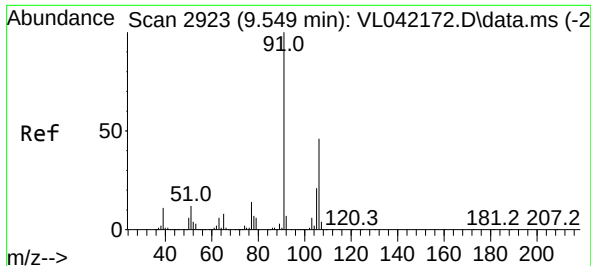
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#57
Chlorobenzene
Concen: 0.127 ppbv m
RT: 8.914 min Scan# 2727
Delta R.T. -0.004 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

Tgt Ion:112 Resp: 3957
Ion Ratio Lower Upper
112 100
77 80.4 58.2 87.2
114 29.7 29.1 35.5





#59

m/p-Xylene

Concen: 0.221 ppbv m

RT: 9.526 min Scan# 2916

Delta R.T. -0.023 min

Lab File: VL042296.D

Acq: 09 Apr 2025 16:57

Instrument :

MSVOA_L

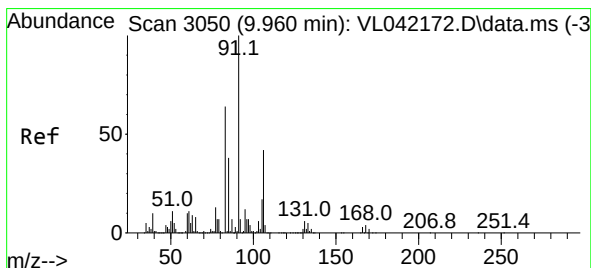
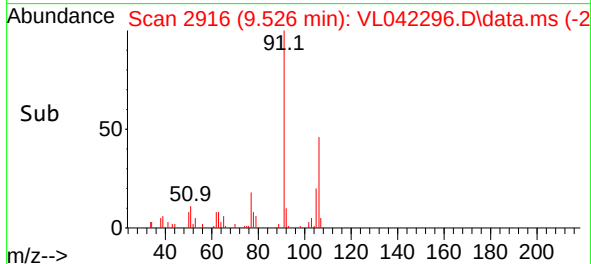
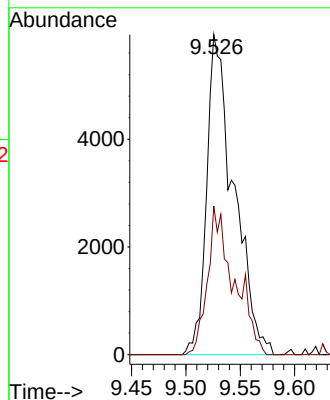
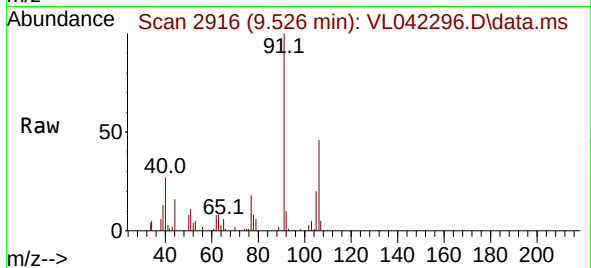
ClientSampleId :

IA-B9-3-3242025

Tgt Ion: 91 Resp: 10330
 Ion Ratio Lower Upper
 91 100
 106 0.0 36.4 54.6

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/10/2025
 Supervised By :Mahesh Dadoda 04/10/2025



#60

o-Xylene

Concen: 0.125 ppbv

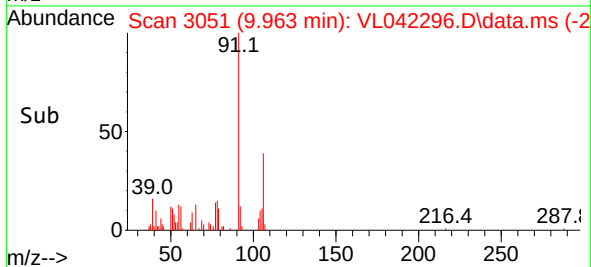
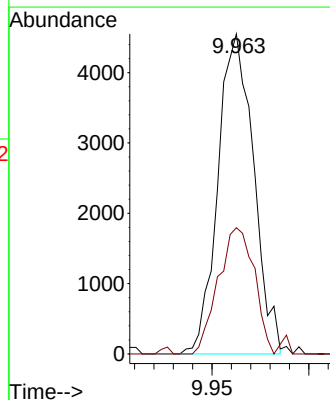
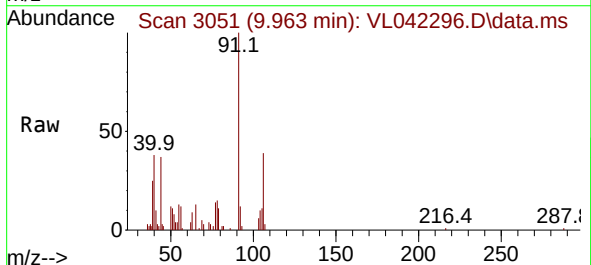
RT: 9.963 min Scan# 3051

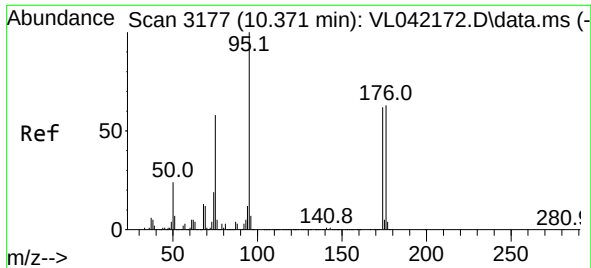
Delta R.T. 0.003 min

Lab File: VL042296.D

Acq: 09 Apr 2025 16:57

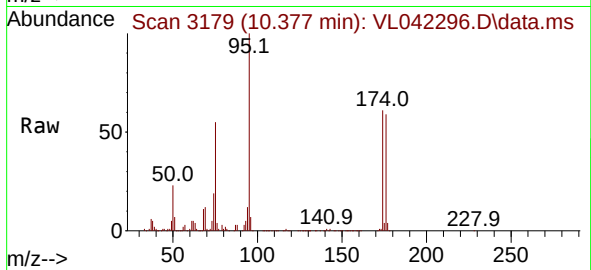
Tgt Ion: 91 Resp: 5830
 Ion Ratio Lower Upper
 91 100
 106 41.2 20.8 62.5





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.393 ppbv
 RT: 10.377 min Scan# 31
 Delta R.T. 0.006 min
 Lab File: VL042296.D
 Acq: 09 Apr 2025 16:57

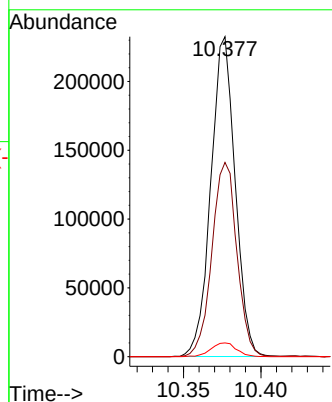
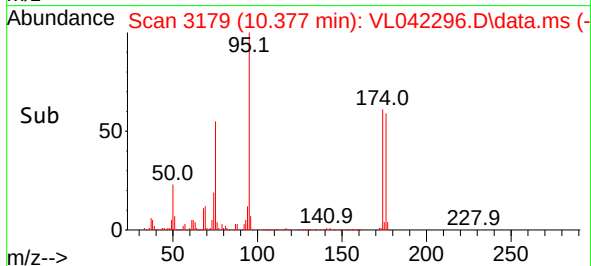
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B9-3-3242025



Tgt Ion: 95 Resp: 253889
 Ion Ratio Lower Upper
 95 100
 174 62.7 50.6 76.0
 175 4.6 3.8 5.6

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/10/2025
 Supervised By :Mahesh Dadoda 04/10/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042296.D
Acq On : 09 Apr 2025 16:57
Operator : SY/MD
Sample : Q1665-20
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B9-3-3242025

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\VL032725AIR.M

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

Signal : TIC: VL042296.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	4147564	4613089	100.00%	41.703%
2	1.486	430	432	440	rVB2	431303	237206	5.14%	2.144%
3	1.557	451	454	459	rVB	121041	68488	1.48%	0.619%
4	1.622	470	474	478	rVB	140859	77881	1.69%	0.704%
5	1.722	500	505	509	rBV	97715	61161	1.33%	0.553%
6	1.774	516	521	526	rBV	86096	57793	1.25%	0.522%
7	1.835	535	540	549	rBV	420077	335010	7.26%	3.029%
8	1.884	549	555	568	rVV	1245434	854542	18.52%	7.725%
9	1.962	575	579	584	rVB	72958	50416	1.09%	0.456%
10	2.059	599	609	614	rBV2	75192	67543	1.46%	0.611%
11	2.557	756	763	775	rBV	116113	116075	2.52%	1.049%
12	2.787	824	834	840	rBV	575581	594126	12.88%	5.371%
13	2.826	840	846	858	rVB2	176209	207363	4.50%	1.875%
14	3.959	1181	1196	1212	rBV	711852	1050717	22.78%	9.499%
15	6.930	2102	2114	2128	rBV4	33782	74089	1.61%	0.670%
16	8.878	2705	2716	2727	rBV	847108	1165848	25.27%	10.540%
17	10.377	3162	3179	3188	rBV	1078468	1215713	26.35%	10.990%
18	10.807	3303	3312	3320	rBV2	104007	129076	2.80%	1.167%
19	10.856	3320	3327	3335	rVB2	67442	85501	1.85%	0.773%

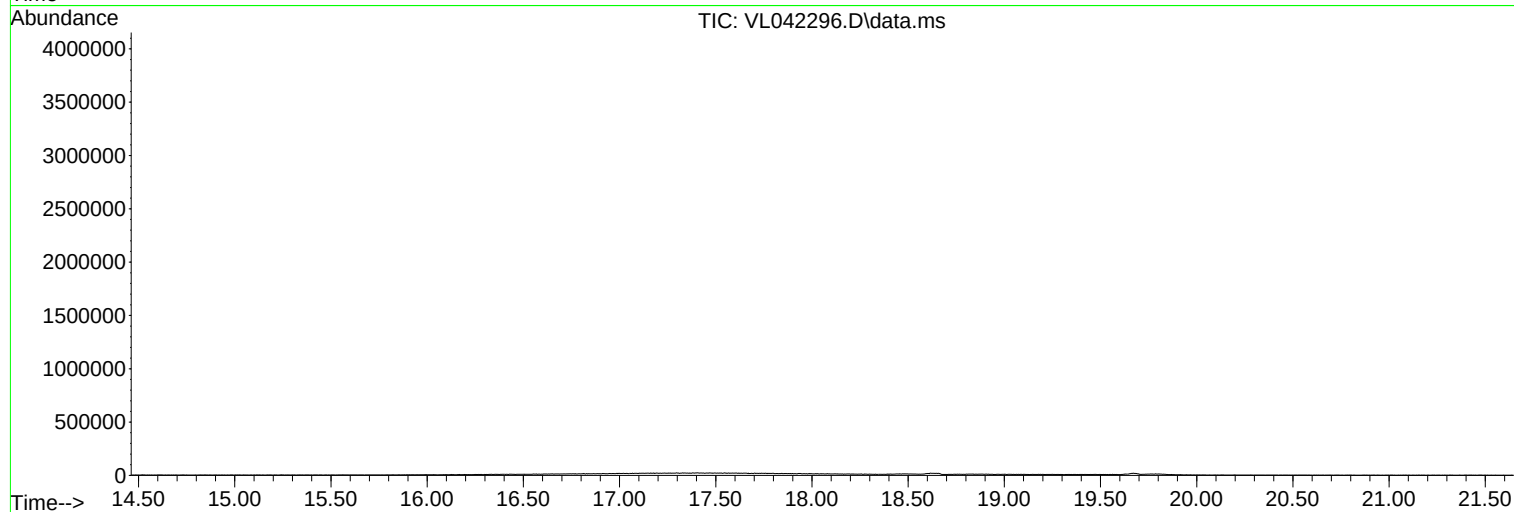
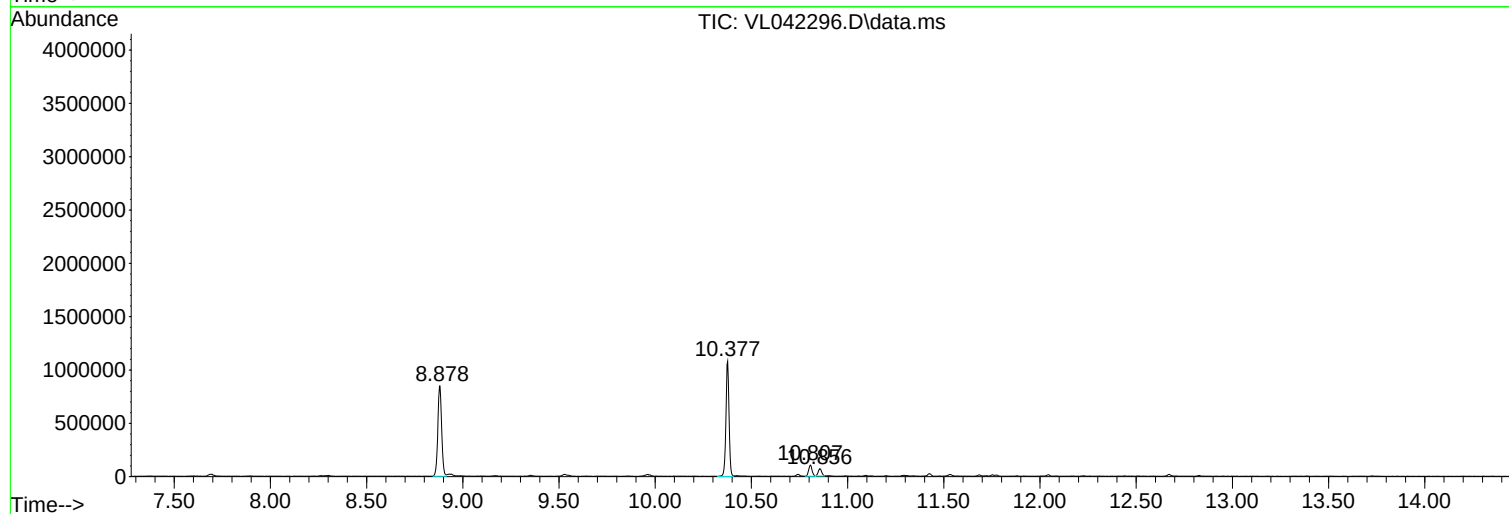
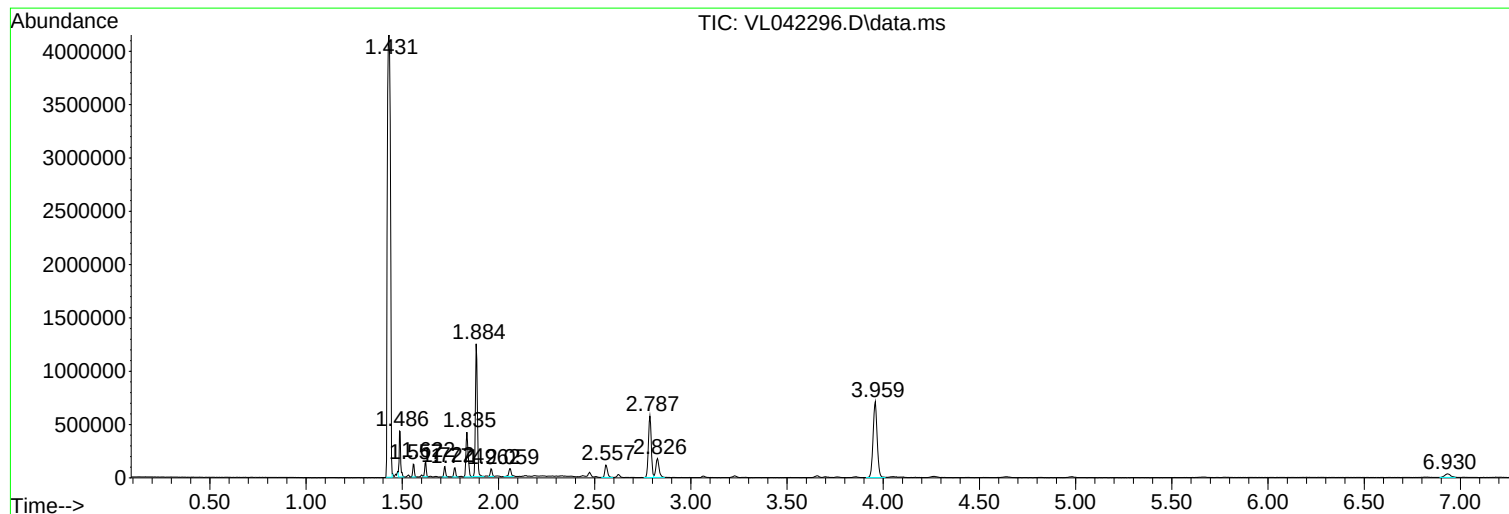
Sum of corrected areas: 11061637

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042296.D
Acq On : 09 Apr 2025 16:57
Operator : SY/MD
Sample : Q1665-20
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B9-3-3242025

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

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042296.D
Acq On : 09 Apr 2025 16:57
Operator : SY/MD
Sample : Q1665-20
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B9-3-3242025

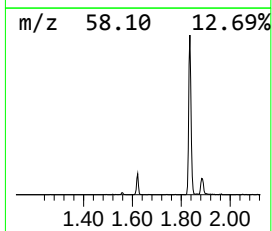
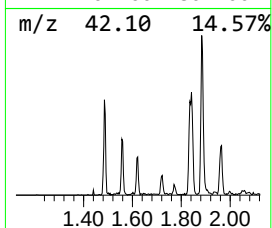
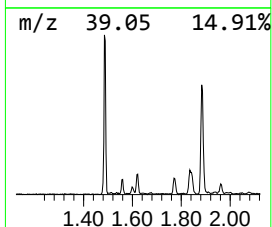
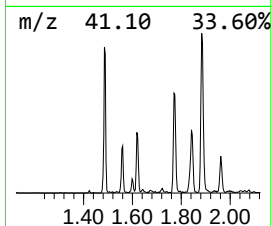
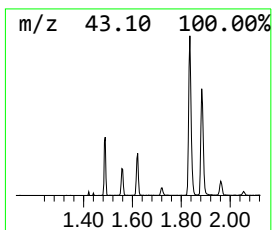
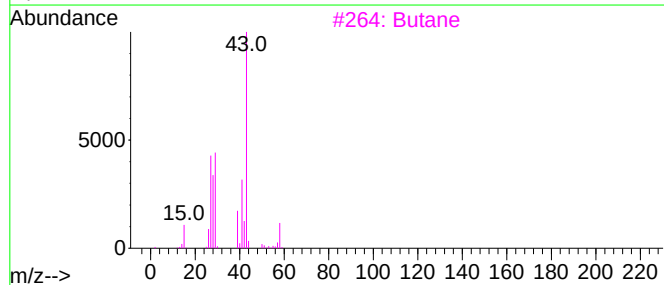
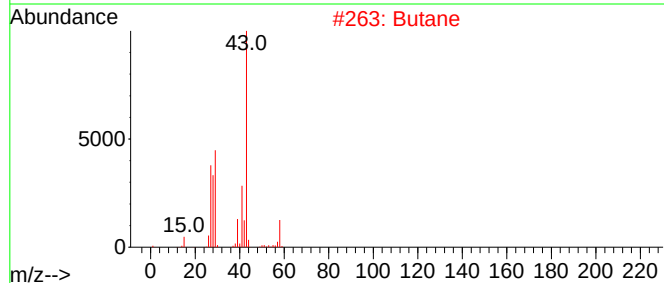
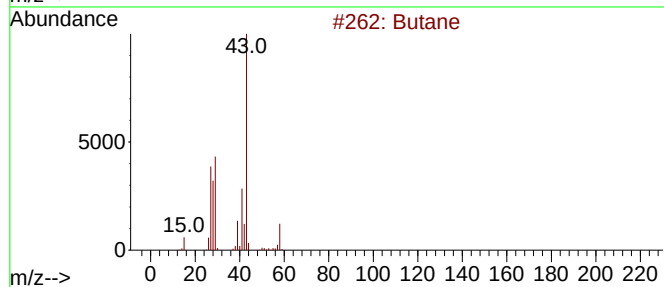
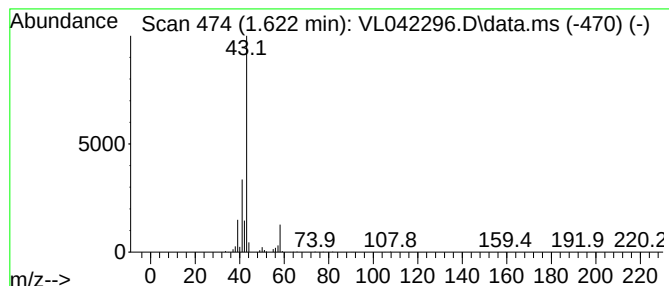
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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	1.31 ppbv	77881	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	64
4	Butane			58	C4H10	000106-97-8	64
5	Formic acid, chloro-, (3,4,4-tri...			194	C7H11ClO4	107323-92-2	56



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042296.D
Acq On : 09 Apr 2025 16:57
Operator : SY/MD
Sample : Q1665-20
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B9-3-3242025

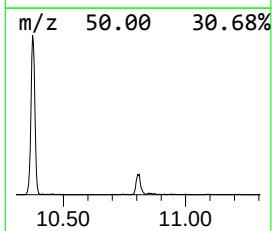
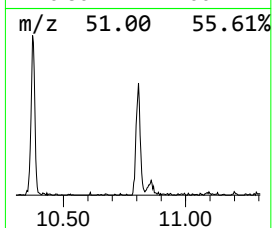
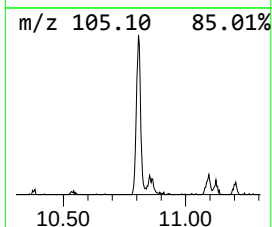
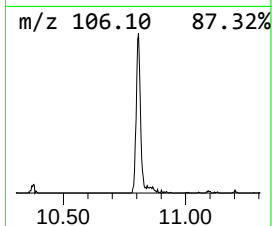
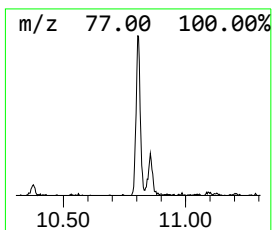
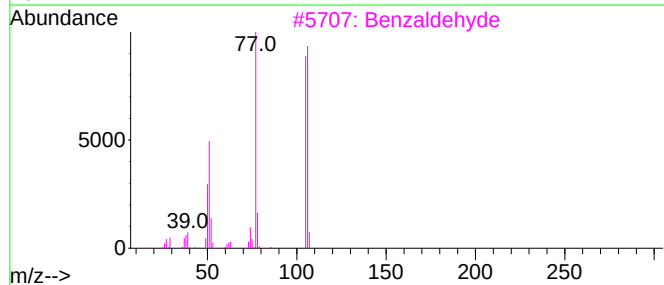
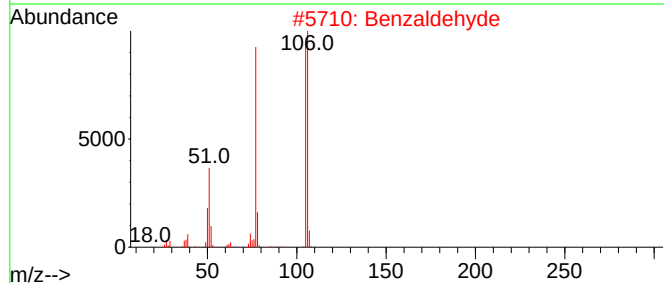
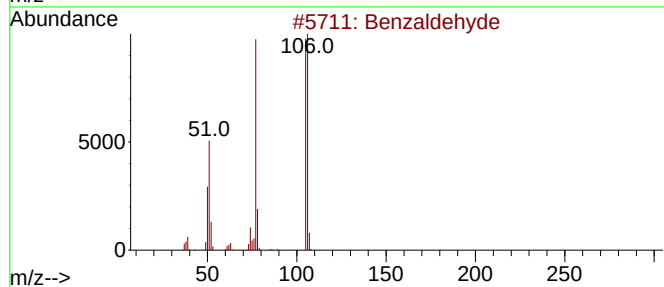
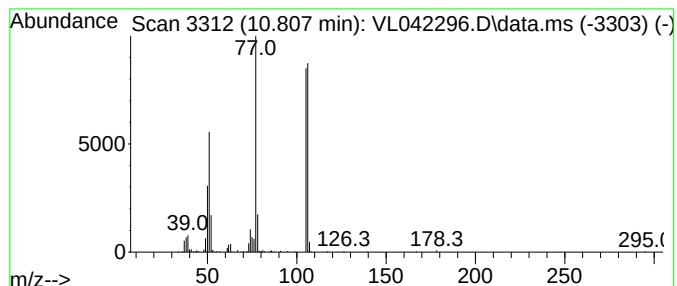
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 2 Benzaldehyde Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.807	1.11 ppbv	129076	Chlorobenzene-d5	8.878

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzaldehyde	106	C7H6O	000100-52-7	95
2			Benzaldehyde	106	C7H6O	000100-52-7	95
3			Benzaldehyde	106	C7H6O	000100-52-7	94
4			Benzaldehyde	106	C7H6O	000100-52-7	94
5			Benzaldehyde	106	C7H6O	000100-52-7	94



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042296.D
Acq On : 09 Apr 2025 16:57
Operator : SY/MD
Sample : Q1665-20
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B9-3-3242025

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

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	1.3	ppbv	77881	1	2.787	594126	10.0
Benzaldehyde	10.807	1.1	ppbv	129076	3	8.878	1165850	10.0



CALIBRATION SUMMARY

1
2
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18

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)		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)		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)		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)		n-propylbenzene			0.578	0.581	0.576	0.499	0.502	0.547	7.81
65)		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)		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)		p-Isopropyltol...			2.554	2.551	2.560	2.078	2.025	2.354	11.74
70)		n-Butylbenzene			2.536	2.598	2.682	2.137	2.082	2.407	11.51
71)		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

Reviewed By : Semsettin Yesilyurt 03/31/2025
 Supervised By : Mahesh Dadoda 04/03/2025

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

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

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

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)
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

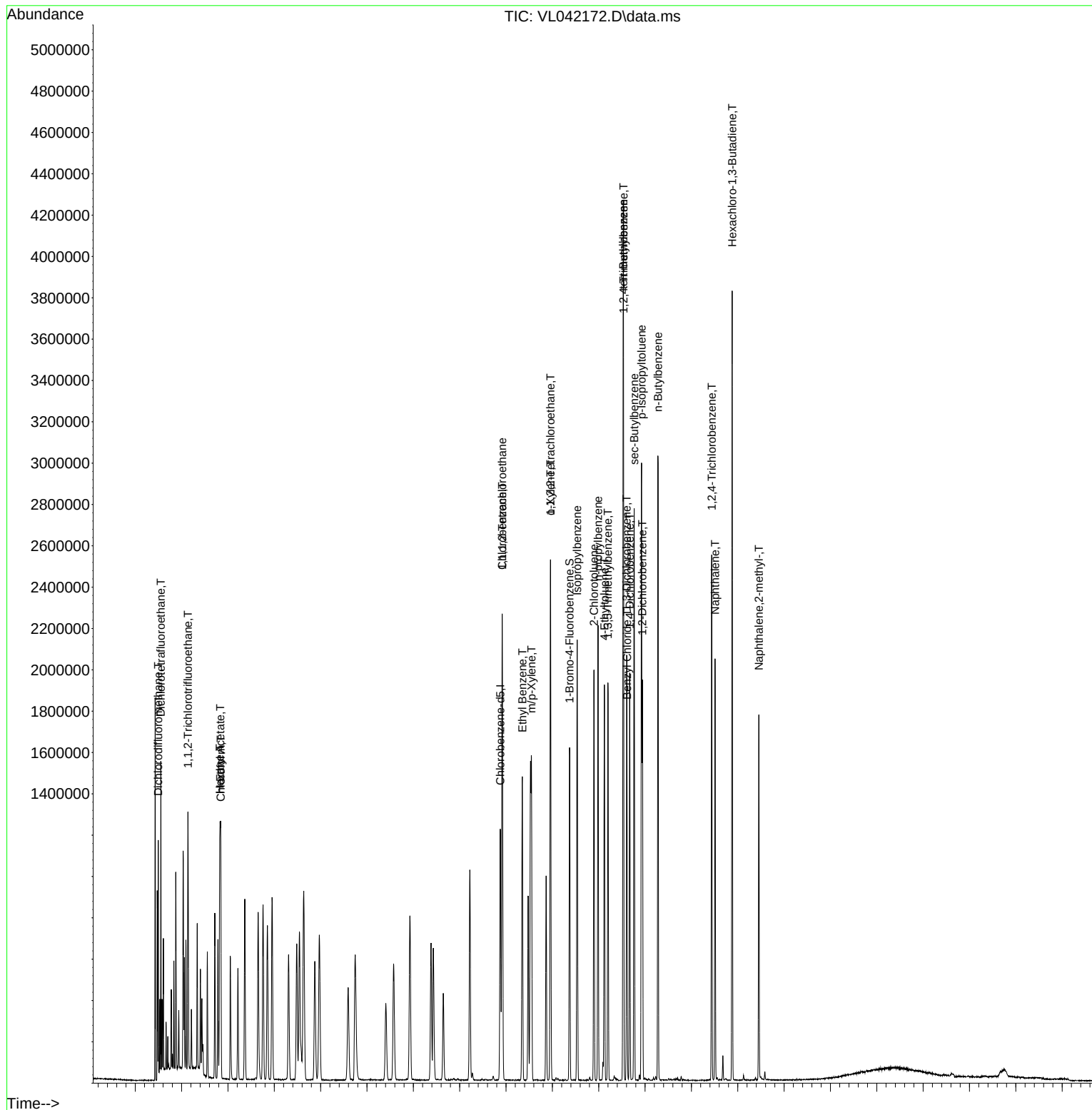
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042172.D
Acq On : 27 Mar 2025 08:26
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

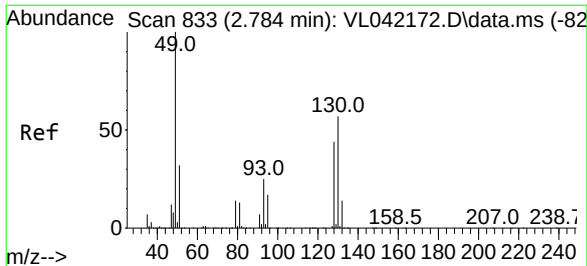
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

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_LFri Aug
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

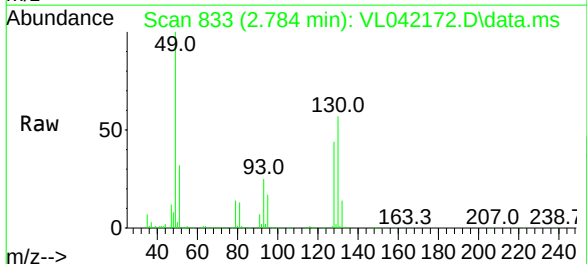
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 833
Delta R.T. -0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

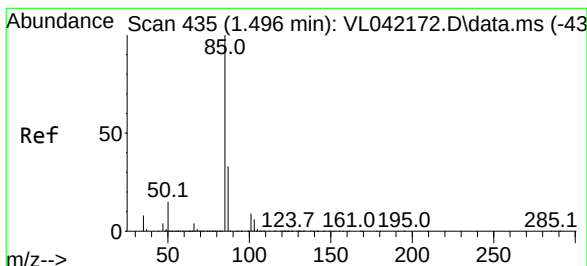
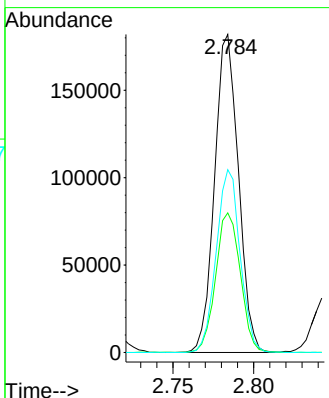
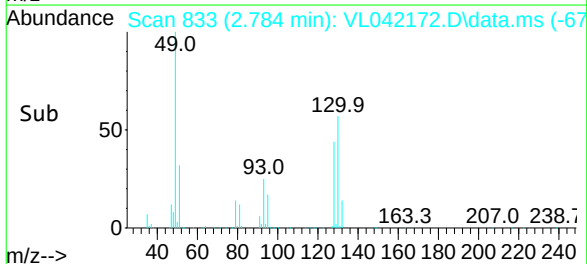
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



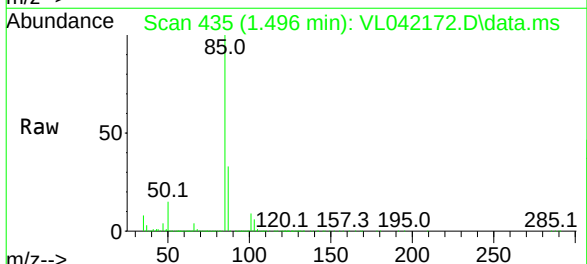
Tgt Ion: 49 Resp: 187002
Ion Ratio Lower Upper
49 100
128 45.7 22.9 68.5
130 57.6 28.8 86.4

Manual Integrations
APPROVED

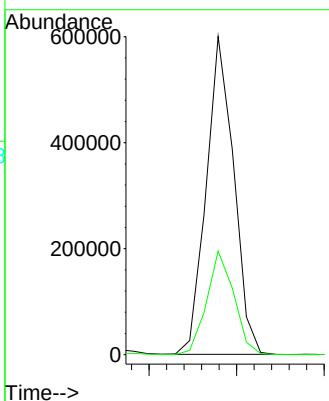
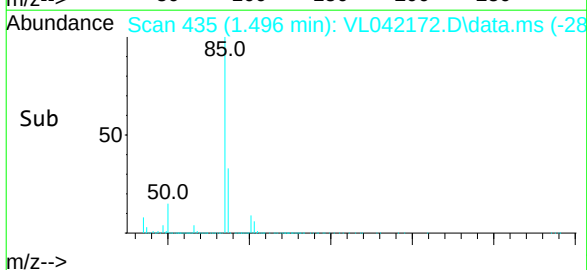
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

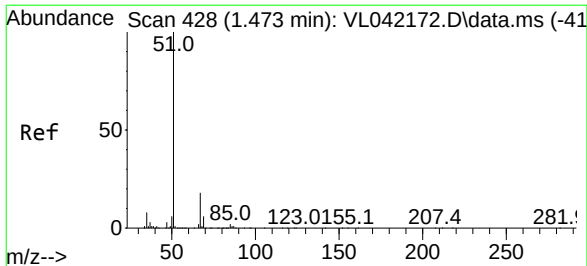


#2
Dichlorodifluoromethane
Concen: 9.507 ppbv
RT: 1.496 min Scan# 435
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26



Tgt Ion: 85 Resp: 262496
Ion Ratio Lower Upper
85 100
87 32.6 26.1 39.1





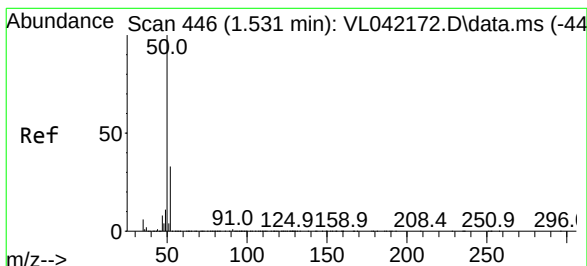
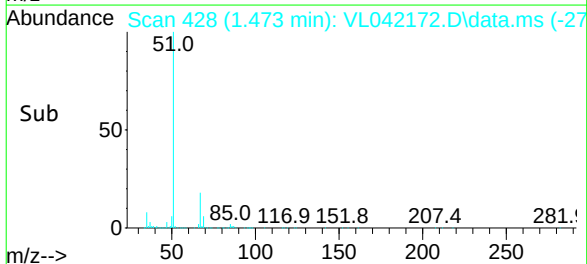
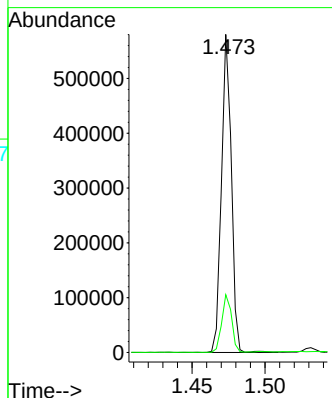
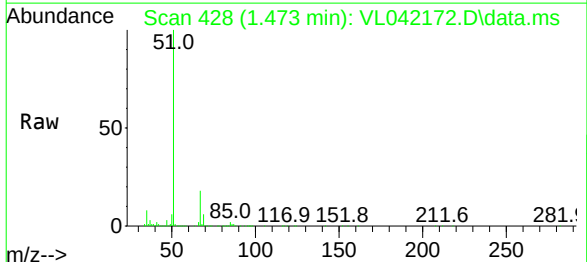
#3
Chlorodifluoromethane
Concen: 9.662 ppbv
RT: 1.473 min Scan# 428
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 51 Resp: 272522
Ion Ratio Lower Upper
51 100
67 18.8 15.0 22.6

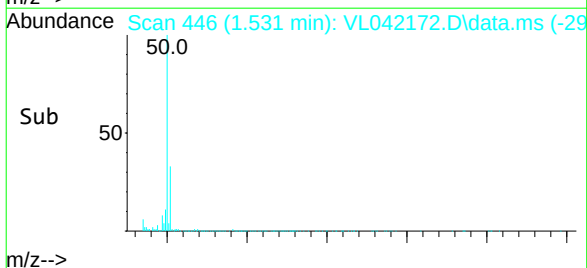
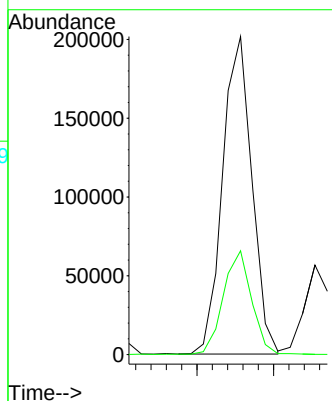
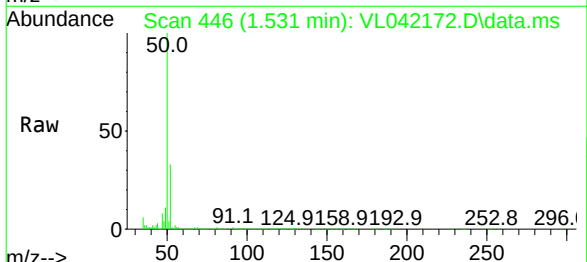
Manual Integrations
APPROVED

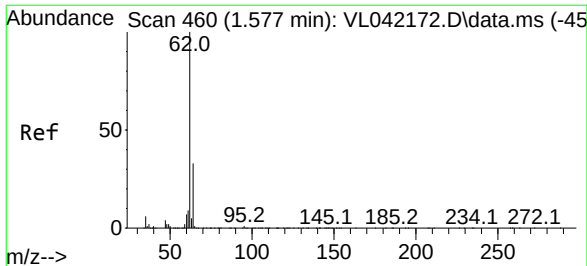
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#4
Chloromethane
Concen: 9.491 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 50 Resp: 107099
Ion Ratio Lower Upper
50 100
52 32.6 26.1 39.1





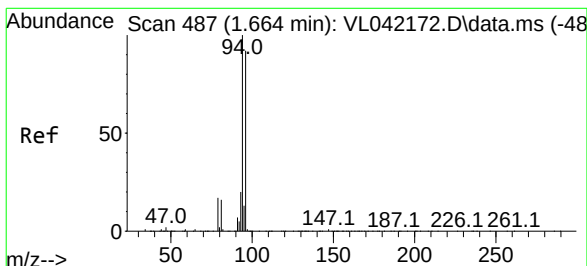
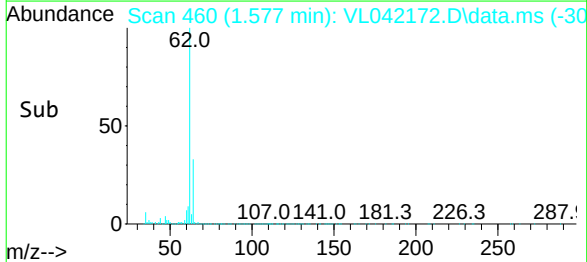
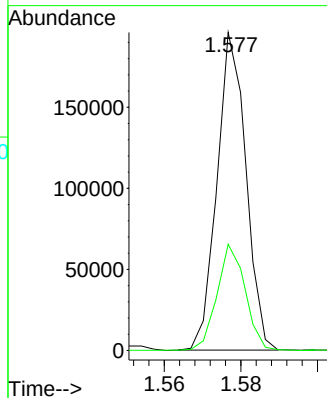
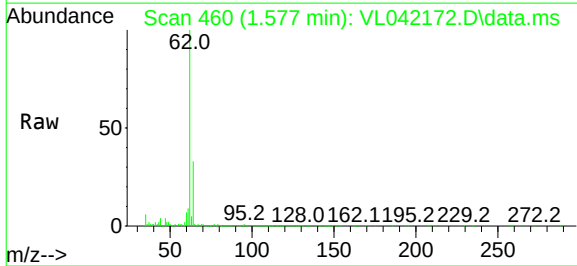
#5
 Vinyl Chloride
 Concen: 8.925 ppbv
 RT: 1.577 min Scan# 460
 Delta R.T. 0.000 min
 Lab File: VL042172.D
 Acq: 27 Mar 2025 08:26

Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

Tgt Ion: 62 Resp: 102699
 Ion Ratio Lower Upper
 62 100
 64 33.3 26.6 40.0

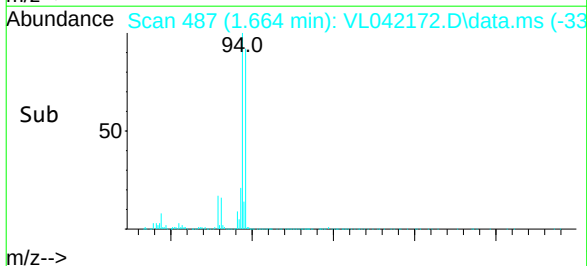
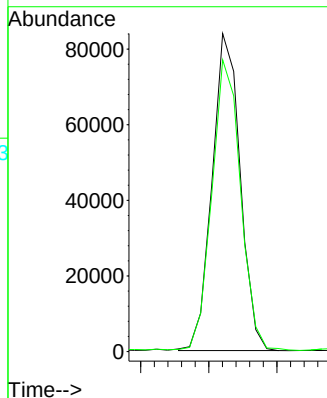
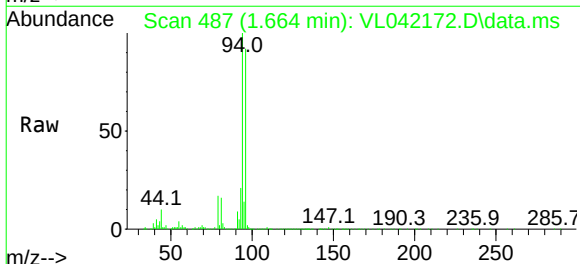
Manual Integrations
 APPROVED

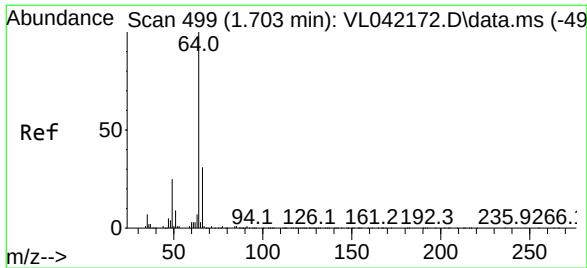
Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025



#6
 Bromomethane
 Concen: 9.377 ppbv
 RT: 1.664 min Scan# 487
 Delta R.T. 0.000 min
 Lab File: VL042172.D
 Acq: 27 Mar 2025 08:26

Tgt Ion: 94 Resp: 47950
 Ion Ratio Lower Upper
 94 100
 96 91.4 73.1 109.7





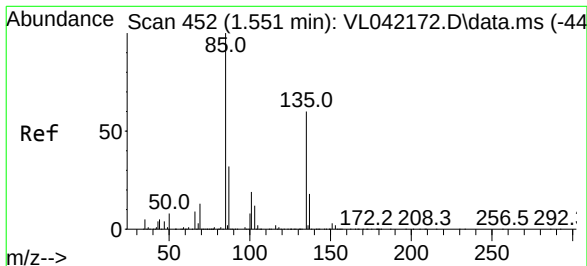
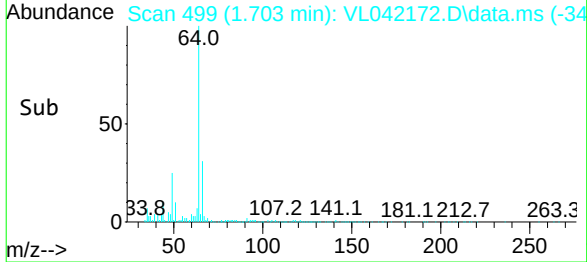
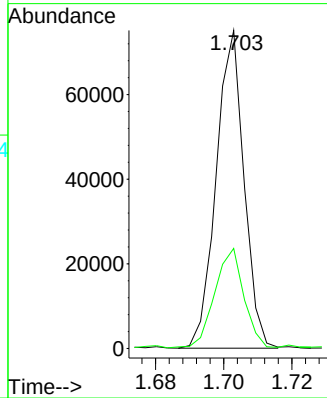
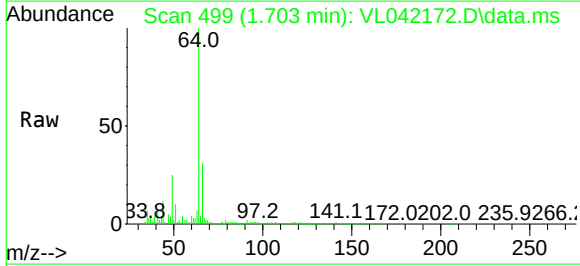
#7
Chloroethane
Concen: 9.387 ppbv
RT: 1.703 min Scan# 499
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 64 Resp: 42516
Ion Ratio Lower Upper
64 100
66 31.5 25.2 37.8

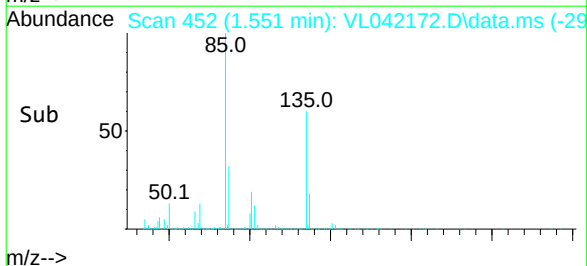
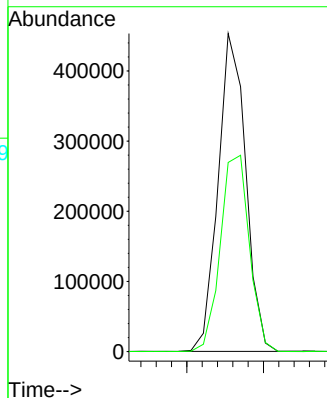
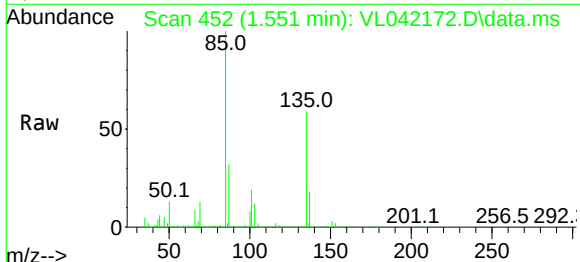
Manual Integrations
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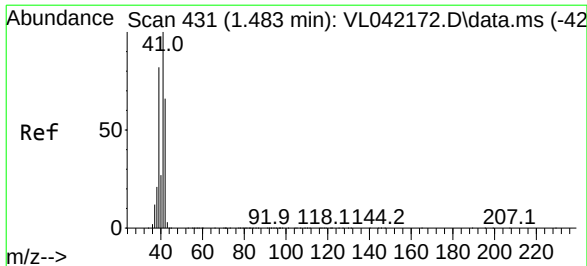
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#8
Dichlorotetrafluoroethane
Concen: 9.656 ppbv
RT: 1.551 min Scan# 452
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

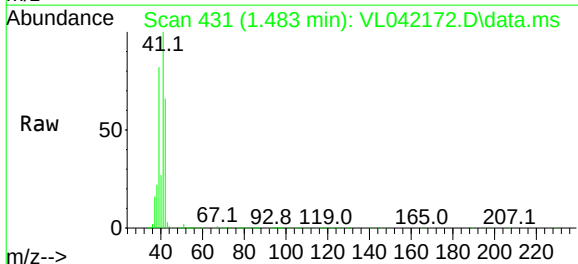
Tgt Ion: 85 Resp: 227041
Ion Ratio Lower Upper
85 100
135 65.5 52.4 78.6





#9
 Propene
 Concen: 9.709 ppbv
 RT: 1.483 min Scan# 431
 Delta R.T. 0.000 min
 Lab File: VL042172.D
 Acq: 27 Mar 2025 08:26

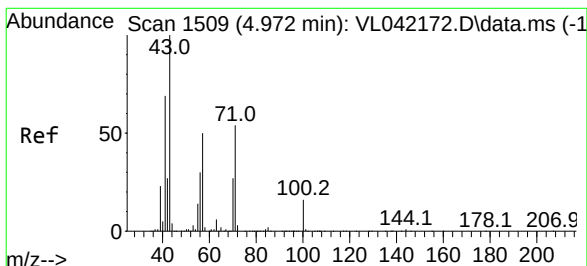
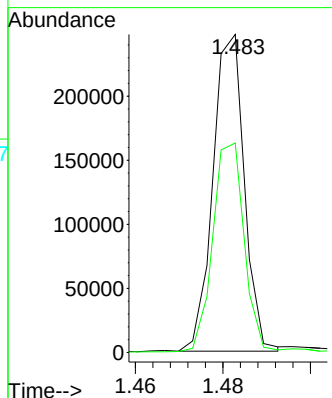
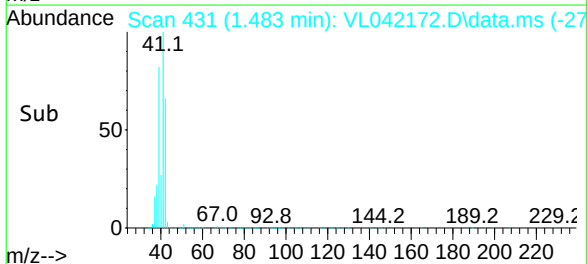
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



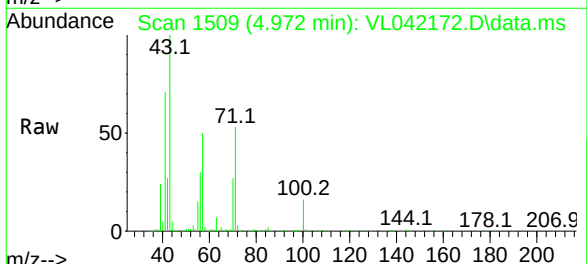
Tgt Ion: 41 Resp: 123386
 Ion Ratio Lower Upper
 41 100
 42 69.3 55.4 83.2

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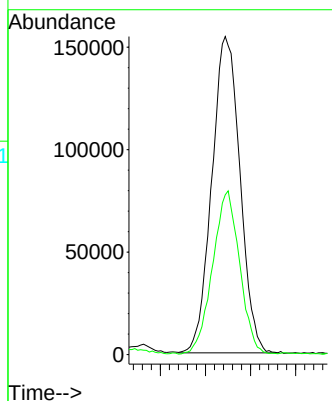
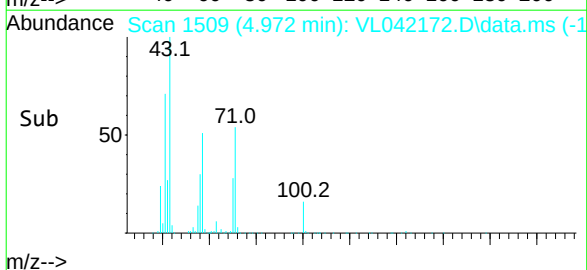
Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025

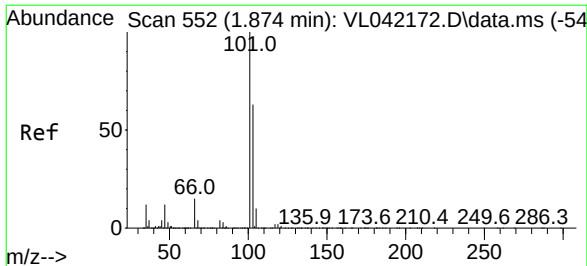


#10
 Heptane
 Concen: 9.744 ppbv
 RT: 4.972 min Scan# 1509
 Delta R.T. 0.000 min
 Lab File: VL042172.D
 Acq: 27 Mar 2025 08:26



Tgt Ion: 43 Resp: 335086
 Ion Ratio Lower Upper
 43 100
 57 49.3 39.4 59.2





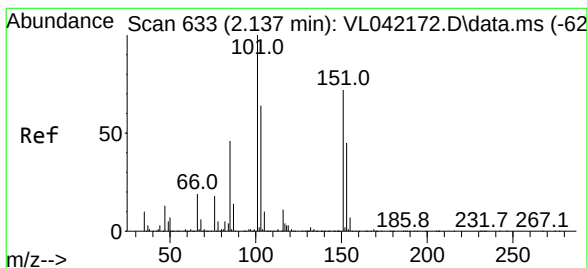
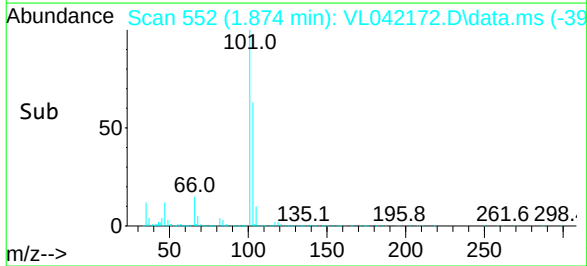
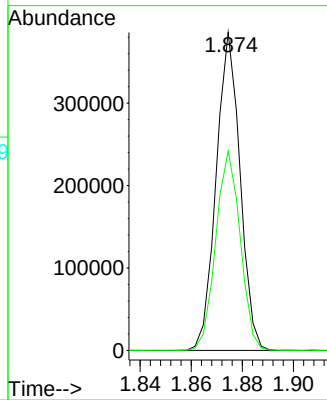
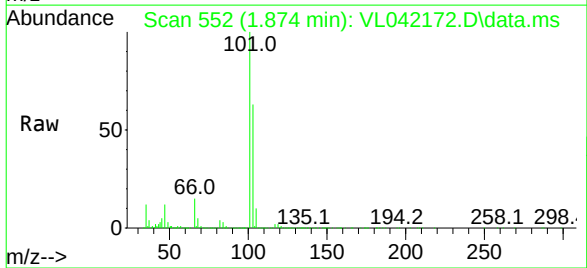
#11
Trichlorofluoromethane
Concen: 9.318 ppbv
RT: 1.874 min Scan# 552
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:101 Resp: 250349
Ion Ratio Lower Upper
101 100
103 62.7 50.2 75.2

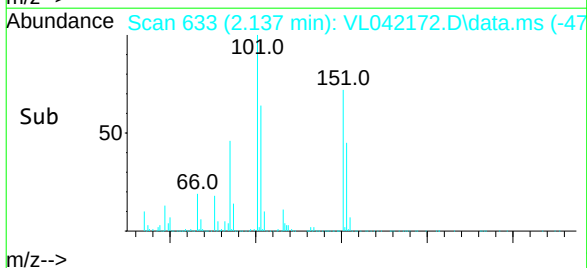
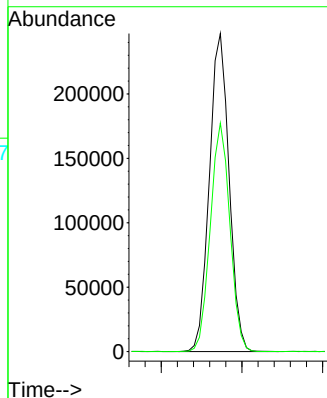
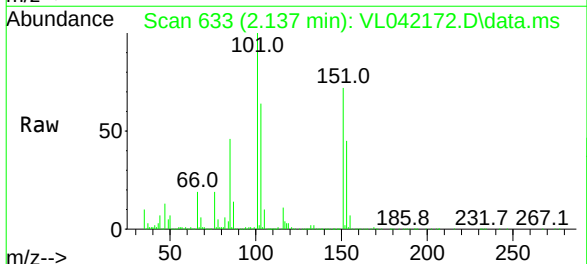
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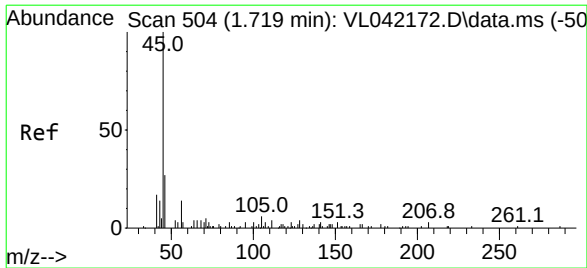
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.481 ppbv
RT: 2.137 min Scan# 633
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion:101 Resp: 209365
Ion Ratio Lower Upper
101 100
151 71.4 57.1 85.7





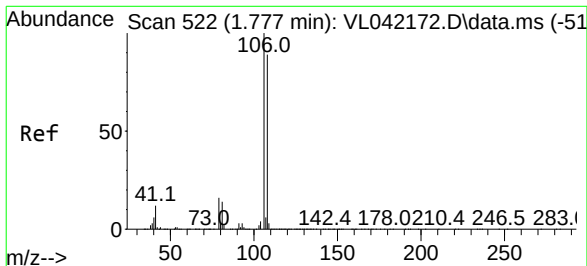
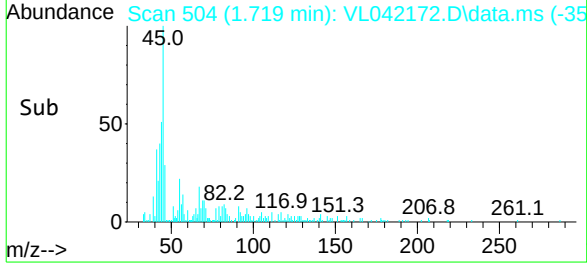
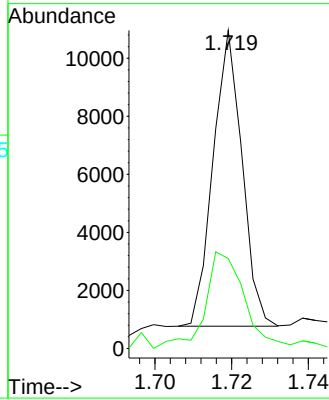
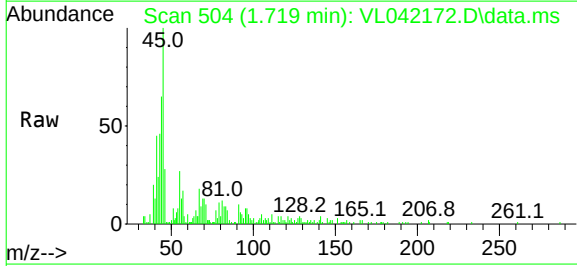
#13
Ethanol
Concen: 5.364 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 45 Resp: 5338
Ion Ratio Lower Upper
45 100
46 50.5 20.2 80.8

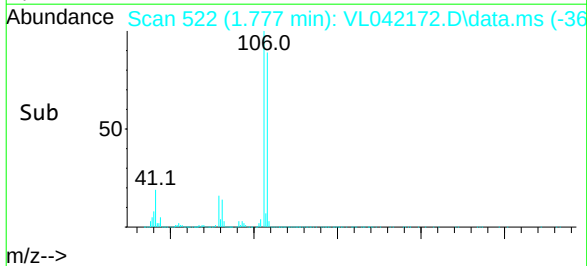
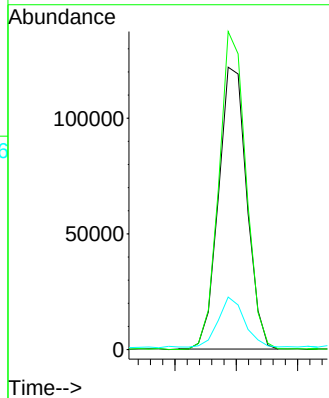
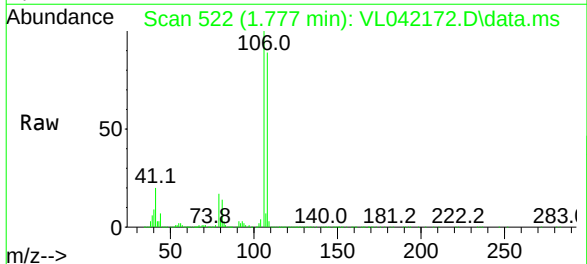
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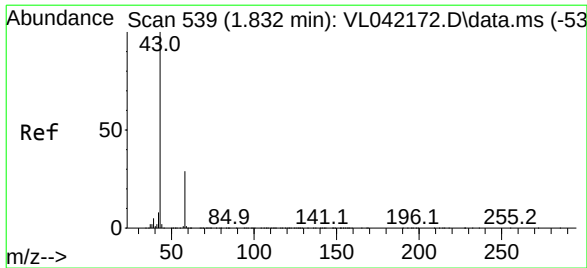
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#14
Bromoethene
Concen: 9.220 ppbv
RT: 1.777 min Scan# 522
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion:108 Resp: 77999
Ion Ratio Lower Upper
108 100
106 108.5 86.8 130.2
79 18.8 15.0 22.6





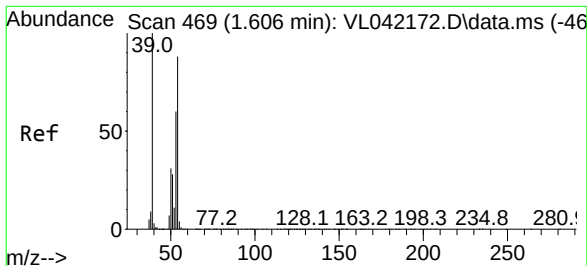
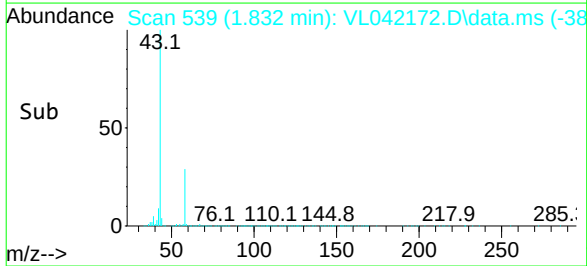
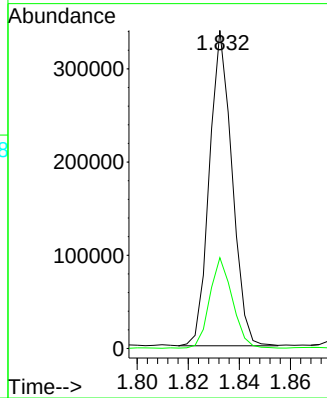
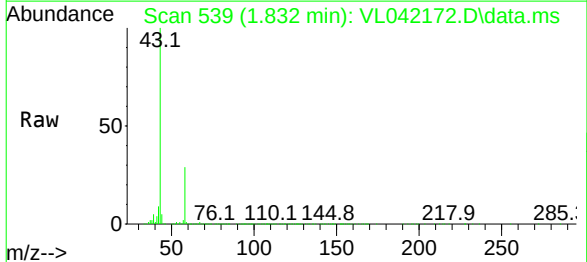
#15
Acetone
Concen: 7.955 ppbv
RT: 1.832 min Scan# 539
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 43 Resp: 208061
Ion Ratio Lower Upper
43 100
58 29.0 23.2 34.8

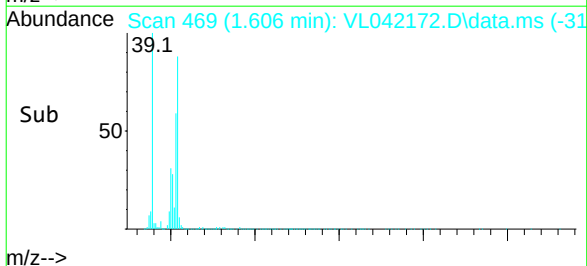
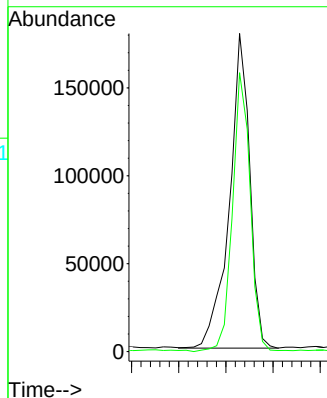
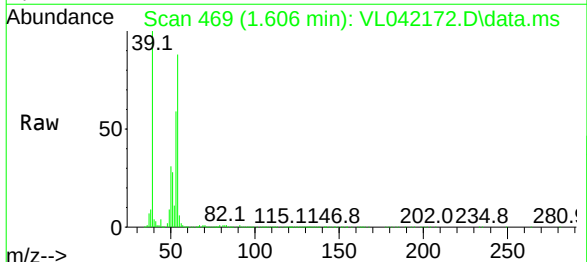
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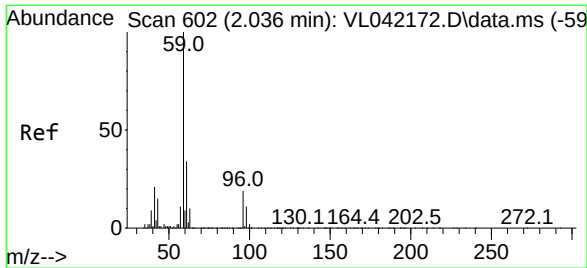
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#16
1,3-Butadiene
Concen: 9.105 ppbv
RT: 1.606 min Scan# 469
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 39 Resp: 107104
Ion Ratio Lower Upper
39 100
54 75.9 60.7 91.1





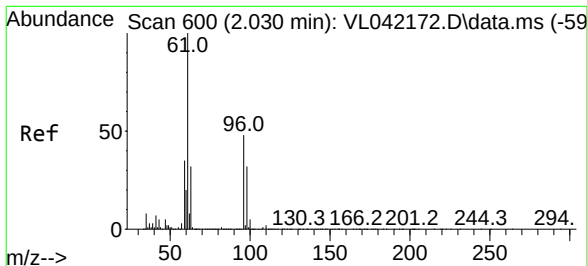
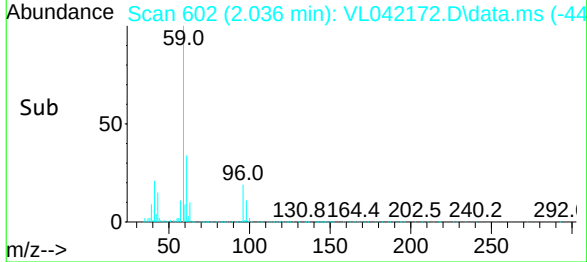
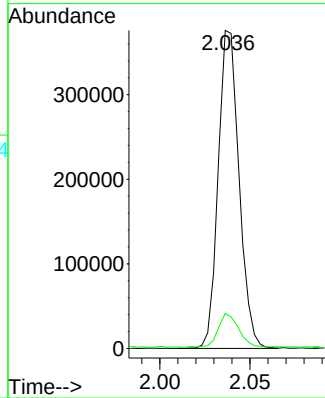
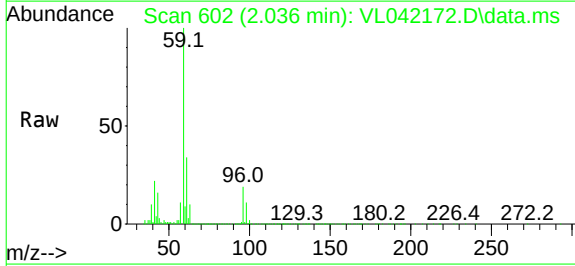
#17
tert-Butyl alcohol
Concen: 9.290 ppbv
RT: 2.036 min Scan# 602
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 59 Resp: 302616
Ion Ratio Lower Upper
59 100
57 11.1 8.9 13.3

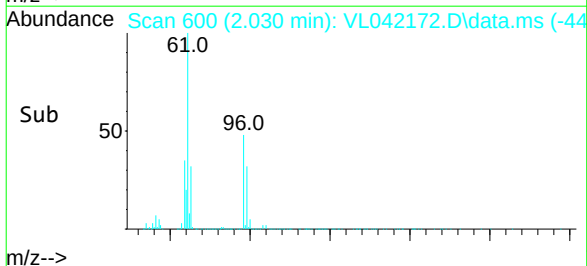
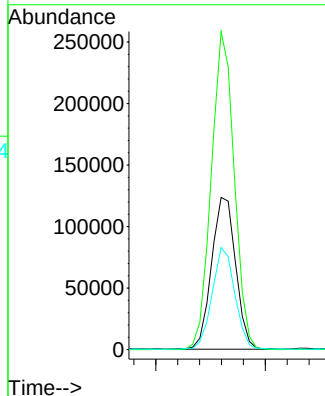
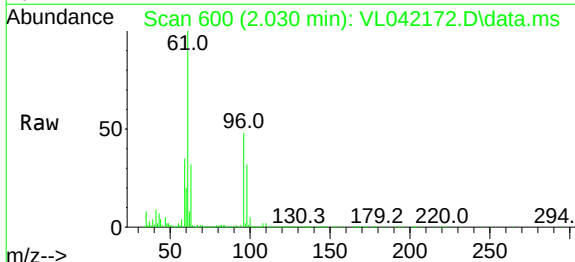
Manual Integrations
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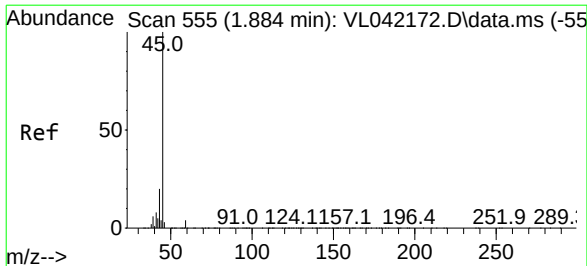
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#18
1,1-Dichloroethene
Concen: 9.128 ppbv
RT: 2.030 min Scan# 600
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 96 Resp: 94236
Ion Ratio Lower Upper
96 100
61 209.5 167.6 251.4
98 66.9 53.5 80.3





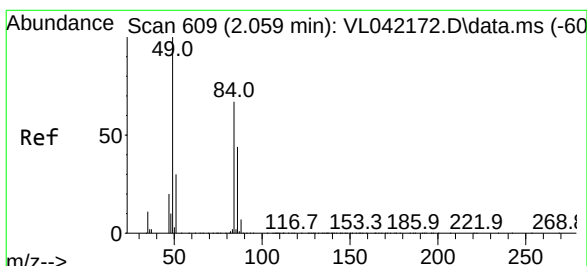
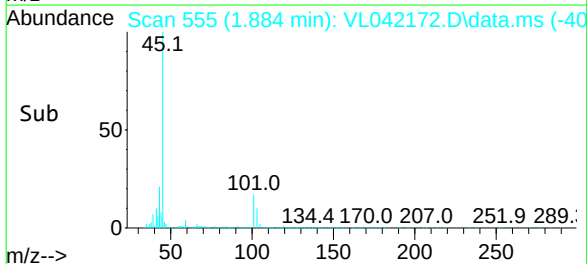
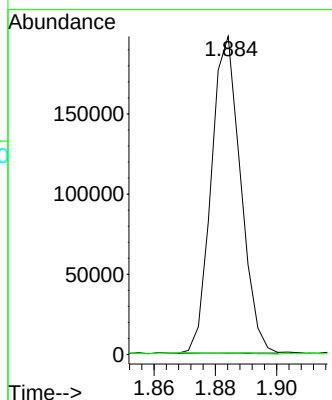
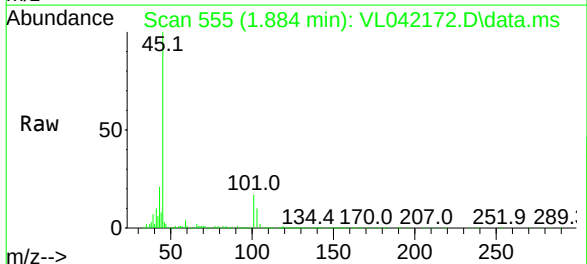
#19
Isopropyl Alcohol
Concen: 8.902 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 45 Resp: 131359
Ion Ratio Lower Upper
45 100
58 46.1 36.9 55.3

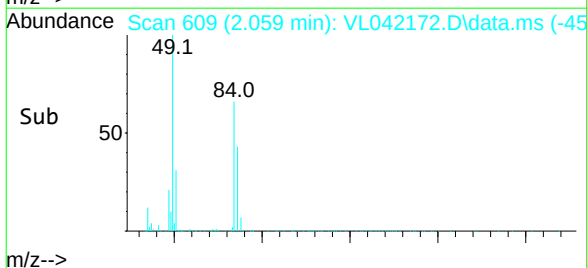
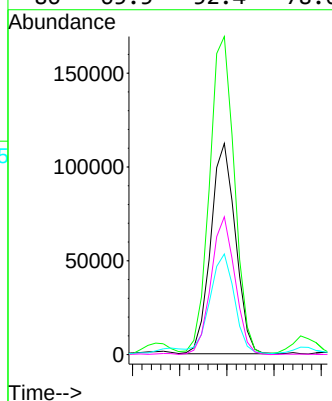
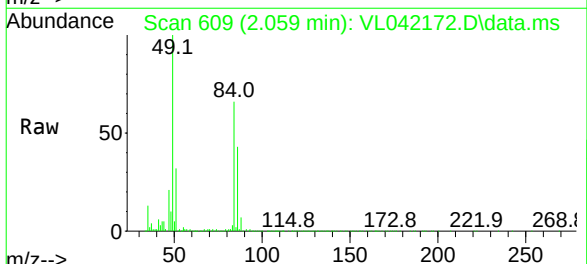
Manual Integrations
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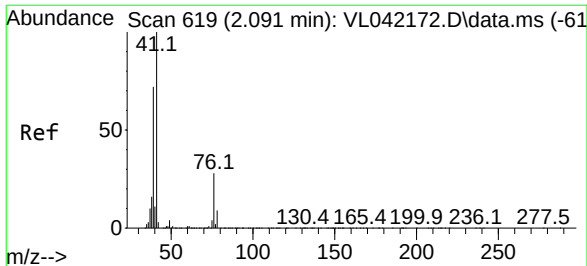
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#20
Methylene Chloride
Concen: 8.401 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 84 Resp: 81828
Ion Ratio Lower Upper
84 100
49 150.3 120.2 180.4
51 46.7 37.4 56.0
86 65.5 52.4 78.6





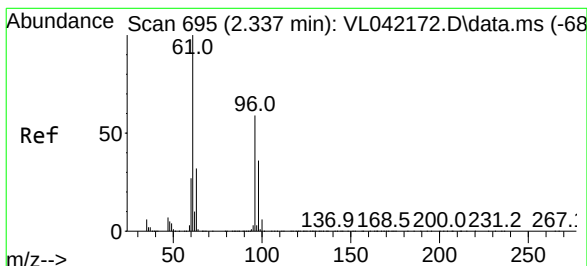
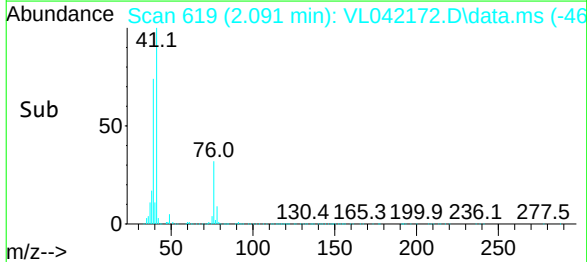
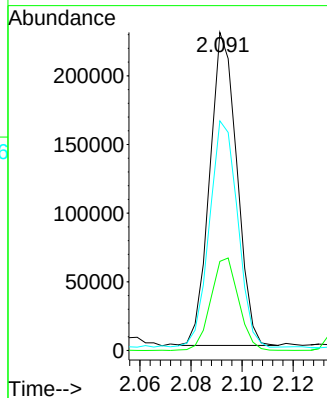
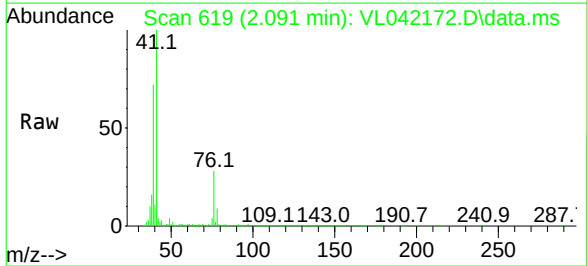
#21
 Allyl Chloride
 Concen: 9.141 ppbv
 RT: 2.091 min Scan# 619
 Delta R.T. 0.000 min
 Lab File: VL042172.D
 Acq: 27 Mar 2025 08:26

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tgt Ion: 41 Resp: 168602
 Ion Ratio Lower Upper
 41 100
 76 30.1 24.1 36.1
 39 76.4 61.1 91.7

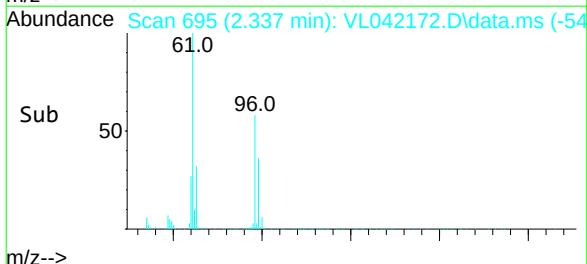
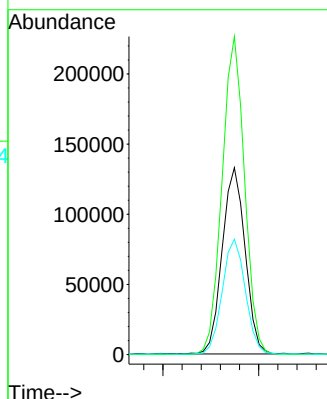
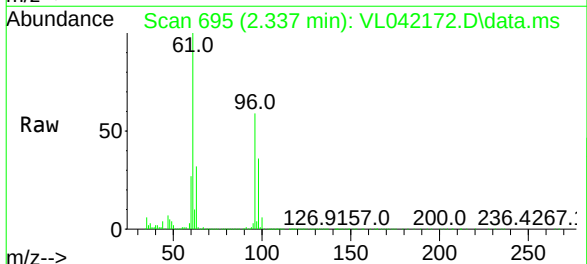
Manual Integrations
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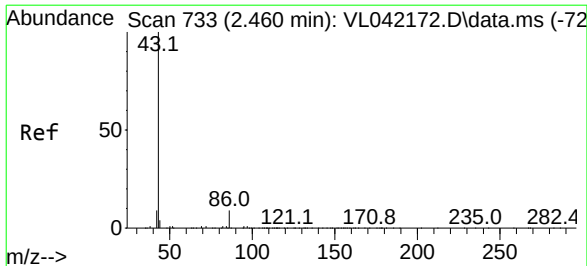
Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025



#22
 trans-1,2-Dichloroethene
 Concen: 9.149 ppbv
 RT: 2.337 min Scan# 695
 Delta R.T. 0.000 min
 Lab File: VL042172.D
 Acq: 27 Mar 2025 08:26

Tgt Ion: 96 Resp: 110371
 Ion Ratio Lower Upper
 96 100
 61 170.7 136.6 204.8
 98 61.8 49.4 74.2





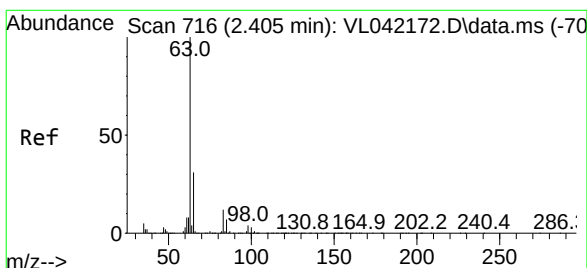
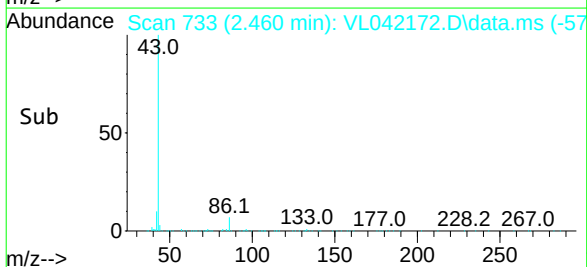
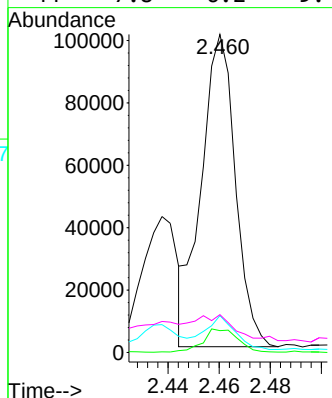
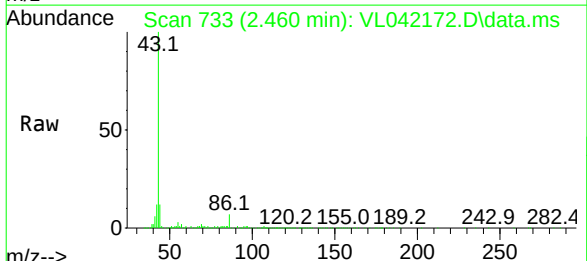
#23
 Vinyl Acetate
 Concen: 8.563 ppbv
 RT: 2.460 min Scan# 733
 Delta R.T. 0.000 min
 Lab File: VL042172.D
 Acq: 27 Mar 2025 08:26

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tgt Ion: 43	Resp: 93080
Ion Ratio	Lower Upper
43 100	
86 6.9	5.5 8.3
42 10.8	8.6 13.0
44 7.8	6.2 9.4

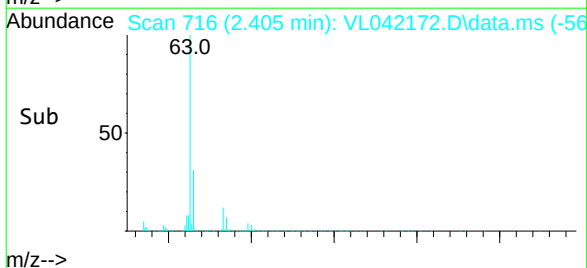
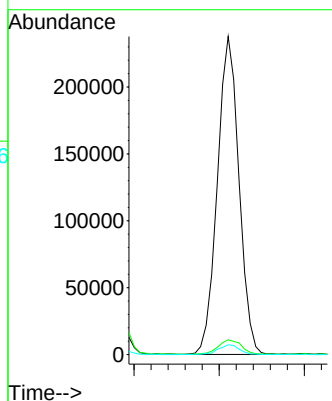
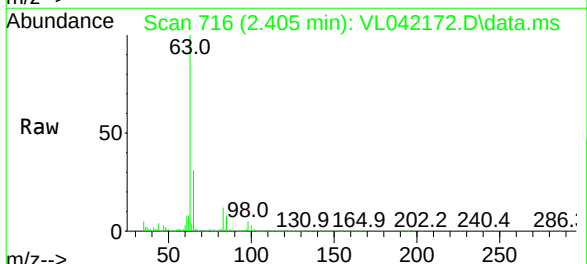
Manual Integrations
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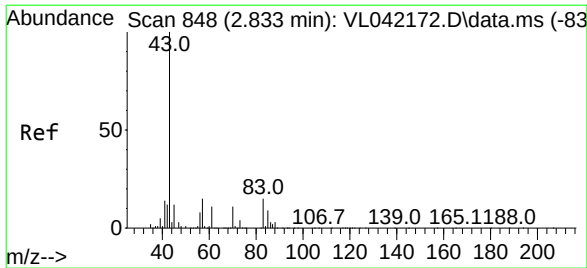
Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025



#24
 1,1-Dichloroethane
 Concen: 9.484 ppbv
 RT: 2.405 min Scan# 716
 Delta R.T. 0.000 min
 Lab File: VL042172.D
 Acq: 27 Mar 2025 08:26

Tgt Ion: 63	Resp: 209753
Ion Ratio	Lower Upper
63 100	
98 4.5	2.3 6.8
100 3.1	1.6 4.7





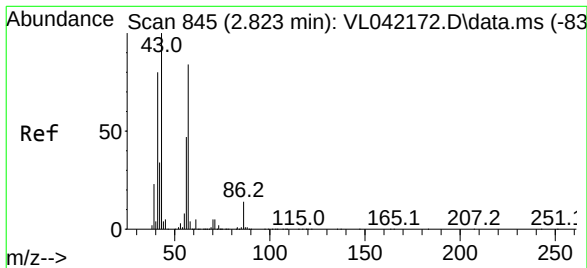
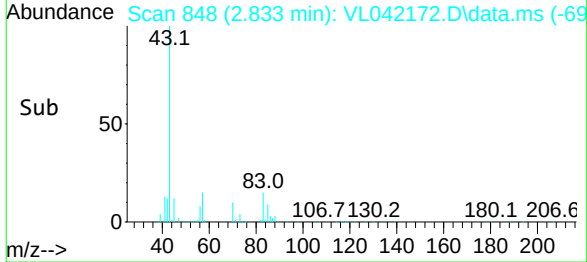
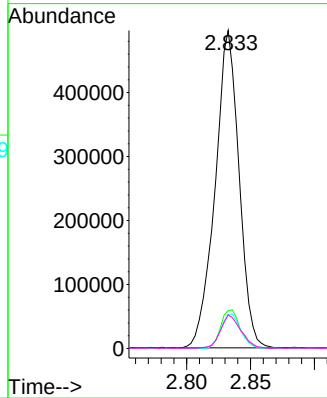
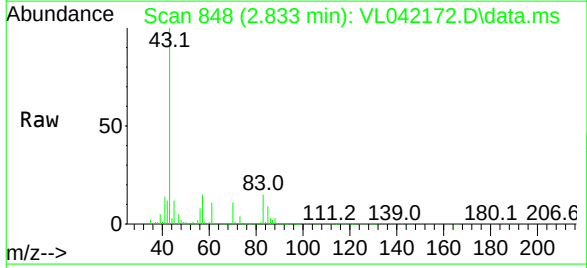
#25
Ethyl Acetate
Concen: 9.524 ppbv
RT: 2.833 min Scan# 848
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion	Ratio	Lower	Upper
43	100		
45	10.2	8.2	12.2
61	9.1	7.3	10.9
70	9.0	7.2	10.8

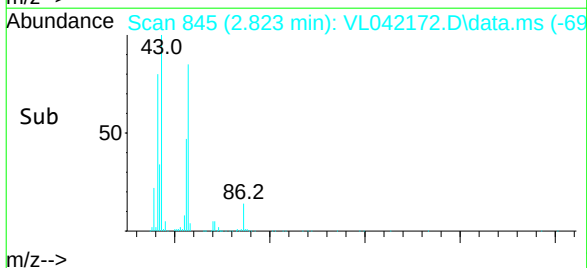
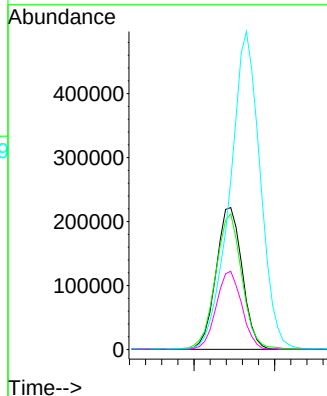
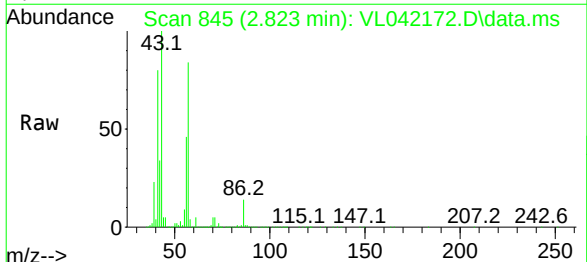
Manual Integrations
APPROVED

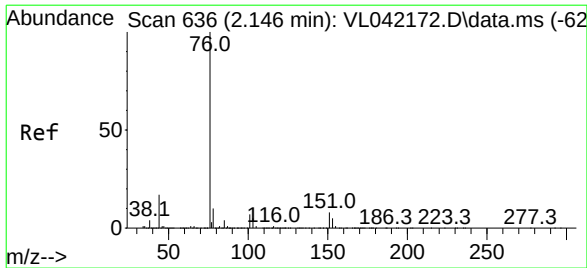
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#26
Hexane
Concen: 9.510 ppbv
RT: 2.823 min Scan# 845
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion	Ratio	Lower	Upper
57	100		
41	95.7	76.6	114.8
43	259.8	207.8	311.8
56	54.5	43.6	65.4





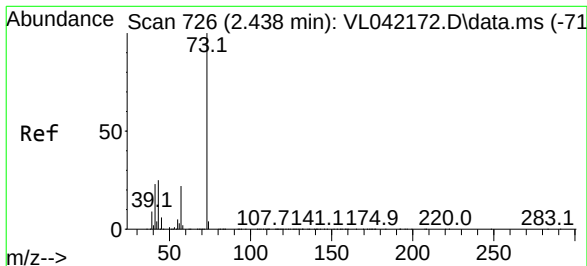
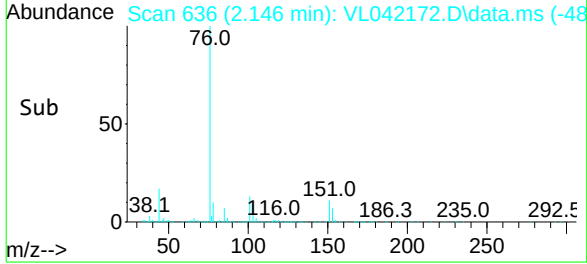
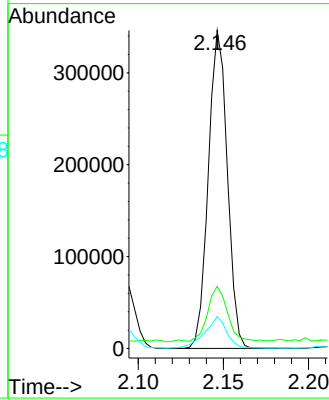
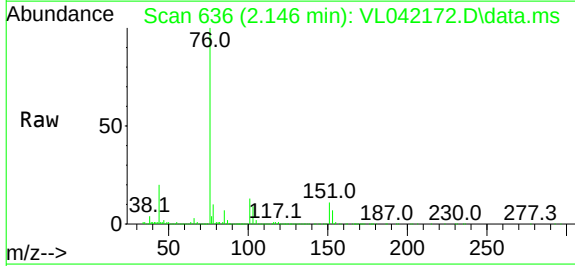
#27
Carbon Disulfide
Concen: 9.550 ppbv
RT: 2.146 min Scan# 636
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:	76	Resp:	268507
Ion	Ratio	Lower	Upper
76	100		
44	18.4	14.7	22.1
78	11.6	9.3	13.9

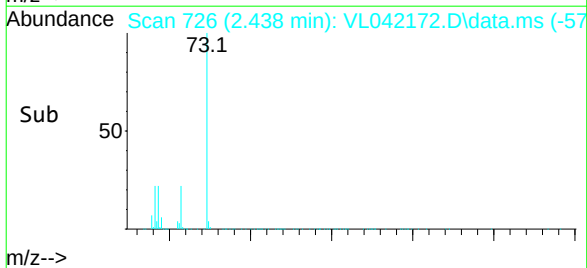
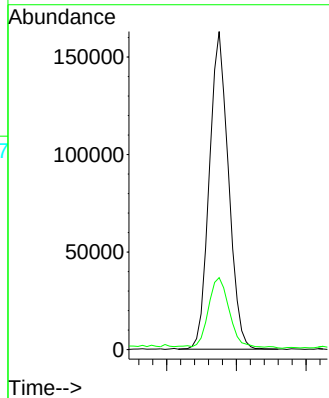
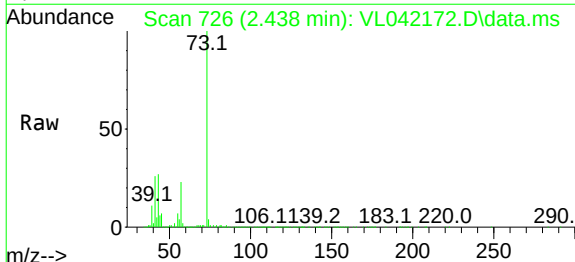
Manual Integrations
APPROVED

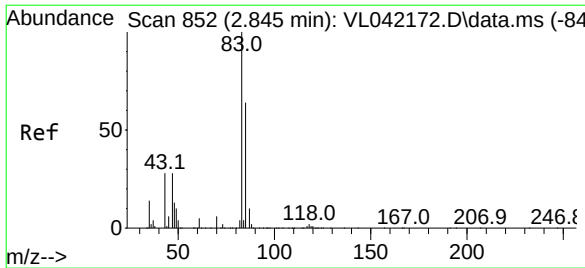
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#28
Methyl tert-Butyl Ether
Concen: 9.520 ppbv
RT: 2.438 min Scan# 726
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

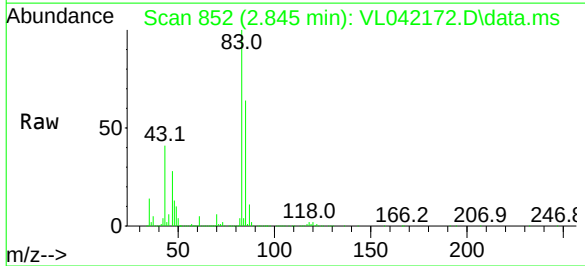
Tgt Ion:	73	Resp:	155398
Ion	Ratio	Lower	Upper
73	100		
57	25.6	20.5	30.7





#29
Chloroform
Concen: 9.415 ppbv
RT: 2.845 min Scan# 85
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

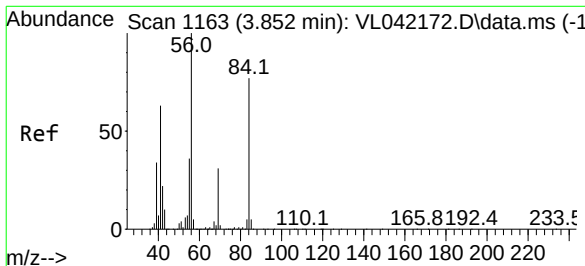
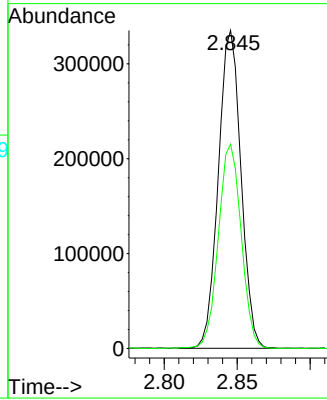
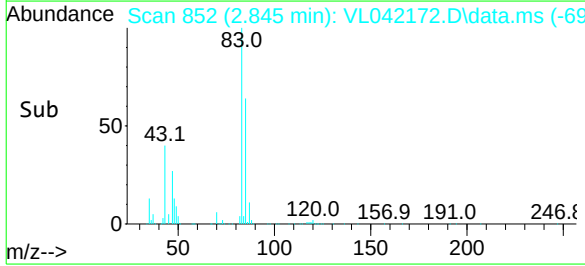
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



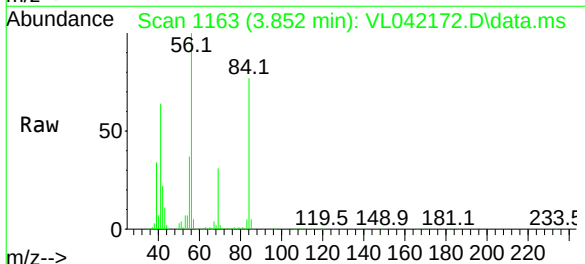
Tgt Ion: 83 Resp: 361264
Ion Ratio Lower Upper
83 100
85 64.3 51.4 77.2

Manual Integrations
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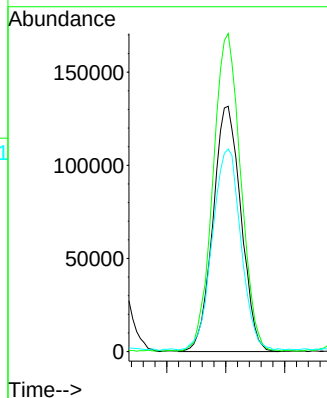
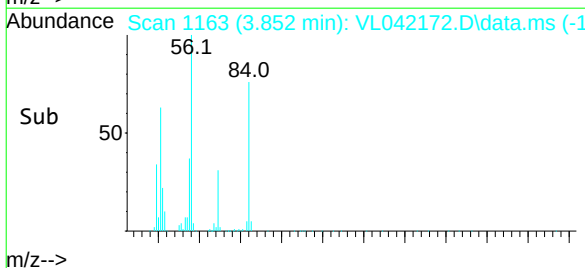
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

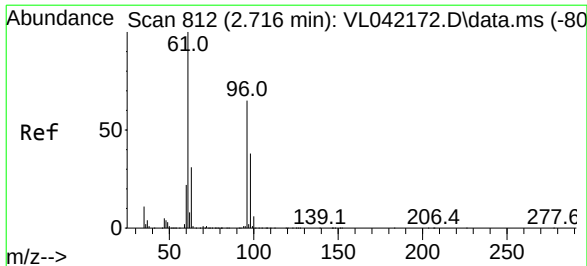


#30
Cyclohexane
Concen: 9.537 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26



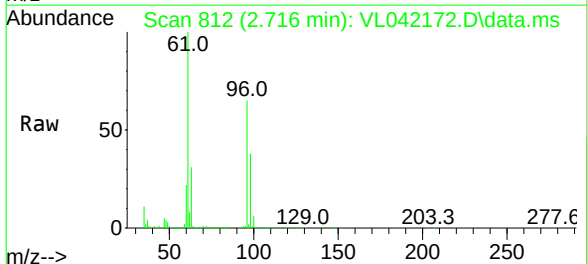
Tgt Ion: 84 Resp: 217215
Ion Ratio Lower Upper
84 100
56 128.5 102.8 154.2
41 83.1 66.5 99.7





#31
cis-1,2-Dichloroethene
Concen: 9.634 ppbv
RT: 2.716 min Scan# 812
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

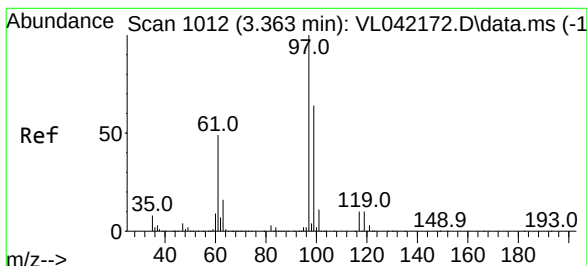
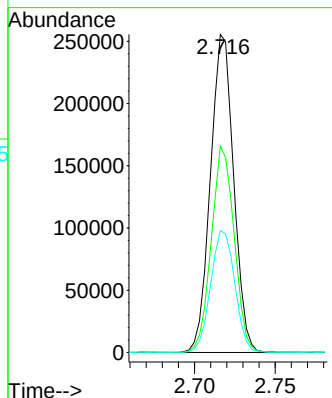
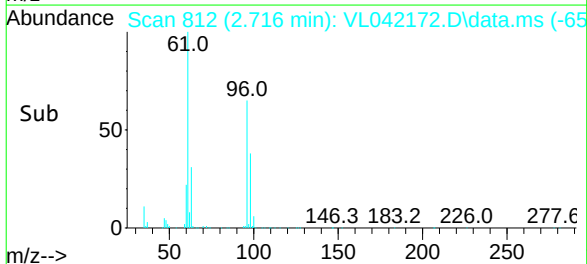
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion: 61 Resp: 256425
Ion Ratio Lower Upper
61 100
96 64.8 51.8 77.8
98 38.3 30.6 46.0

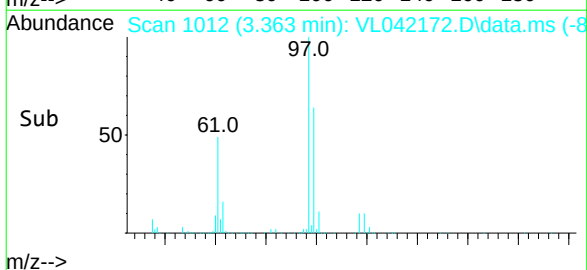
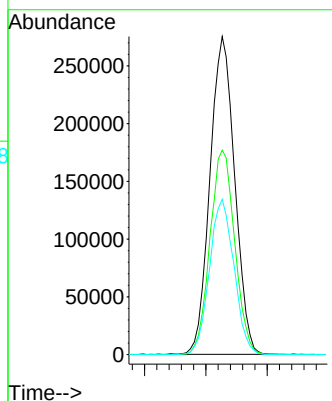
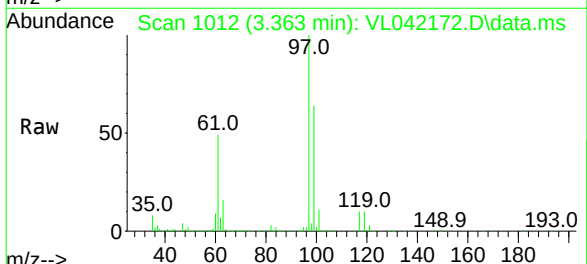
Manual Integrations
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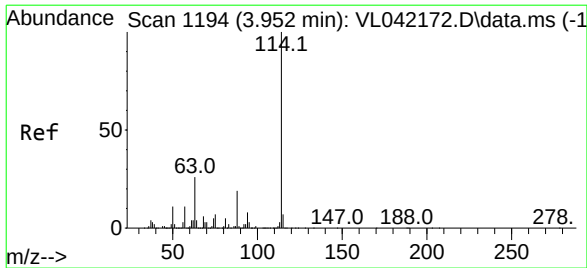
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#32
1,1,1-Trichloroethane
Concen: 8.784 ppbv
RT: 3.363 min Scan# 1012
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

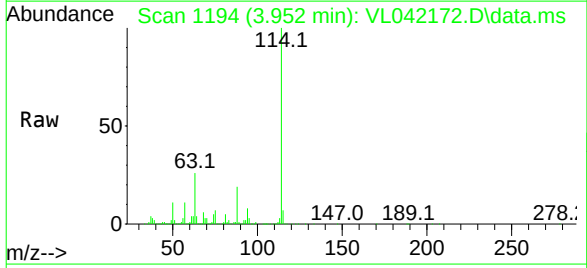
Tgt Ion: 97 Resp: 385628
Ion Ratio Lower Upper
97 100
99 64.4 51.5 77.3
61 48.4 38.7 58.1





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

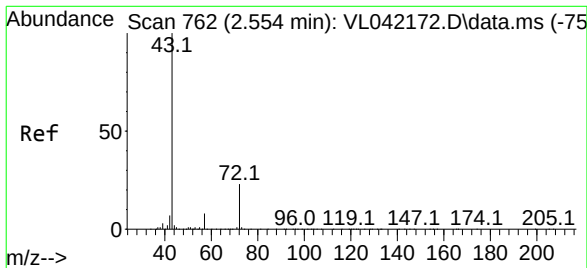
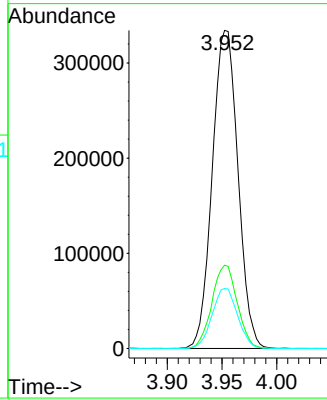
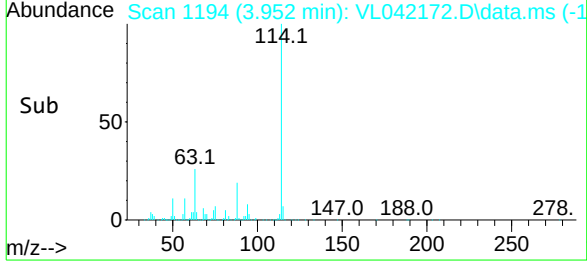
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



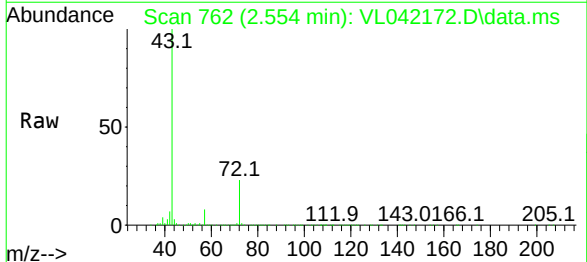
Tgt Ion: 114 Resp: 545068
Ion Ratio Lower Upper
114 100
63 25.9 20.7 31.1
88 18.7 15.0 22.4

Manual Integrations
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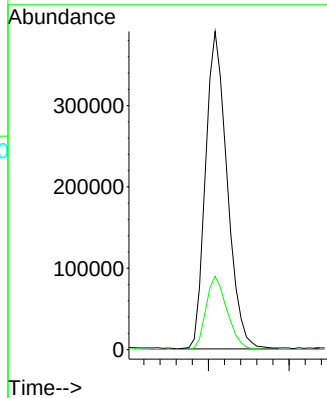
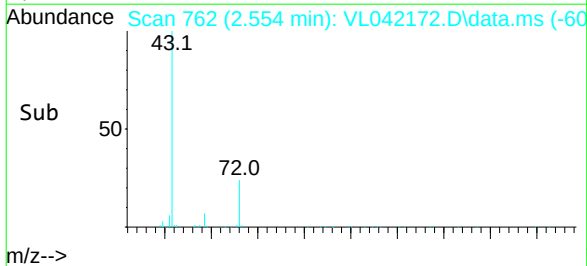
Reviewed By : Semsettin Yesilyurt 03/31/2025
Supervised By : Mahesh Dadoda 04/03/2025

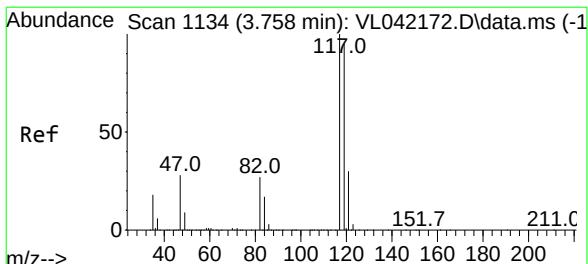


#34
2-Butanone
Concen: 9.203 ppbv
RT: 2.554 min Scan# 762
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26



Tgt Ion: 43 Resp: 363735
Ion Ratio Lower Upper
43 100
72 22.7 18.2 27.2





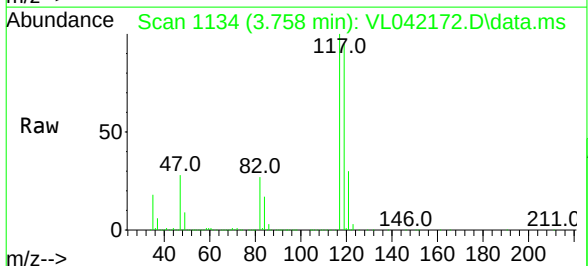
#35
Carbon Tetrachloride
Concen: 9.129 ppbv
RT: 3.758 min Scan# 1134
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Instrument :

MSVOA_L

ClientSampleId :

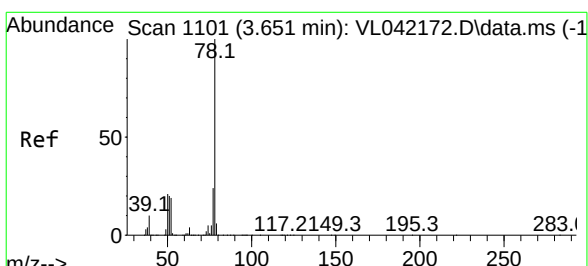
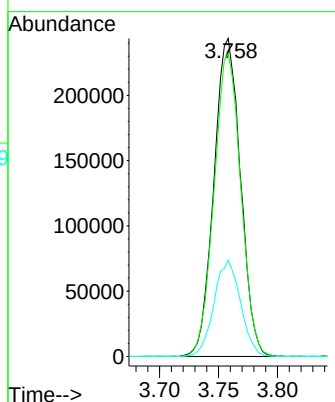
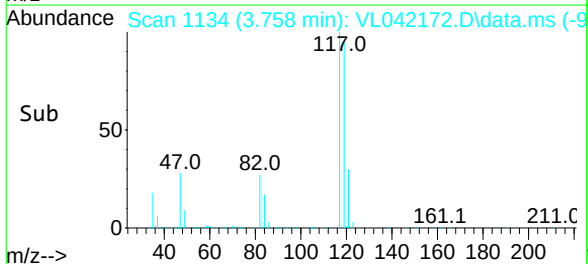
VSTDICCC010



Tgt Ion:	117	Resp:	382925
Ion	Ratio	Lower	Upper
117	100		
119	95.2	76.2	114.2
121	30.3	24.2	36.4

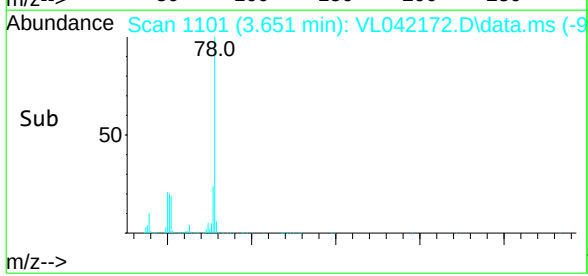
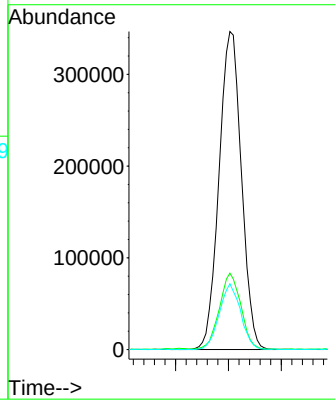
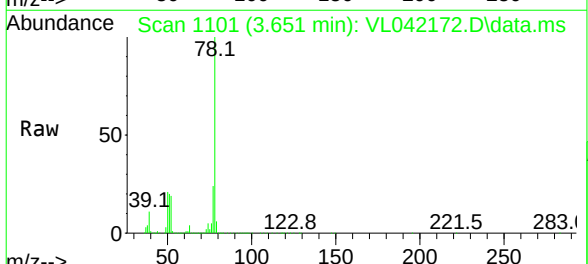
Manual Integrations
APPROVED

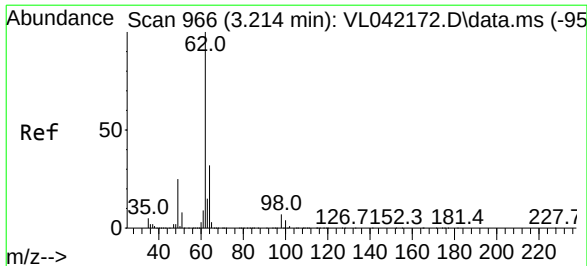
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#36
Benzene
Concen: 9.417 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

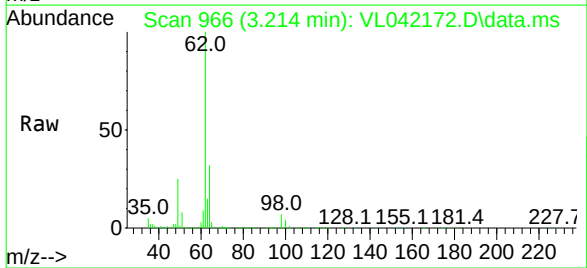
Tgt Ion:	78	Resp:	508860
Ion	Ratio	Lower	Upper
78	100		
77	23.9	19.1	28.7
50	20.7	16.6	24.8





#37
1,2-Dichloroethane
Concen: 9.469 ppbv
RT: 3.214 min Scan# 966
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

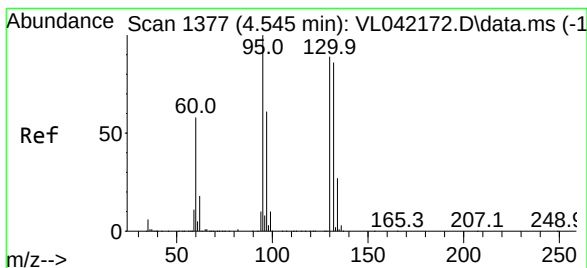
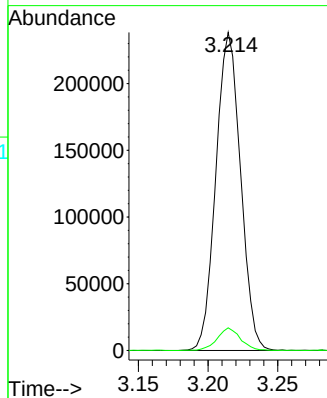
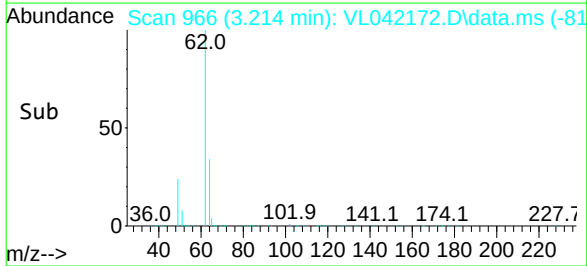
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



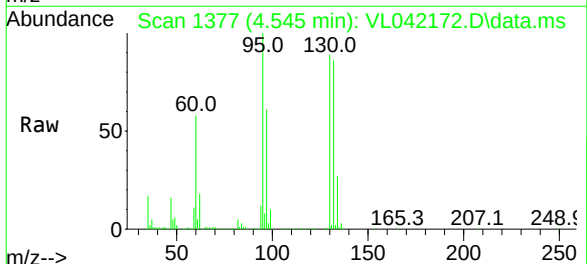
Tgt Ion: 62 Resp: 292937
Ion Ratio Lower Upper
62 100
98 6.8 5.4 8.2

Manual Integrations
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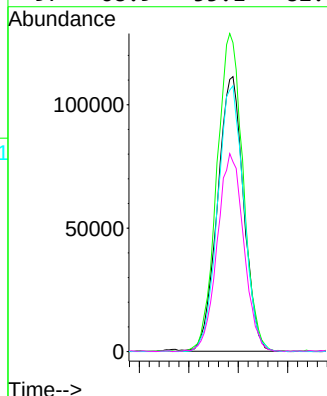
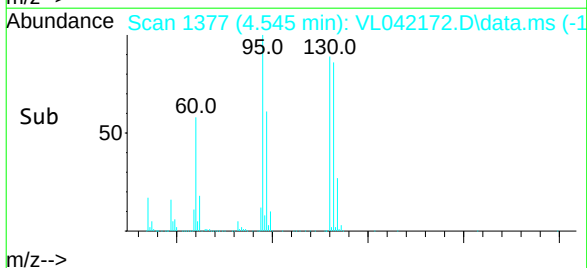
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

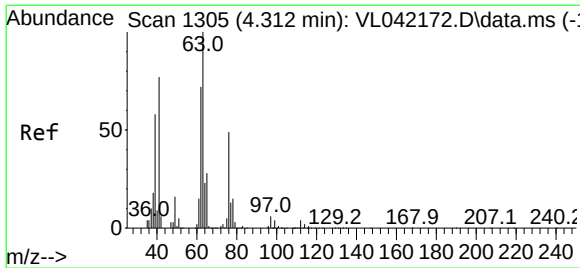


#38
Trichloroethene
Concen: 9.045 ppbv
RT: 4.545 min Scan# 1377
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26



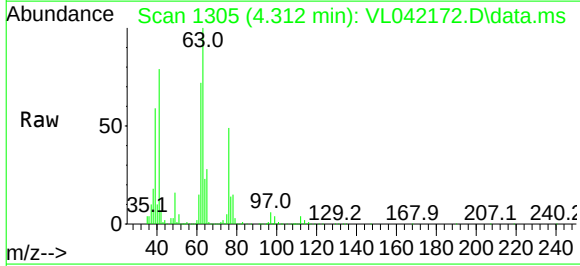
Tgt Ion:130 Resp: 204027
Ion Ratio Lower Upper
130 100
95 112.3 89.8 134.8
132 96.8 77.4 116.2
97 68.9 55.1 82.7





#39
 1,2-Dichloropropane
 Concen: 9.321 ppbv
 RT: 4.312 min Scan# 1305
 Delta R.T. 0.000 min
 Lab File: VL042172.D
 Acq: 27 Mar 2025 08:26

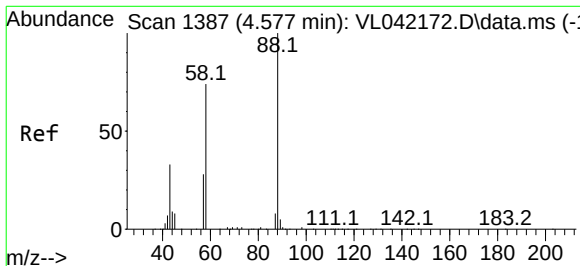
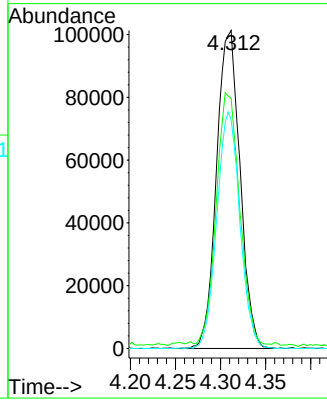
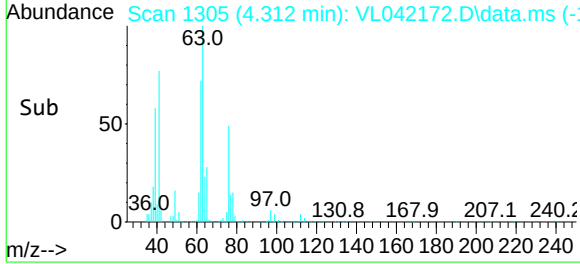
Instrument : MSVOA_1
 ClientSampleId : VSTDICCC010



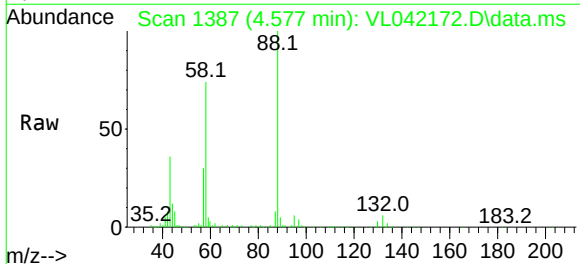
Tgt Ion:	63	Resp:	183439
Ion	Ratio	Lower	Upper
63	100		
41	77.1	61.7	92.5
62	72.0	57.6	86.4

Manual Integrations
 APPROVED

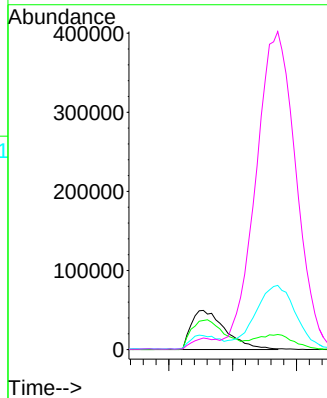
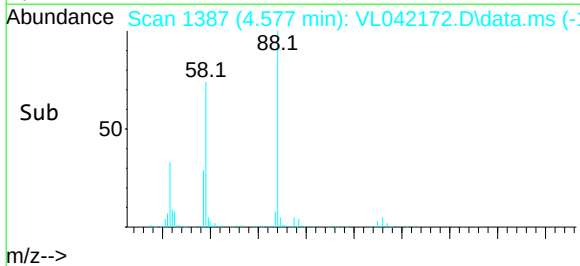
Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025

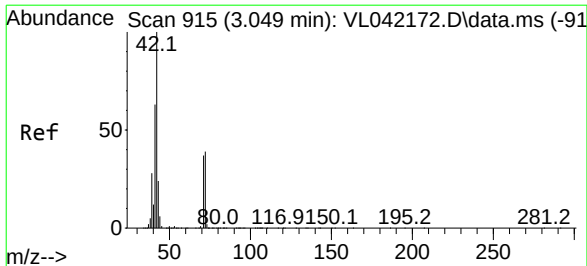


#40
 1,4-Dioxane
 Concen: 9.042 ppbv
 RT: 4.577 min Scan# 1387
 Delta R.T. 0.000 min
 Lab File: VL042172.D
 Acq: 27 Mar 2025 08:26



Tgt Ion:	88	Resp:	92327
Ion	Ratio	Lower	Upper
88	100		
58	78.4	62.7	94.1
43	28.7	23.0	34.4
57	0.0	0.0	0.0





#41

Tetrahydrofuran

Concen: 9.643 ppbv

RT: 3.049 min Scan# 91

Delta R.T. 0.000 min

Lab File: VL042172.D

Acq: 27 Mar 2025 08:26

Instrument :

MSVOA_L

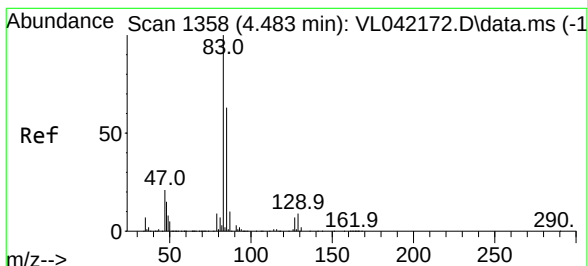
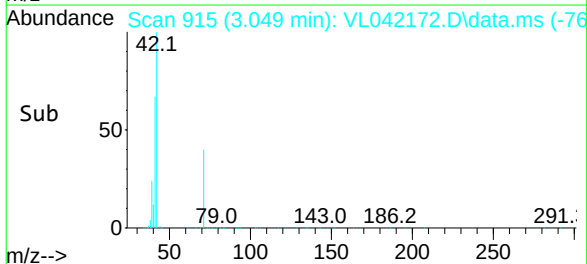
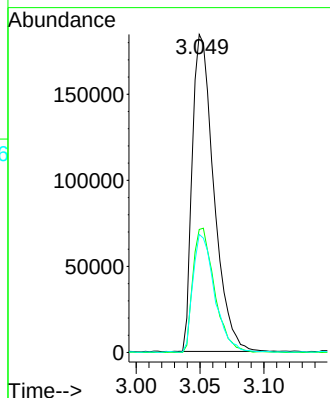
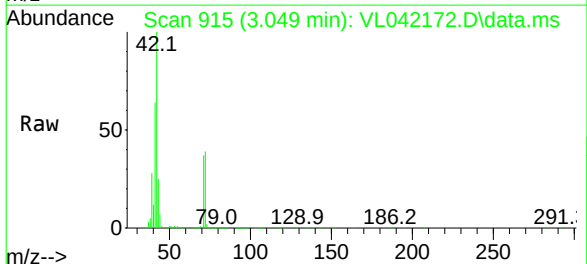
ClientSampleId :

VSTDICCC010

Tgt Ion:	42	Resp:	216851
Ion	Ratio	Lower	Upper
42	100		
72	39.2	31.4	47.0
71	37.8	30.2	45.4

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#42

Bromodichloromethane

Concen: 9.822 ppbv

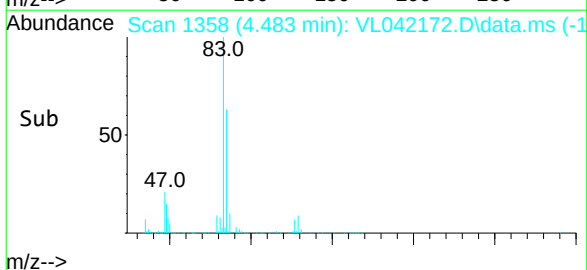
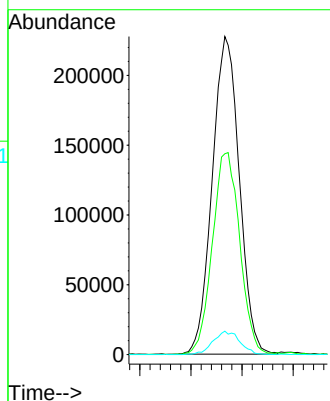
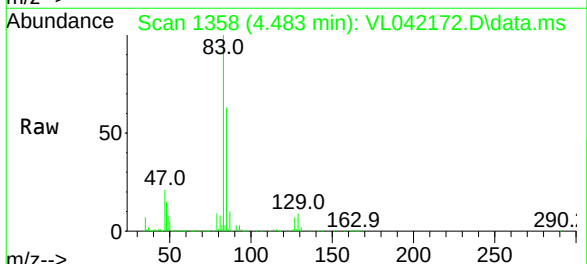
RT: 4.483 min Scan# 1358

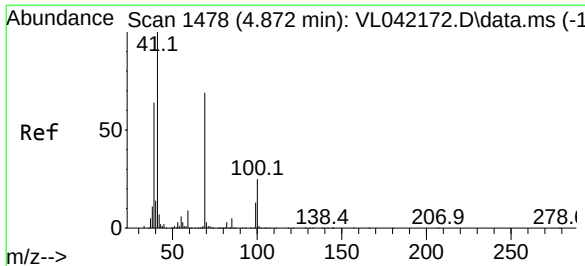
Delta R.T. 0.000 min

Lab File: VL042172.D

Acq: 27 Mar 2025 08:26

Tgt Ion:	83	Resp:	418887
Ion	Ratio	Lower	Upper
83	100		
85	63.1	50.5	75.7
127	7.4	5.9	8.9





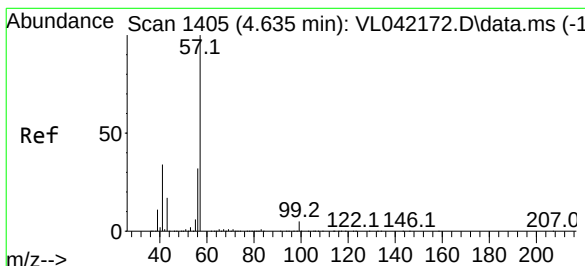
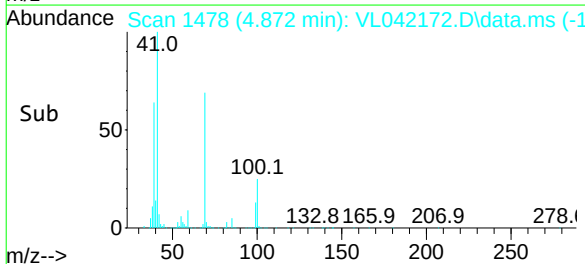
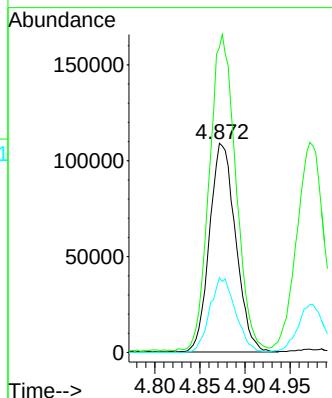
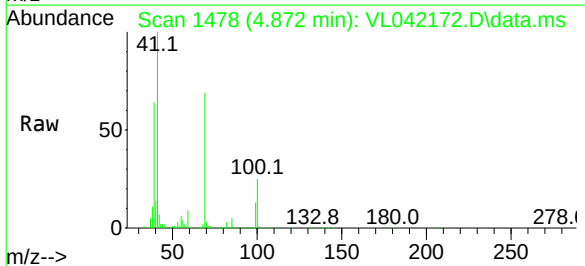
#43
Methyl Methacrylate
Concen: 9.618 ppbv
RT: 4.872 min Scan# 1478
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 69 Resp: 219399
Ion Ratio Lower Upper
69 100
41 154.7 123.8 185.6
100 35.5 28.4 42.6

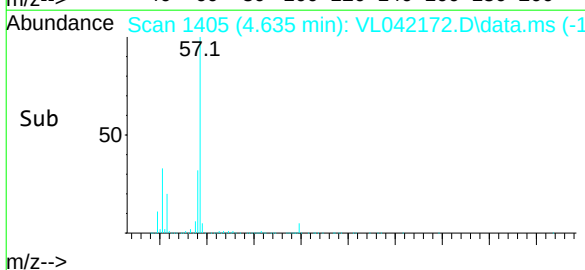
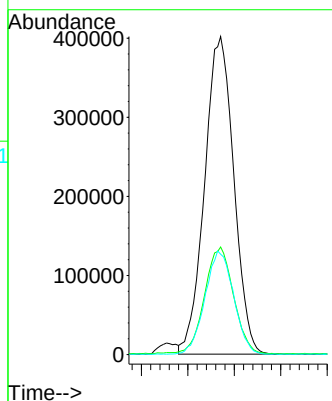
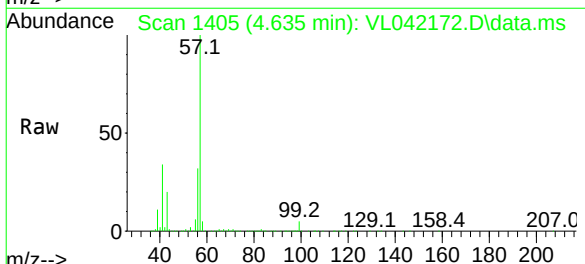
Manual Integrations
APPROVED

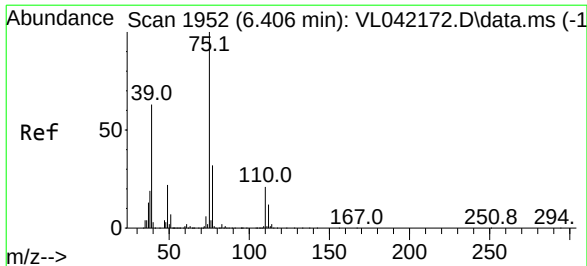
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#44
2,2,4-Trimethylpentane
Concen: 9.600 ppbv
RT: 4.635 min Scan# 1405
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 57 Resp: 876649
Ion Ratio Lower Upper
57 100
41 33.5 26.8 40.2
56 32.0 25.6 38.4





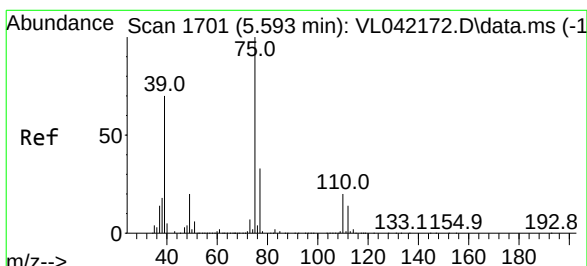
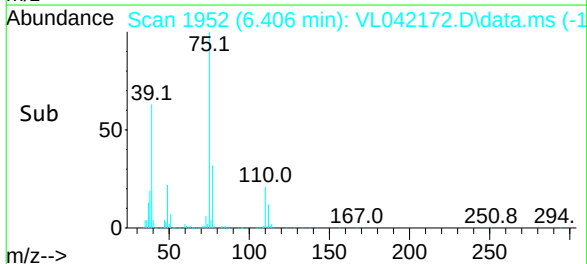
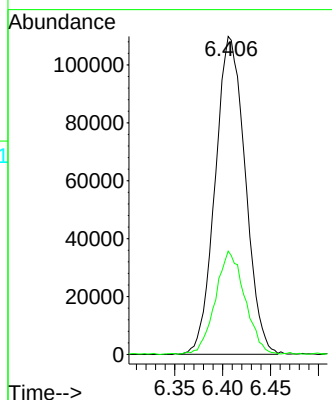
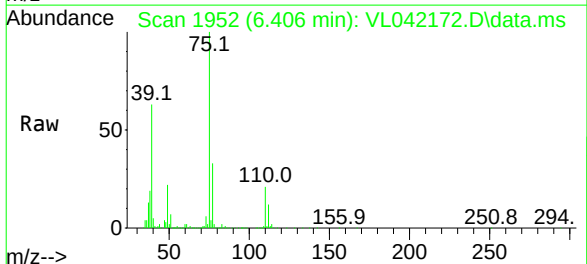
#45
t-1,3-Dichloropropene
Concen: 9.746 ppbv
RT: 6.406 min Scan# 1952
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 75 Resp: 239180
Ion Ratio Lower Upper
75 100
77 32.5 26.0 39.0

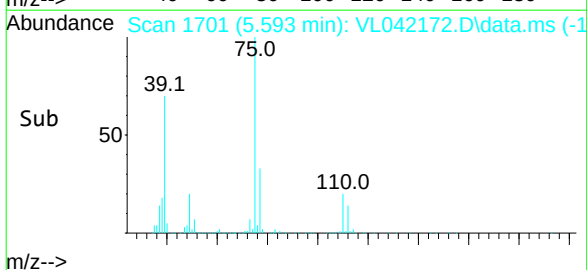
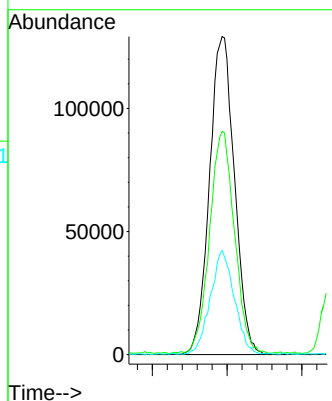
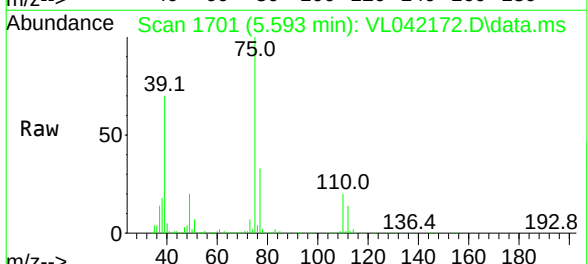
Manual Integrations
APPROVED

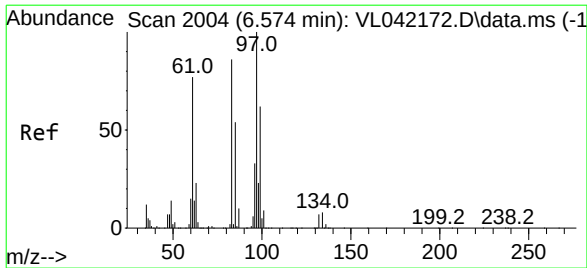
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#46
cis-1,3-Dichloropropene
Concen: 9.973 ppbv
RT: 5.593 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 75 Resp: 300021
Ion Ratio Lower Upper
75 100
39 69.7 55.8 83.6
77 32.5 26.0 39.0





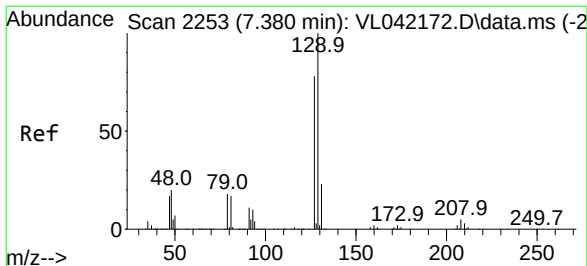
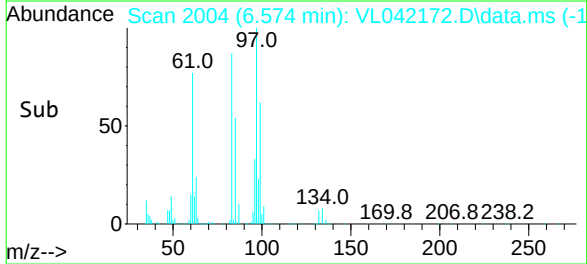
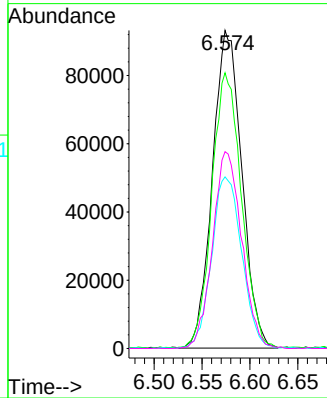
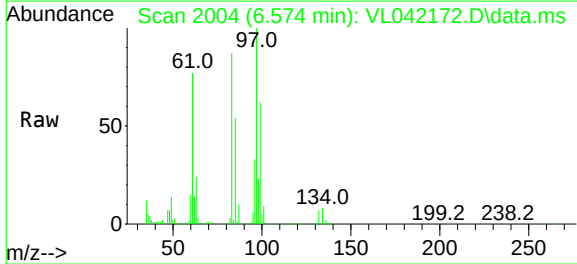
#47
1,1,2-Trichloroethane
Concen: 9.526 ppbv
RT: 6.574 min Scan# 2004
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion	Ratio	Lower	Upper
97	100		
83	86.5	69.2	103.8
85	53.9	43.1	64.7
99	61.8	49.4	74.2

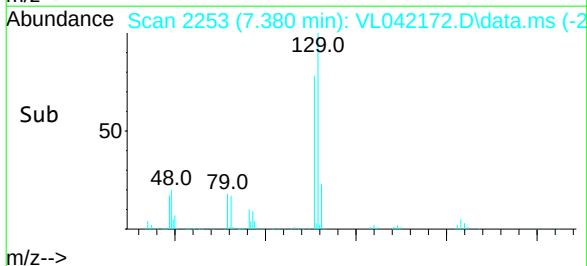
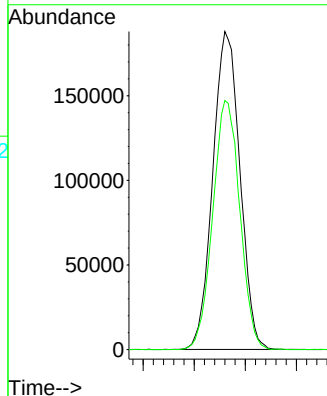
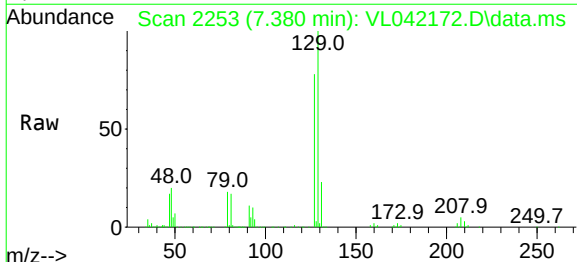
Manual Integrations
APPROVED

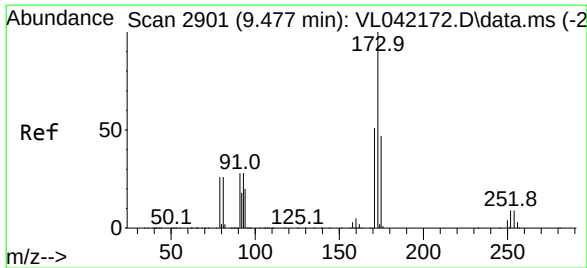
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#48
Dibromochloromethane
Concen: 9.828 ppbv
RT: 7.380 min Scan# 2253
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.1	39.1	117.2





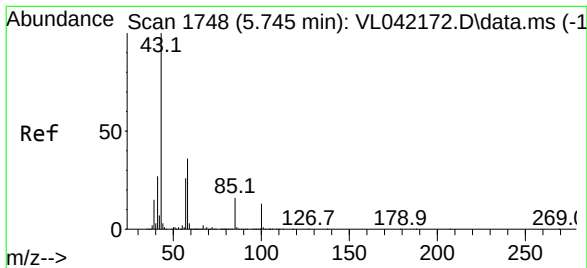
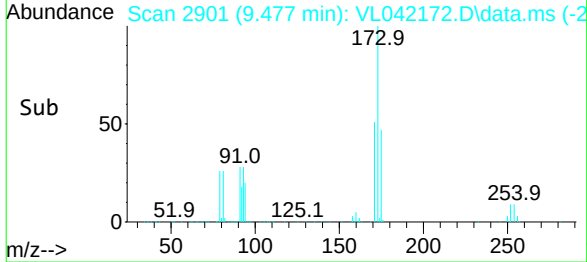
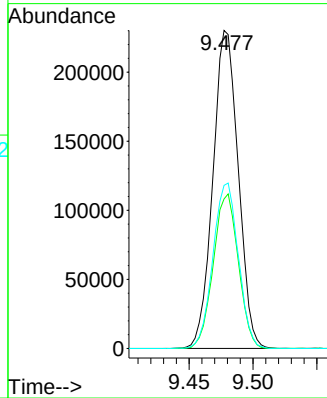
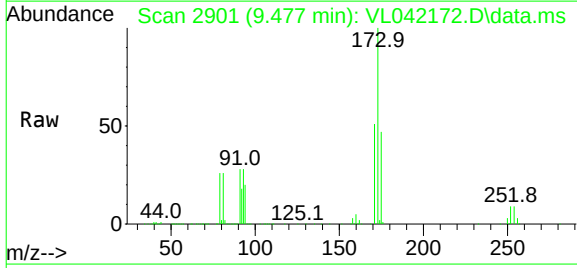
#49
Bromoform
Concen: 10.021 ppbv
RT: 9.477 min Scan# 2901
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 173 Resp: 317189
Ion Ratio Lower Upper
173 100
175 48.2 38.6 57.8
171 52.2 41.8 62.6

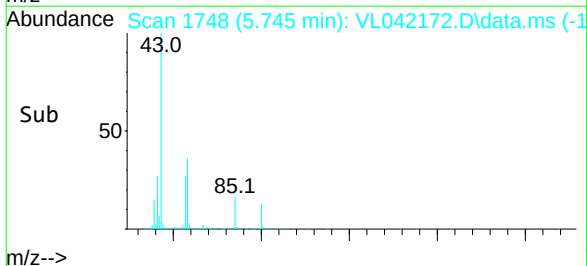
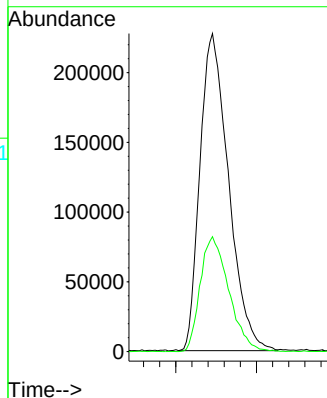
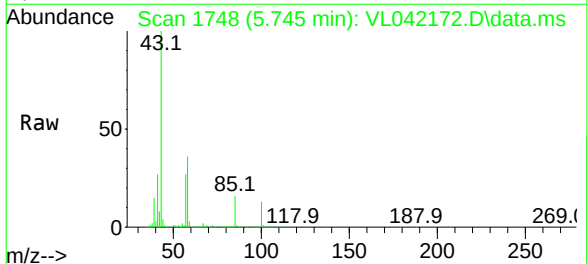
Manual Integrations
APPROVED

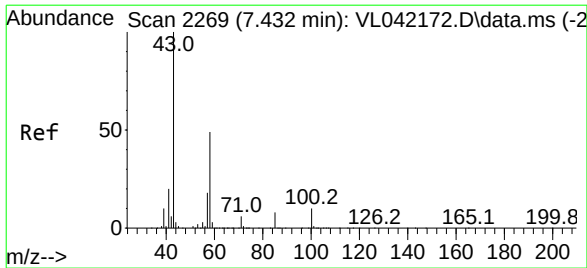
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#50
4-Methyl-2-Pentanone
Concen: 8.934 ppbv
RT: 5.745 min Scan# 1748
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

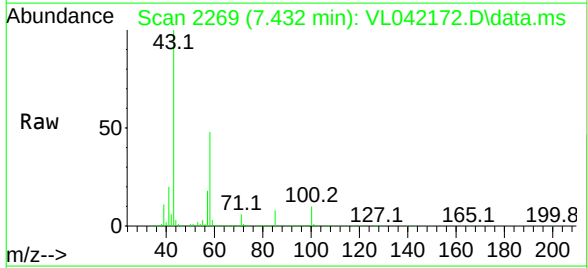
Tgt Ion: 43 Resp: 559800
Ion Ratio Lower Upper
43 100
58 36.3 29.0 43.6





#51
2-Hexanone
Concen: 8.848 ppbv
RT: 7.432 min Scan# 2269
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

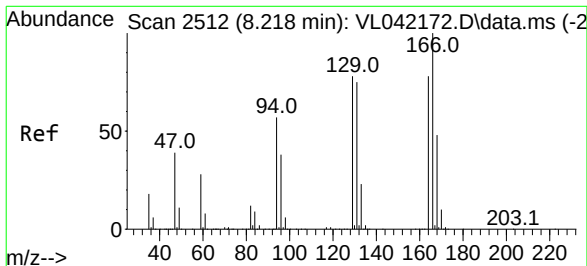
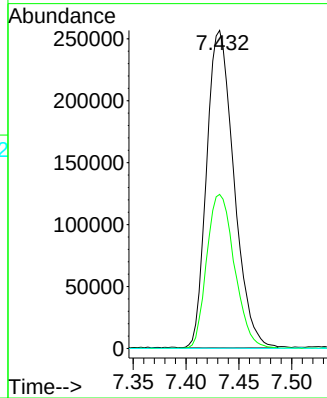
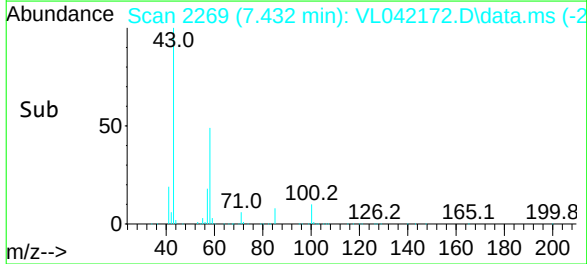
Instrument : MSVOA_L
ClientSampleId : VSTDICCC010



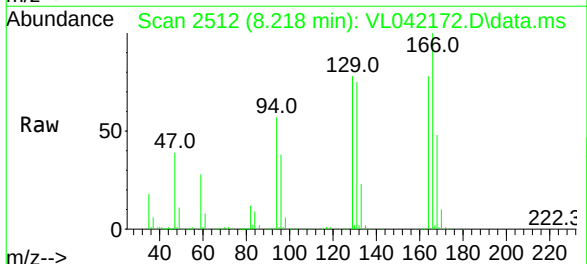
Tgt Ion: 43 Resp: 460013
Ion Ratio Lower Upper
43 100
58 49.6 39.7 59.5
98 0.1 0.1 0.1

Manual Integrations
APPROVED

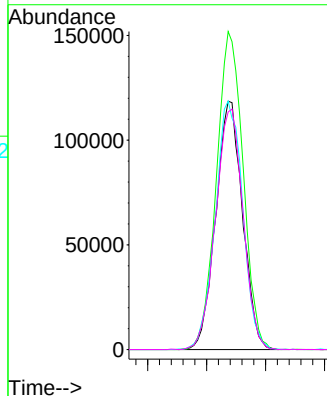
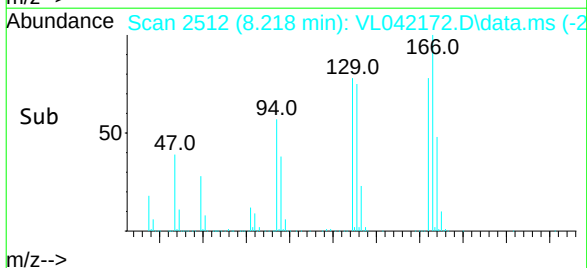
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

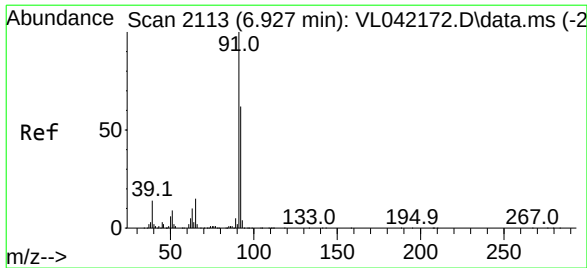


#52
Tetrachloroethene
Concen: 8.722 ppbv
RT: 8.218 min Scan# 2512
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26



Tgt Ion:164 Resp: 186912
Ion Ratio Lower Upper
164 100
166 128.1 102.5 153.7
129 99.8 79.8 119.8
131 95.7 76.6 114.8





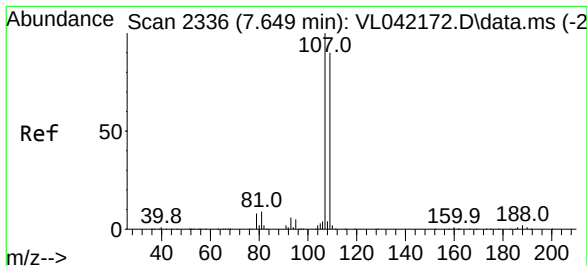
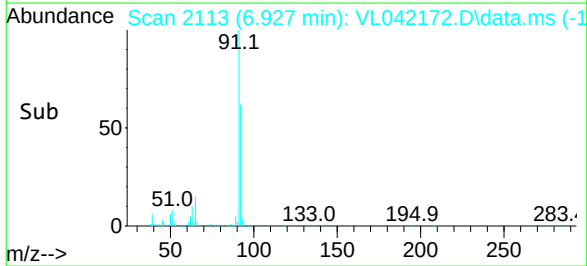
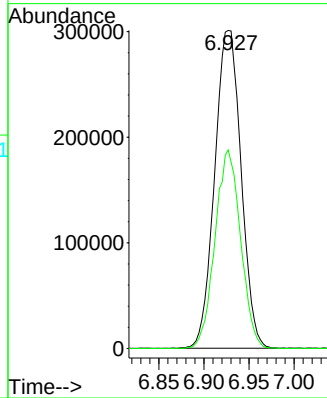
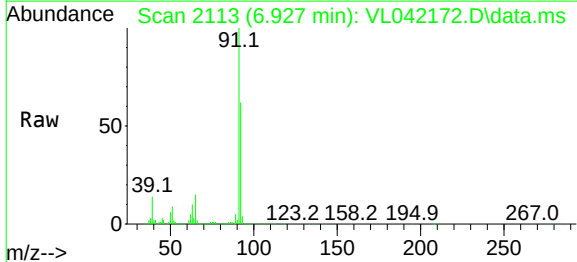
#53
Toluene
Concen: 9.576 ppbv
RT: 6.927 min Scan# 2113
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 91 Resp: 613378
Ion Ratio Lower Upper
91 100
92 60.5 48.4 72.6

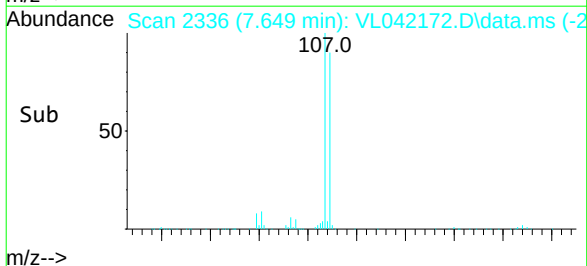
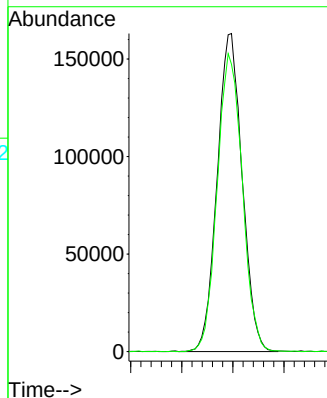
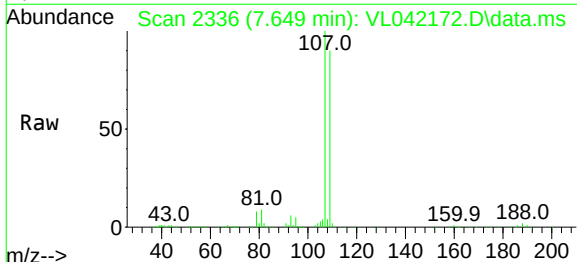
Manual Integrations
APPROVED

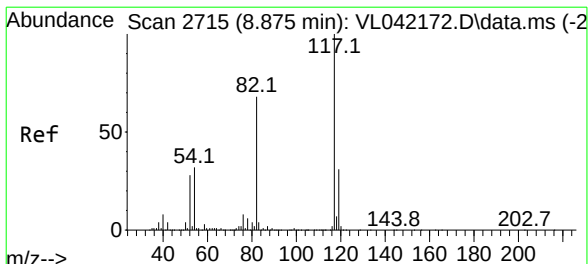
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#54
1,2-Dibromoethane
Concen: 9.536 ppbv
RT: 7.649 min Scan# 2336
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion:107 Resp: 276797
Ion Ratio Lower Upper
107 100
109 90.3 72.2 108.4





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Instrument :

MSVOA_L

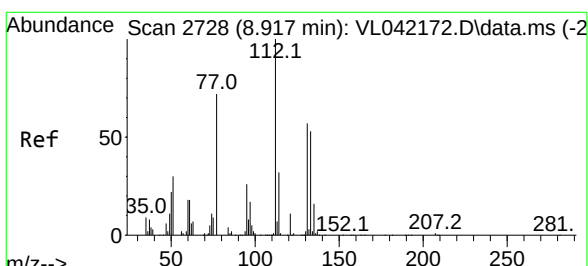
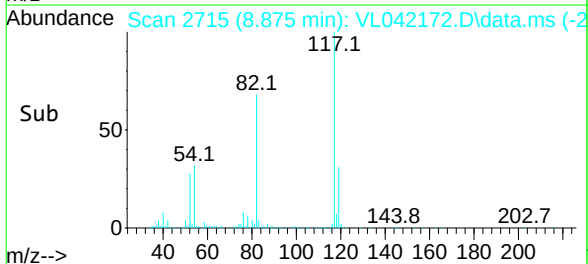
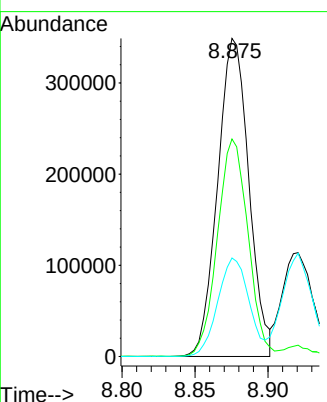
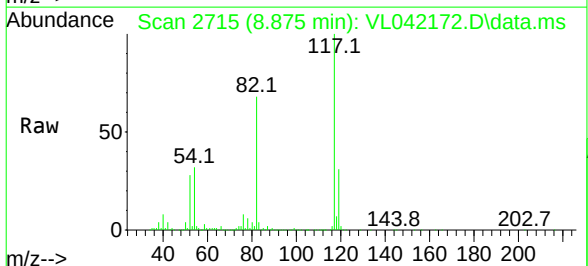
ClientSampleId :

VSTDICCC010

Tgt Ion:	117	Resp:	519536
Ion	Ratio	Lower	Upper
117	100		
82	69.7	55.8	83.6
119	31.9	25.5	38.3

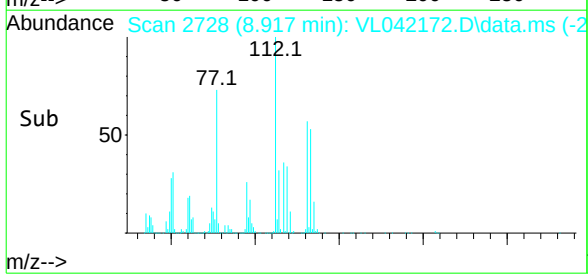
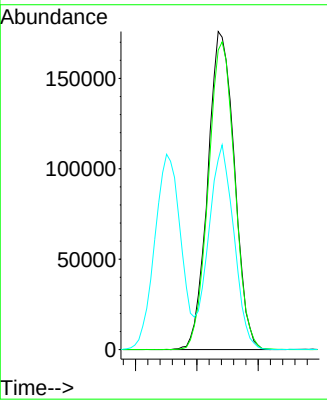
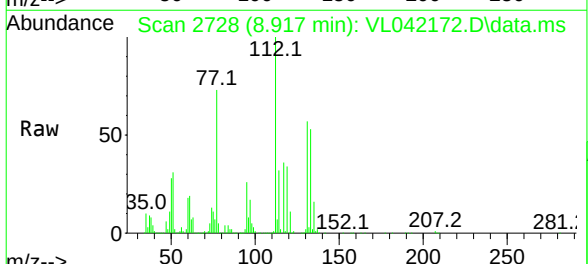
Manual Integrations
APPROVED

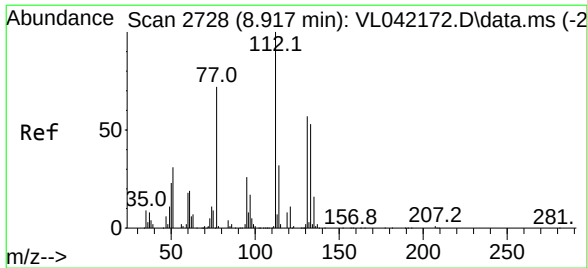
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#56
1,1,1,2-Tetrachloroethane
Concen: 9.268 ppbv
RT: 8.917 min Scan# 2728
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

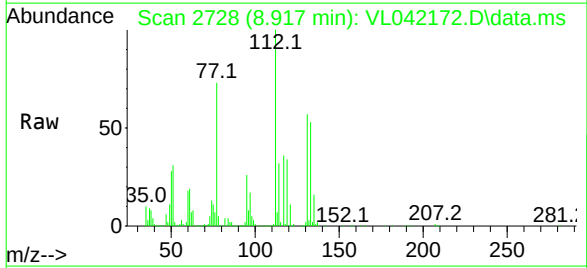
Tgt Ion:	131	Resp:	265037
Ion	Ratio	Lower	Upper
131	100		
133	95.7	76.6	114.8
119	62.2	49.8	74.6





#57
Chlorobenzene
Concen: 9.223 ppbv
RT: 8.917 min Scan# 2728
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

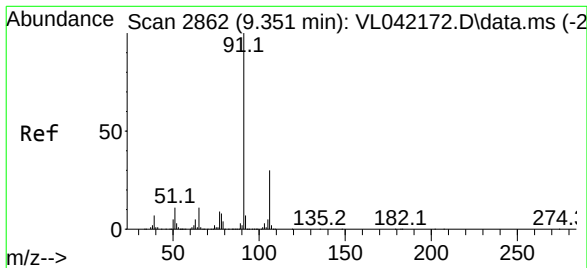
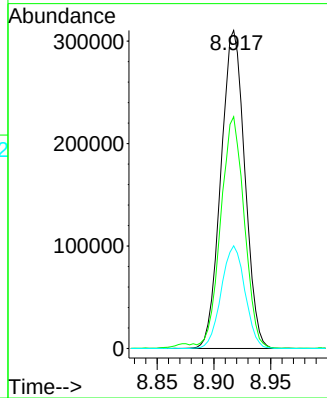
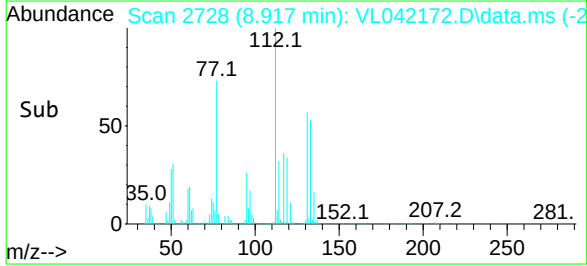
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion: 112 Resp: 454511
Ion Ratio Lower Upper
112 100
77 72.7 58.2 87.2
114 32.3 29.1 35.5

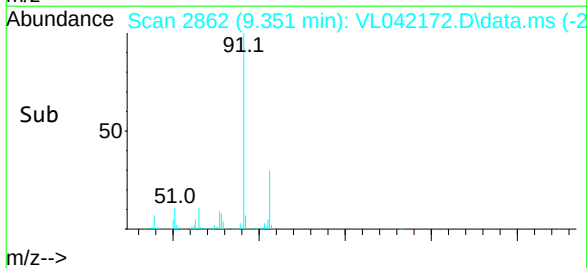
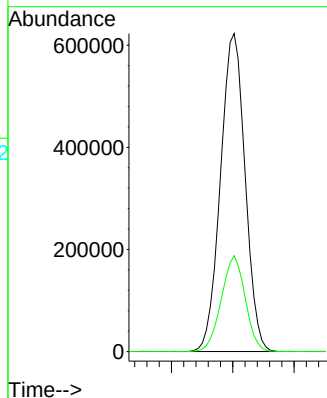
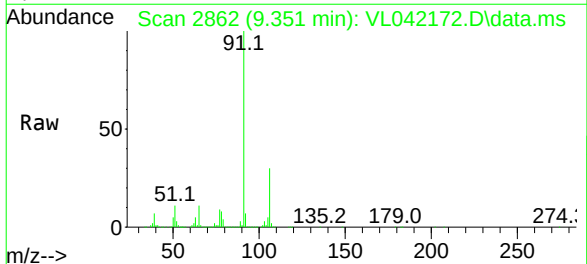
Manual Integrations
APPROVED

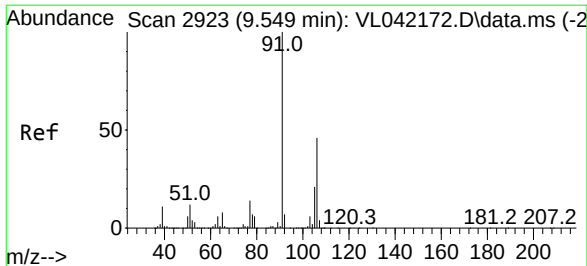
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#58
Ethyl Benzene
Concen: 9.406 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 91 Resp: 868003
Ion Ratio Lower Upper
91 100
106 30.2 24.2 36.2





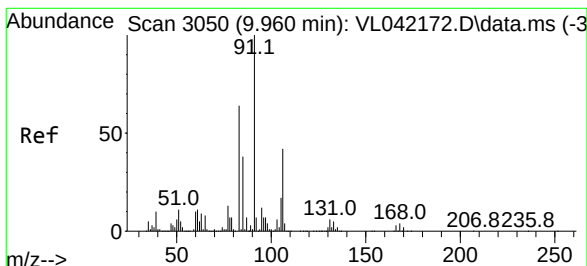
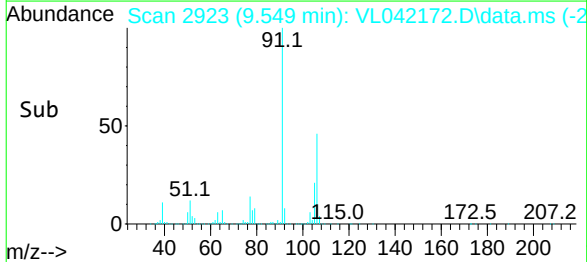
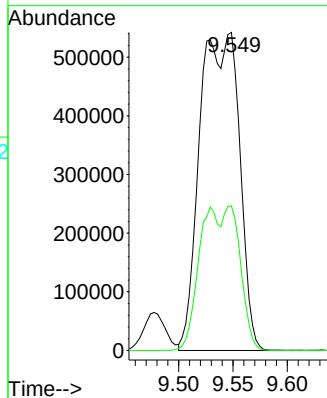
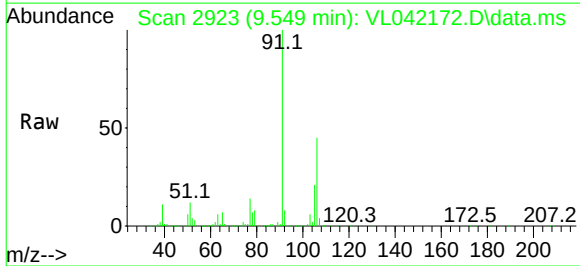
#59
m/p-Xylene
Concen: 18.607 ppbv m
RT: 9.549 min Scan# 2923
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 91 Resp: 1372806
Ion Ratio Lower Upper
91 100
106 45.5 36.4 54.6

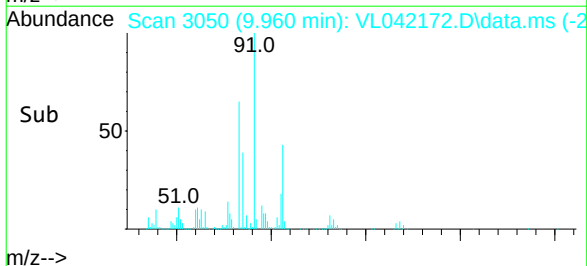
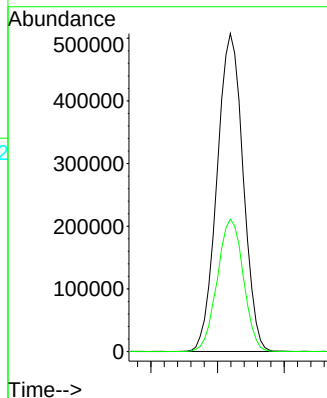
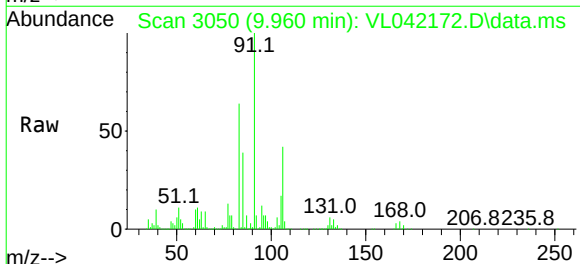
Manual Integrations
APPROVED

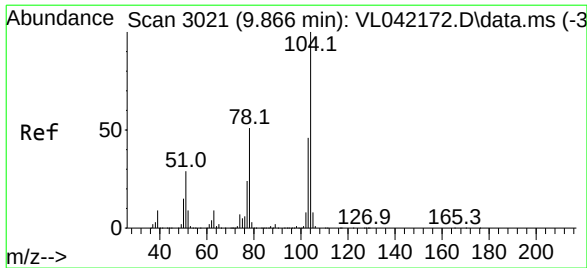
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#60
o-Xylene
Concen: 9.340 ppbv
RT: 9.960 min Scan# 3050
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 91 Resp: 689933
Ion Ratio Lower Upper
91 100
106 41.7 20.8 62.5





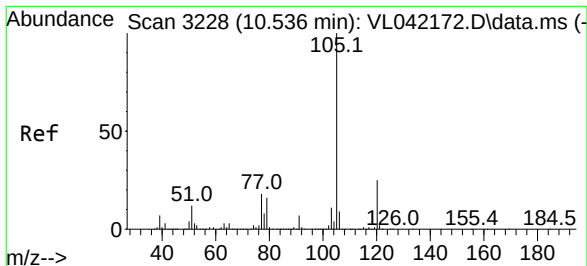
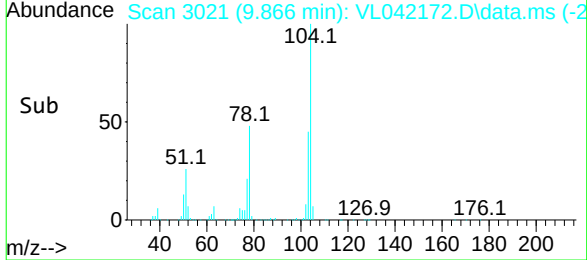
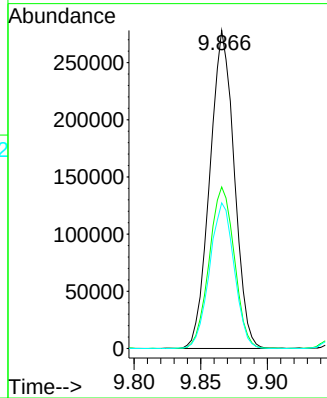
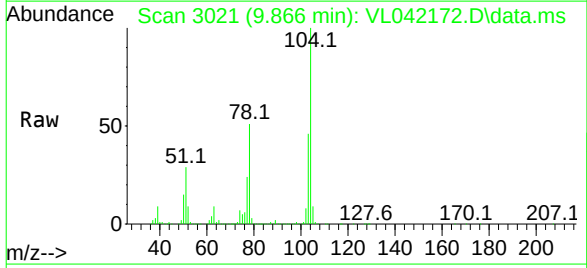
#61
Styrene
Concen: 9.706 ppbv
RT: 9.866 min Scan# 3021
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:104 Resp: 354697
Ion Ratio Lower Upper
104 100
78 52.2 41.8 62.6
103 46.2 37.0 55.4

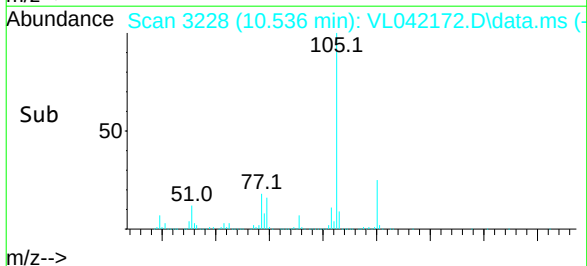
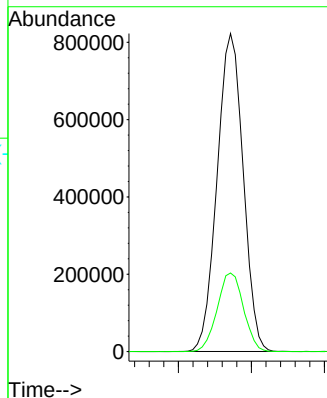
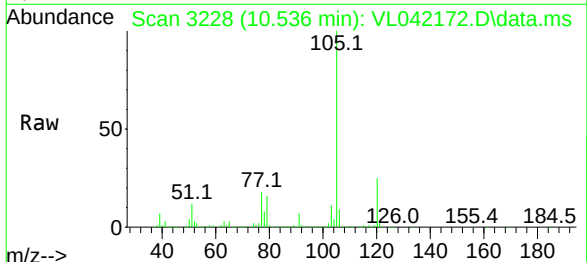
Manual Integrations
APPROVED

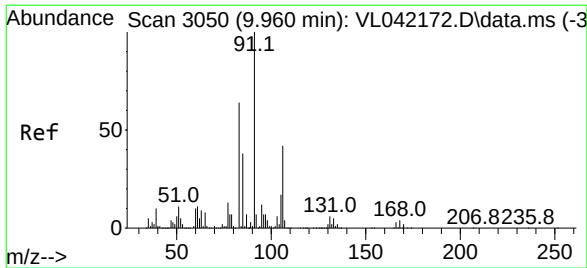
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#62
Isopropylbenzene
Concen: 9.227 ppbv
RT: 10.536 min Scan# 3228
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

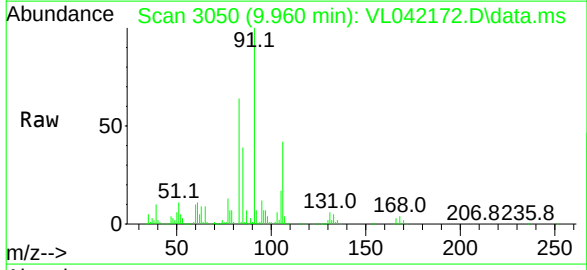
Tgt Ion:105 Resp: 1019255
Ion Ratio Lower Upper
105 100
120 24.9 19.9 29.9





#63
1,1,2,2-Tetrachloroethane
Concen: 9.210 ppbv
RT: 9.960 min Scan# 3050
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

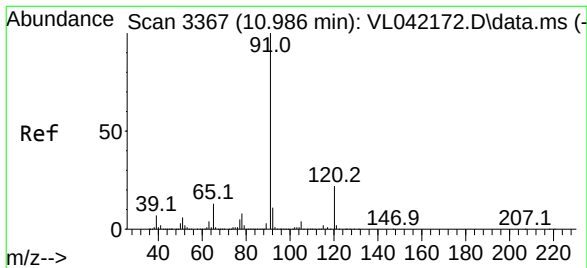
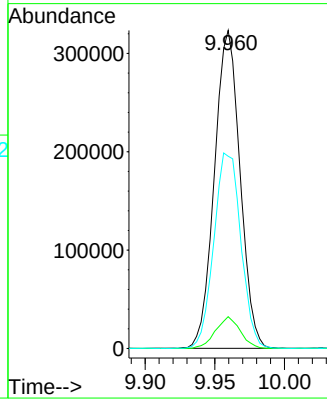
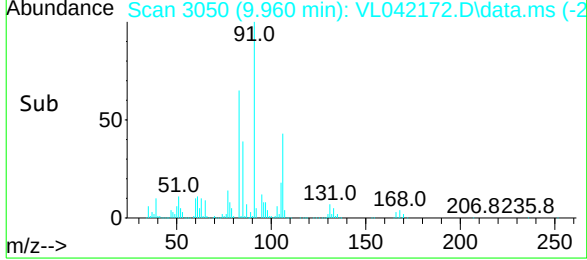
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



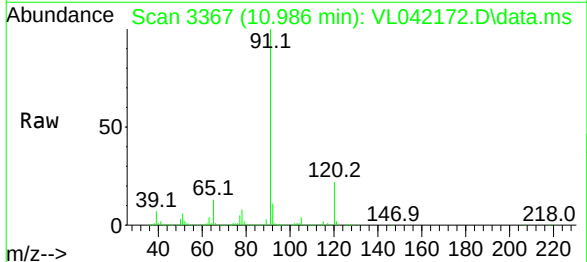
Tgt Ion: 83 Resp: 413392
Ion Ratio Lower Upper
83 100
131 9.6 4.8 14.4
85 65.0 32.5 97.5

Manual Integrations
APPROVED

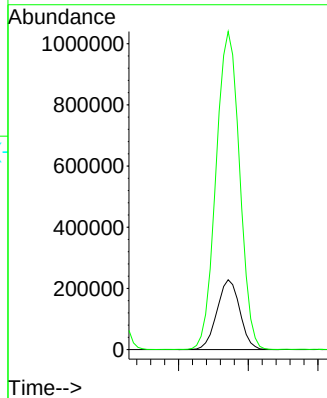
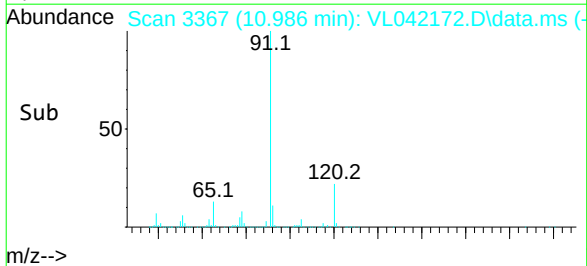
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

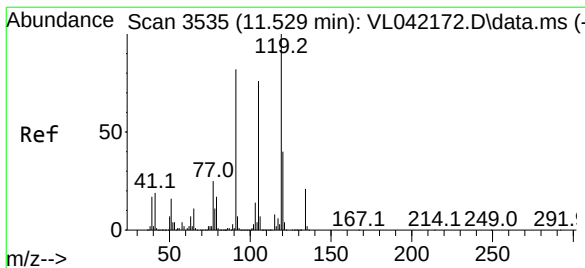


#64
n-propylbenzene
Concen: 9.122 ppbv
RT: 10.986 min Scan# 3367
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26



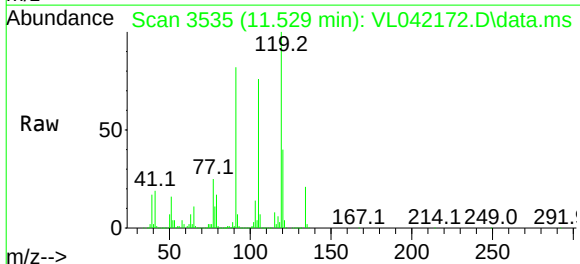
Tgt Ion:120 Resp: 259405
Ion Ratio Lower Upper
120 100
91 471.1 376.9 565.3





#65
tert-Butylbenzene
Concen: 8.828 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

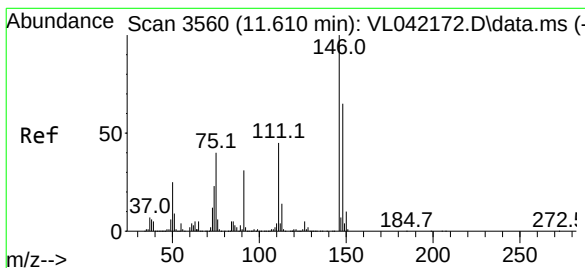
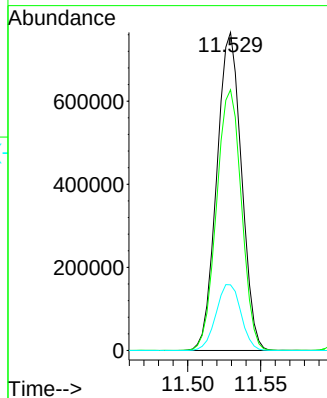
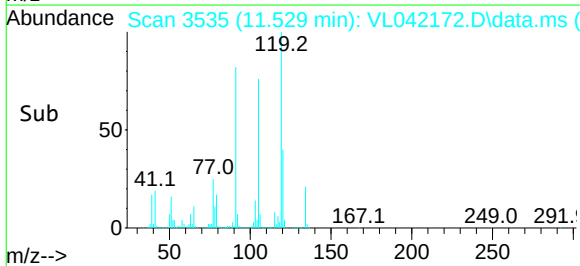
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion:	119	Resp:	901951
Ion	Ratio	Lower	Upper
119	100		
91	82.5	66.0	99.0
134	20.9	16.7	25.1

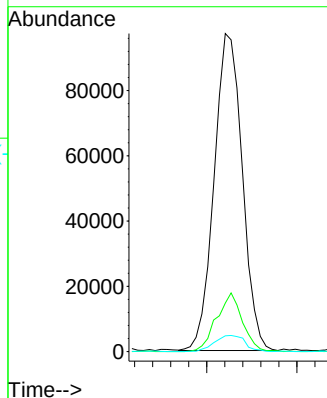
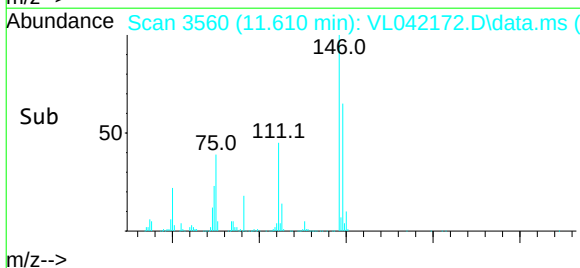
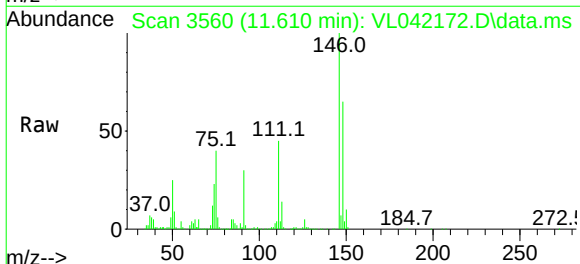
Manual Integrations
APPROVED

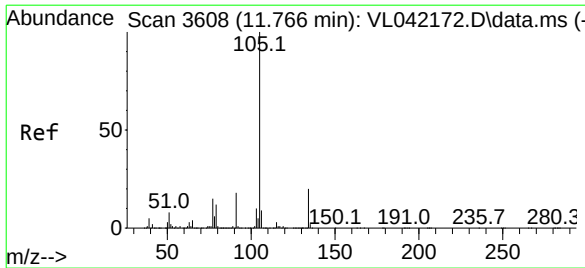
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#66
Benzyl Chloride
Concen: 9.724 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

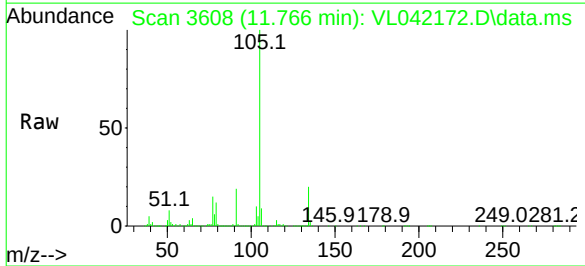
Tgt Ion:	91	Resp:	105411
Ion	Ratio	Lower	Upper
91	100		
126	17.2	13.8	20.6
128	5.6	4.5	6.7





#67
 sec-Butylbenzene
 Concen: 8.796 ppbv
 RT: 11.766 min Scan# 3608
 Delta R.T. 0.000 min
 Lab File: VL042172.D
 Acq: 27 Mar 2025 08:26

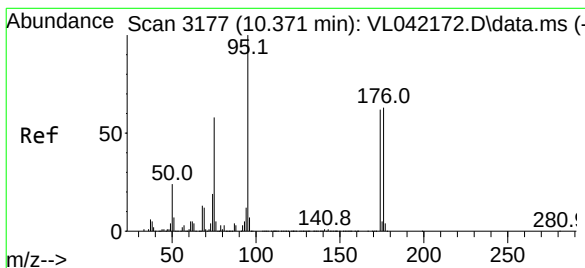
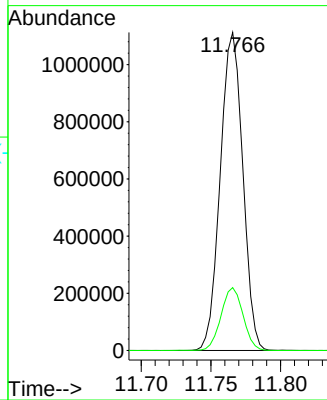
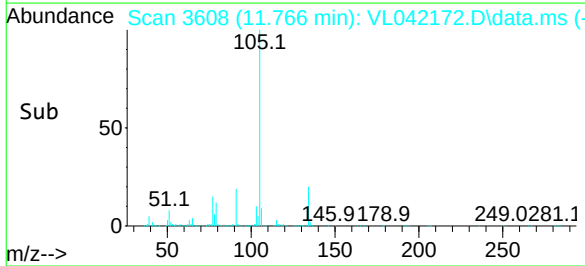
Instrument : MSVOA_1
 ClientSampleId : VSTDICCC010



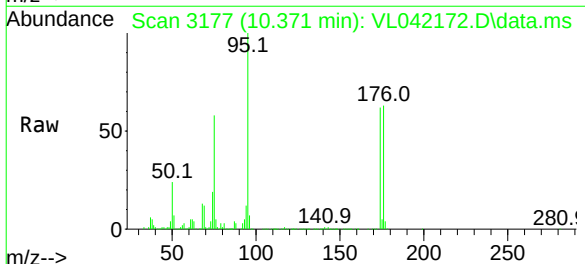
Tgt Ion: 105 Resp: 1249106
 Ion Ratio Lower Upper
 105 100
 134 19.4 15.5 23.3

Manual Integrations
 APPROVED

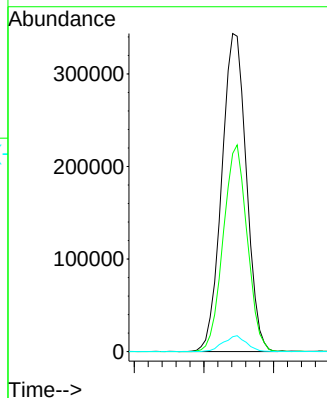
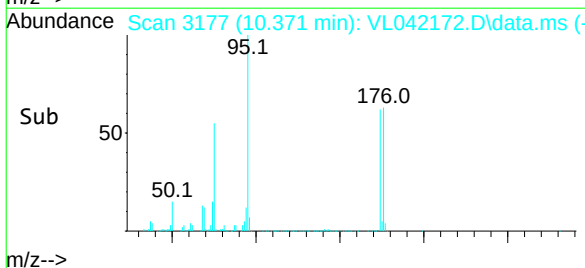
Reviewed By : Semsettin Yesilyurt 03/31/2025
 Supervised By : Mahesh Dadoda 04/03/2025

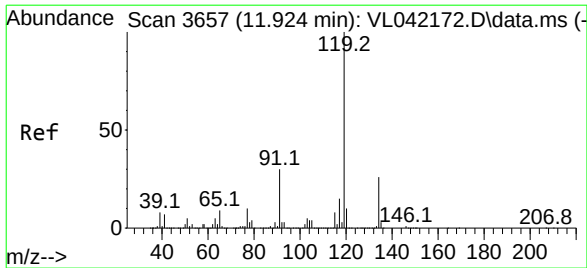


#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.901 ppbv
 RT: 10.371 min Scan# 3177
 Delta R.T. 0.000 min
 Lab File: VL042172.D
 Acq: 27 Mar 2025 08:26



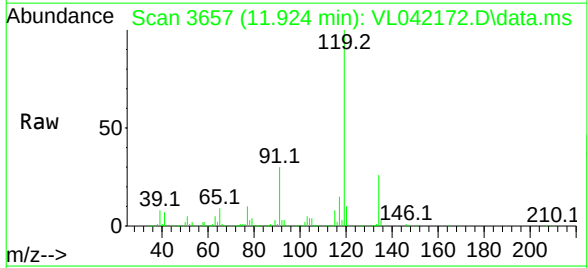
Tgt Ion: 95 Resp: 422410
 Ion Ratio Lower Upper
 95 100
 174 63.3 50.6 76.0
 175 4.7 3.8 5.6





#69
p-Isopropyltoluene
Concen: 8.830 ppbv
RT: 11.924 min Scan# 3657
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

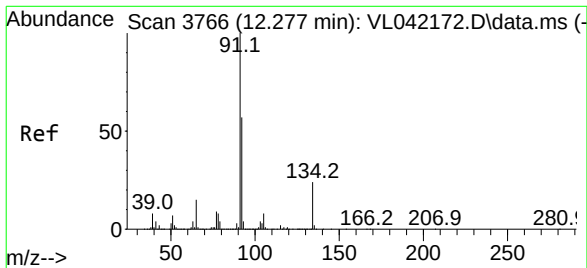
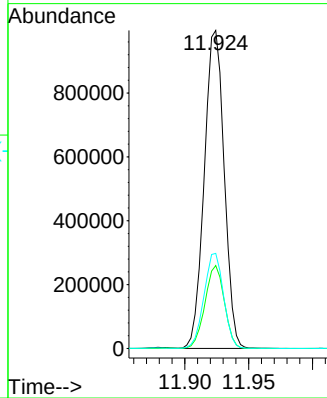
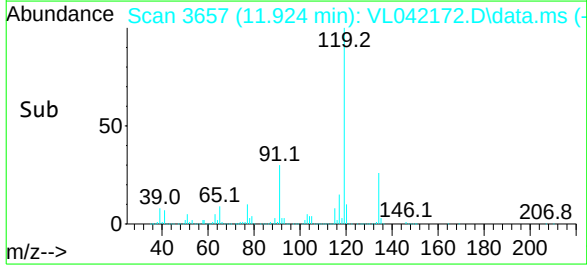
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010



Tgt Ion: 119 Resp: 1079675
Ion Ratio Lower Upper
119 100
134 25.5 20.4 30.6
91 29.6 23.7 35.5

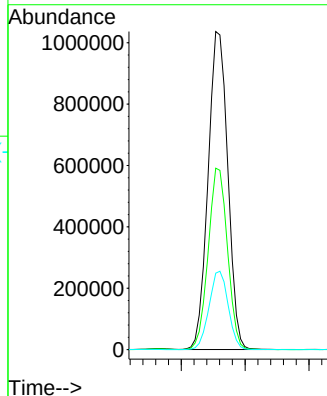
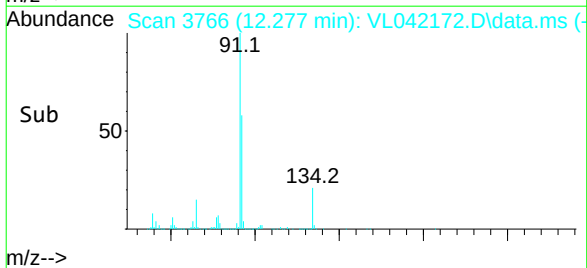
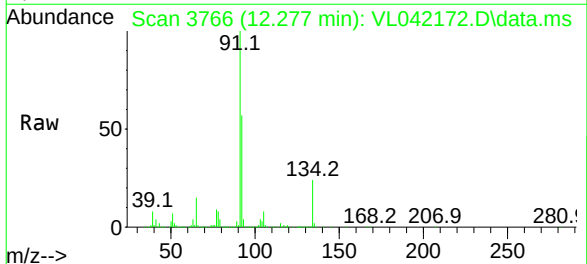
Manual Integrations
APPROVED

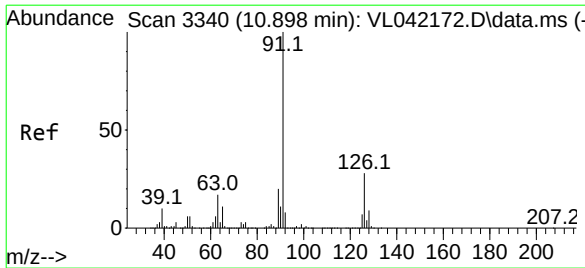
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#70
n-Butylbenzene
Concen: 8.879 ppbv
RT: 12.277 min Scan# 3766
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

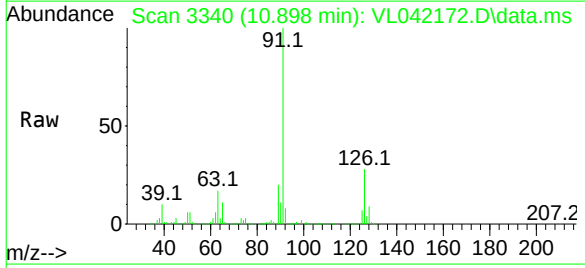
Tgt Ion: 91 Resp: 1110351
Ion Ratio Lower Upper
91 100
92 56.1 44.9 67.3
134 24.0 19.2 28.8





#71
2-Chlorotoluene
Concen: 9.320 ppbv
RT: 10.898 min Scan# 3340
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

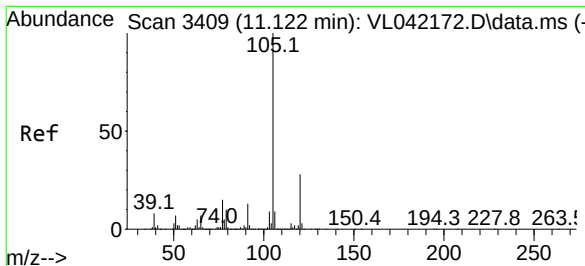
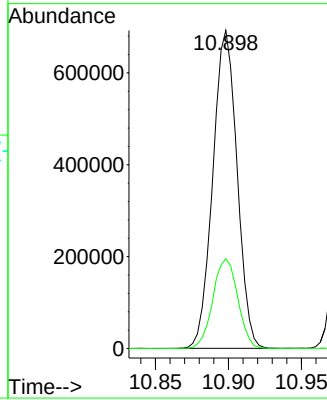
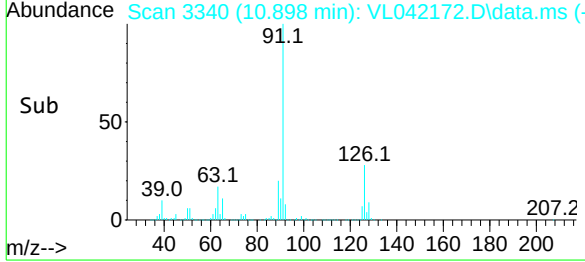
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



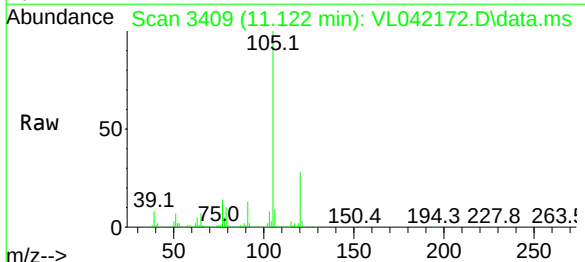
Tgt Ion: 91 Resp: 799102
Ion Ratio Lower Upper
91 100
126 29.0 11.6 46.4

Manual Integrations
APPROVED

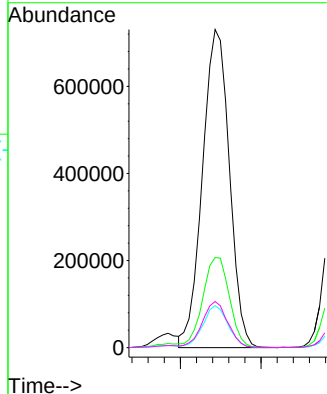
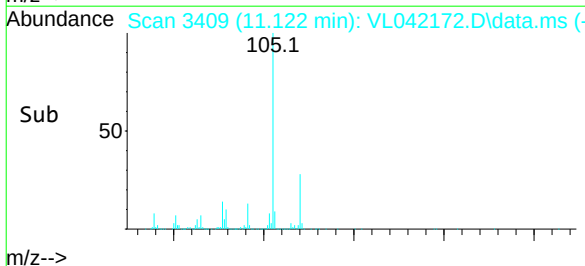
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

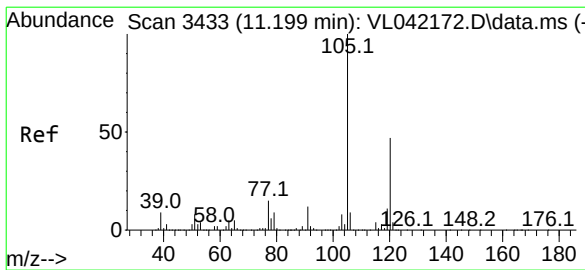


#72
4-Ethyltoluene
Concen: 9.200 ppbv
RT: 11.122 min Scan# 3409
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26



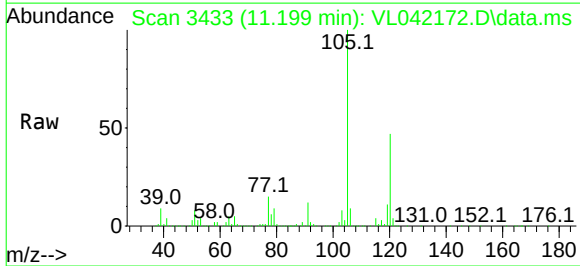
Tgt Ion:105 Resp: 846232
Ion Ratio Lower Upper
105 100
120 29.2 23.4 35.0
91 12.9 10.3 15.5
77 14.3 11.4 17.2





#73
1,3,5-Trimethylbenzene
Concen: 8.970 ppbv
RT: 11.199 min Scan# 3433
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

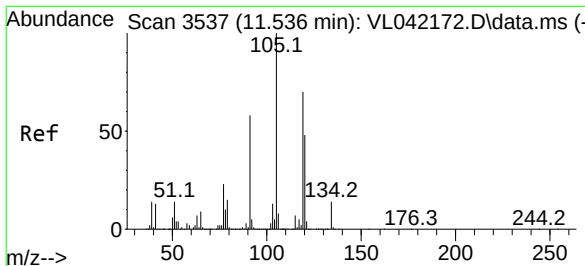
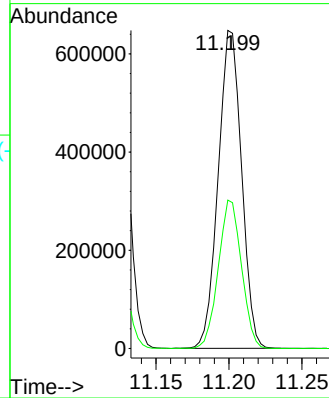
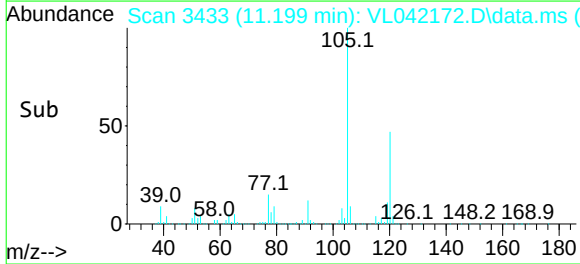
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



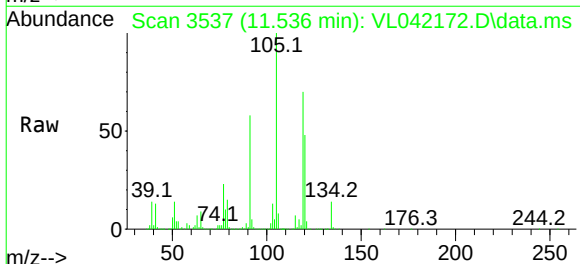
Tgt Ion:105 Resp: 720566
Ion Ratio Lower Upper
105 100
120 46.7 37.4 56.0

Manual Integrations
APPROVED

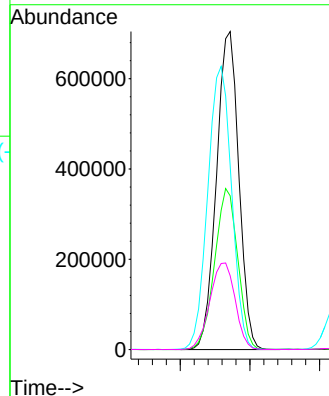
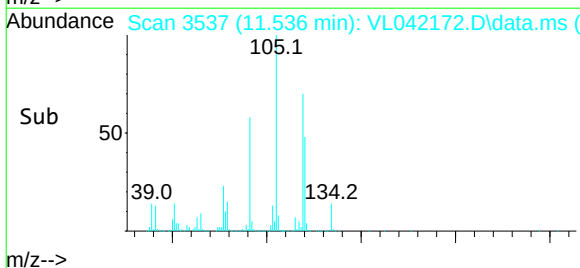
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

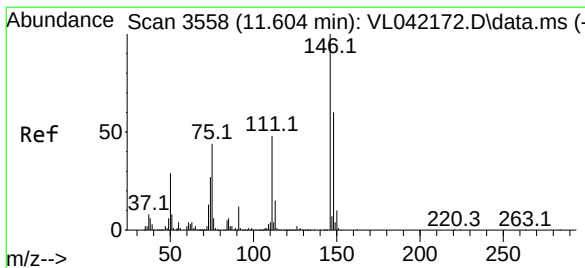


#74
1,2,4-Trimethylbenzene
Concen: 8.480 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26



Tgt Ion:105 Resp: 784745
Ion Ratio Lower Upper
105 100
120 48.3 38.6 58.0
91 57.7 46.2 69.2
77 23.2 18.6 27.8





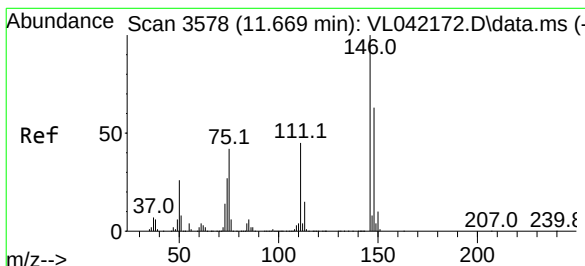
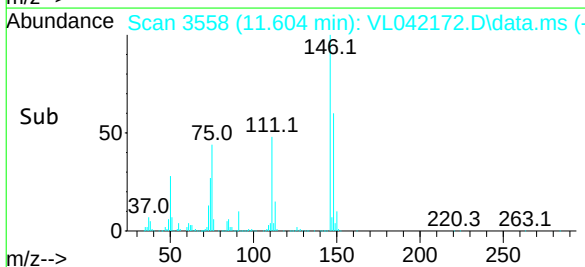
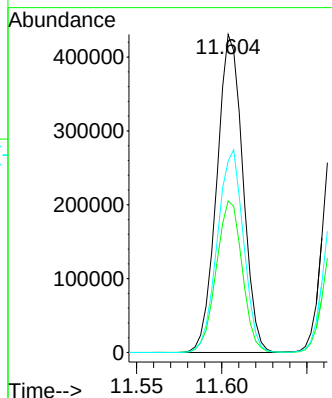
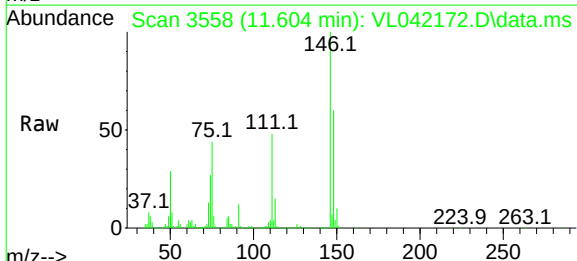
#75
1,3-Dichlorobenzene
Concen: 9.028 ppbv
RT: 11.604 min Scan# 3558
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:146 Resp: 458226
Ion Ratio Lower Upper
146 100
111 47.5 23.8 71.2
148 63.9 31.9 95.9

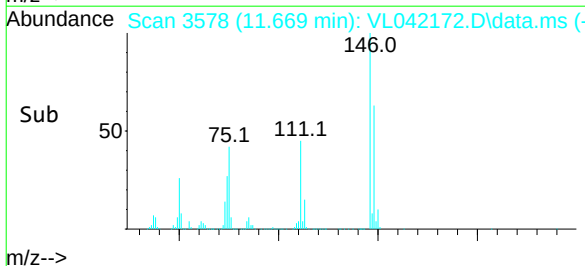
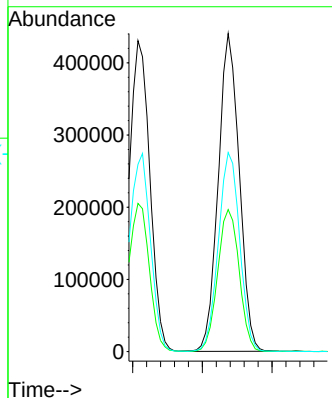
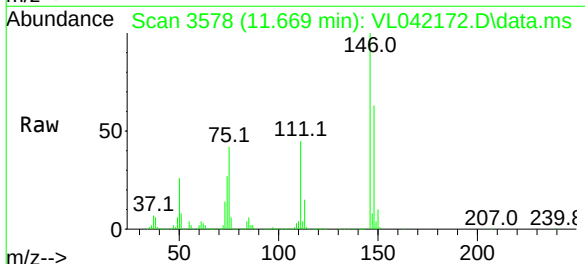
Manual Integrations
APPROVED

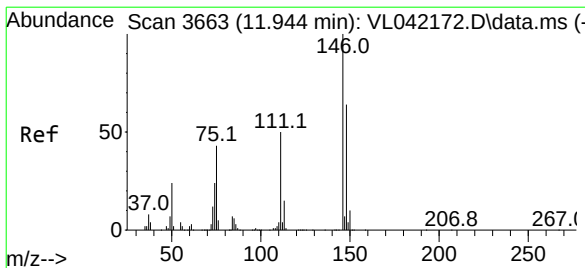
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#76
1,4-Dichlorobenzene
Concen: 9.134 ppbv
RT: 11.669 min Scan# 3578
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion:146 Resp: 461371
Ion Ratio Lower Upper
146 100
111 46.0 23.0 69.0
148 63.8 31.9 95.7





#77

1,2-Dichlorobenzene

Concen: 8.933 ppbv

RT: 11.944 min Scan# 3663

Delta R.T. 0.000 min

Lab File: VL042172.D

Acq: 27 Mar 2025 08:26

Instrument :

MSVOA_L

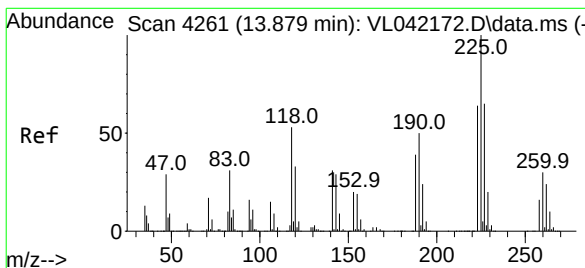
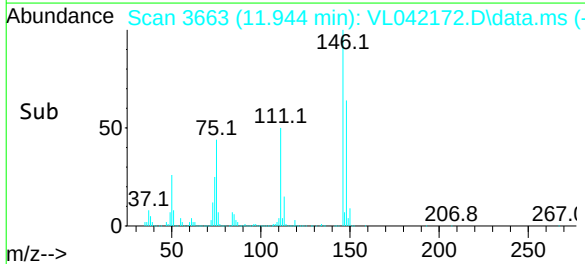
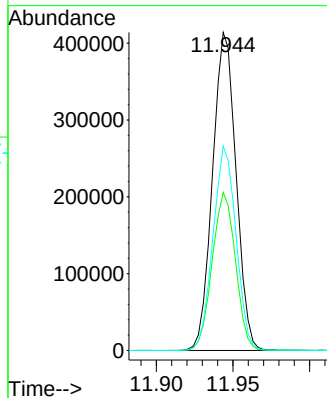
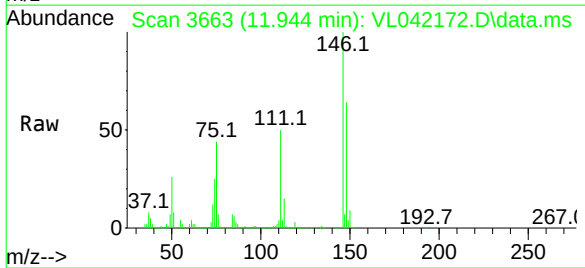
ClientSampleId :

VSTDICCC010

Tgt Ion:	146	Resp:	441473
Ion Ratio	Lower	Upper	
146	100		
111	49.5	24.8	74.3
148	63.2	31.6	94.8

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#78

Hexachloro-1,3-Butadiene

Concen: 8.284 ppbv

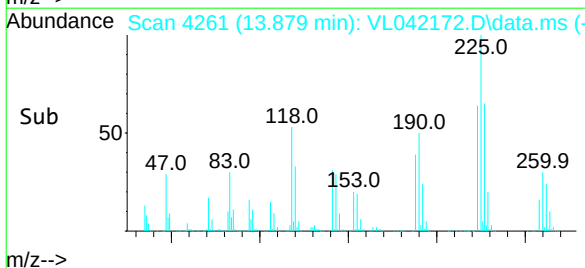
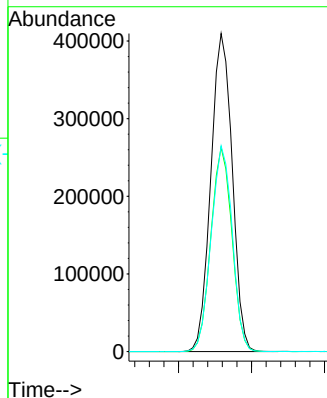
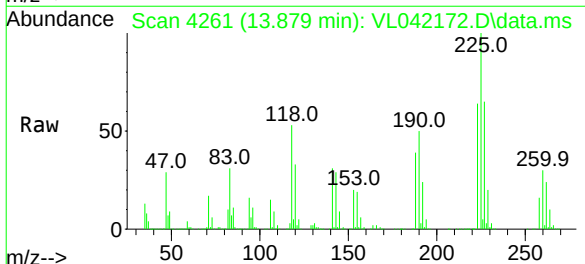
RT: 13.879 min Scan# 4261

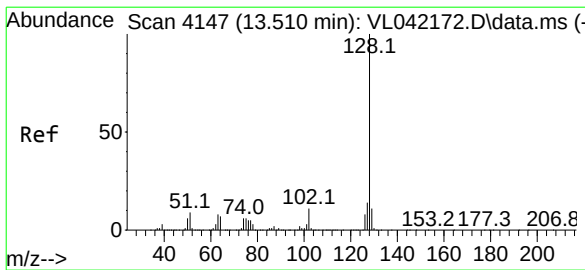
Delta R.T. 0.000 min

Lab File: VL042172.D

Acq: 27 Mar 2025 08:26

Tgt Ion:	225	Resp:	416735
Ion Ratio	Lower	Upper	
225	100		
223	63.3	50.6	76.0
227	64.0	51.2	76.8





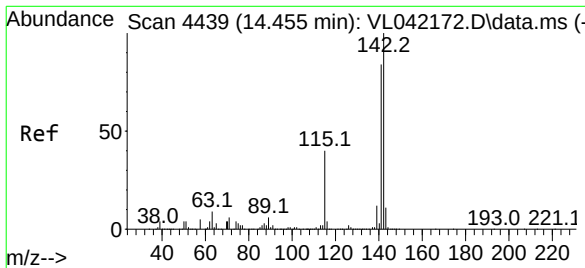
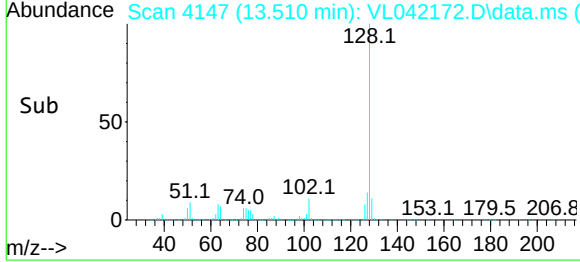
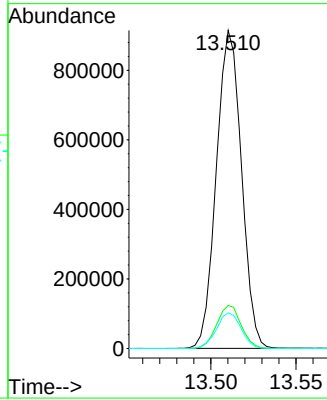
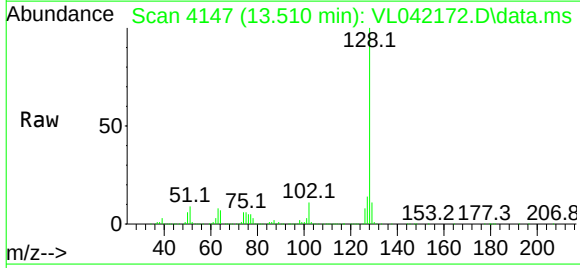
#79
Naphthalene
Concen: 9.271 ppbv
RT: 13.510 min Scan# 4147
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:	128	Resp:	938476
Ion Ratio	Lower	Upper	
128	100		
127	13.5	10.8	16.2
129	11.2	9.0	13.4

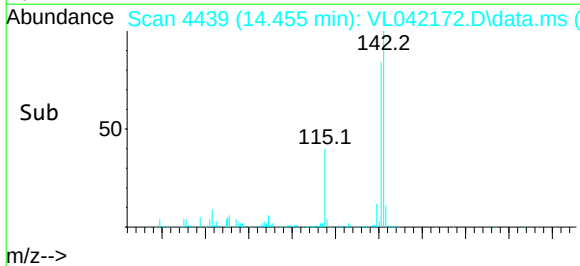
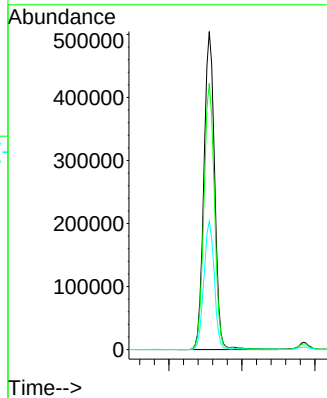
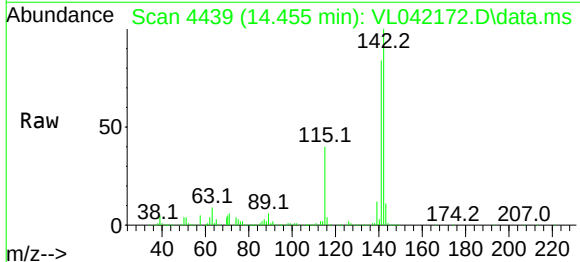
Manual Integrations
APPROVED

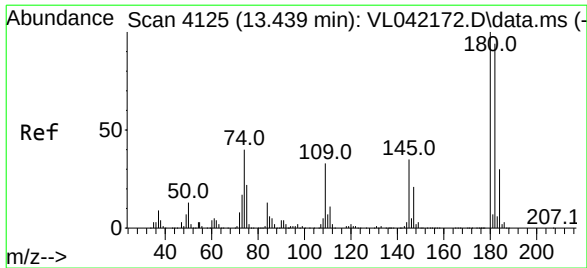
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#80
Naphthalene, 2-methyl-
Concen: 10.436 ppbv
RT: 14.455 min Scan# 4439
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

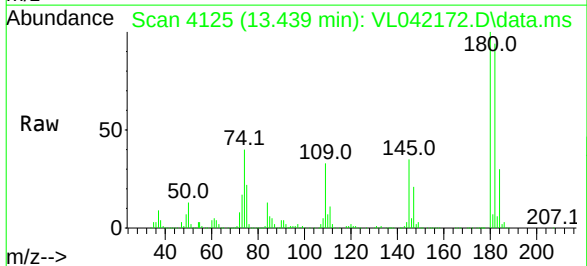
Tgt Ion:	142	Resp:	514394
Ion Ratio	Lower	Upper	
142	100		
141	82.9	66.3	99.5
115	39.5	31.6	47.4





#81
1,2,4-Trichlorobenzene
Concen: 9.561 ppbv
RT: 13.439 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

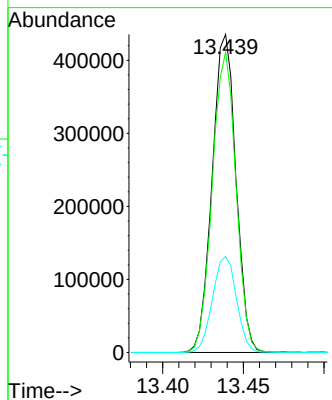
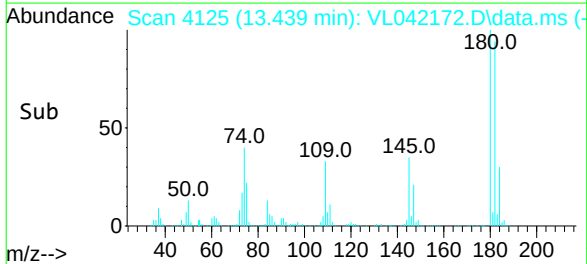
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion:	180	Resp:	446420
Ion Ratio	Lower	Upper	
180	100		
182	93.9	75.1	112.7
184	30.5	24.4	36.6

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

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

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	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
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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

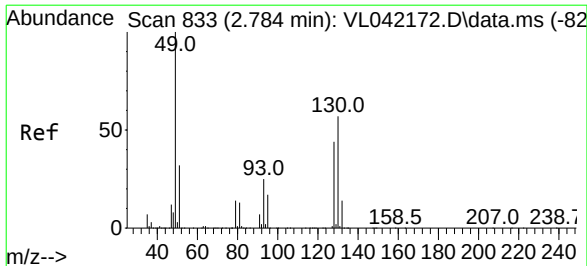
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Fri Mar 28 01:31:23 2025

Response via : Initial Calibration

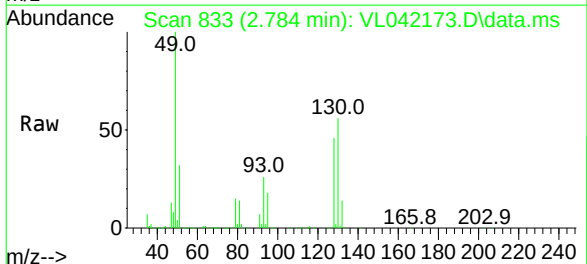
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	61829	2.050	ppbv #	91
47) 1,1,2-Trichloroethane	6.577	97	41387	1.985	ppbv	95
48) Dibromochloromethane	7.383	129	72441	2.050	ppbv	100
49) Bromoform	9.477	173	65221	2.056	ppbv	98
50) 4-Methyl-2-Pentanone	5.752	43	132328	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



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 833
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

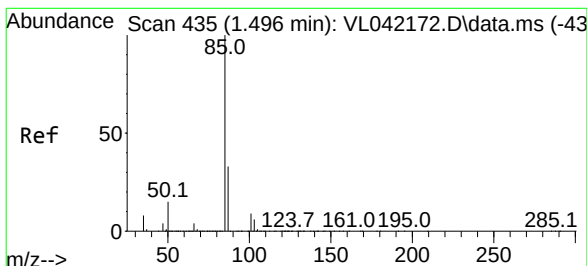
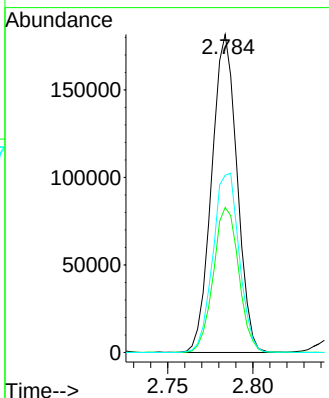
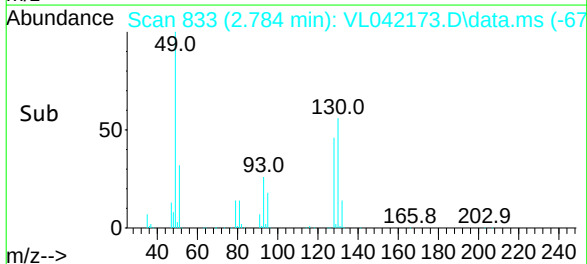
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



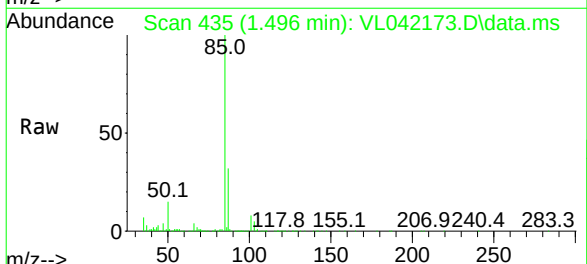
Tgt Ion: 49 Resp: 188395
Ion Ratio Lower Upper
49 100
128 45.7 22.9 68.5
130 58.5 28.8 86.4

Manual Integrations
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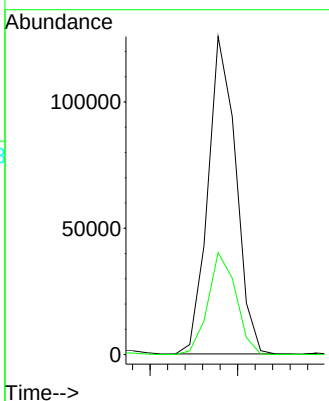
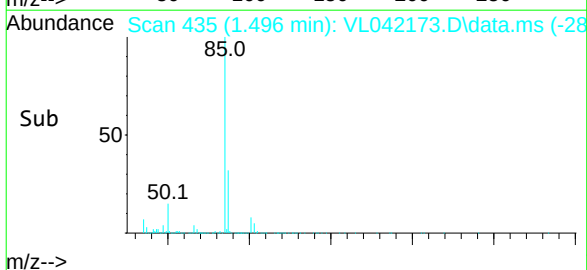
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

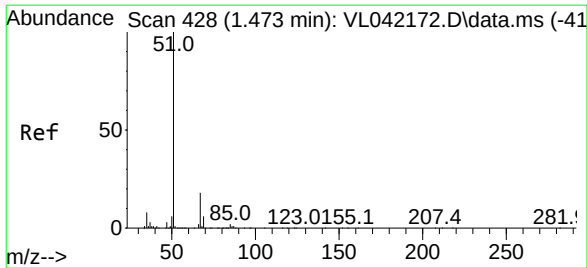


#2
Dichlorodifluoromethane
Concen: 2.008 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59



Tgt Ion: 85 Resp: 55859
Ion Ratio Lower Upper
85 100
87 32.1 26.1 39.1





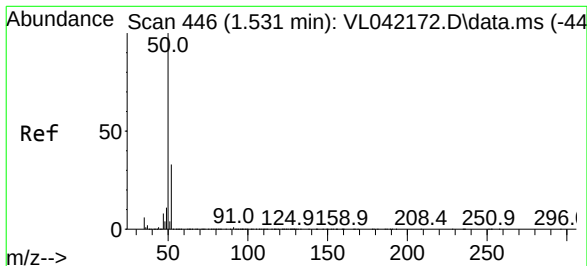
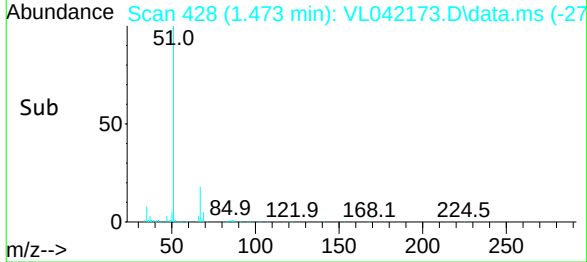
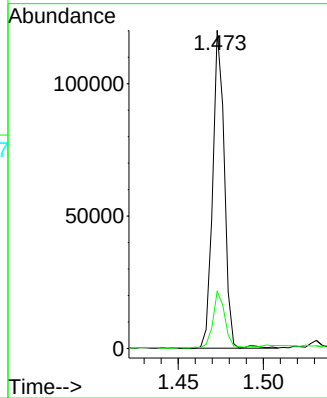
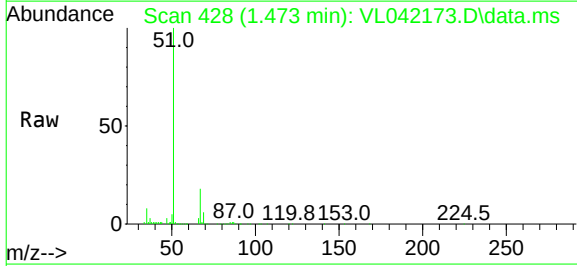
#3
Chlorodifluoromethane
Concen: 2.007 ppbv
RT: 1.473 min Scan# 428
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 51 Resp: 57045
Ion Ratio Lower Upper
51 100
67 19.4 15.0 22.6

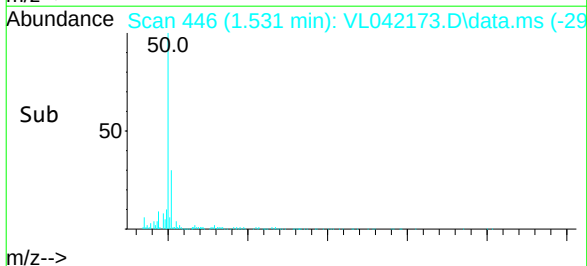
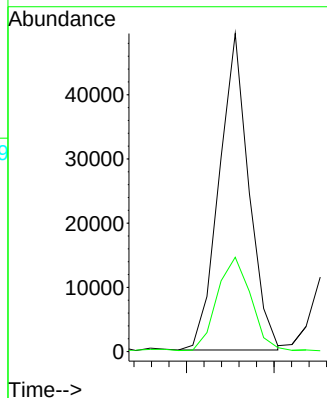
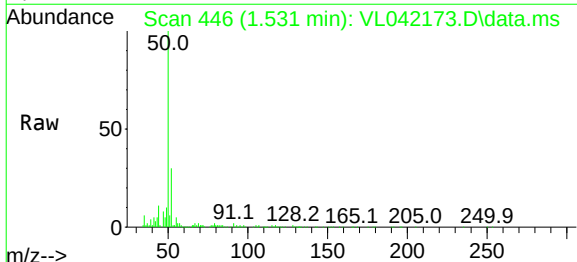
Manual Integrations
APPROVED

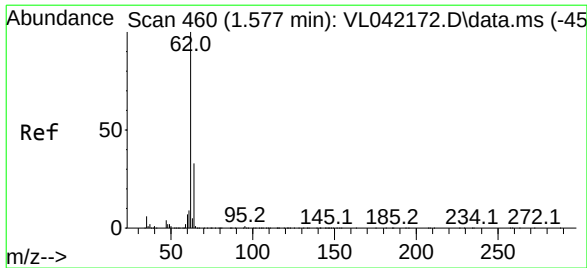
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#4
Chloromethane
Concen: 2.049 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 50 Resp: 23293
Ion Ratio Lower Upper
50 100
52 29.5 26.1 39.1





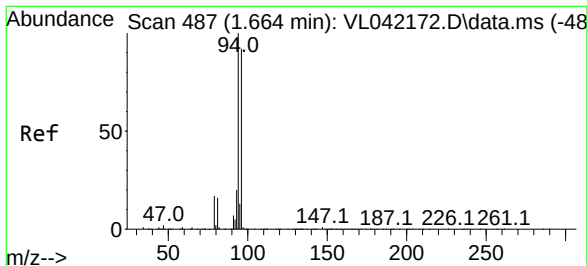
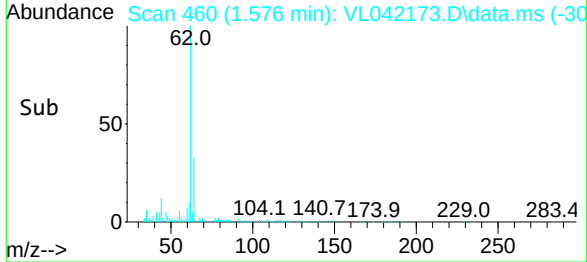
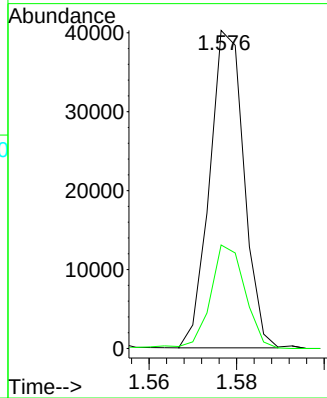
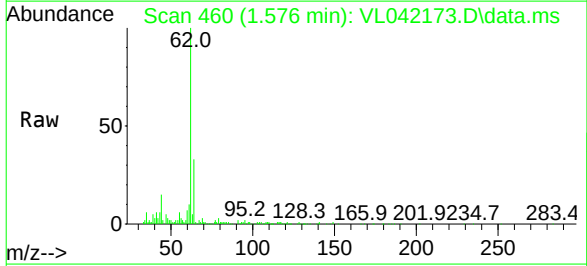
#5
 Vinyl Chloride
 Concen: 1.897 ppbv
 RT: 1.576 min Scan# 460
 Delta R.T. -0.000 min
 Lab File: VL042173.D
 Acq: 27 Mar 2025 08:59

Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICC002

Tgt Ion: 62 Resp: 21989
 Ion Ratio Lower Upper
 62 100
 64 32.5 26.6 40.0

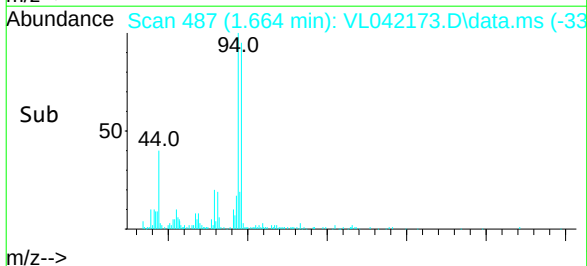
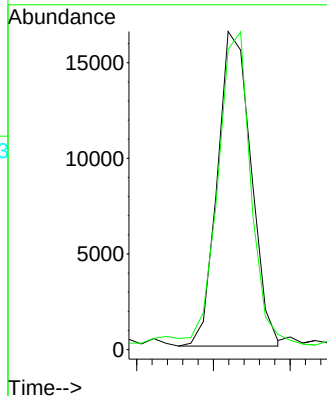
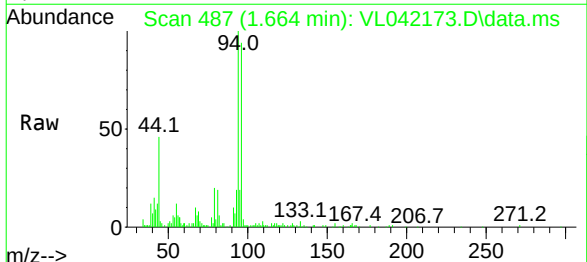
Manual Integrations
 APPROVED

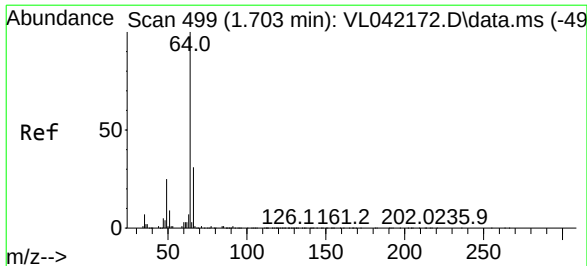
Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025



#6
 Bromomethane
 Concen: 1.946 ppbv
 RT: 1.664 min Scan# 487
 Delta R.T. -0.000 min
 Lab File: VL042173.D
 Acq: 27 Mar 2025 08:59

Tgt Ion: 94 Resp: 10027
 Ion Ratio Lower Upper
 94 100
 96 93.6 73.1 109.7





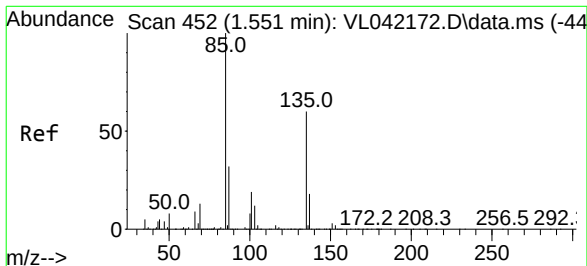
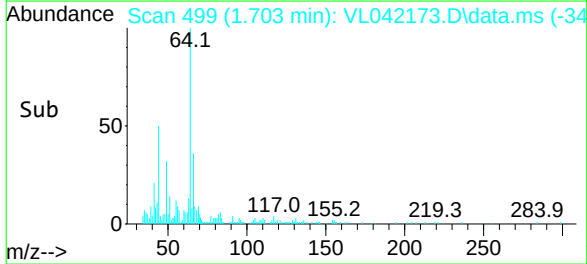
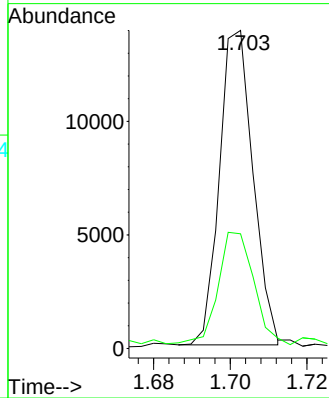
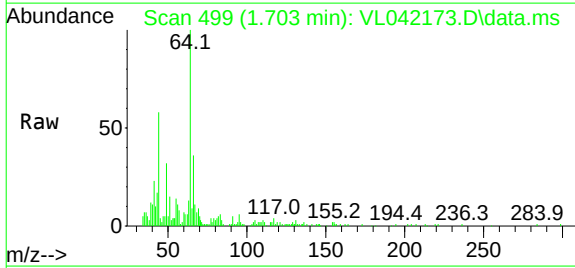
#7
Chloroethane
Concen: 1.844 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 64 Resp: 8413
Ion Ratio Lower Upper
64 100
66 36.1 25.2 37.8

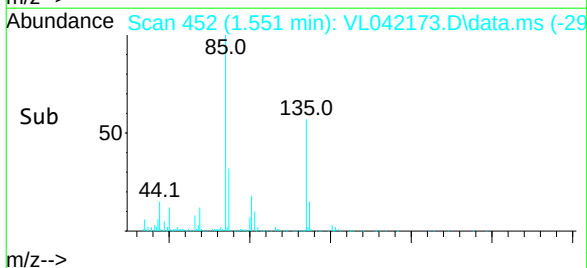
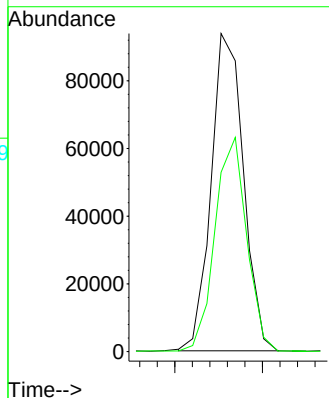
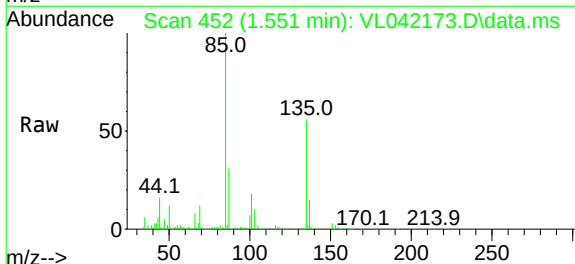
Manual Integrations
APPROVED

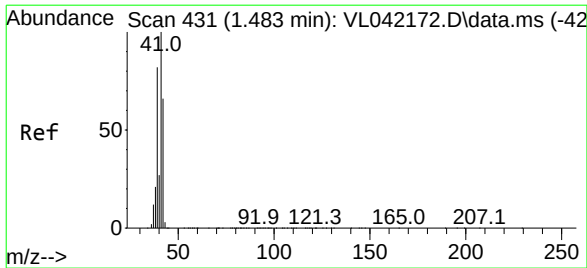
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#8
Dichlorotetrafluoroethane
Concen: 2.027 ppbv
RT: 1.551 min Scan# 452
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

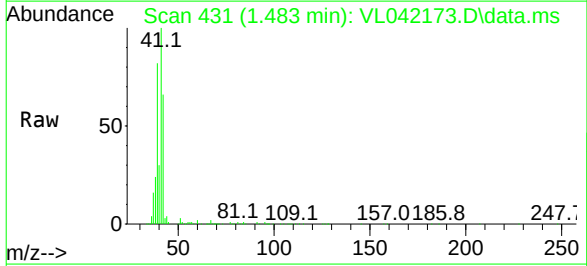
Tgt Ion: 85 Resp: 48008
Ion Ratio Lower Upper
85 100
135 66.8 52.4 78.6





#9
Propene
Concen: 2.054 ppbv
RT: 1.483 min Scan# 431
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

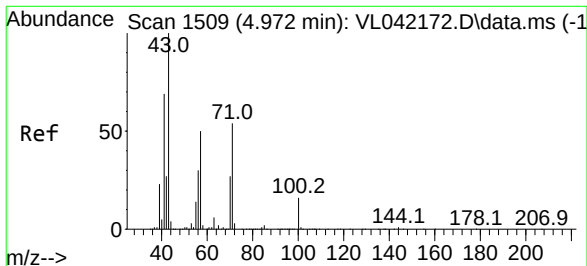
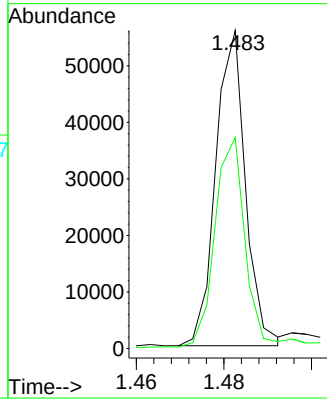
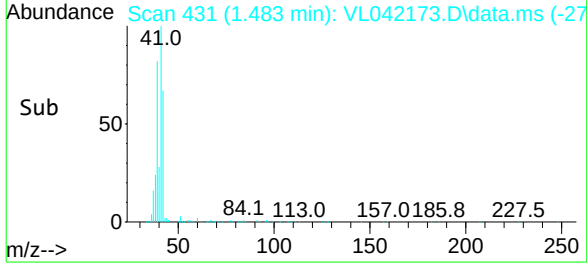
Instrument : MSVOA_L
ClientSampleId : VSTDICC002



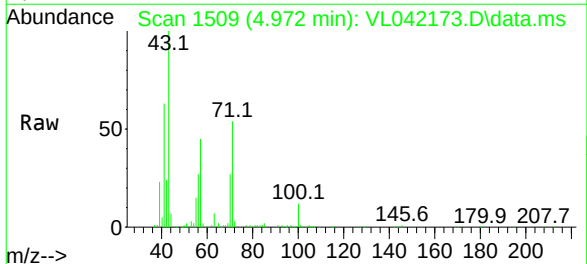
Tgt Ion: 41 Resp: 26295
Ion Ratio Lower Upper
41 100
42 73.9 55.4 83.2

Manual Integrations
APPROVED

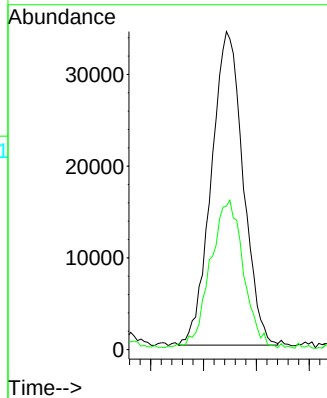
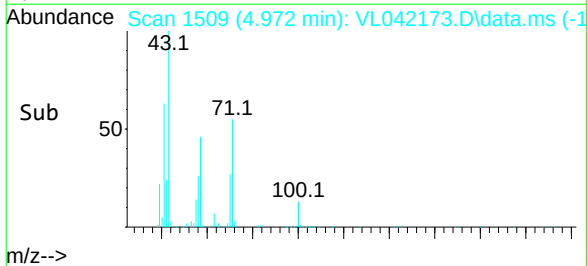
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

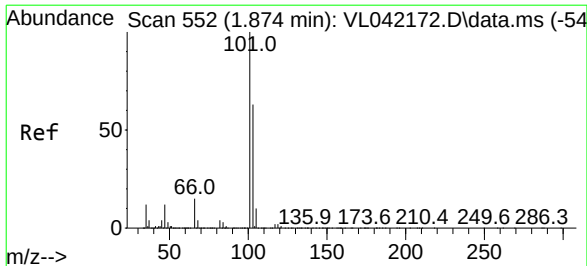


#10
Heptane
Concen: 2.063 ppbv
RT: 4.972 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59



Tgt Ion: 43 Resp: 71466
Ion Ratio Lower Upper
43 100
57 49.6 39.4 59.2





#11

Trichlorofluoromethane

Concen: 2.060 ppbv

RT: 1.874 min Scan# 552

Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

Tgt Ion:101 Resp: 55754

Ion Ratio Lower Upper

101 100

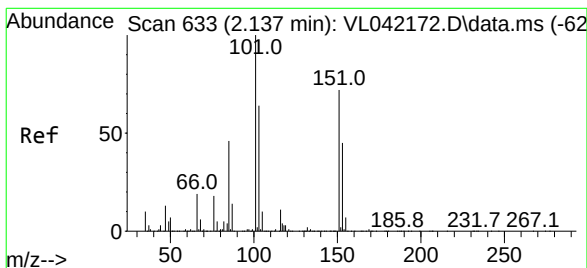
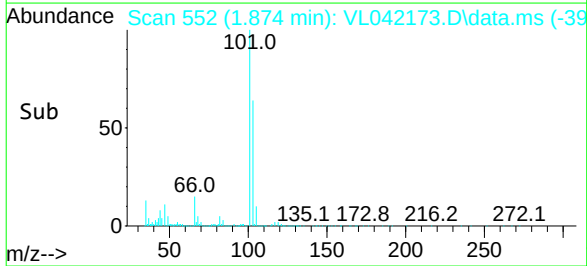
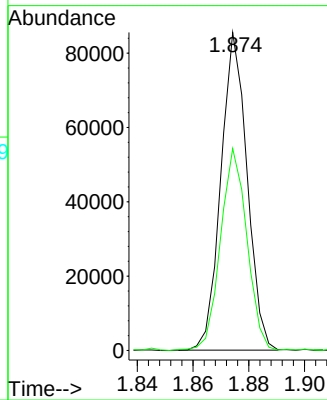
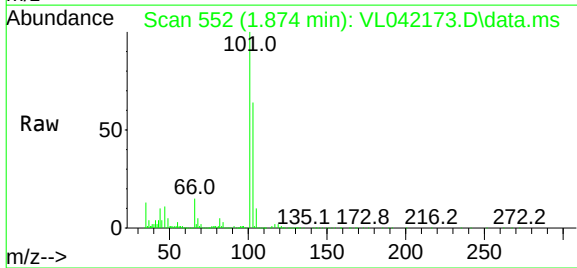
103 63.5 50.2 75.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025

Supervised By :Mahesh Dadoda 04/03/2025



#12

1,1,2-Trichlorotrifluoroethane

Concen: 2.012 ppbv

RT: 2.136 min Scan# 633

Delta R.T. -0.000 min

Lab File: VL042173.D

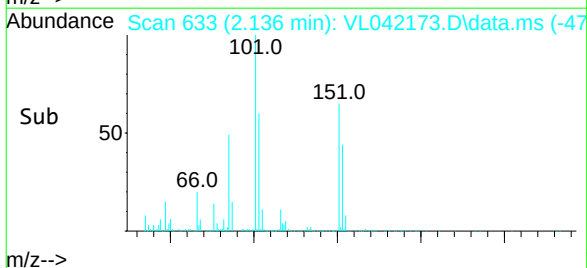
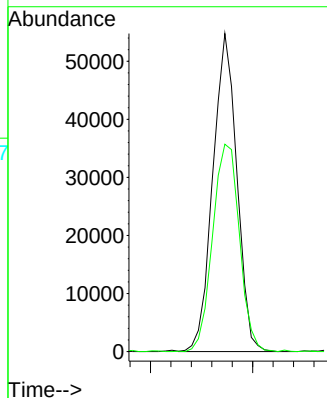
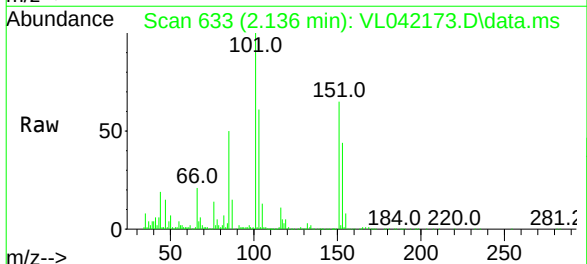
Acq: 27 Mar 2025 08:59

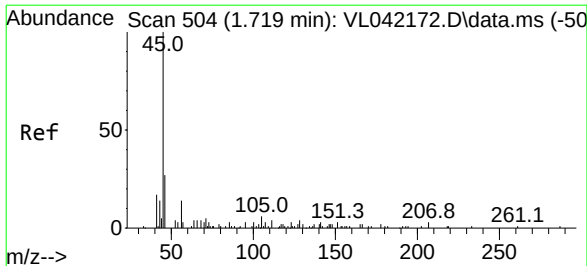
Tgt Ion:101 Resp: 44761

Ion Ratio Lower Upper

101 100

151 73.0 57.1 85.7





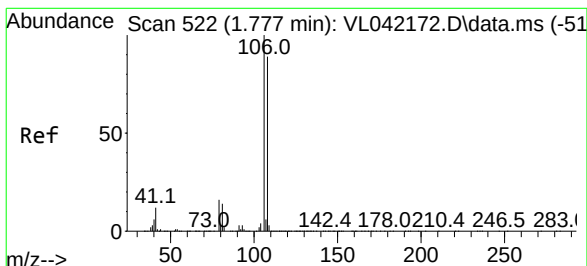
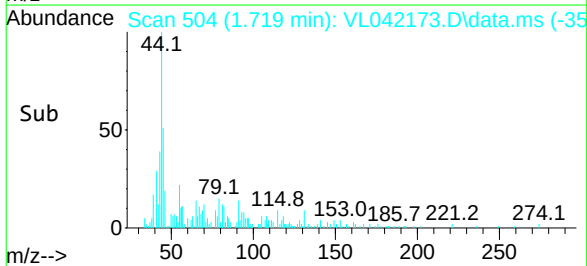
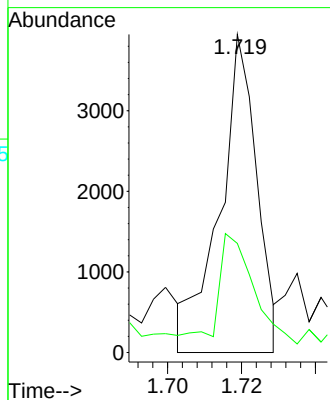
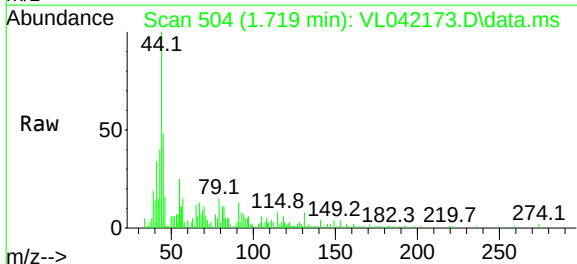
#13
Ethanol
Concen: 2.741 ppbv m
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 45 Resp: 2748
Ion Ratio Lower Upper
45 100
46 56.9 20.2 80.8

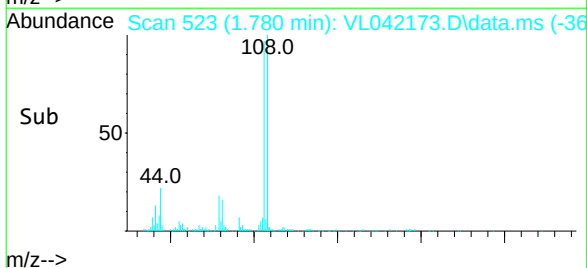
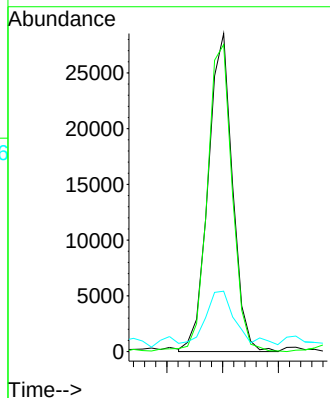
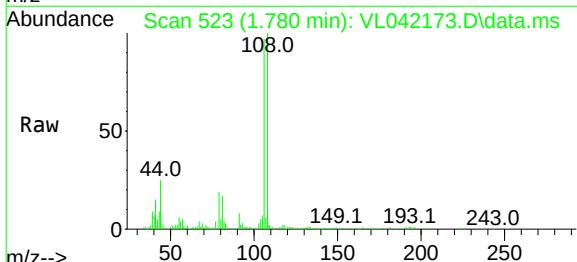
Manual Integrations
APPROVED

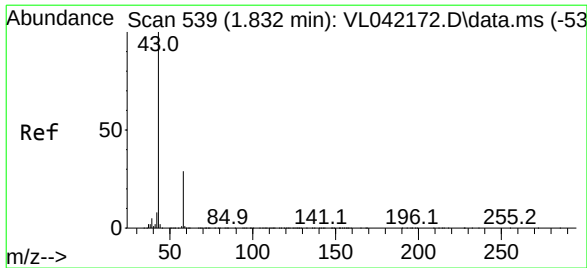
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#14
Bromoethene
Concen: 2.033 ppbv
RT: 1.780 min Scan# 523
Delta R.T. 0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion:108 Resp: 17323
Ion Ratio Lower Upper
108 100
106 100.6 86.8 130.2
79 32.0 15.0 22.6#





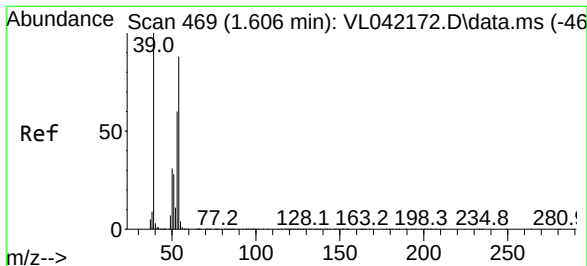
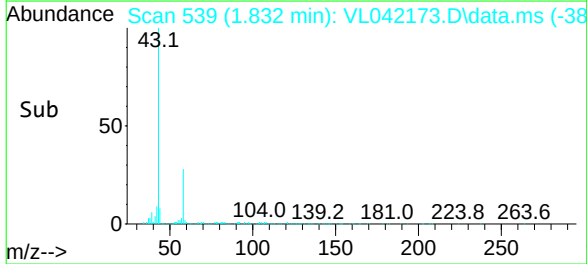
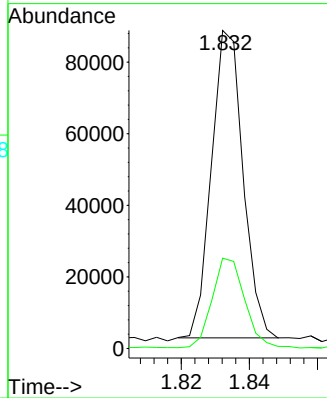
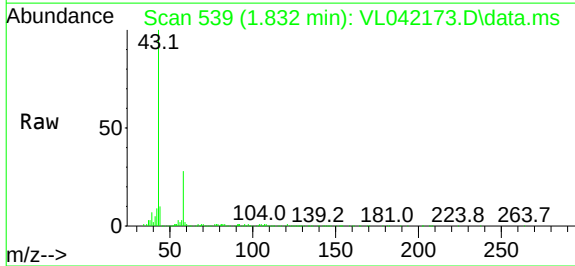
#15
Acetone
Concen: 2.101 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 43 Resp: 55365
Ion Ratio Lower Upper
43 100
58 31.8 23.2 34.8

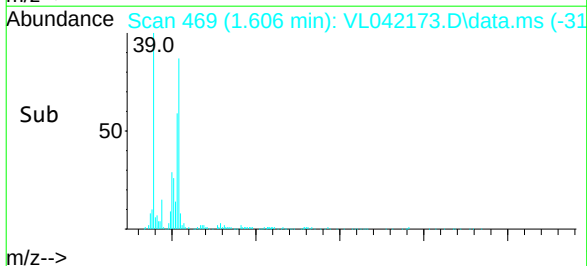
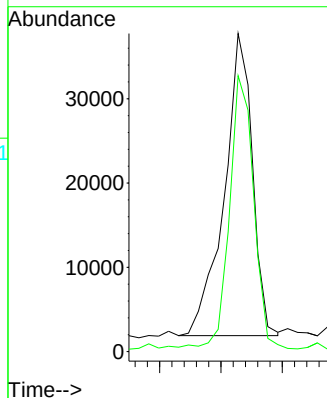
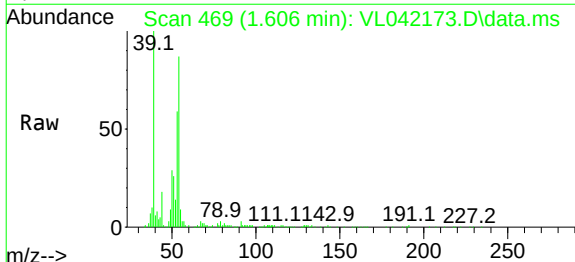
Manual Integrations
APPROVED

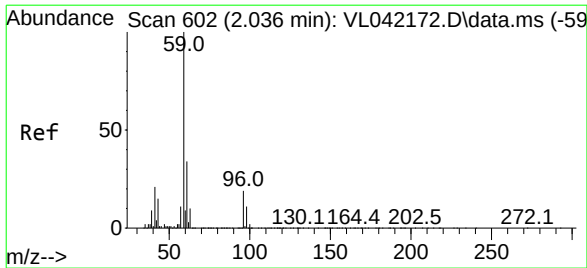
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#16
1,3-Butadiene
Concen: 1.932 ppbv
RT: 1.606 min Scan# 469
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 39 Resp: 22894
Ion Ratio Lower Upper
39 100
54 79.9 60.7 91.1





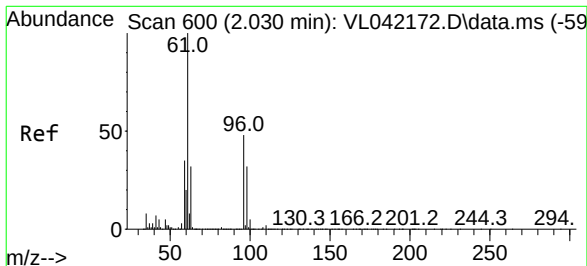
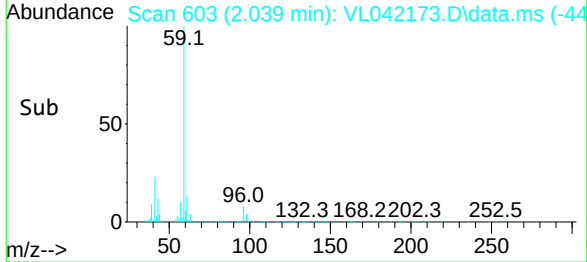
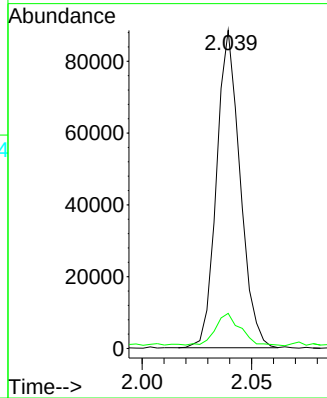
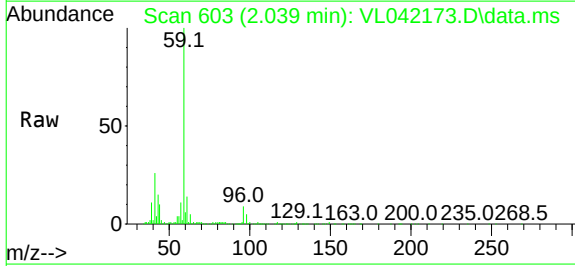
#17
tert-Butyl alcohol
Concen: 2.016 ppbv
RT: 2.039 min Scan# 60
Delta R.T. 0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 59 Resp: 66174
Ion Ratio Lower Upper
59 100
57 11.2 8.9 13.3

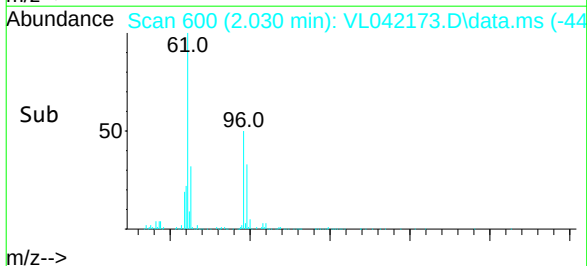
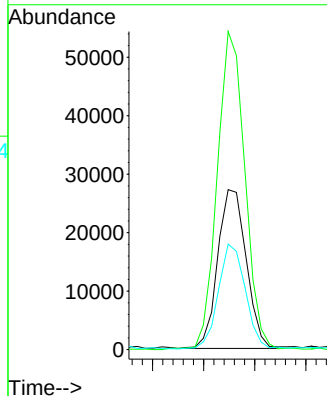
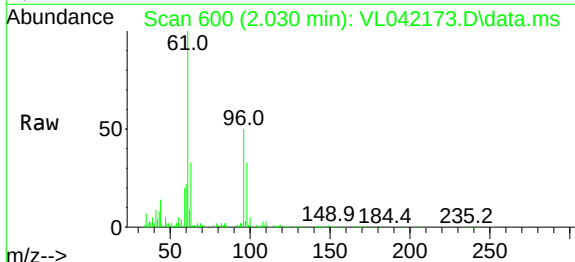
Manual Integrations
APPROVED

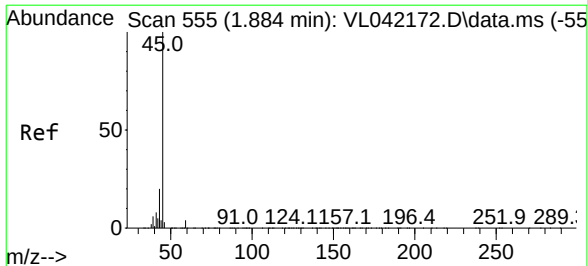
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#18
1,1-Dichloroethene
Concen: 2.029 ppbv
RT: 2.030 min Scan# 600
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 96 Resp: 21103
Ion Ratio Lower Upper
96 100
61 199.8 167.6 251.4
98 66.0 53.5 80.3





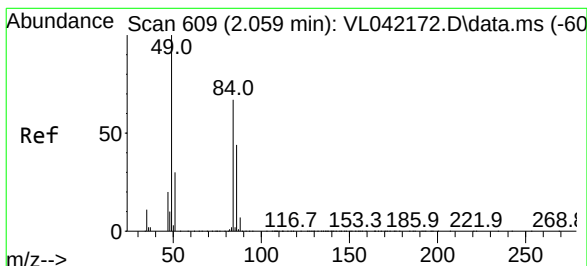
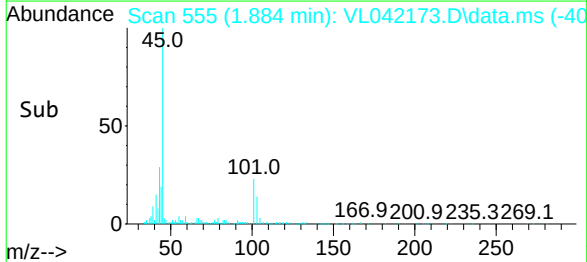
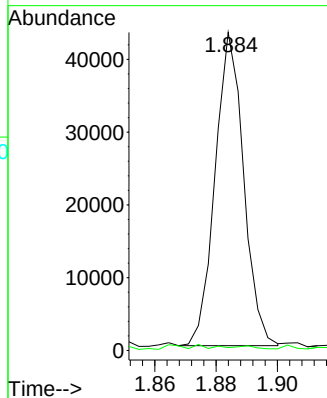
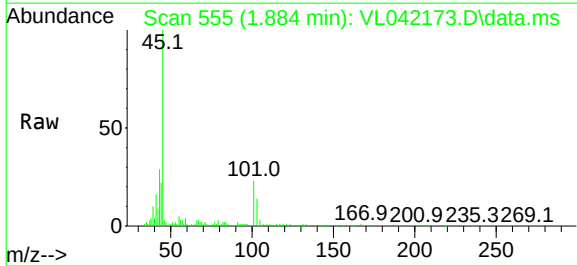
#19
Isopropyl Alcohol
Concen: 1.870 ppbv
RT: 1.884 min Scan# 555
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 45 Resp: 27804
Ion Ratio Lower Upper
45 100
58 3.3 36.9 55.3

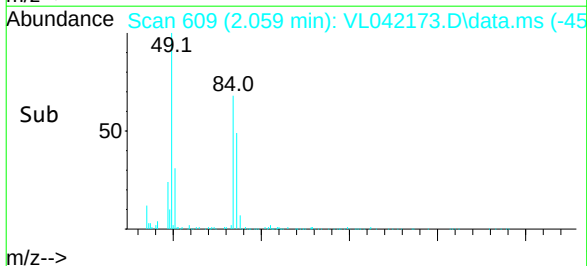
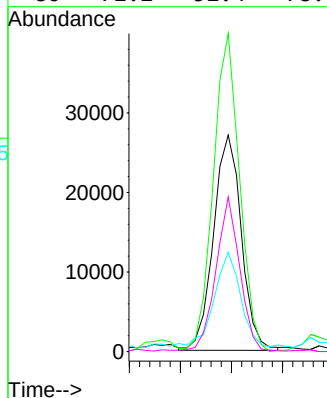
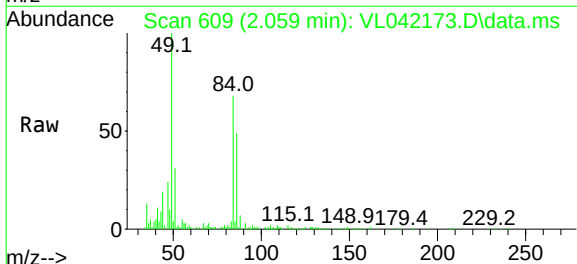
Manual Integrations
APPROVED

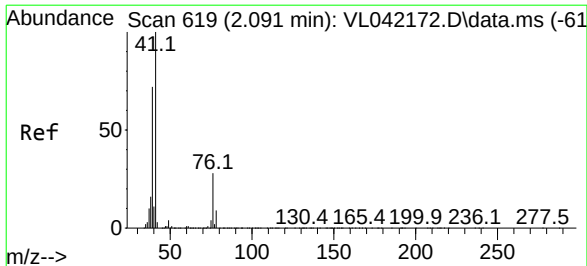
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#20
Methylene Chloride
Concen: 2.091 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 84 Resp: 20518
Ion Ratio Lower Upper
84 100
49 148.8 120.2 180.4
51 43.5 37.4 56.0
86 72.2 52.4 78.6





#21

Allyl Chloride

Concen: 2.068 ppbv

RT: 2.094 min Scan# 62

Delta R.T. 0.003 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Instrument :

MSVOA_L

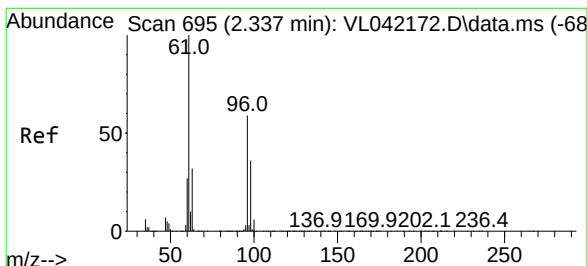
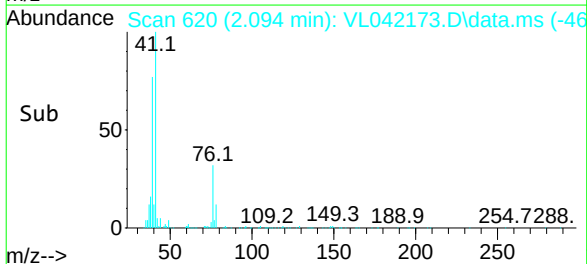
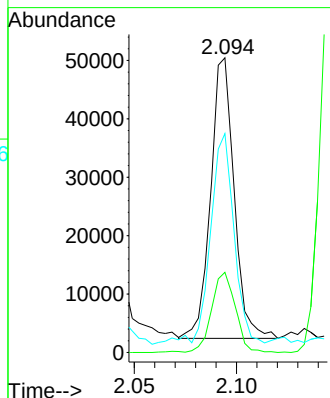
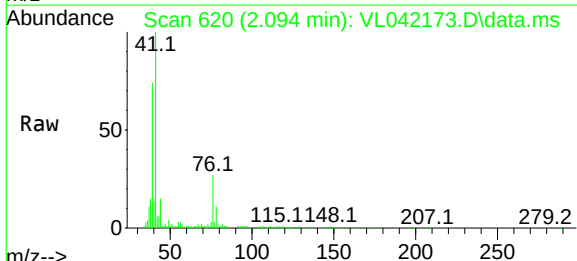
ClientSampleId :

VSTDIC002

Tgt Ion: 41	Resp: 38425
Ion Ratio	Lower Upper
41 100	
76 29.0	24.1 36.1
39 77.5	61.1 91.7

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#22

trans-1,2-Dichloroethene

Concen: 1.924 ppbv

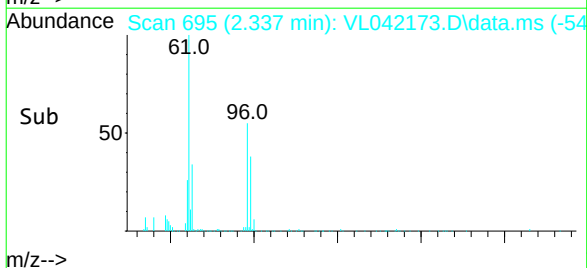
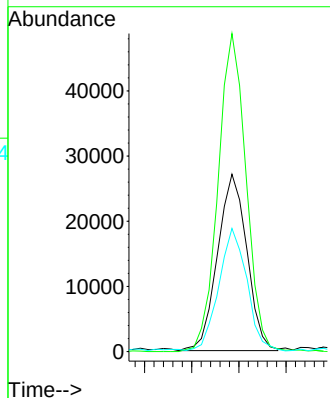
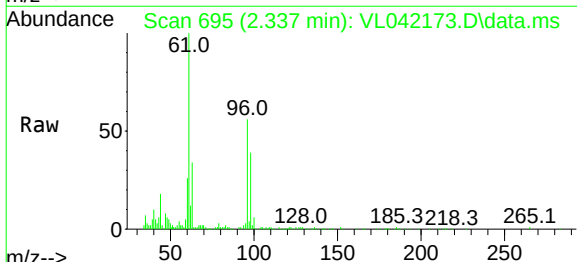
RT: 2.337 min Scan# 695

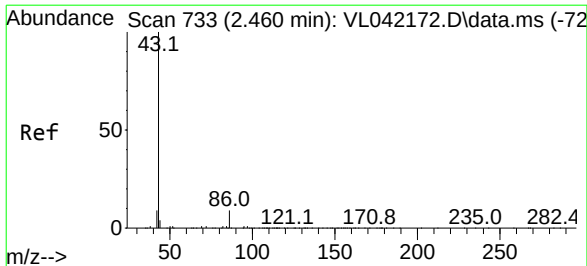
Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Tgt Ion: 96	Resp: 23384
Ion Ratio	Lower Upper
96 100	
61 180.3	136.6 204.8
98 68.6	49.4 74.2





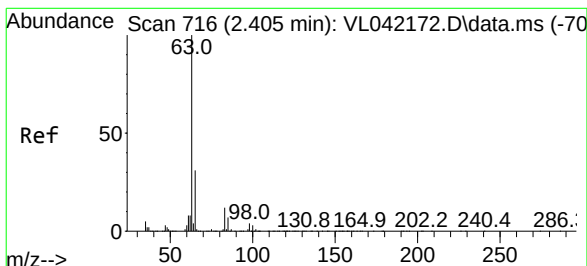
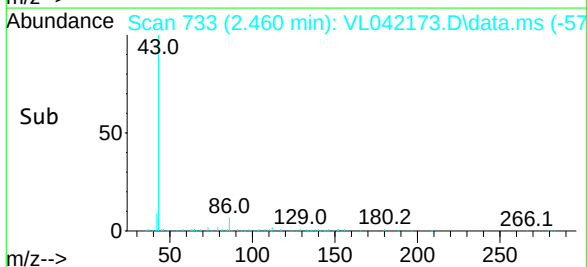
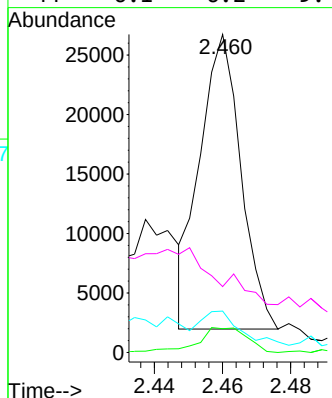
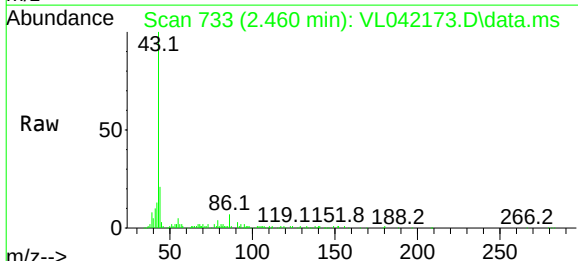
#23
Vinyl Acetate
Concen: 1.894 ppbv
RT: 2.460 min Scan# 733
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:	43	Resp:	20736
Ion	Ratio	Lower	Upper
43	100		
86	8.1	5.5	8.3
42	10.4	8.6	13.0
44	6.1	6.2	9.4

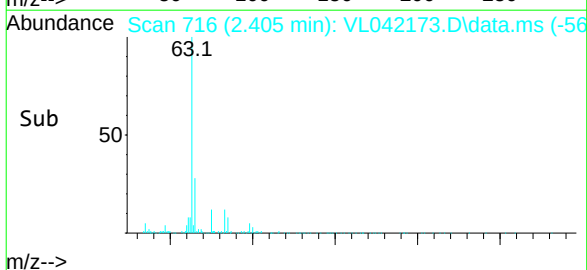
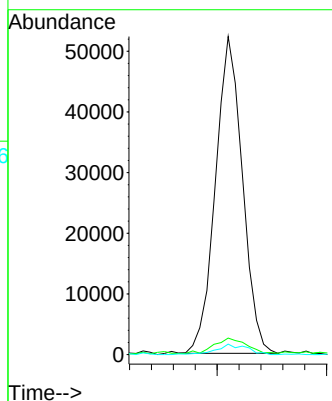
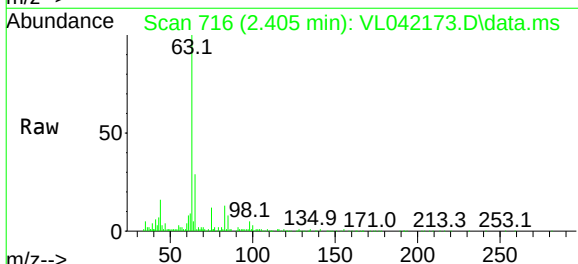
Manual Integrations
APPROVED

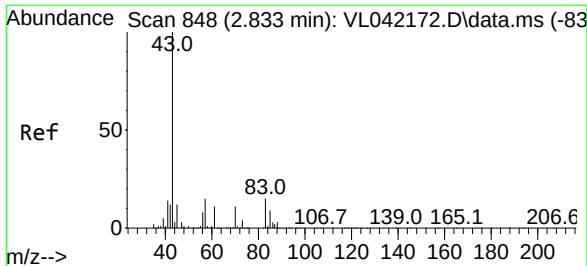
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#24
1,1-Dichloroethane
Concen: 2.008 ppbv
RT: 2.405 min Scan# 716
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

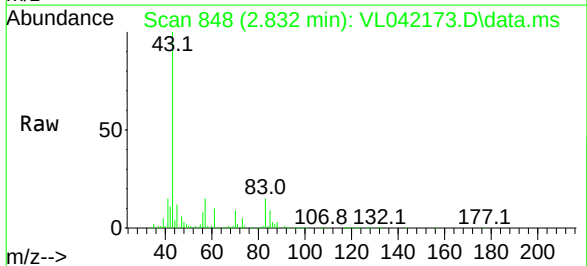
Tgt Ion:	63	Resp:	44740
Ion	Ratio	Lower	Upper
63	100		
98	4.9	2.3	6.8
100	3.3	1.6	4.7





#25
Ethyl Acetate
Concen: 2.040 ppbv
RT: 2.832 min Scan# 84
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

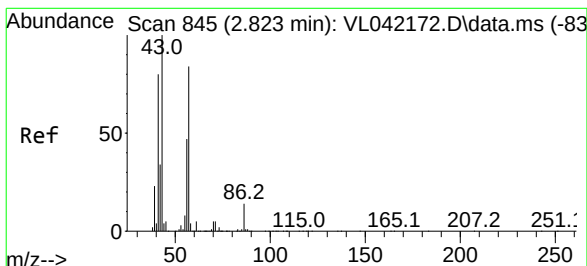
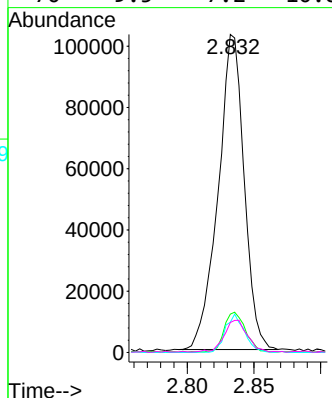
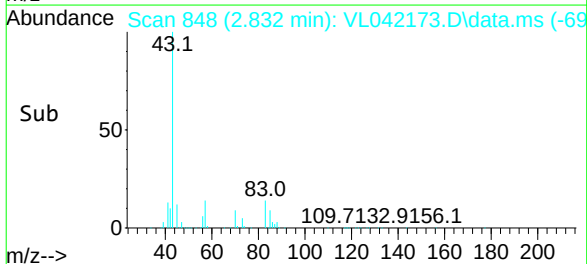
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



Tgt Ion:	43	Resp:	139516
Ion	Ratio	Lower	Upper
43	100		
45	10.9	8.2	12.2
61	9.1	7.3	10.9
70	9.5	7.2	10.8

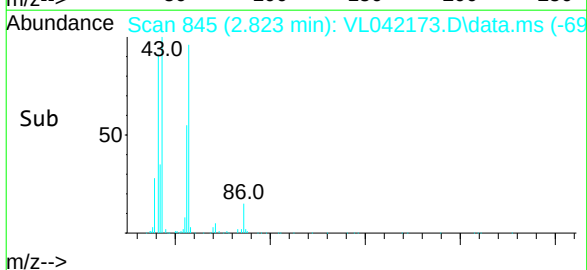
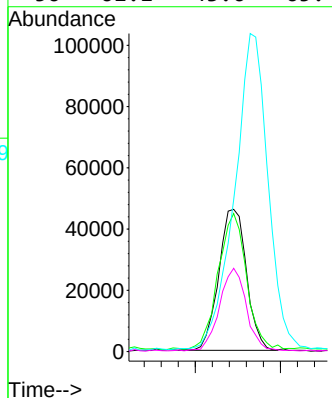
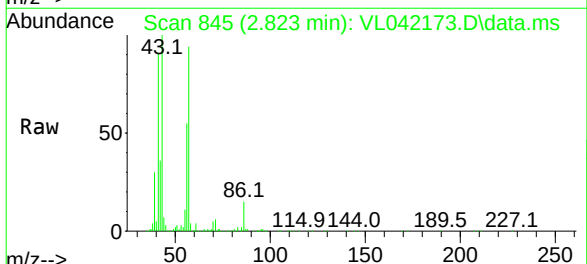
Manual Integrations
APPROVED

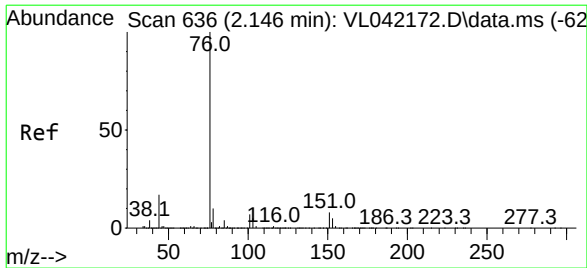
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#26
Hexane
Concen: 1.972 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

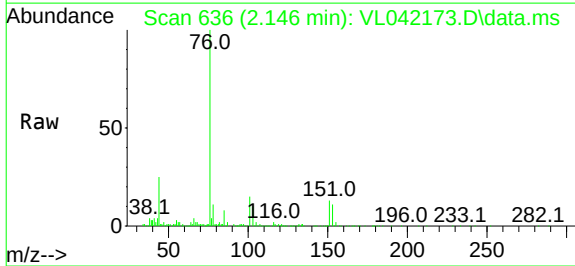
Tgt Ion:	57	Resp:	52095
Ion	Ratio	Lower	Upper
57	100		
41	100.9	76.6	114.8
43	274.8	207.8	311.8
56	61.1	43.6	65.4





#27
Carbon Disulfide
Concen: 2.047 ppbv
RT: 2.146 min Scan# 636
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

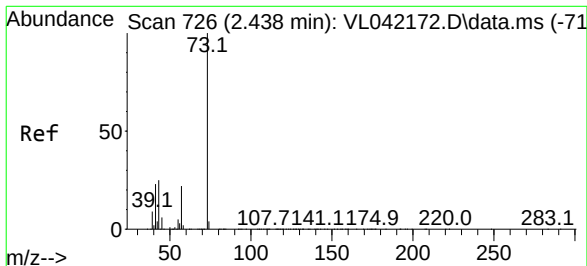
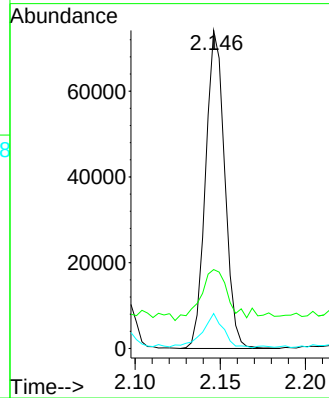
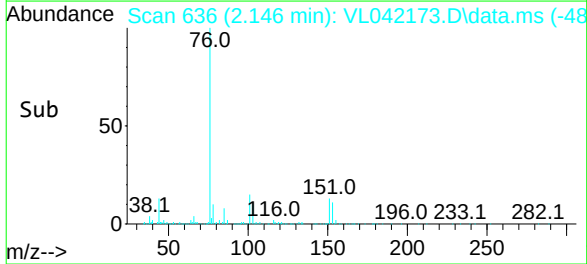
Instrument : MSVOA_L
ClientSampleId : VSTDICC002



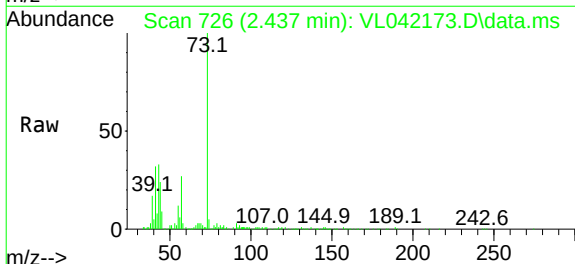
Tgt Ion: 76 Resp: 57969
Ion Ratio Lower Upper
76 100
44 35.2 14.7 22.1
78 12.0 9.3 13.9

Manual Integrations
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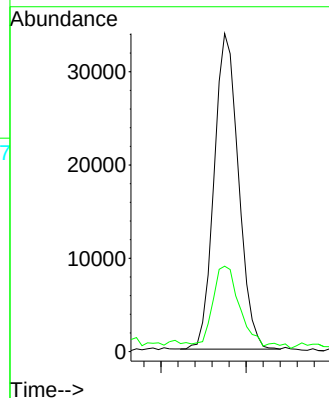
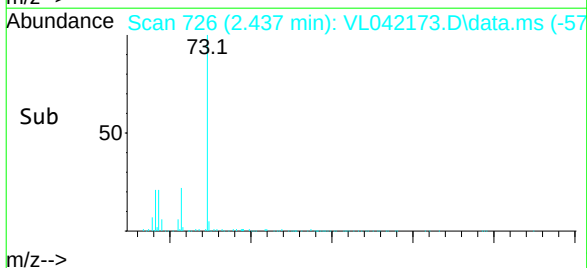
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

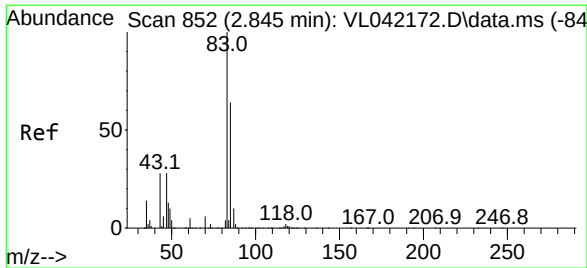


#28
Methyl tert-Butyl Ether
Concen: 2.049 ppbv
RT: 2.437 min Scan# 726
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59



Tgt Ion: 73 Resp: 33703
Ion Ratio Lower Upper
73 100
57 25.2 20.5 30.7





#29

Chloroform

Concen: 2.019 ppbv

RT: 2.845 min Scan# 85

Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tgt Ion: 83 Resp: 78043

Ion Ratio Lower Upper

83 100

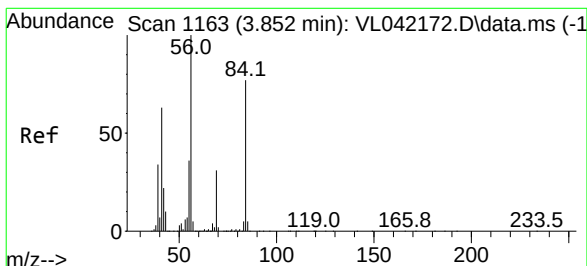
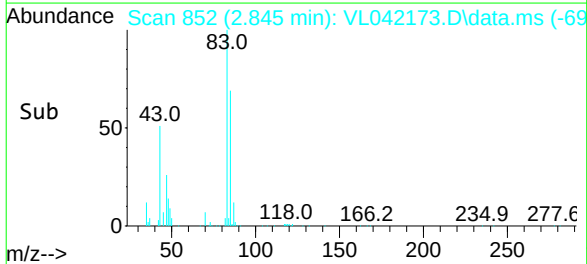
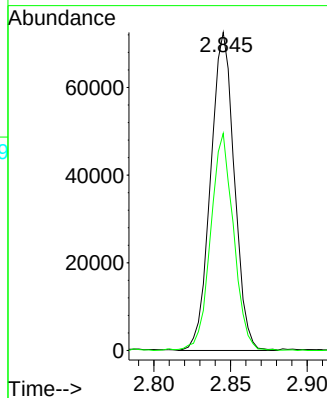
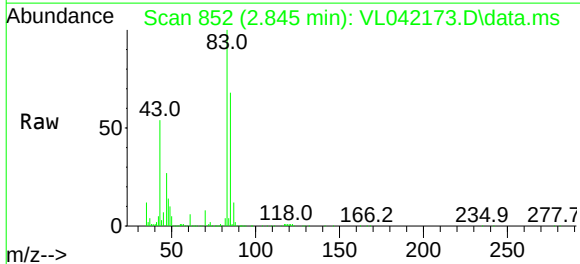
85 68.2 51.4 77.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025

Supervised By :Mahesh Dadoda 04/03/2025



#30

Cyclohexane

Concen: 1.989 ppbv

RT: 3.852 min Scan# 1163

Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

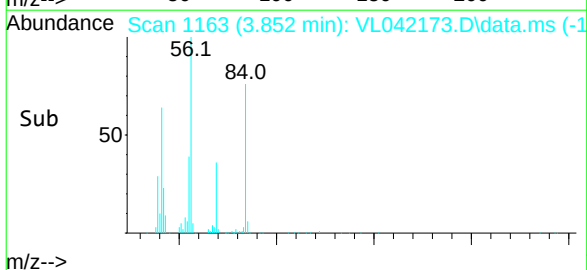
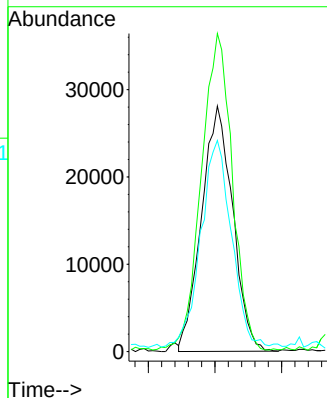
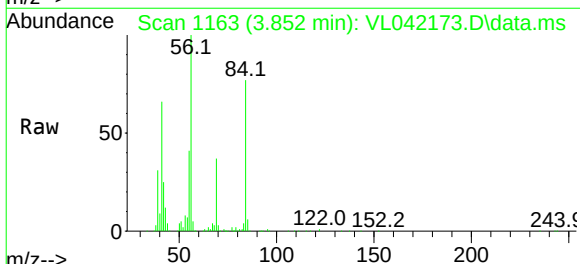
Tgt Ion: 84 Resp: 45641

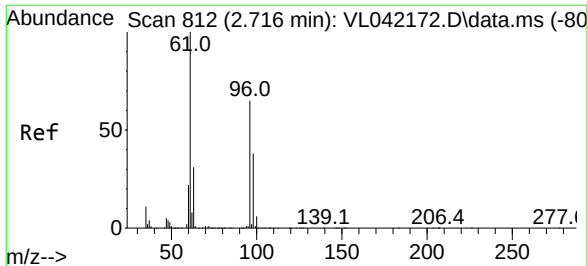
Ion Ratio Lower Upper

84 100

56 127.8 102.8 154.2

41 84.6 66.5 99.7





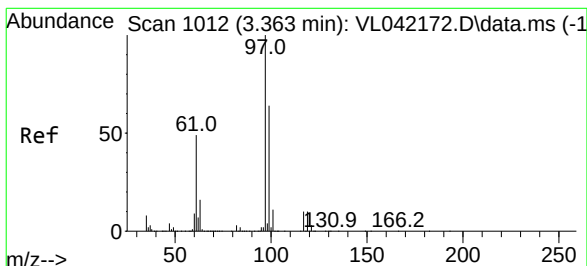
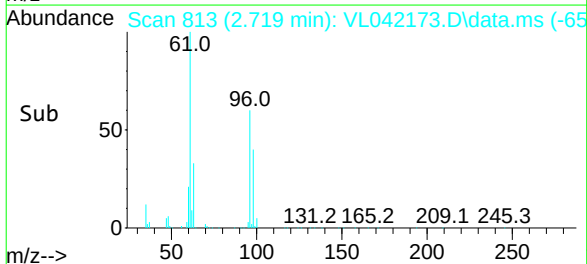
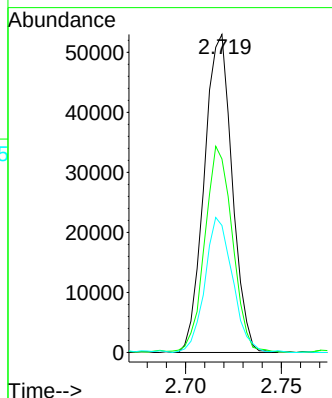
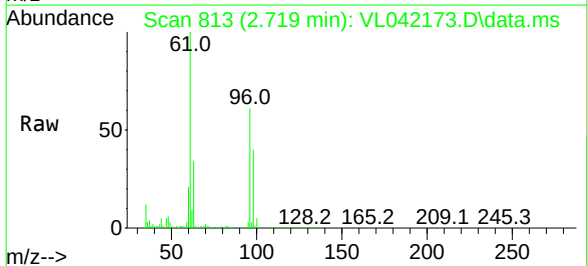
#31
 cis-1,2-Dichloroethene
 Concen: 2.003 ppbv
 RT: 2.719 min Scan# 812
 Delta R.T. 0.003 min
 Lab File: VL042173.D
 Acq: 27 Mar 2025 08:59

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Tgt Ion:	61	Resp:	53713
Ion	Ratio	Lower	Upper
61	100		
96	60.6	51.8	77.8
98	39.6	30.6	46.0

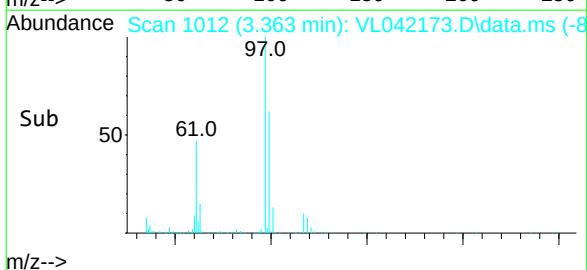
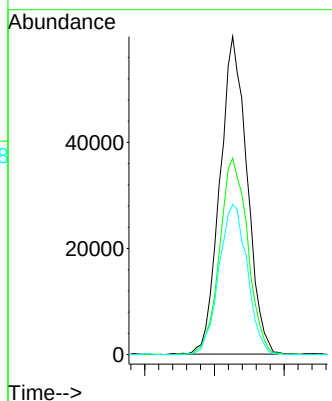
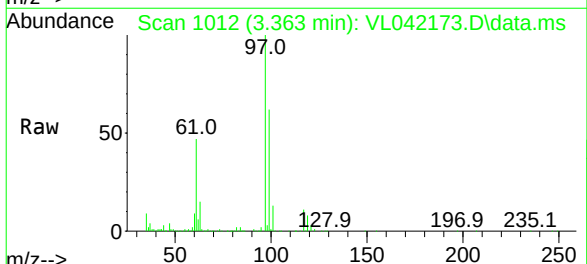
Manual Integrations
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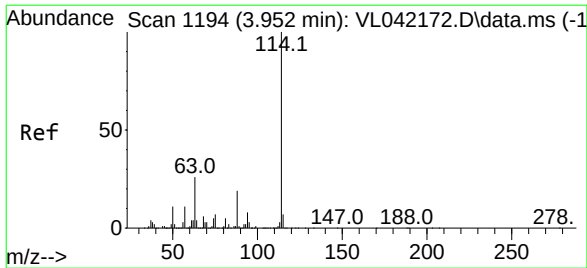
Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025



#32
 1,1,1-Trichloroethane
 Concen: 1.833 ppbv
 RT: 3.363 min Scan# 1012
 Delta R.T. -0.000 min
 Lab File: VL042173.D
 Acq: 27 Mar 2025 08:59

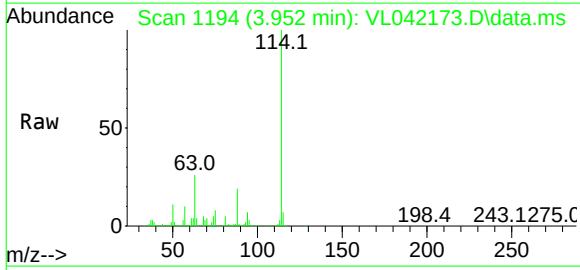
Tgt Ion:	97	Resp:	81070
Ion	Ratio	Lower	Upper
97	100		
99	63.9	51.5	77.3
61	49.3	38.7	58.1





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

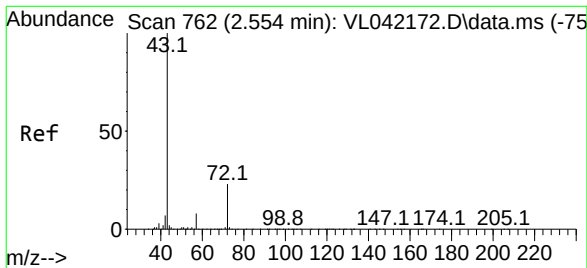
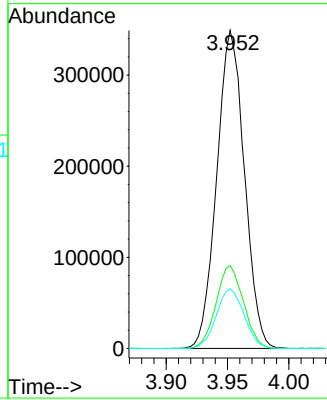
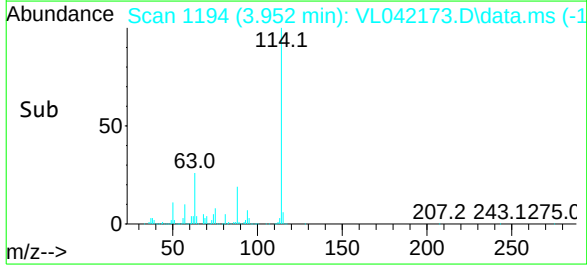
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



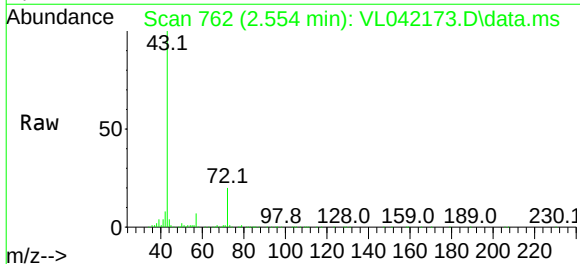
Tgt Ion: 114 Resp: 546394
Ion Ratio Lower Upper
114 100
63 25.9 20.7 31.1
88 18.9 15.0 22.4

Manual Integrations
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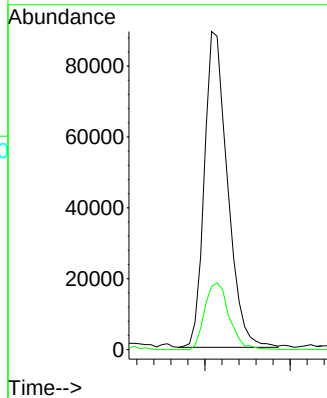
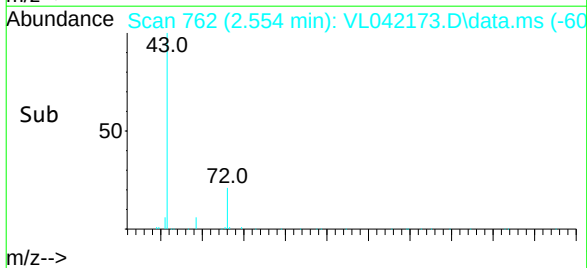
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

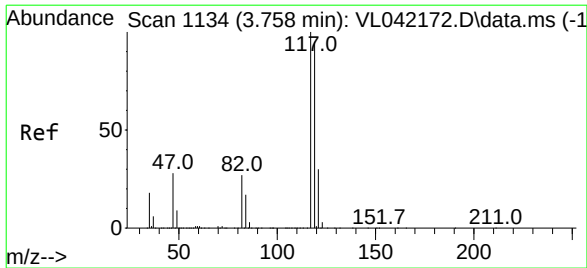


#34
2-Butanone
Concen: 2.124 ppbv
RT: 2.554 min Scan# 762
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59



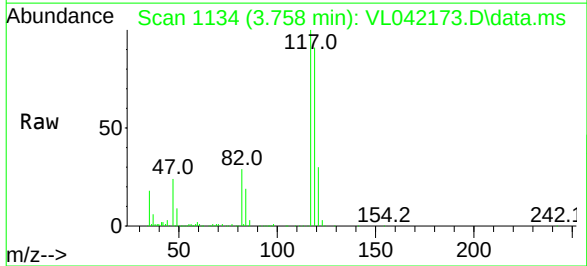
Tgt Ion: 43 Resp: 84157
Ion Ratio Lower Upper
43 100
72 22.4 18.2 27.2





#35
Carbon Tetrachloride
Concen: 1.944 ppbv
RT: 3.758 min Scan# 1117
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

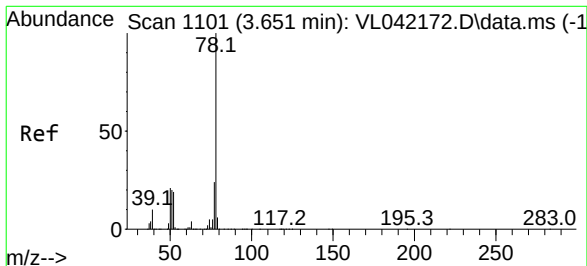
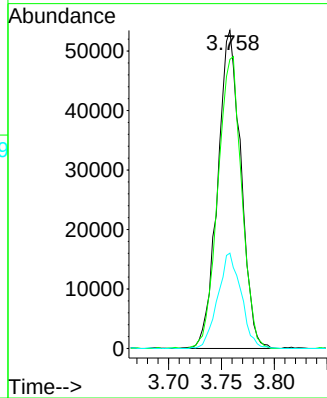
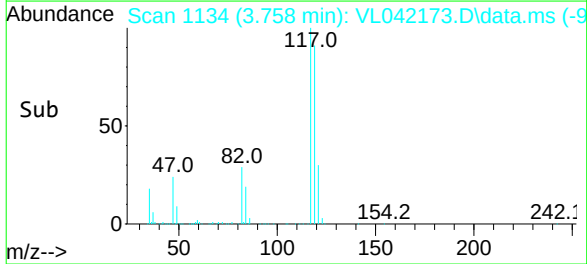
Instrument : MSVOA_L
ClientSampleId : VSTDIC002



Tgt Ion: 117 Resp: 81735
Ion Ratio Lower Upper
117 100
119 90.8 76.2 114.2
121 30.0 24.2 36.4

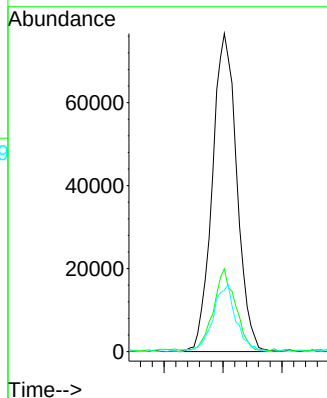
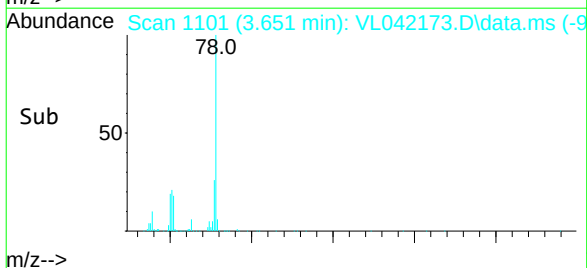
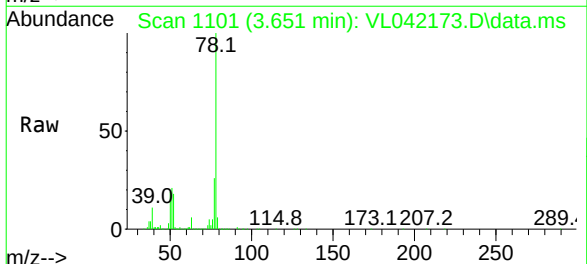
Manual Integrations
APPROVED

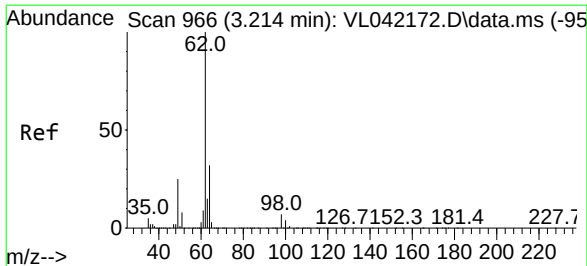
Reviewed By : Semsettin Yesilyurt 03/31/2025
Supervised By : Mahesh Dadoda 04/03/2025



#36
Benzene
Concen: 2.044 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 78 Resp: 110727
Ion Ratio Lower Upper
78 100
77 25.7 19.1 28.7
50 19.3 16.6 24.8





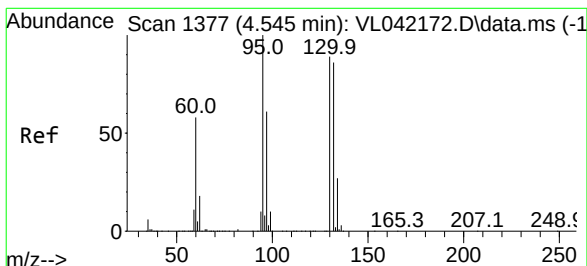
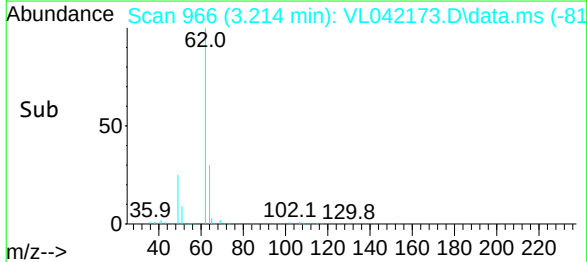
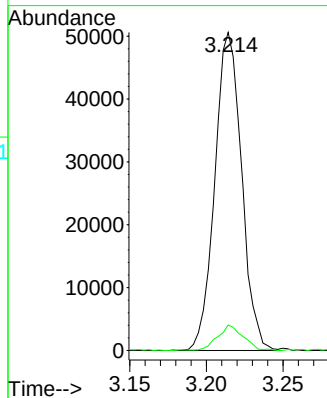
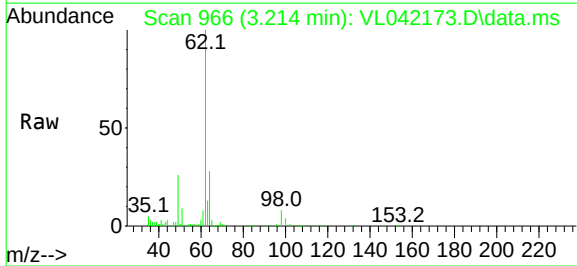
#37
1,2-Dichloroethane
Concen: 1.982 ppbv
RT: 3.214 min Scan# 96
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 62 Resp: 61476
Ion Ratio Lower Upper
62 100
98 7.7 5.4 8.2

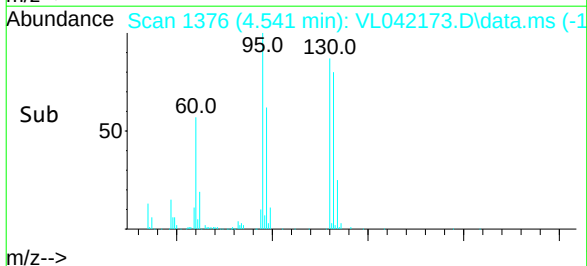
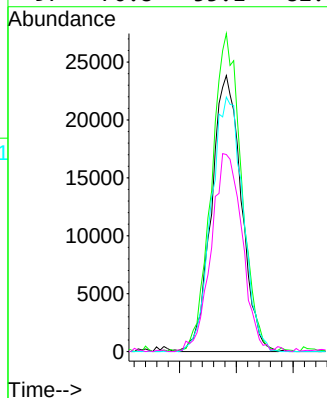
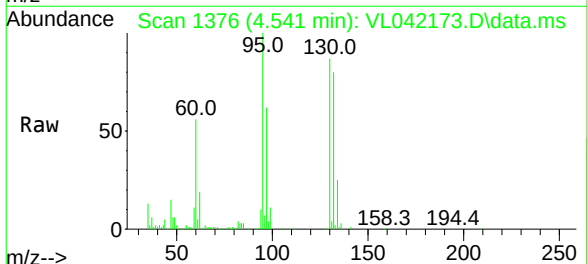
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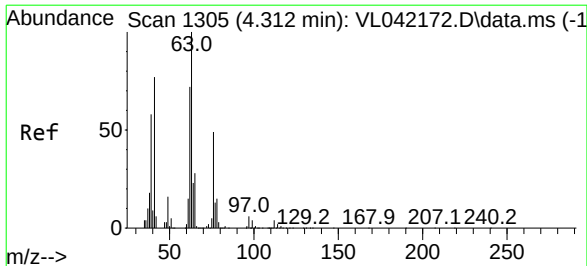
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#38
Trichloroethene
Concen: 1.924 ppbv
RT: 4.541 min Scan# 1376
Delta R.T. -0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion:130 Resp: 43501
Ion Ratio Lower Upper
130 100
95 114.8 89.8 134.8
132 92.2 77.4 116.2
97 70.8 55.1 82.7





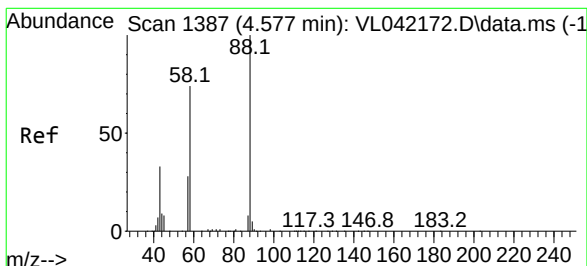
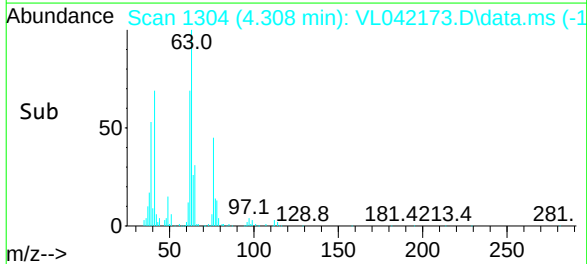
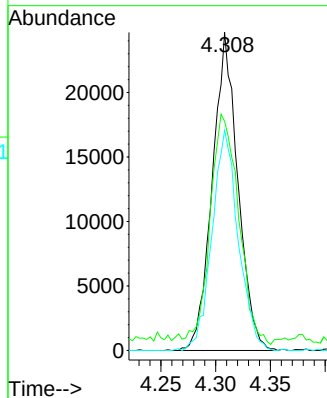
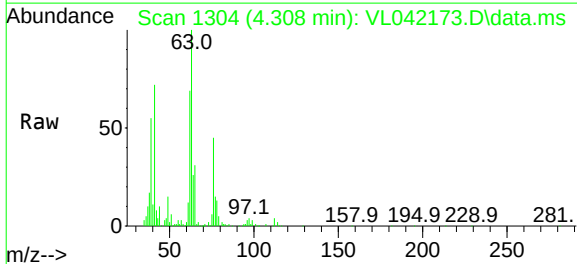
#39
1,2-Dichloropropane
Concen: 2.023 ppbv
RT: 4.308 min Scan# 1305
Delta R.T. -0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 63	Resp: 39912
Ion Ratio	Lower Upper
63 100	
41 68.6	61.7 92.5
62 69.2	57.6 86.4

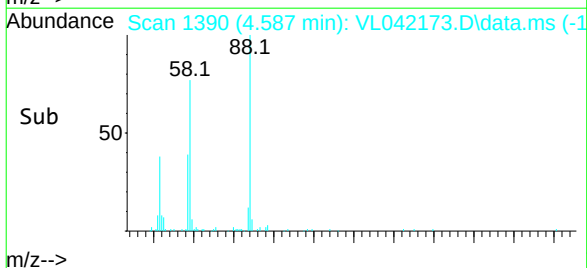
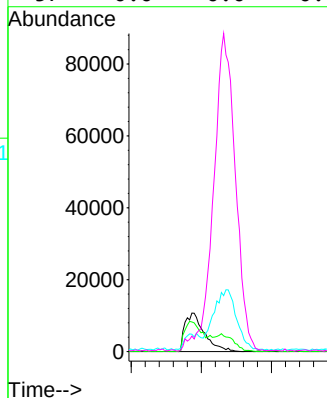
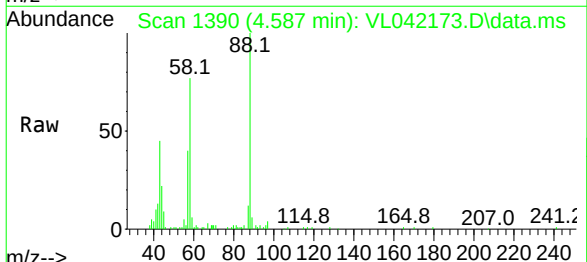
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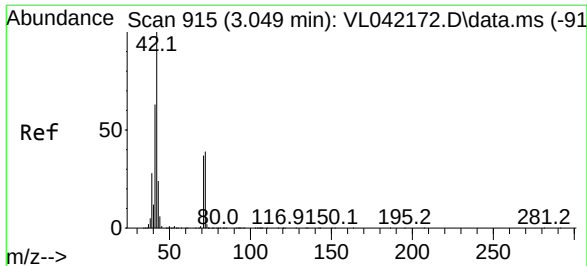
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#40
1,4-Dioxane
Concen: 2.040 ppbv m
RT: 4.587 min Scan# 1390
Delta R.T. 0.009 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 88	Resp: 20884
Ion Ratio	Lower Upper
88 100	
58 119.5	62.7 94.1#
43 0.0	23.0 34.4#
57 0.0	0.0 0.0





#41

Tetrahydrofuran

Concen: 2.097 ppbv

RT: 3.056 min Scan# 91

Delta R.T. 0.006 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Instrument :

MSVOA_L

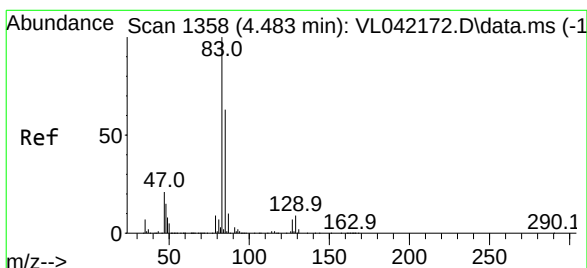
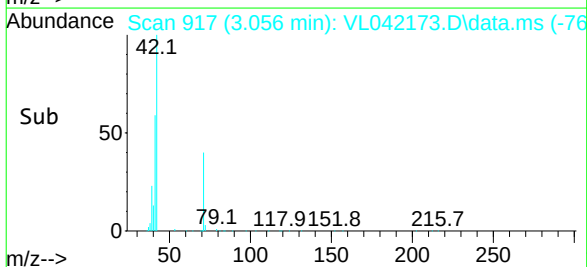
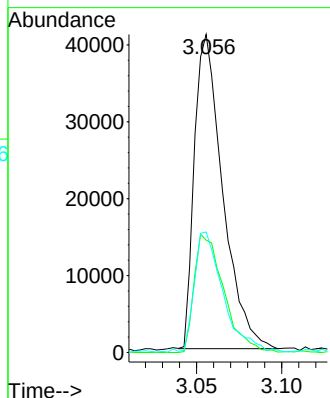
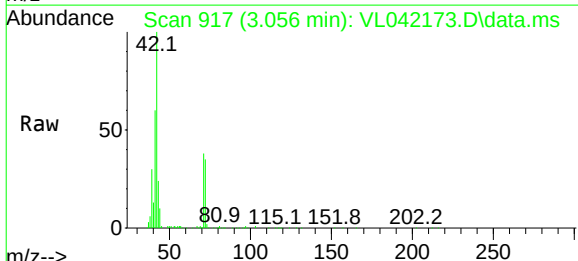
ClientSampleId :

VSTDICC002

Tgt Ion:	42	Resp:	47262
Ion	Ratio	Lower	Upper
42	100		
72	39.6	31.4	47.0
71	39.0	30.2	45.4

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Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#42

Bromodichloromethane

Concen: 2.050 ppbv

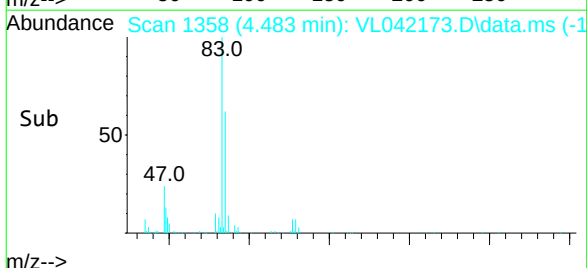
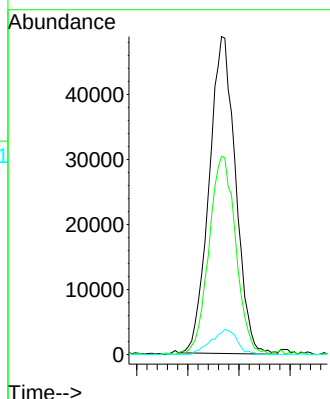
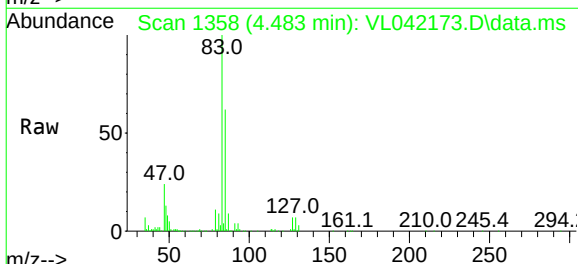
RT: 4.483 min Scan# 1358

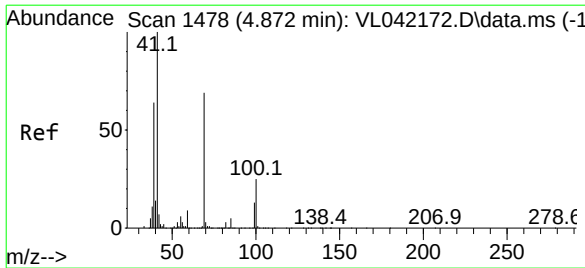
Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Tgt Ion:	83	Resp:	87640
Ion	Ratio	Lower	Upper
83	100		
85	62.2	50.5	75.7
127	6.9	5.9	8.9





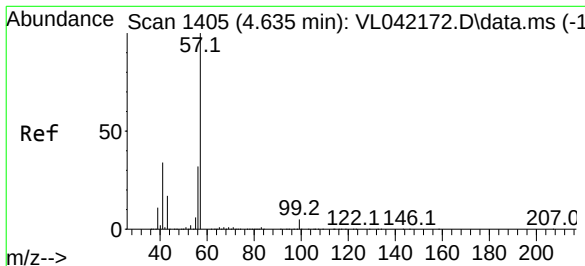
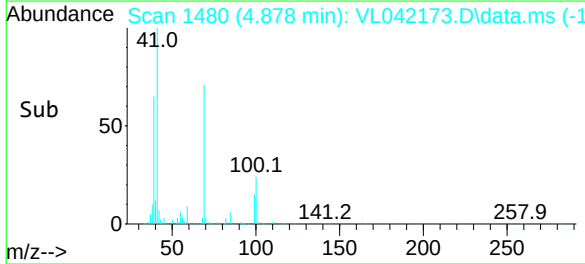
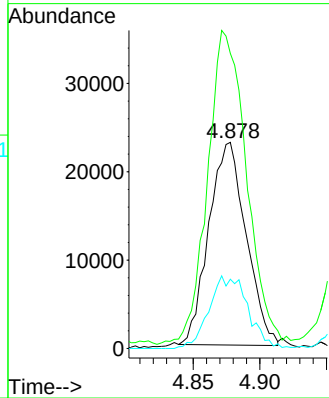
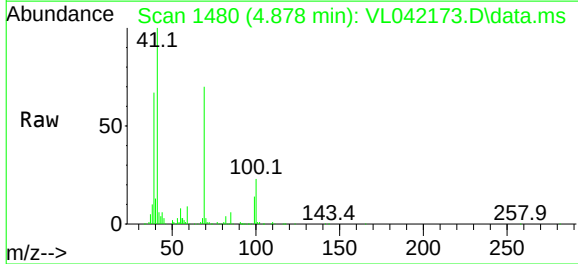
#43
Methyl Methacrylate
Concen: 1.952 ppbv
RT: 4.878 min Scan# 1478
Delta R.T. 0.006 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Instrument :
MSVOA_1
ClientSampleId :
VSTDICC002

Tgt Ion: 69 Resp: 44624
Ion Ratio Lower Upper
69 100
41 158.7 123.8 185.6
100 37.5 28.4 42.6

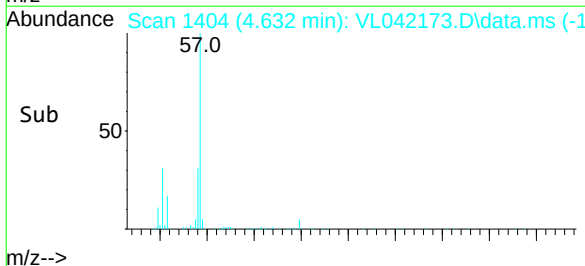
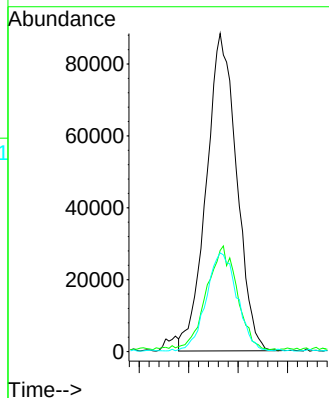
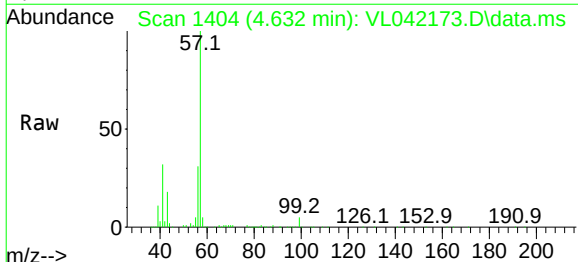
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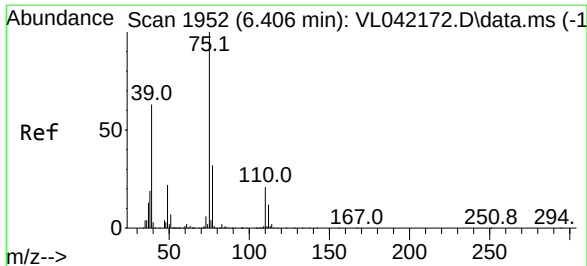
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#44
2,2,4-Trimethylpentane
Concen: 2.057 ppbv
RT: 4.632 min Scan# 1404
Delta R.T. -0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 57 Resp: 188282
Ion Ratio Lower Upper
57 100
41 33.8 26.8 40.2
56 31.8 25.6 38.4





#45

t-1,3-Dichloropropene

Concen: 2.011 ppbv

RT: 6.406 min Scan# 1952

Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

Tgt Ion: 75 Resp: 49461

Ion Ratio Lower Upper

75 100

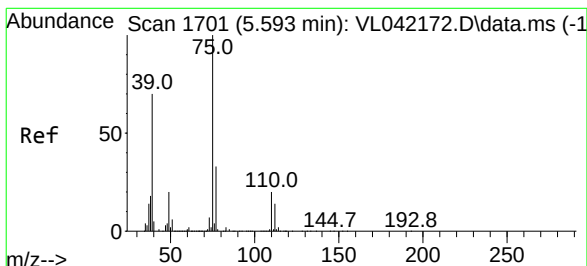
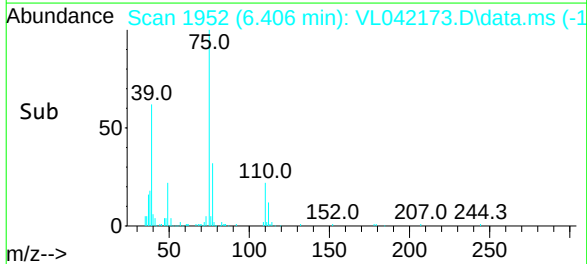
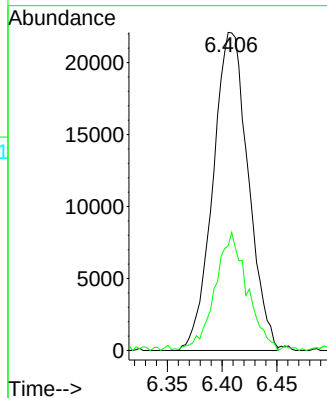
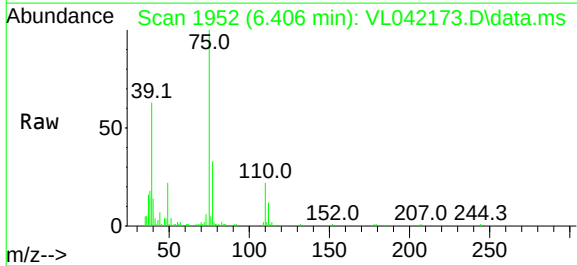
77 32.9 26.0 39.0

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 03/31/2025

Supervised By :Mahesh Dadoda 04/03/2025



#46

cis-1,3-Dichloropropene

Concen: 2.050 ppbv

RT: 5.593 min Scan# 1701

Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

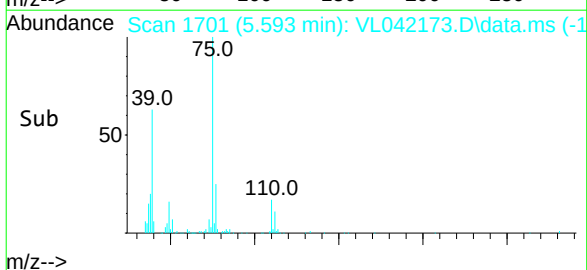
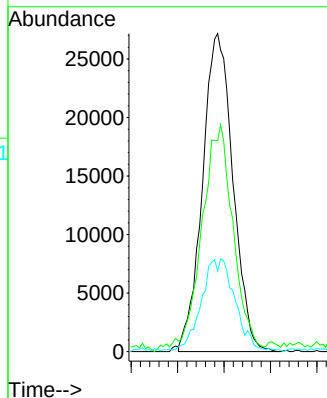
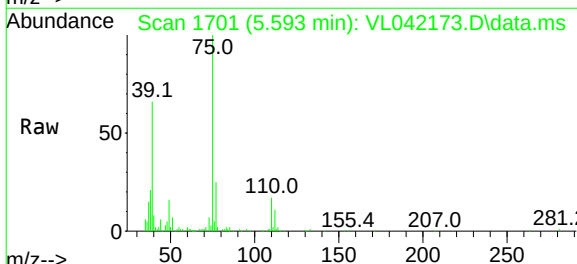
Tgt Ion: 75 Resp: 61829

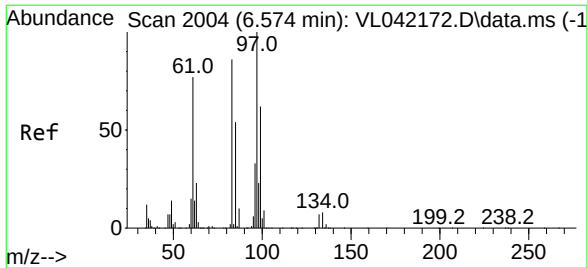
Ion Ratio Lower Upper

75 100

39 64.4 55.8 83.6

77 24.5 26.0 39.0#





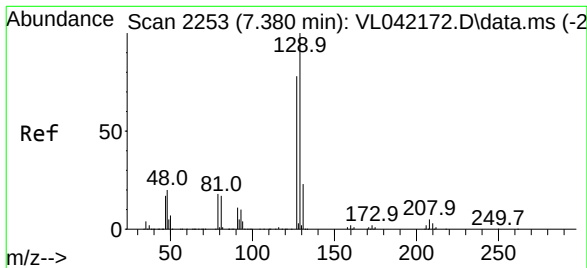
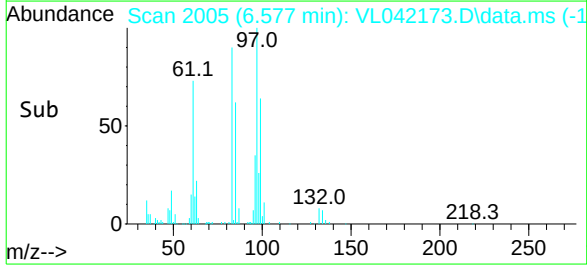
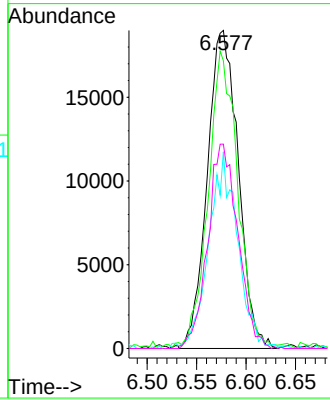
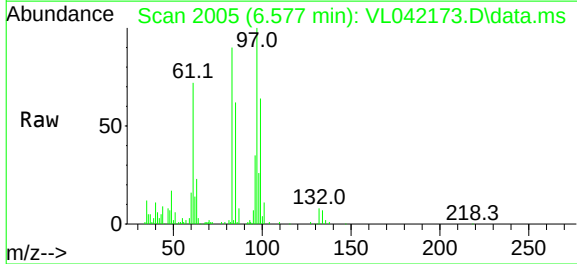
#47
1,1,2-Trichloroethane
Concen: 1.985 ppbv
RT: 6.577 min Scan# 2005
Delta R.T. 0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:	97	Resp:	41387
Ion	Ratio	Lower	Upper
97	100		
83	89.4	69.2	103.8
85	61.3	43.1	64.7
99	64.2	49.4	74.2

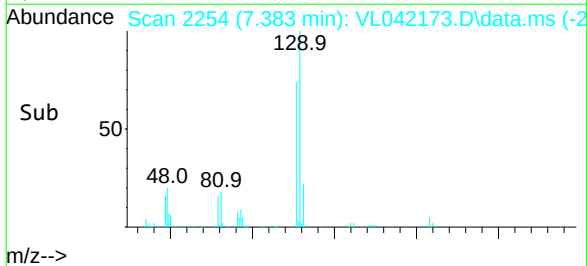
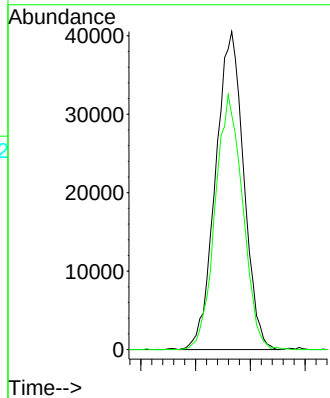
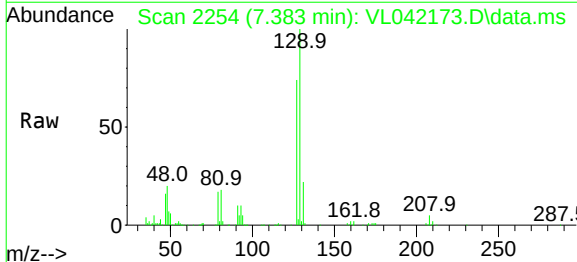
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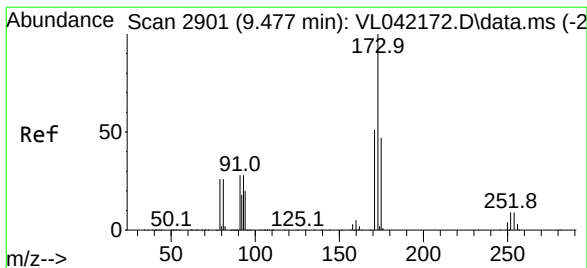
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#48
Dibromochloromethane
Concen: 2.050 ppbv
RT: 7.383 min Scan# 2254
Delta R.T. 0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion:	129	Resp:	72441
Ion	Ratio	Lower	Upper
129	100		
127	78.5	39.1	117.2





#49

Bromoform

Concen: 2.056 ppbv

RT: 9.477 min Scan# 2901

Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Instrument :

MSVOA_L

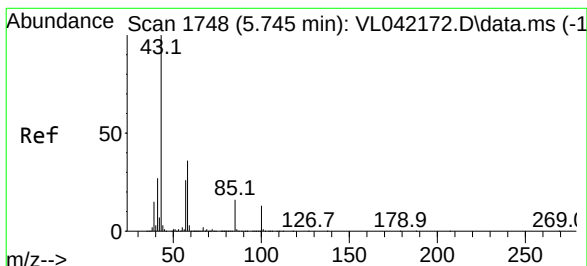
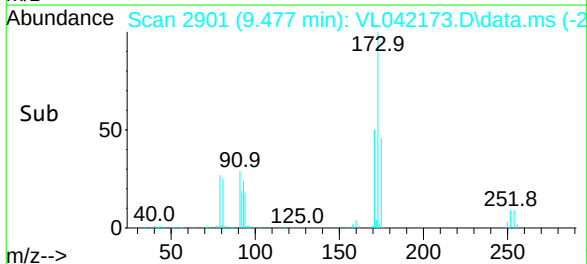
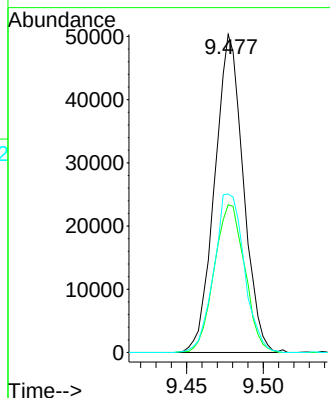
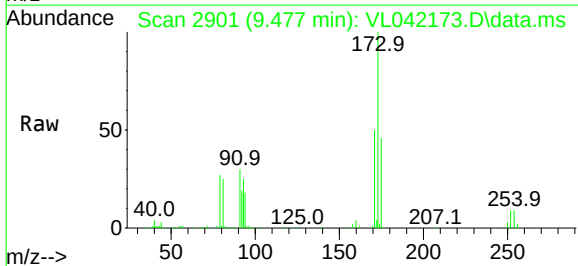
ClientSampleId :

VSTDICC002

Tgt Ion:	173	Resp:	65221
Ion Ratio	Lower	Upper	
173	100		
175	49.7	38.6	57.8
171	53.0	41.8	62.6

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Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#50

4-Methyl-2-Pentanone

Concen: 2.107 ppbv

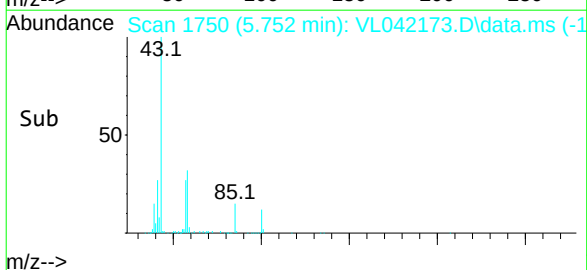
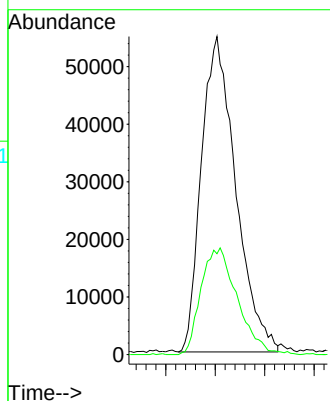
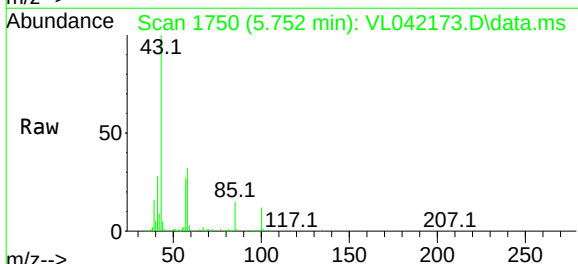
RT: 5.752 min Scan# 1750

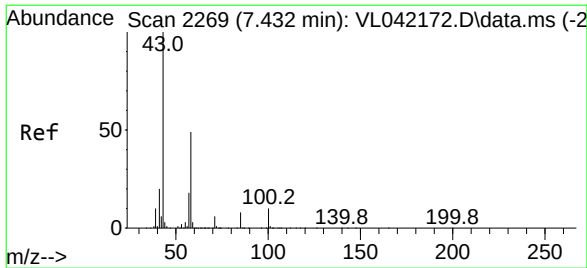
Delta R.T. 0.006 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Tgt Ion:	43	Resp:	132328
Ion Ratio	Lower	Upper	
43	100		
58	35.9	29.0	43.6





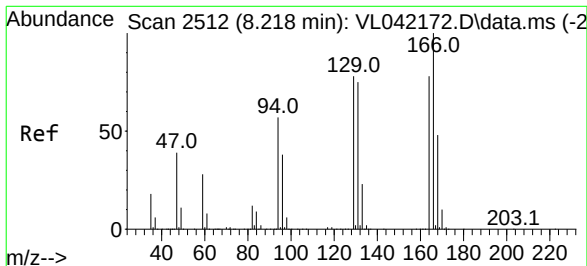
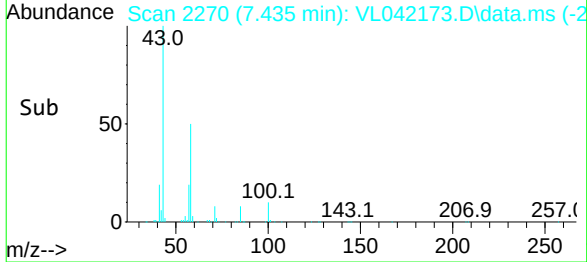
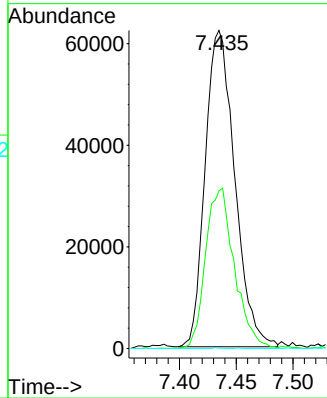
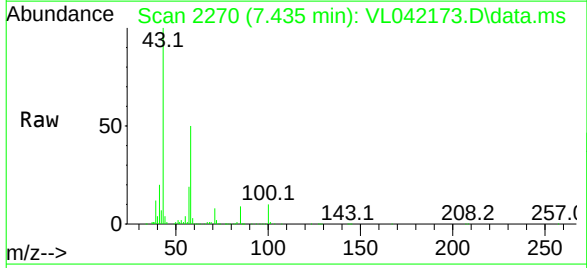
#51
2-Hexanone
Concen: 2.162 ppbv
RT: 7.435 min Scan# 2269
Delta R.T. 0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion: 43 Resp: 112681
Ion Ratio Lower Upper
43 100
58 50.0 39.7 59.5
98 0.0 0.1 0.1

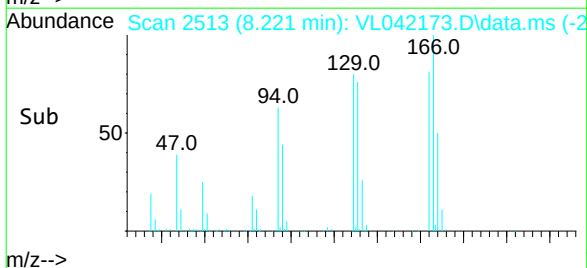
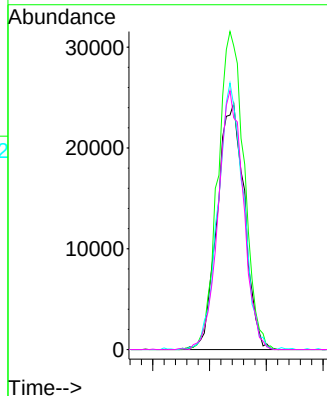
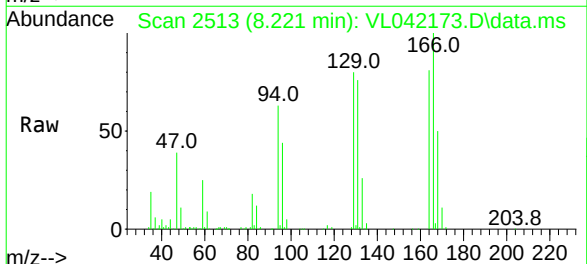
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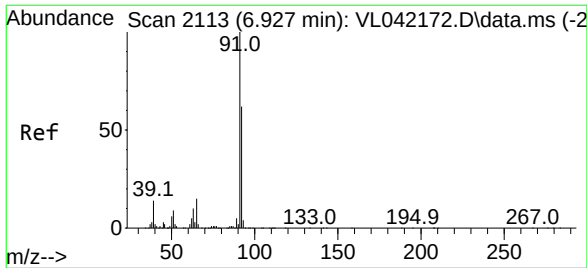
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#52
Tetrachloroethene
Concen: 1.888 ppbv
RT: 8.221 min Scan# 2513
Delta R.T. 0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion:164 Resp: 40558
Ion Ratio Lower Upper
164 100
166 123.4 102.5 153.7
129 99.2 79.8 119.8
131 94.1 76.6 114.8





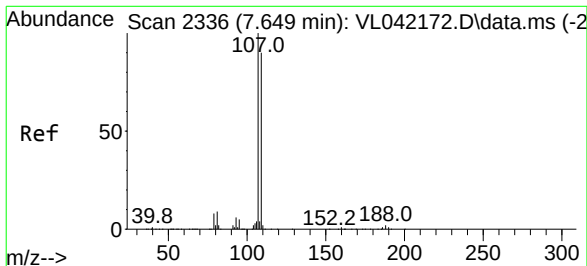
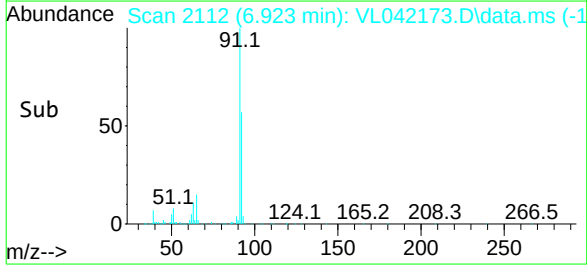
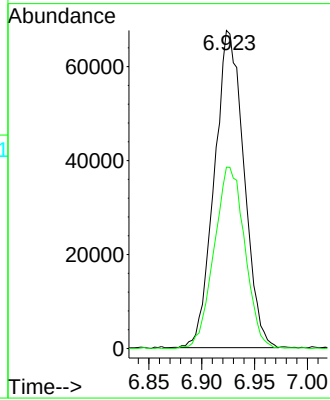
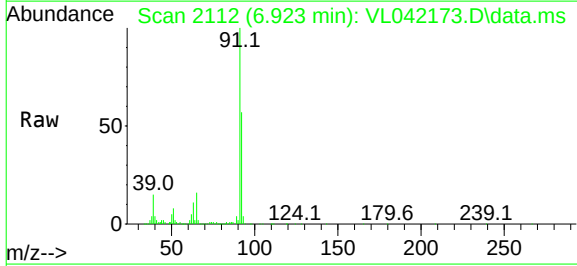
#53
Toluene
Concen: 2.045 ppbv
RT: 6.923 min Scan# 2113
Delta R.T. -0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion: 91 Resp: 131314
Ion Ratio Lower Upper
91 100
92 59.6 48.4 72.6

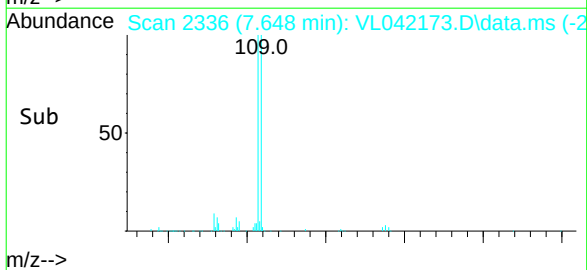
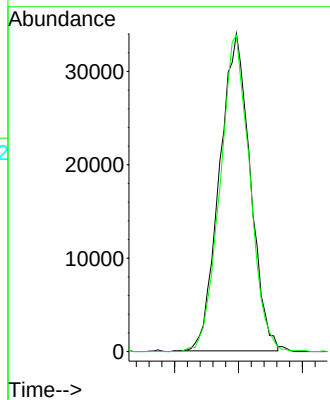
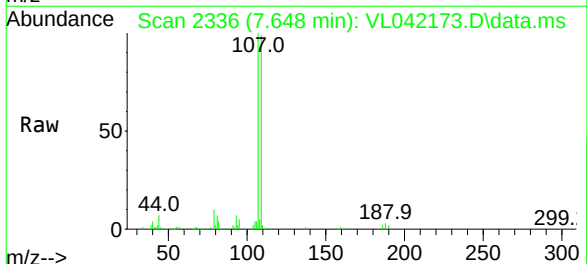
Manual Integrations
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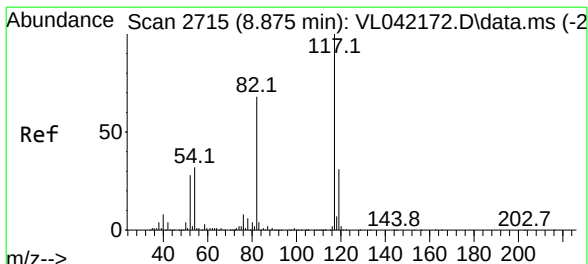
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#54
1,2-Dibromoethane
Concen: 1.952 ppbv
RT: 7.648 min Scan# 2336
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

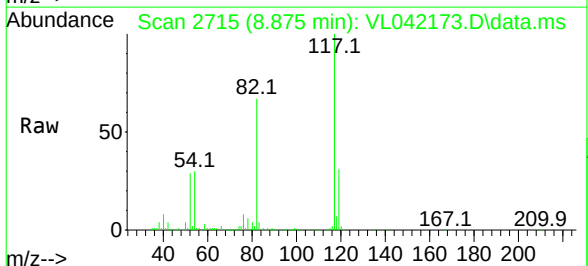
Tgt Ion:107 Resp: 56799
Ion Ratio Lower Upper
107 100
109 99.7 72.2 108.4





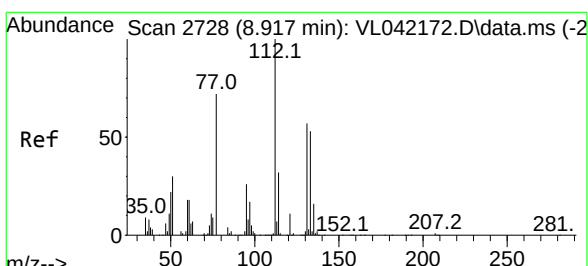
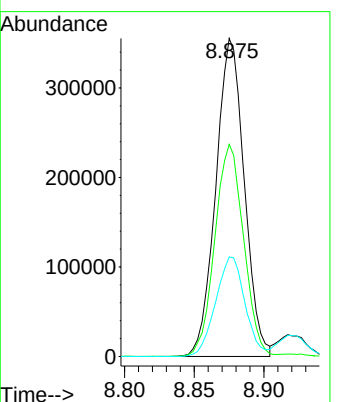
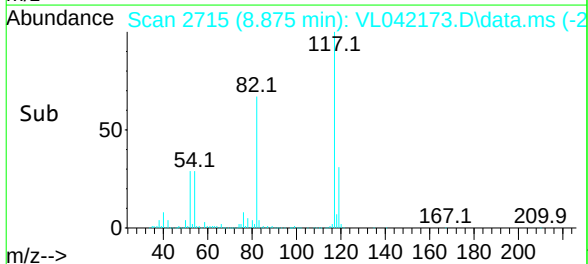
#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 8.875 min Scan# 2715
 Delta R.T. -0.000 min
 Lab File: VL042173.D
 Acq: 27 Mar 2025 08:59

Instrument : MSVOA_L
 ClientSampleId : VSTDICC002

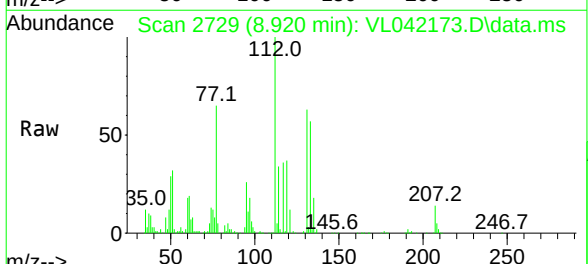


Tgt Ion:	117	Resp:	504538
Ion	Ratio	Lower	Upper
117	100		
82	68.2	55.8	83.6
119	33.0	25.5	38.3

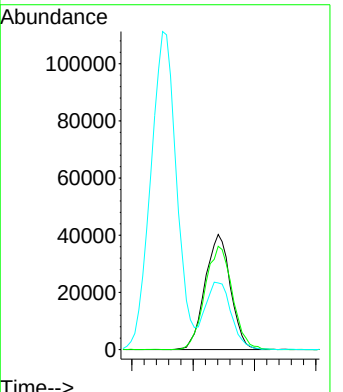
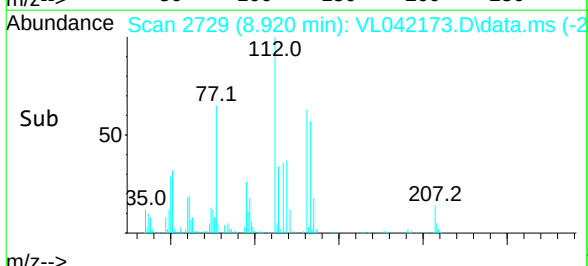
Manual Integrations
APPROVED
 Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025

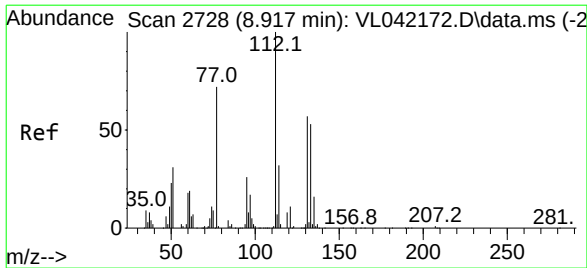


#56
 1,1,1,2-Tetrachloroethane
 Concen: 2.093 ppbv
 RT: 8.920 min Scan# 2729
 Delta R.T. 0.003 min
 Lab File: VL042173.D
 Acq: 27 Mar 2025 08:59



Tgt Ion:	131	Resp:	58141
Ion	Ratio	Lower	Upper
131	100		
133	96.6	76.6	114.8
119	58.3	49.8	74.6





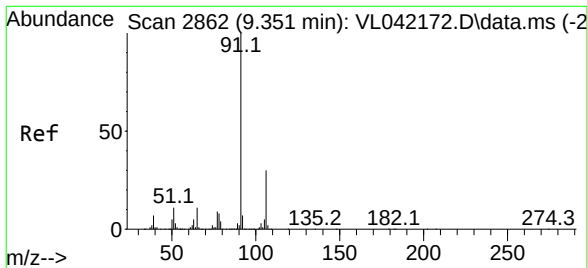
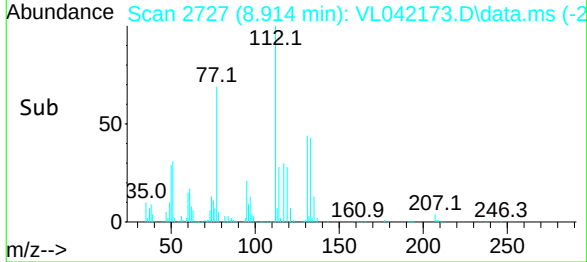
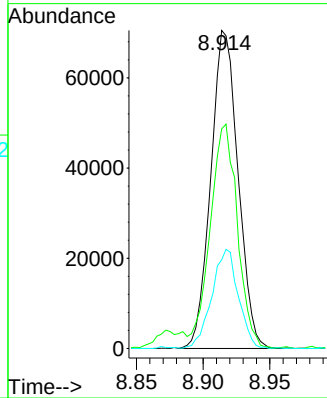
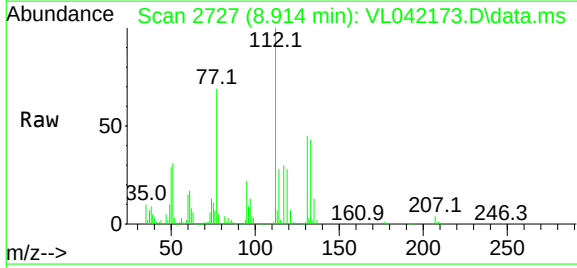
#57
Chlorobenzene
Concen: 2.096 ppbv
RT: 8.914 min Scan# 2728
Delta R.T. -0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 112 Resp: 100308
Ion Ratio Lower Upper
112 100
77 68.8 58.2 87.2
114 27.8 29.1 35.5#

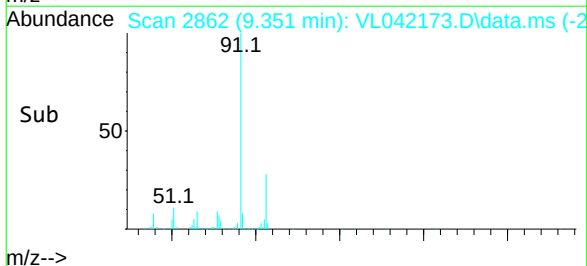
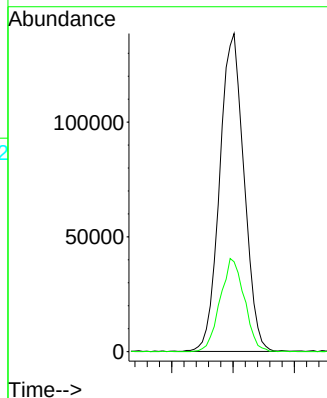
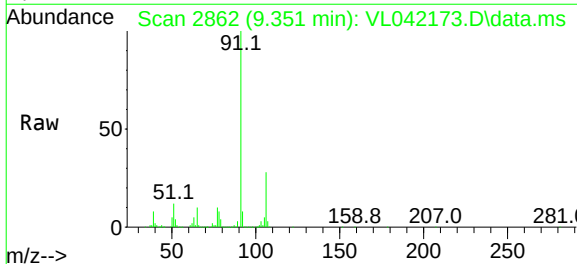
Manual Integrations
APPROVED

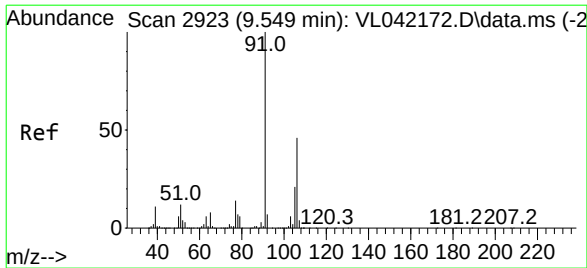
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#58
Ethyl Benzene
Concen: 2.132 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

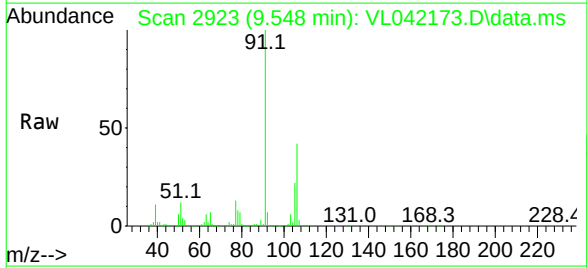
Tgt Ion: 91 Resp: 191114
Ion Ratio Lower Upper
91 100
106 28.3 24.2 36.2





#59
m/p-Xylene
Concen: 4.181 ppbv m
RT: 9.548 min Scan# 29
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

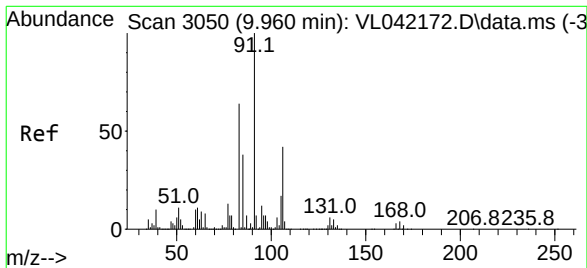
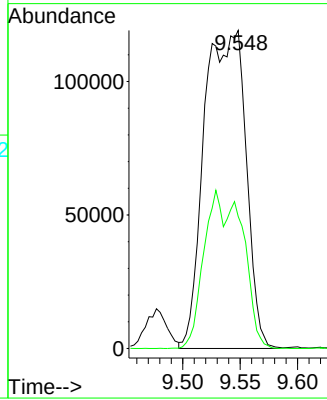
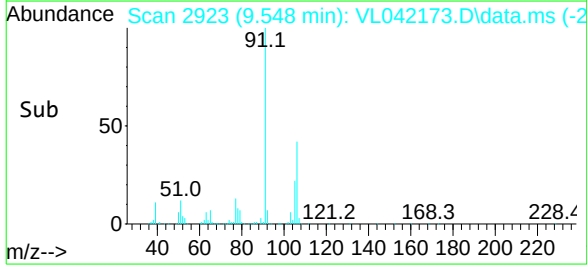
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



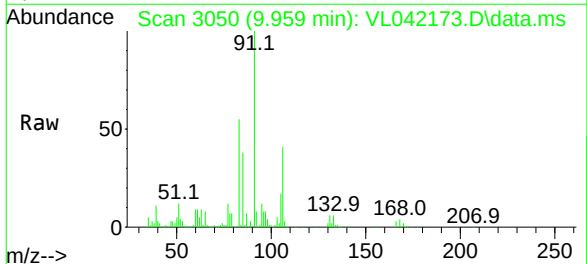
Tgt Ion: 91 Resp: 299531
Ion Ratio Lower Upper
91 100
106 0.0 36.4 54.6

Manual Integrations
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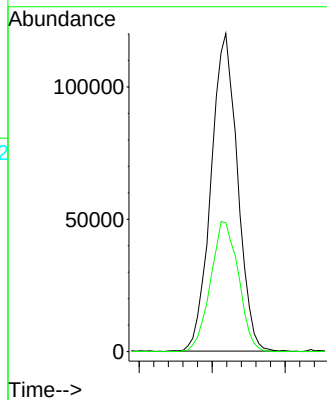
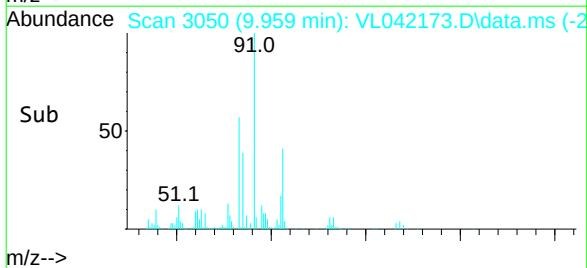
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

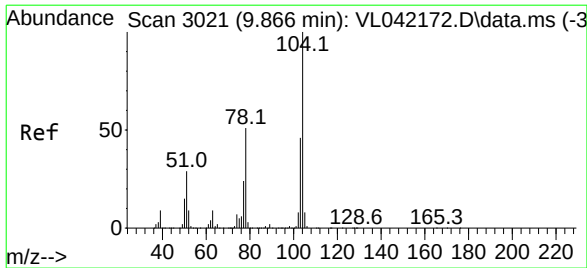


#60
o-Xylene
Concen: 2.109 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59



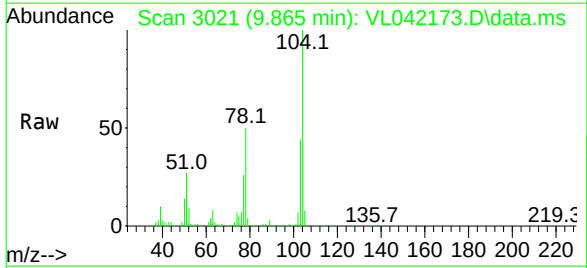
Tgt Ion: 91 Resp: 151292
Ion Ratio Lower Upper
91 100
106 43.2 20.8 62.5





#61
Styrene
Concen: 2.089 ppbv
RT: 9.865 min Scan# 3021
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

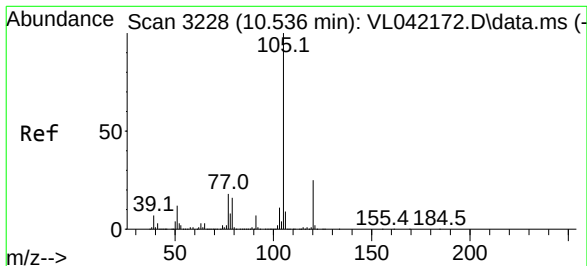
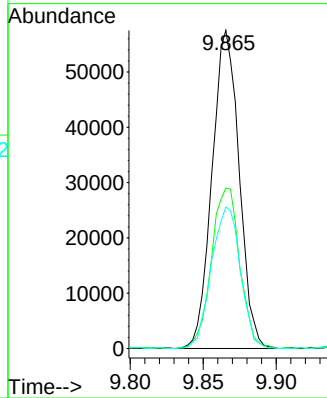
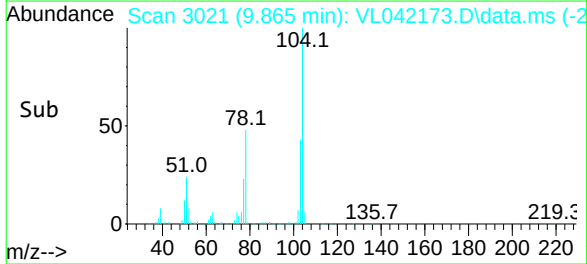
Instrument : MSVOA_L
ClientSampleId : VSTDICC002



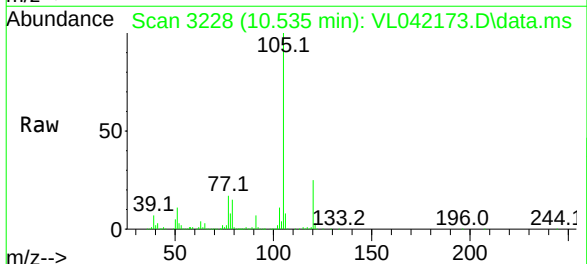
Tgt Ion:104 Resp: 74134
Ion Ratio Lower Upper
104 100
78 52.8 41.8 62.6
103 47.8 37.0 55.4

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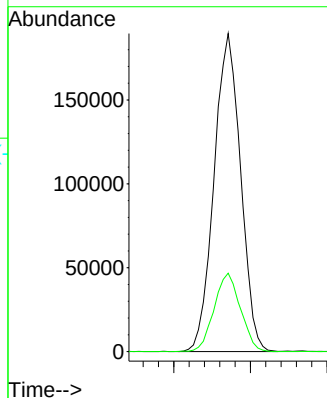
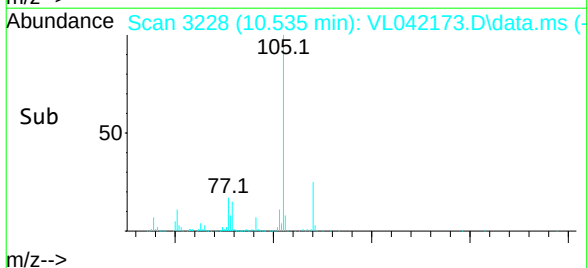
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

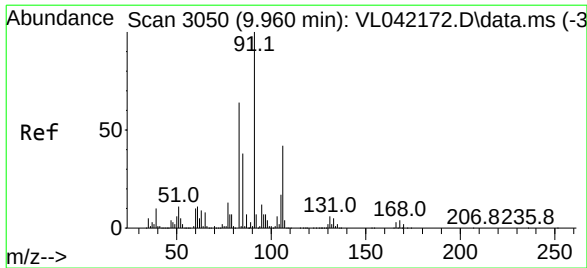


#62
Isopropylbenzene
Concen: 2.127 ppbv
RT: 10.535 min Scan# 3228
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59



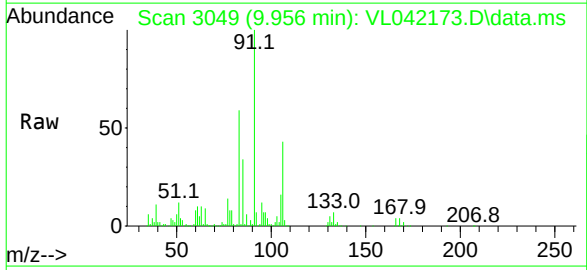
Tgt Ion:105 Resp: 228191
Ion Ratio Lower Upper
105 100
120 24.4 19.9 29.9





#63
1,1,2,2-Tetrachloroethane
Concen: 2.067 ppbv
RT: 9.956 min Scan# 3050
Delta R.T. -0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

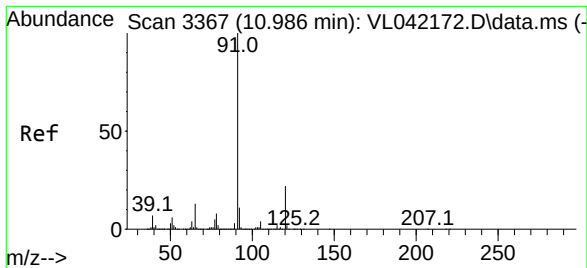
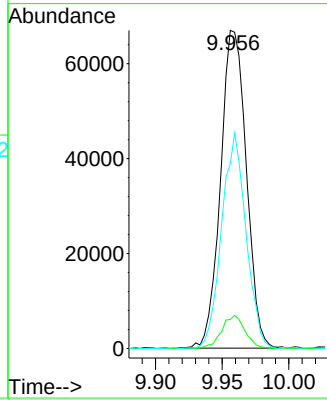
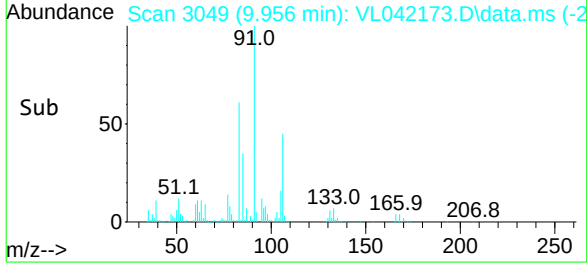
Instrument : MSVOA_L
ClientSampleId : VSTDICC002



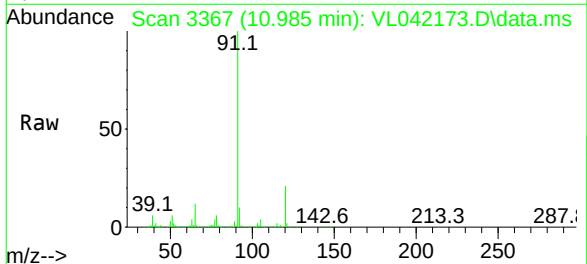
Tgt Ion: 83 Resp: 90114
Ion Ratio Lower Upper
83 100
131 9.5 4.8 14.4
85 64.4 32.5 97.5

Manual Integrations
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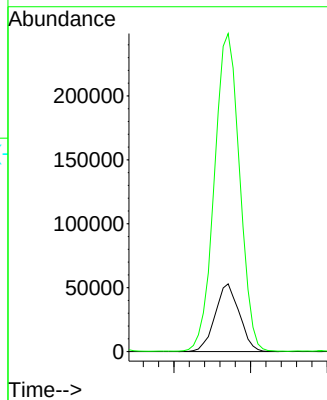
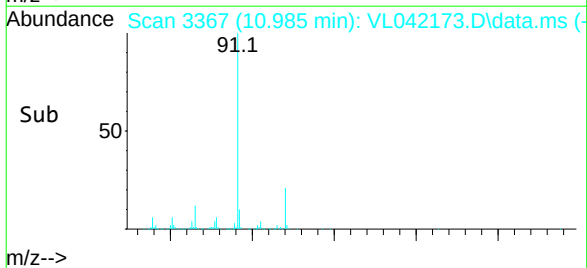
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

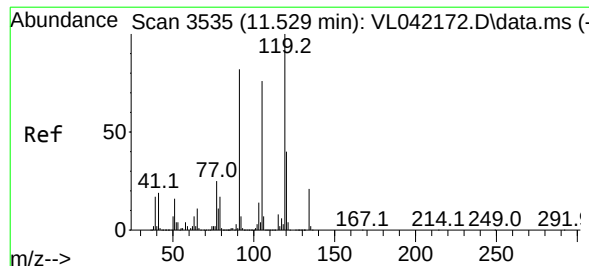


#64
n-propylbenzene
Concen: 2.104 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59



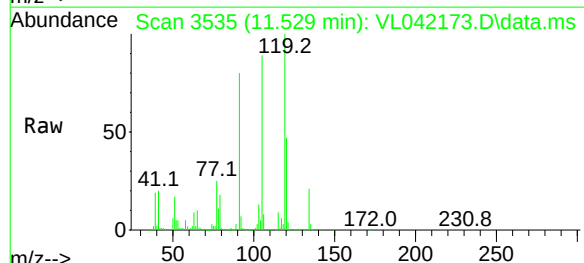
Tgt Ion:120 Resp: 58105
Ion Ratio Lower Upper
120 100
91 491.1 376.9 565.3





#65
tert-Butylbenzene
Concen: 2.180 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

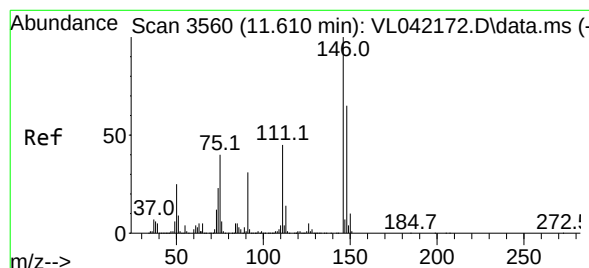
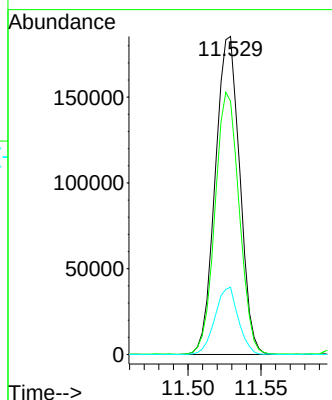
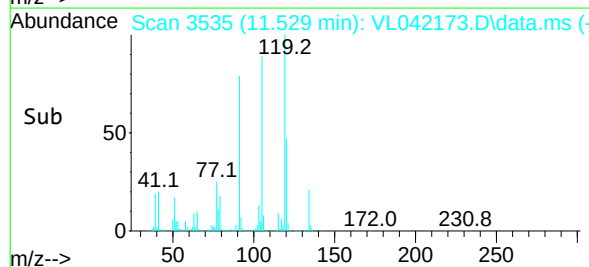
Instrument : MSVOA_L
ClientSampleId : VSTDIC002



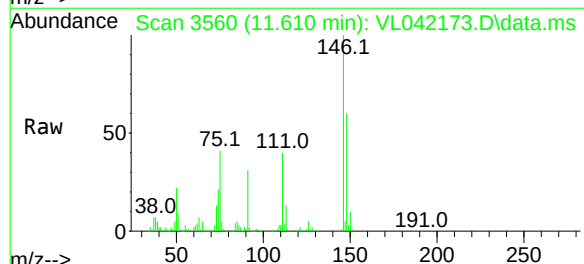
Tgt Ion: 119 Resp: 216336
Ion Ratio Lower Upper
119 100
91 81.5 66.0 99.0
134 20.2 16.7 25.1

Manual Integrations
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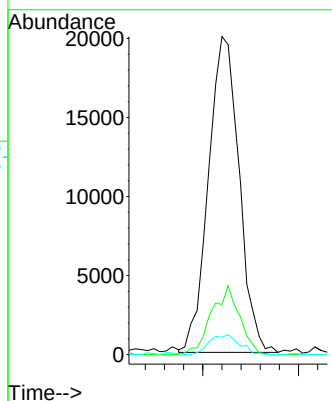
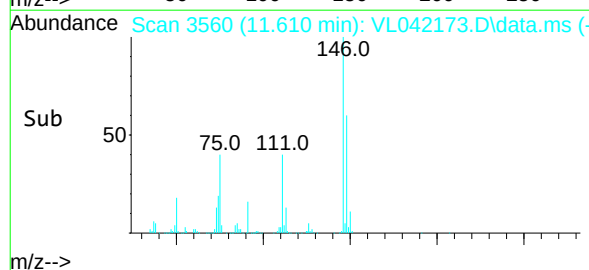
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

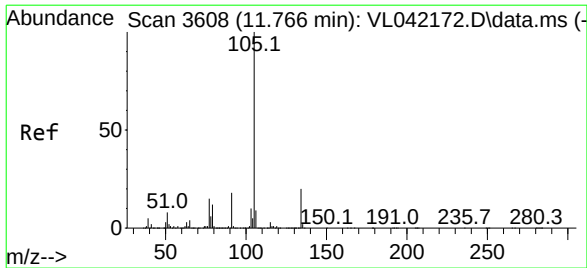


#66
Benzyl Chloride
Concen: 2.116 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59



Tgt Ion: 91 Resp: 22272
Ion Ratio Lower Upper
91 100
126 20.0 13.8 20.6
128 6.5 4.5 6.7





#67

sec-Butylbenzene

Concen: 2.156 ppbv

RT: 11.762 min Scan# 3608

Delta R.T. -0.003 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tgt Ion: 105 Resp: 297381

Ion Ratio Lower Upper

105 100

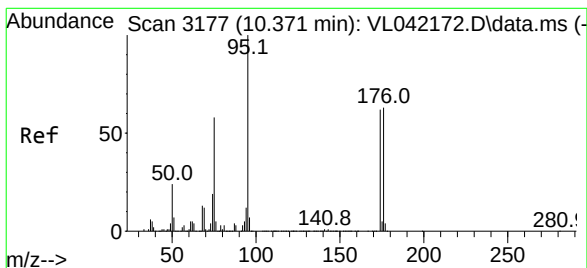
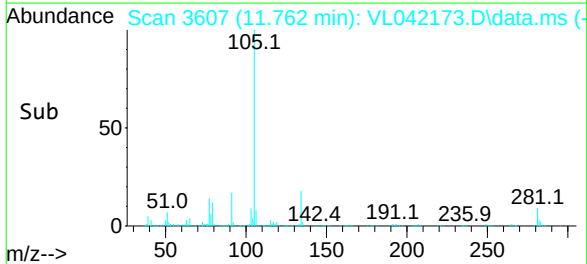
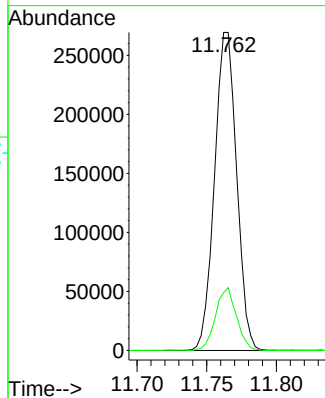
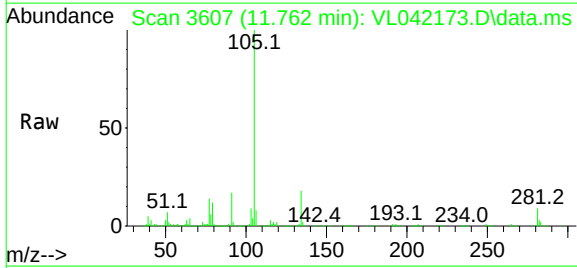
134 18.8 15.5 23.3

Manual Integrations

APPROVED

Reviewed By : Semsettin Yesilyurt 03/31/2025

Supervised By : Mahesh Dadoda 04/03/2025



#68

1-Bromo-4-Fluorobenzene

Concen: 10.077 ppbv

RT: 10.370 min Scan# 3177

Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

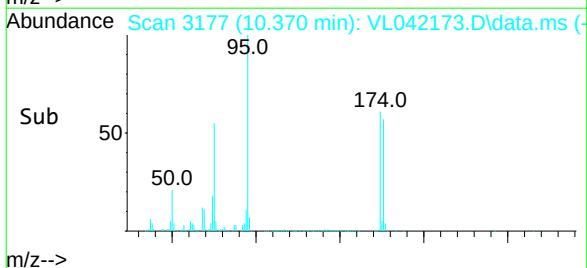
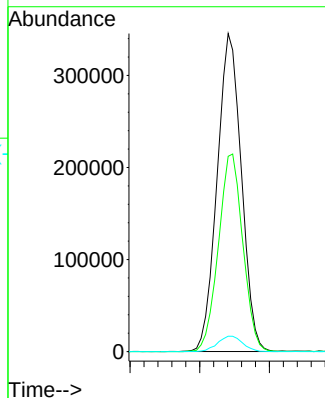
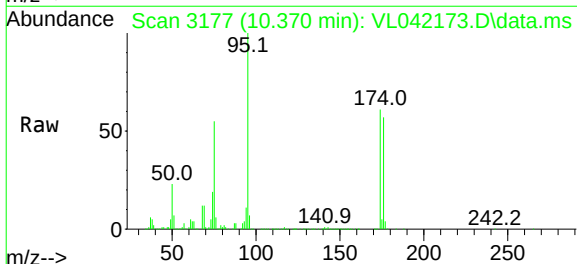
Tgt Ion: 95 Resp: 417532

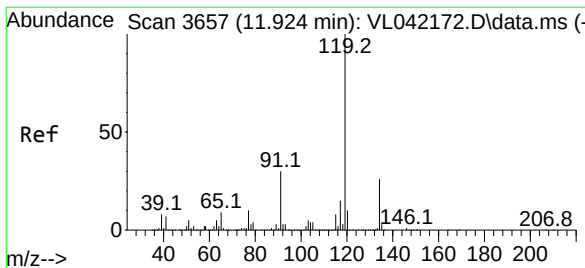
Ion Ratio Lower Upper

95 100

174 62.6 50.6 76.0

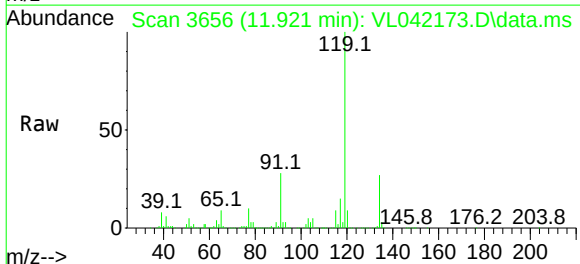
175 5.0 3.8 5.6





#69
p-Isopropyltoluene
Concen: 2.176 ppbv
RT: 11.921 min Scan# 3657
Delta R.T. -0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

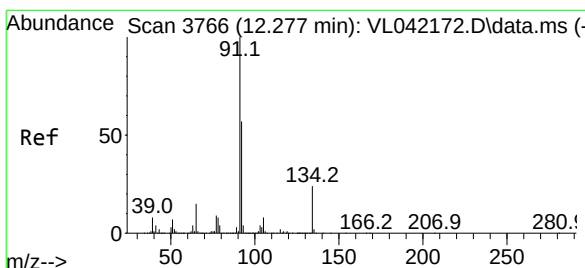
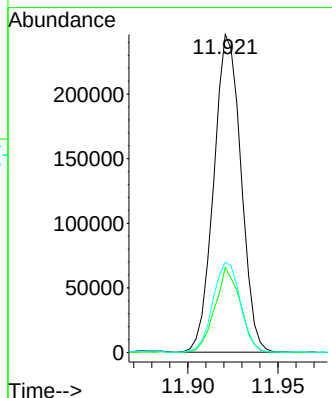
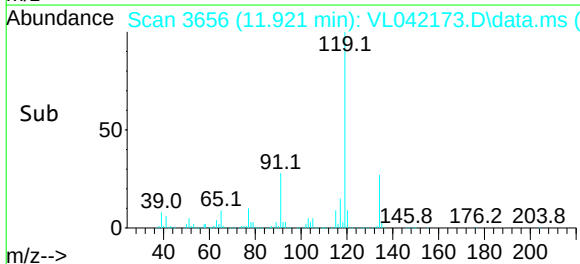
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



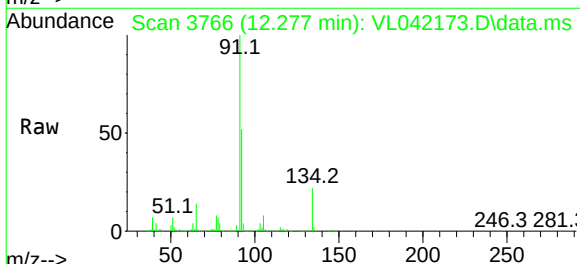
Tgt Ion: 119 Resp: 258357
Ion Ratio Lower Upper
119 100
134 25.2 20.4 30.6
91 29.5 23.7 35.5

Manual Integrations
APPROVED

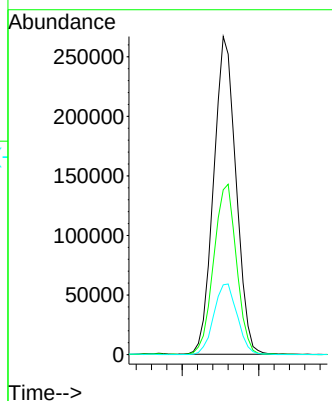
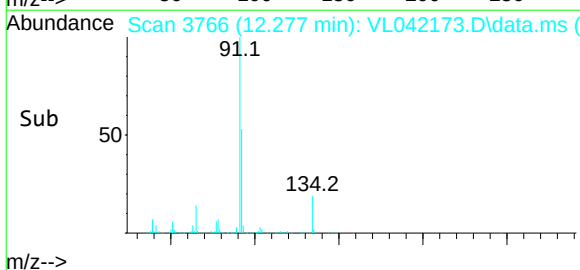
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

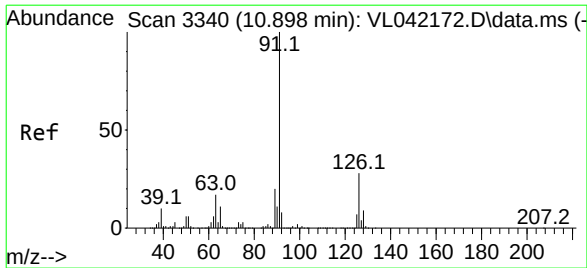


#70
n-Butylbenzene
Concen: 2.228 ppbv
RT: 12.277 min Scan# 3766
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59



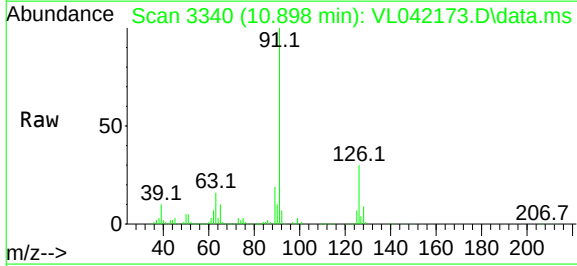
Tgt Ion: 91 Resp: 270616
Ion Ratio Lower Upper
91 100
92 55.1 44.9 67.3
134 23.3 19.2 28.8





#71
2-Chlorotoluene
Concen: 2.132 ppbv
RT: 10.898 min Scan# 3340
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

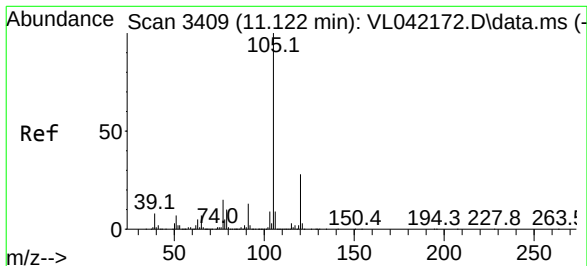
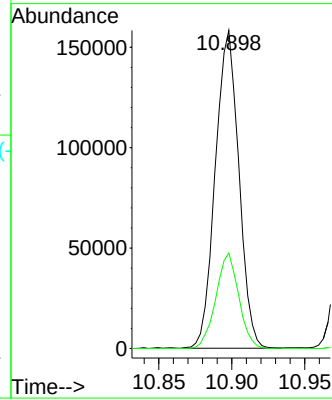
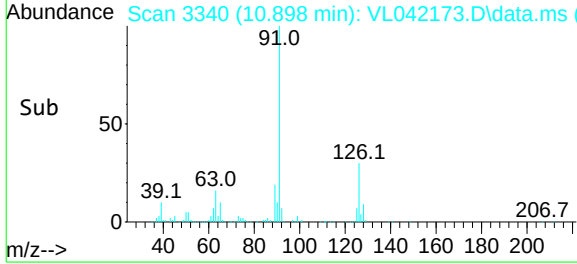
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



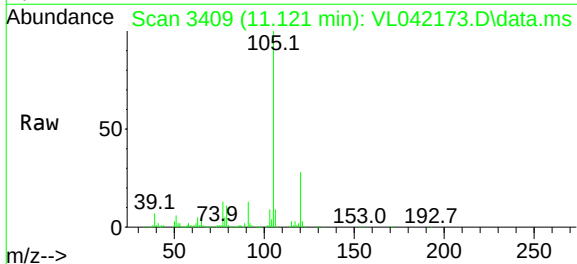
Tgt Ion: 91 Resp: 177487
Ion Ratio Lower Upper
91 100
126 29.2 11.6 46.4

Manual Integrations
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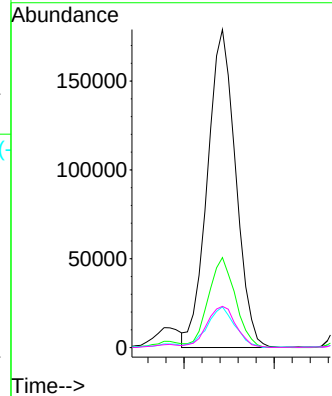
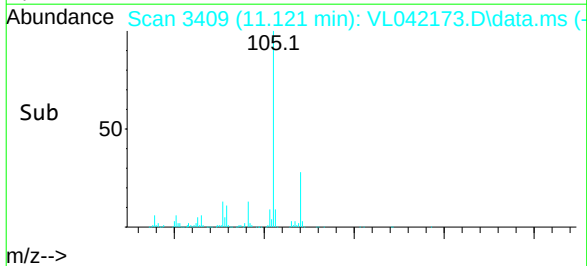
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

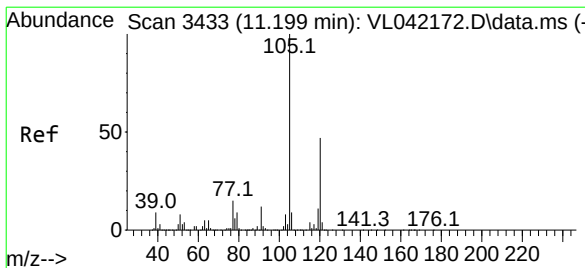


#72
4-Ethyltoluene
Concen: 2.179 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59



Tgt Ion:105 Resp: 194660
Ion Ratio Lower Upper
105 100
120 29.1 23.4 35.0
91 13.7 10.3 15.5
77 14.7 11.4 17.2





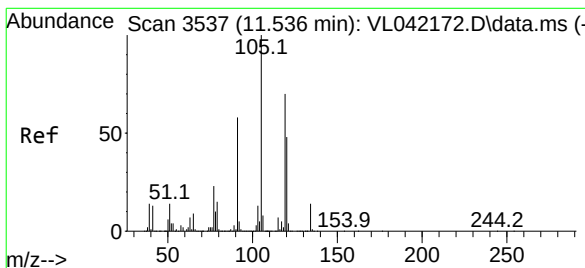
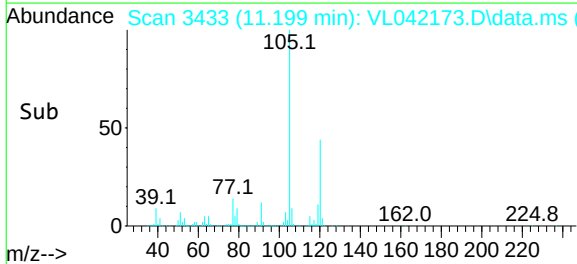
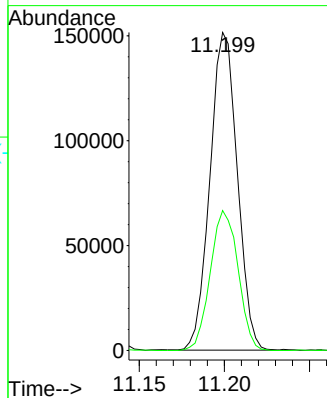
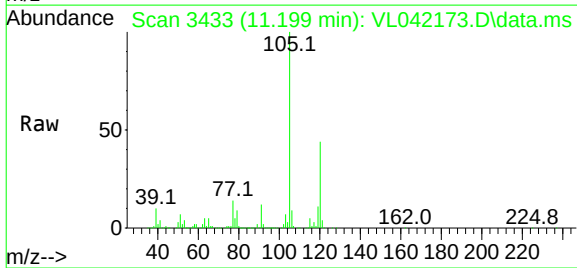
#73
1,3,5-Trimethylbenzene
Concen: 2.169 ppbv
RT: 11.199 min Scan# 3433
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Instrument : MSVOA_L
ClientSampleId : VSTDIC002

Tgt Ion:105 Resp: 169221
Ion Ratio Lower Upper
105 100
120 44.0 37.4 56.0

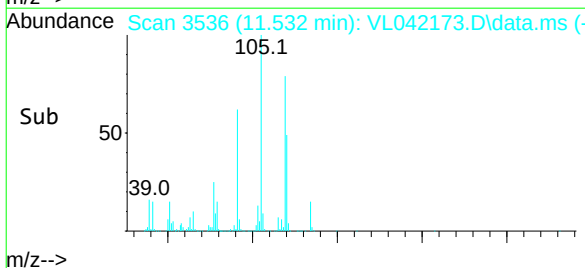
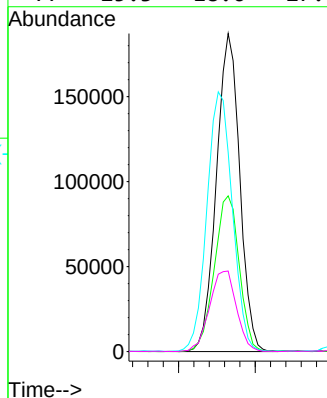
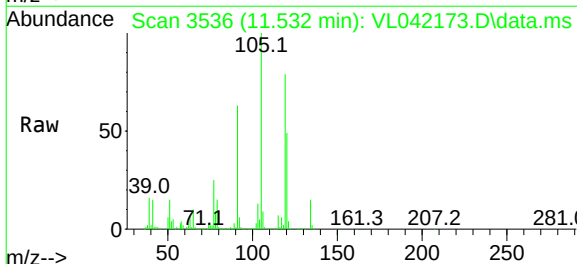
Manual Integrations
APPROVED

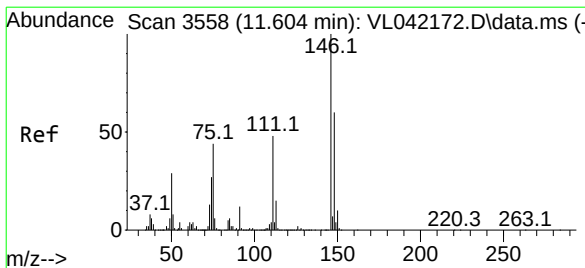
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#74
1,2,4-Trimethylbenzene
Concen: 2.207 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. -0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion:105 Resp: 198351
Ion Ratio Lower Upper
105 100
120 49.0 38.6 58.0
91 62.4 46.2 69.2
77 25.3 18.6 27.8





#75

1,3-Dichlorobenzene

Concen: 2.175 ppbv

RT: 11.604 min Scan# 3558

Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Instrument :

MSVOA_L

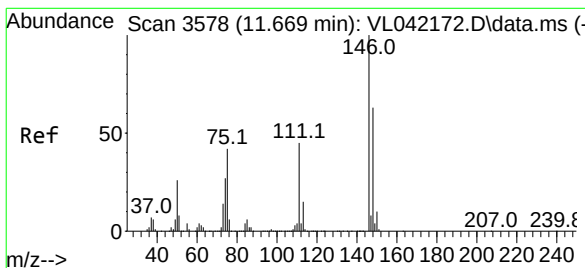
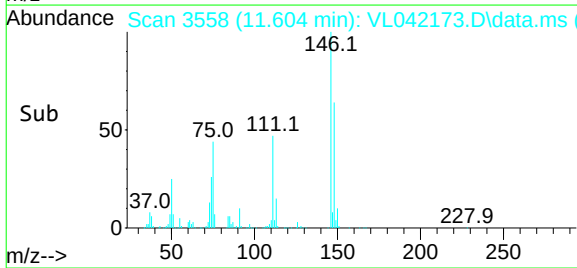
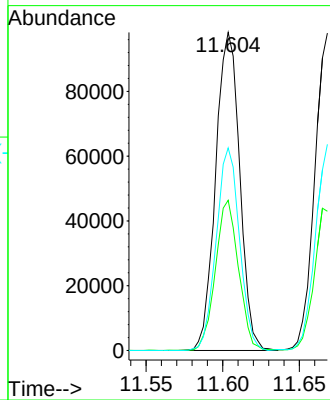
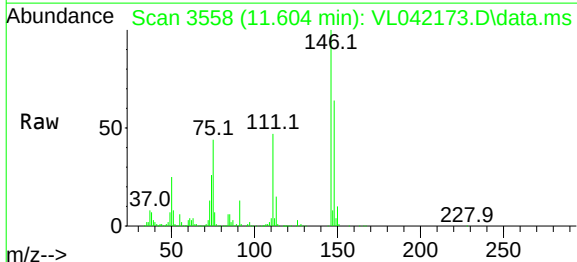
ClientSampleId :

VSTDIC002

Tgt Ion:	146	Resp:	107217
Ion Ratio	Lower	Upper	
146	100		
111	45.5	23.8	71.2
148	61.6	31.9	95.9

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#76

1,4-Dichlorobenzene

Concen: 2.139 ppbv

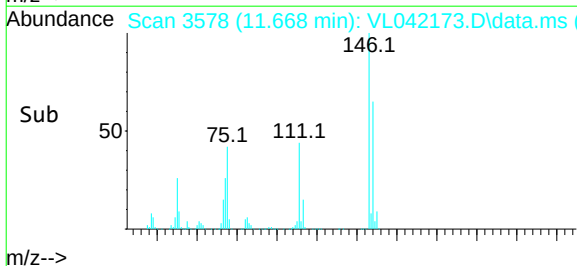
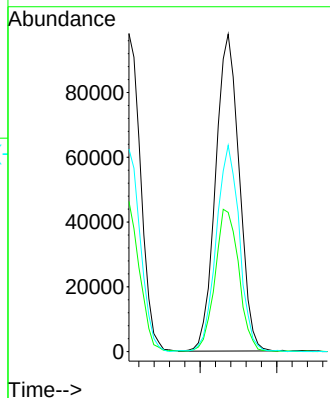
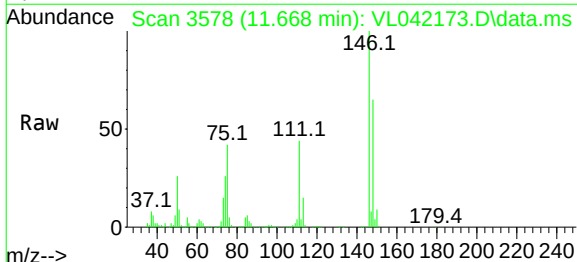
RT: 11.668 min Scan# 3578

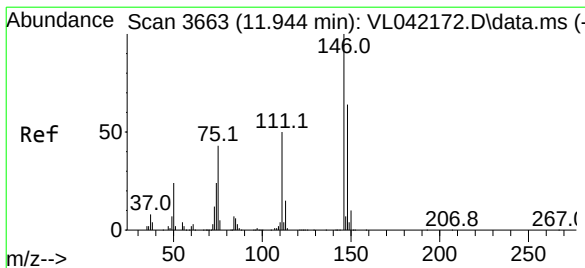
Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Tgt Ion:	146	Resp:	104925
Ion Ratio	Lower	Upper	
146	100		
111	45.3	23.0	69.0
148	64.0	31.9	95.7





#77

1,2-Dichlorobenzene

Concen: 2.132 ppbv

RT: 11.943 min Scan# 3663

Delta R.T. -0.000 min

Lab File: VL042173.D

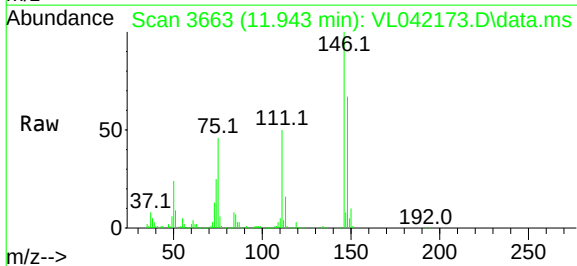
Acq: 27 Mar 2025 08:59

Instrument :

MSVOA_L

ClientSampleId :

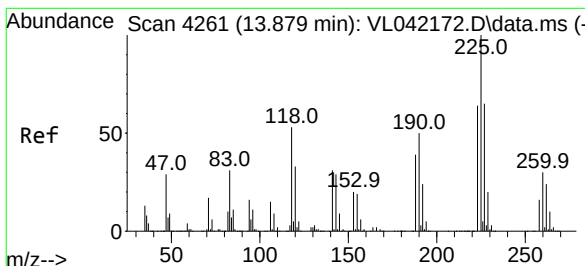
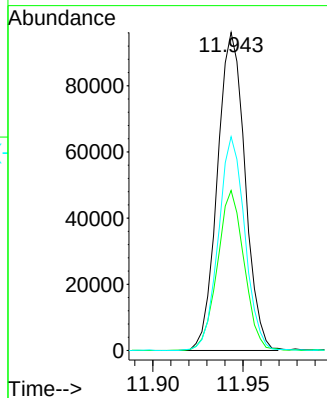
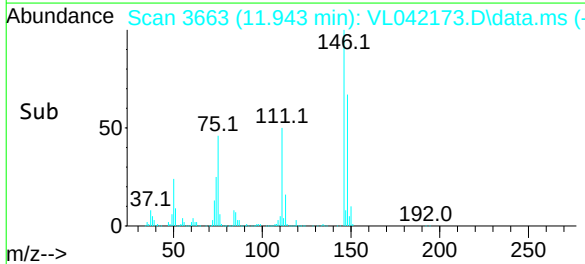
VSTDICC002



Tgt Ion:	146	Resp:	102310
Ion	Ratio	Lower	Upper
146	100		
111	48.8	24.8	74.3
148	64.6	31.6	94.8

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#78

Hexachloro-1,3-Butadiene

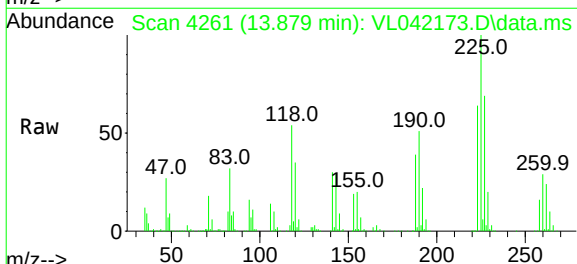
Concen: 2.242 ppbv

RT: 13.879 min Scan# 4261

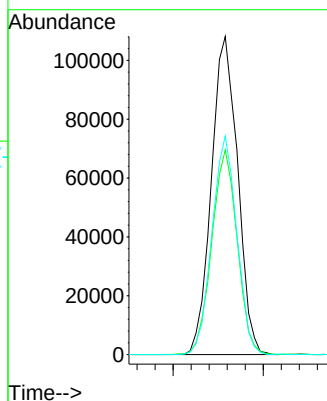
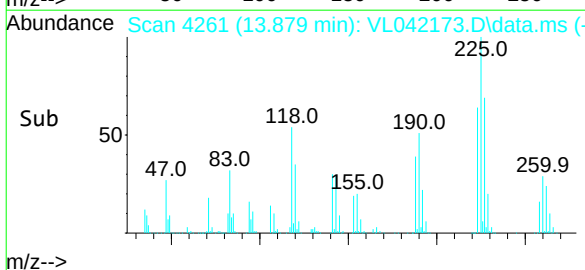
Delta R.T. -0.000 min

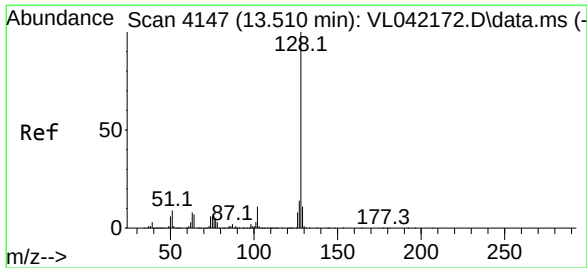
Lab File: VL042173.D

Acq: 27 Mar 2025 08:59



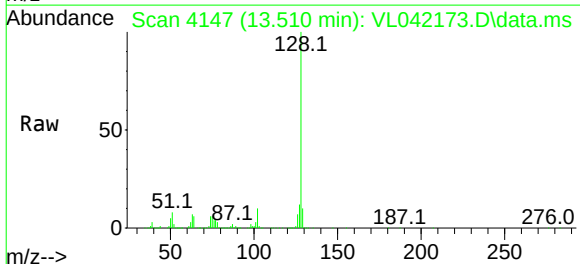
Tgt Ion:	225	Resp:	109539
Ion	Ratio	Lower	Upper
225	100		
223	62.2	50.6	76.0
227	64.9	51.2	76.8





#79
Naphthalene
Concen: 2.375 ppbv
RT: 13.510 min Scan# 4147
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

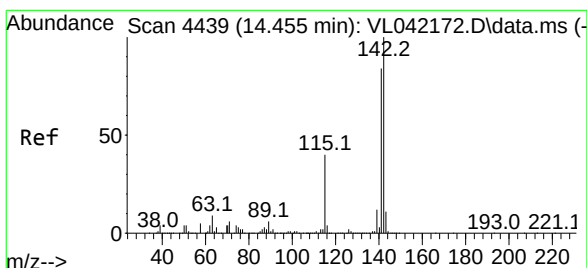
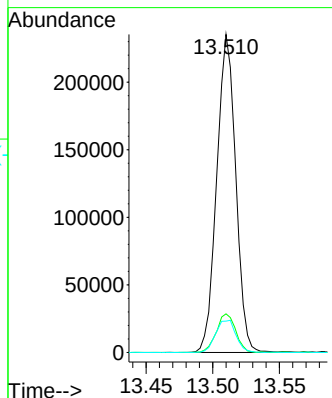
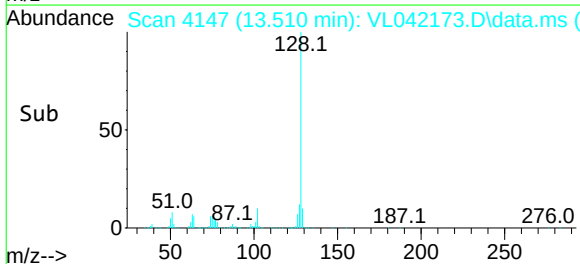
Instrument : MSVOA_L
ClientSampleId : VSTDIC002



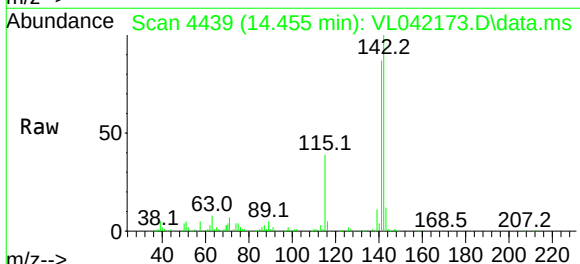
Tgt Ion:	128	Resp:	233451
Ion Ratio	Lower	Upper	
128	100		
127	12.1	10.8	16.2
129	9.9	9.0	13.4

Manual Integrations
APPROVED

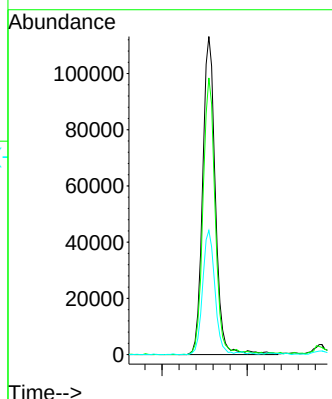
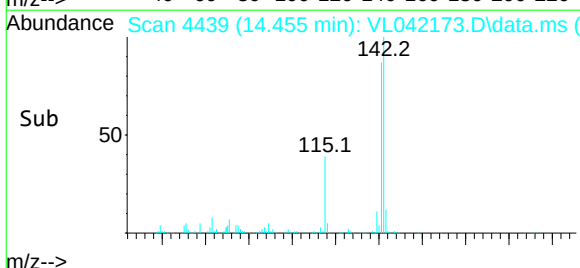
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

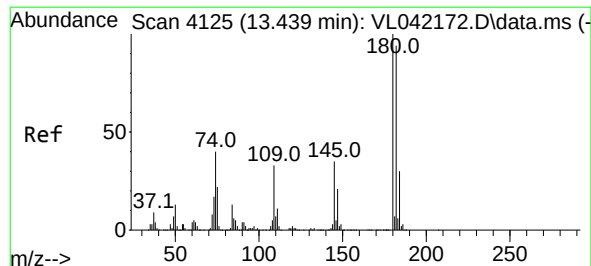


#80
Naphthalene, 2-methyl-
Concen: 2.451 ppbv
RT: 14.455 min Scan# 4439
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59



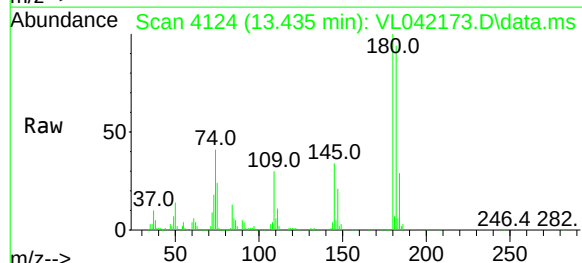
Tgt Ion:	142	Resp:	117313
Ion Ratio	Lower	Upper	
142	100		
141	83.5	66.3	99.5
115	38.5	31.6	47.4





#81
1,2,4-Trichlorobenzene
Concen: 2.288 ppbv
RT: 13.435 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

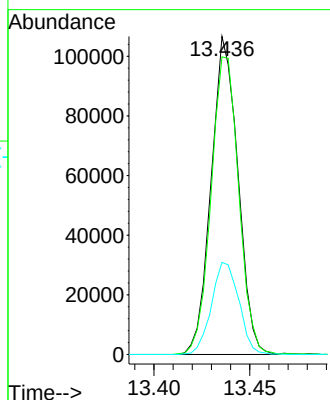
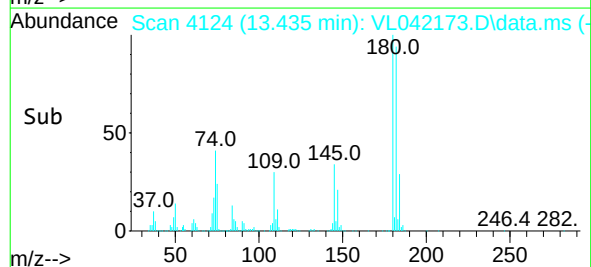
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



Tgt Ion:180 Resp: 103765
Ion Ratio Lower Upper
180 100
182 97.0 75.1 112.7
184 29.6 24.4 36.6

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 : 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

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

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	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

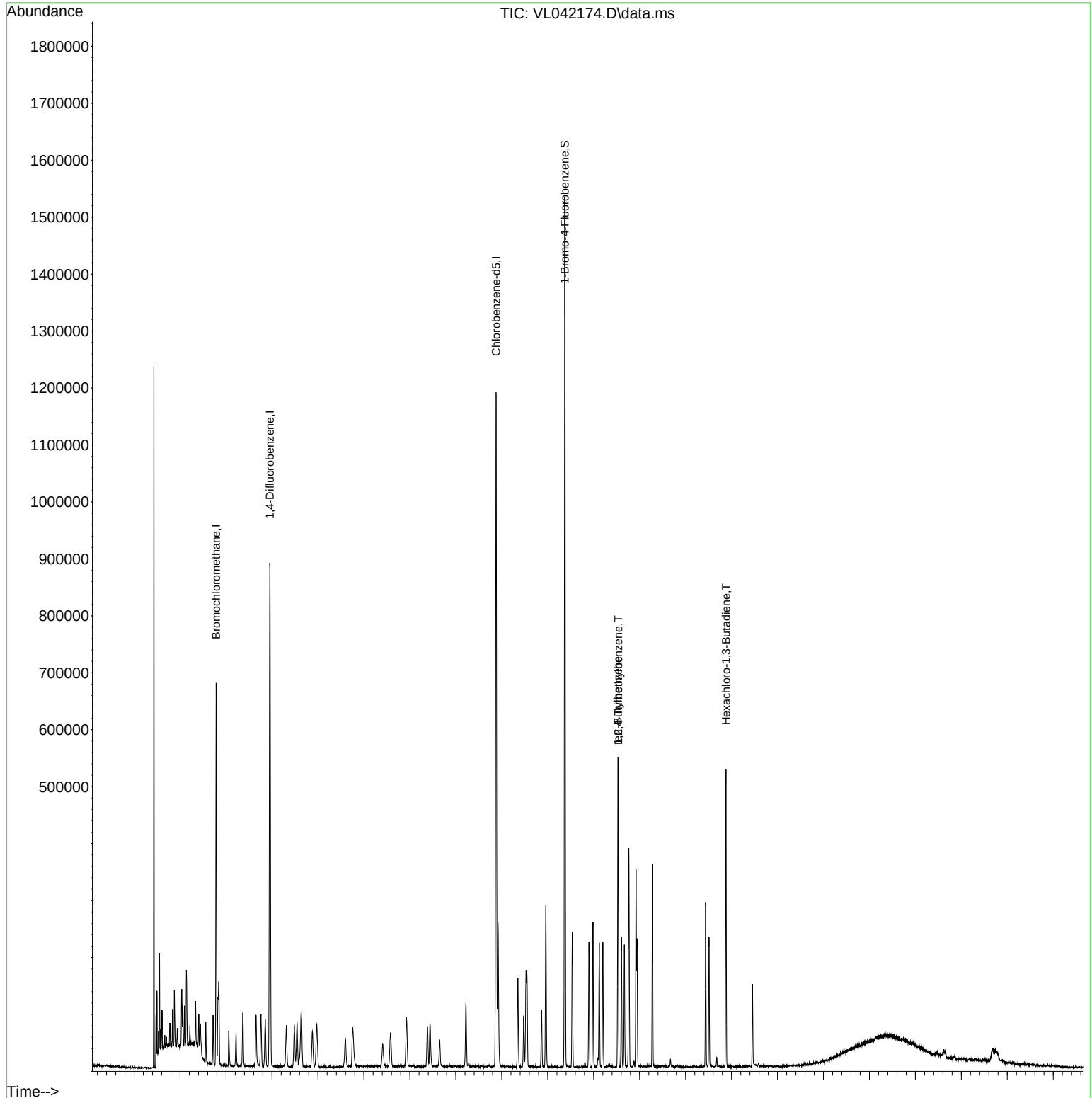
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042174.D
Acq On : 27 Mar 2025 09:30
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

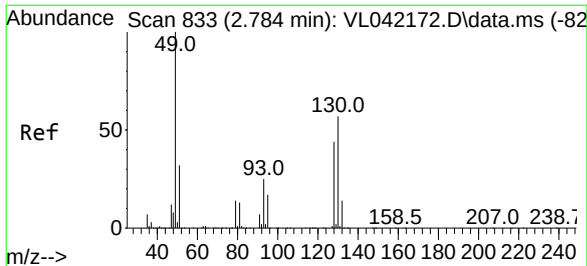
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 03/31/2025
Supervised By : Mahesh Dadoda 04/03/2025

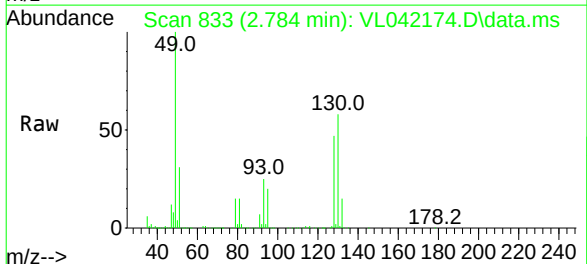
Quant Time: Mar 28 01:33:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 833
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

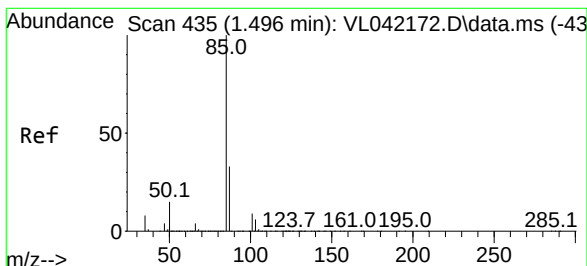
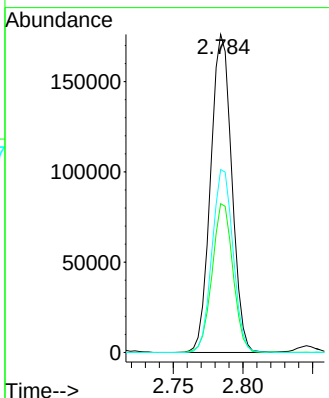
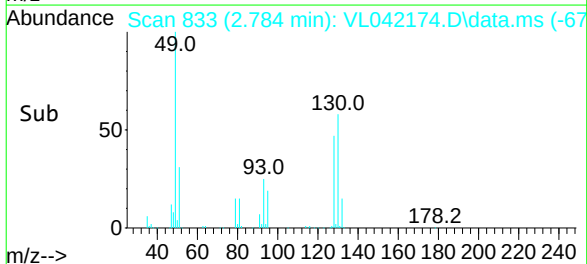
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



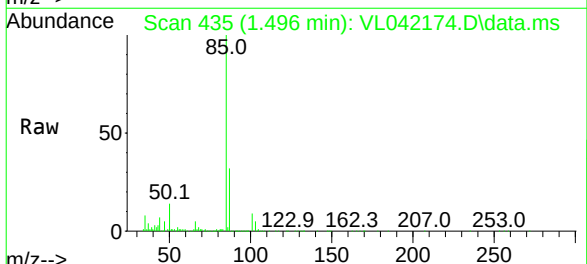
Tgt Ion: 49 Resp: 186244
Ion Ratio Lower Upper
49 100
128 46.2 22.9 68.5
130 57.0 28.8 86.4

Manual Integrations
APPROVED

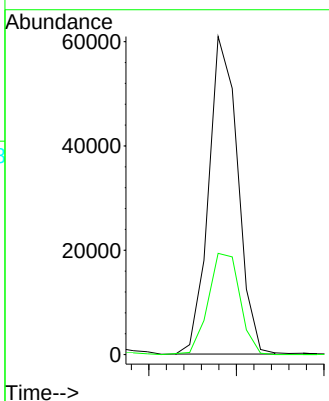
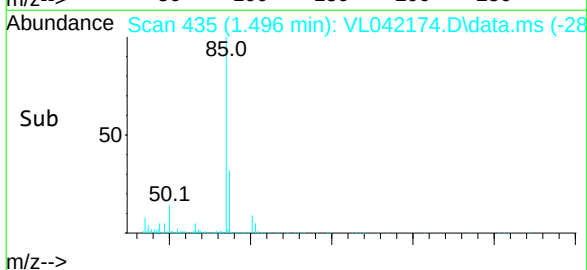
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

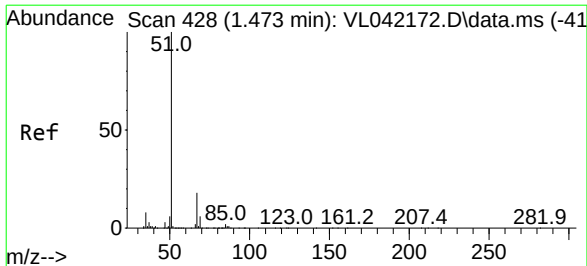


#2
Dichlorodifluoromethane
Concen: 1.026 ppbv
RT: 1.496 min Scan# 435
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30



Tgt Ion: 85 Resp: 28203
Ion Ratio Lower Upper
85 100
87 31.9 26.1 39.1





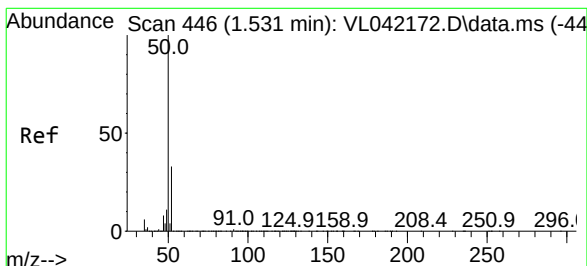
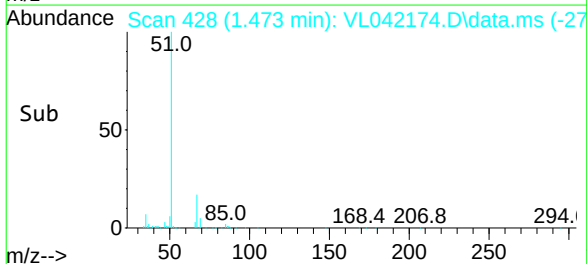
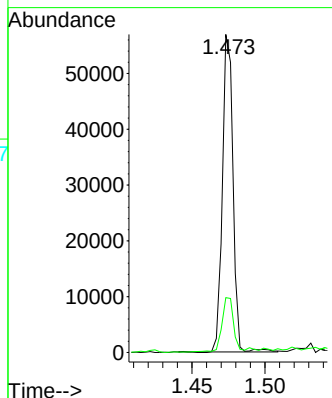
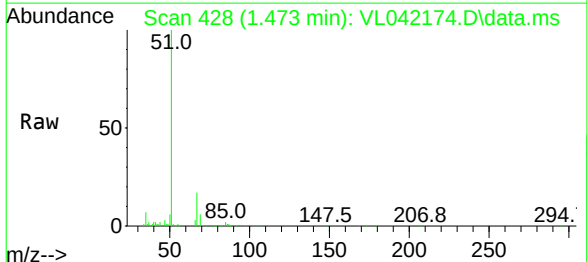
#3
Chlorodifluoromethane
Concen: 1.021 ppbv
RT: 1.473 min Scan# 428
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 51 Resp: 28693
Ion Ratio Lower Upper
51 100
67 21.5 15.0 22.6

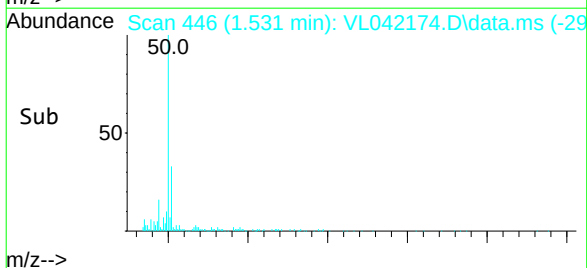
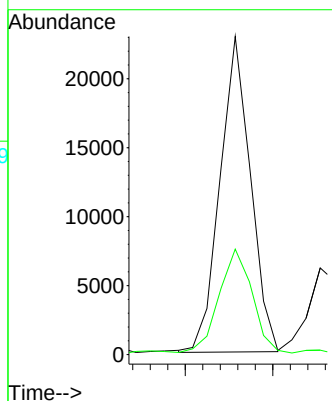
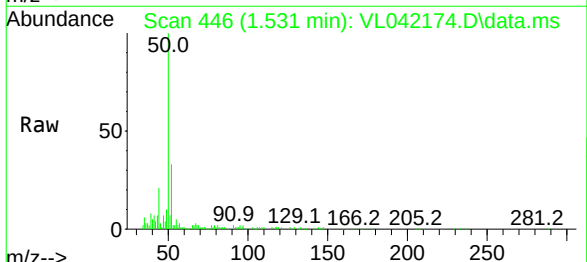
Manual Integrations
APPROVED

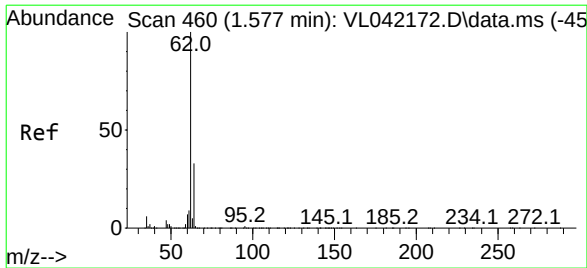
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#4
Chloromethane
Concen: 0.989 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 50 Resp: 11111
Ion Ratio Lower Upper
50 100
52 32.9 26.1 39.1





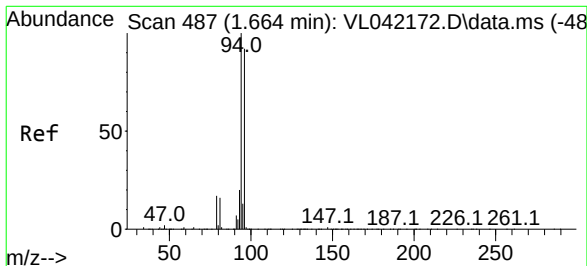
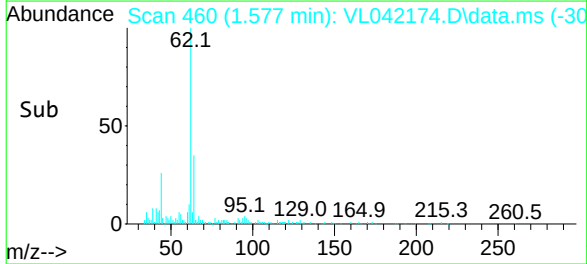
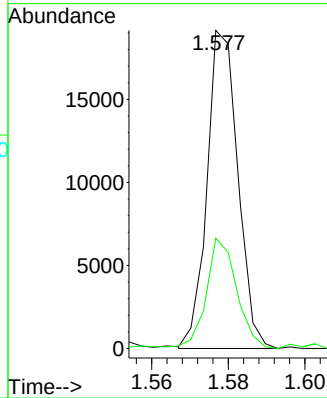
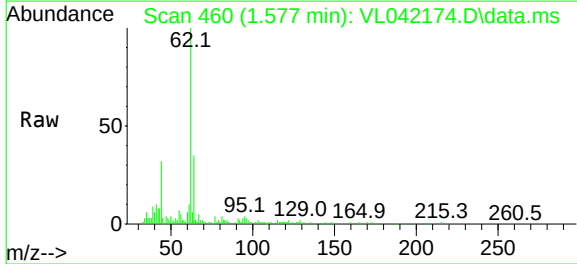
#5
 Vinyl Chloride
 Concen: 0.936 ppbv
 RT: 1.577 min Scan# 460
 Delta R.T. 0.000 min
 Lab File: VL042174.D
 Acq: 27 Mar 2025 09:30

Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001

Tgt Ion: 62 Resp: 10723
 Ion Ratio Lower Upper
 62 100
 64 34.6 26.6 40.0

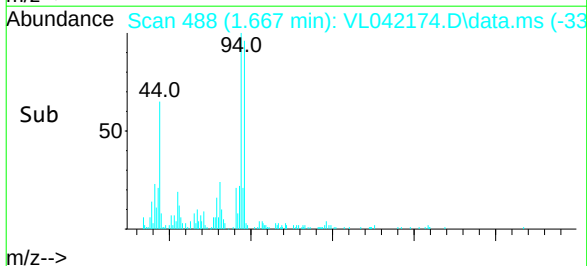
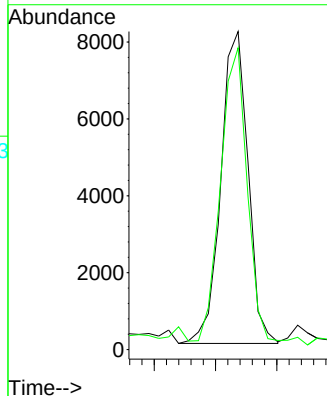
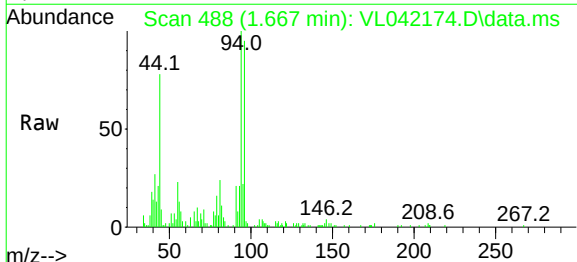
Manual Integrations
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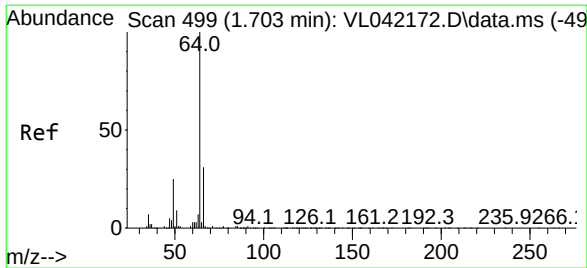
Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025



#6
 Bromomethane
 Concen: 0.979 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. 0.003 min
 Lab File: VL042174.D
 Acq: 27 Mar 2025 09:30

Tgt Ion: 94 Resp: 4984
 Ion Ratio Lower Upper
 94 100
 96 93.8 73.1 109.7





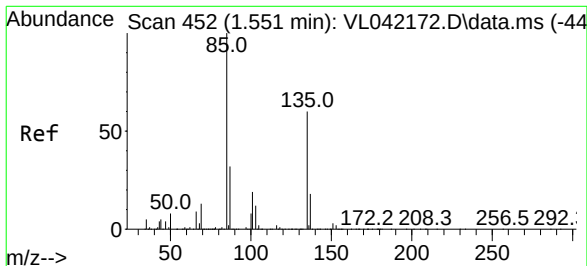
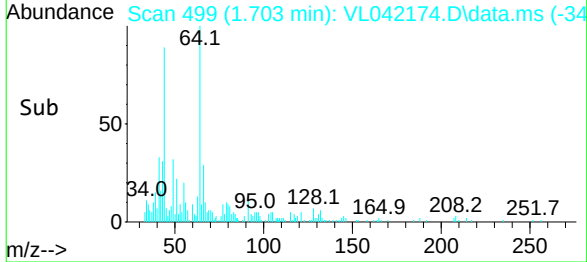
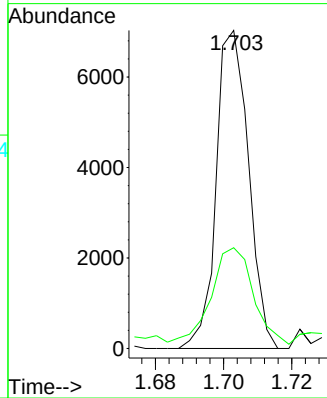
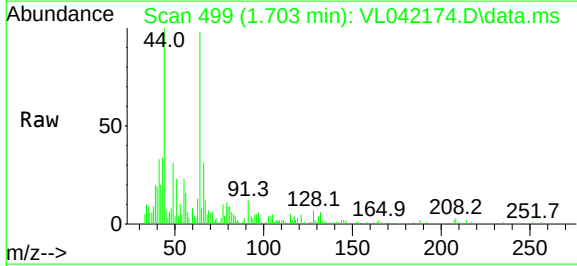
#7
Chloroethane
Concen: 1.025 ppbv
RT: 1.703 min Scan# 499
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 64 Resp: 4622
Ion Ratio Lower Upper
64 100
66 31.7 25.2 37.8

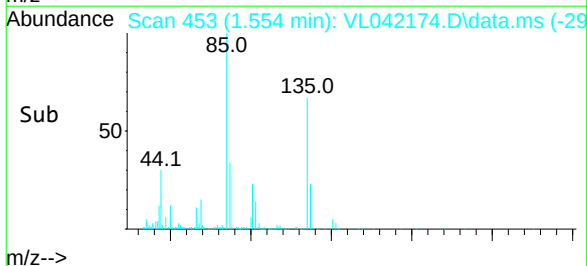
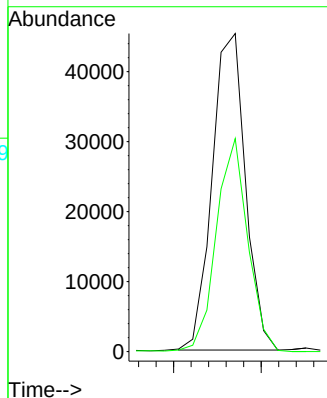
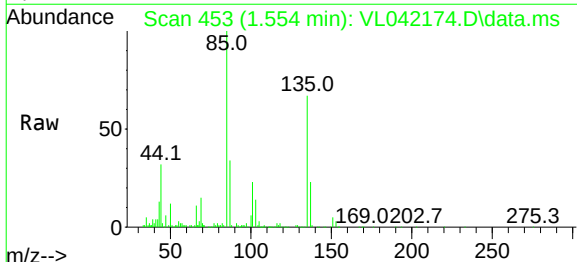
Manual Integrations
APPROVED

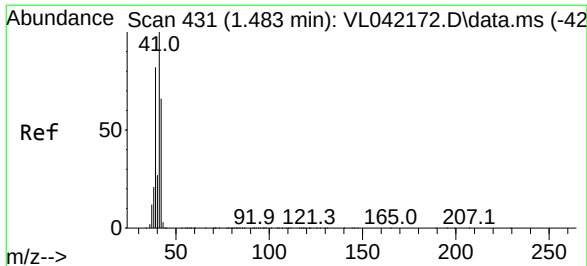
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#8
Dichlorotetrafluoroethane
Concen: 1.020 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 85 Resp: 23886
Ion Ratio Lower Upper
85 100
135 64.2 52.4 78.6





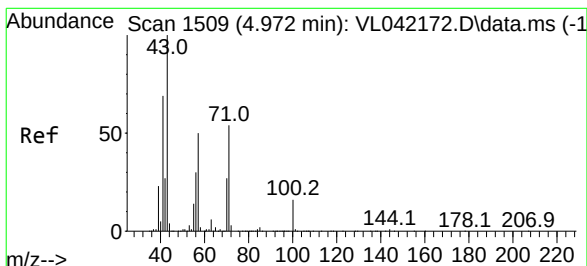
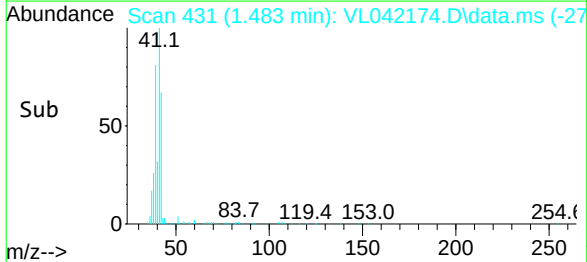
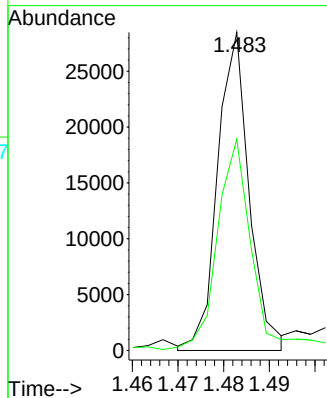
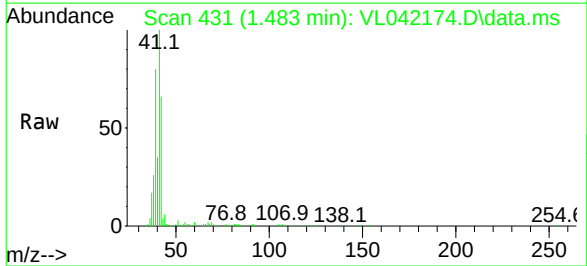
#9
Propene
Concen: 1.082 ppbv m
RT: 1.483 min Scan# 431
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 41 Resp: 13699
Ion Ratio Lower Upper
41 100
42 7.5 55.4 83.2#

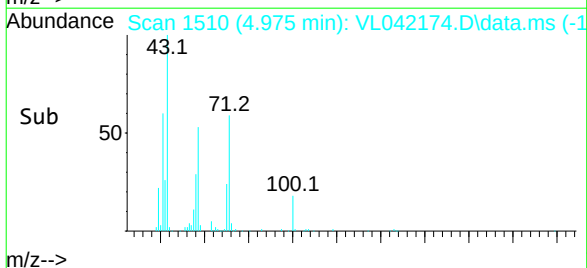
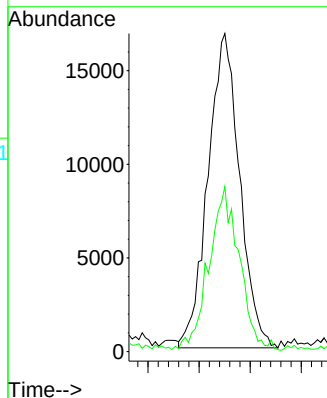
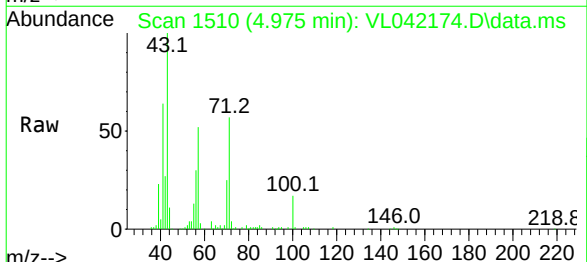
Manual Integrations
APPROVED

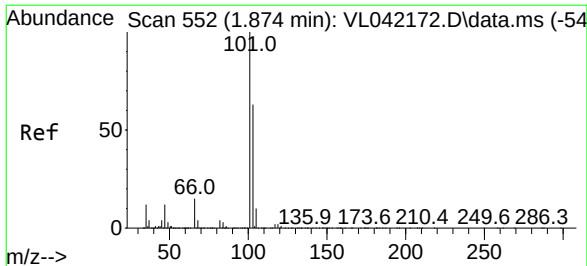
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#10
Heptane
Concen: 1.055 ppbv
RT: 4.975 min Scan# 1510
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 43 Resp: 36132
Ion Ratio Lower Upper
43 100
57 49.6 39.4 59.2





#11

Trichlorofluoromethane

Concen: 1.014 ppbv

RT: 1.875 min Scan# 552

Delta R.T. 0.000 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC001

Tgt Ion:101 Resp: 27136

Ion Ratio Lower Upper

101 100

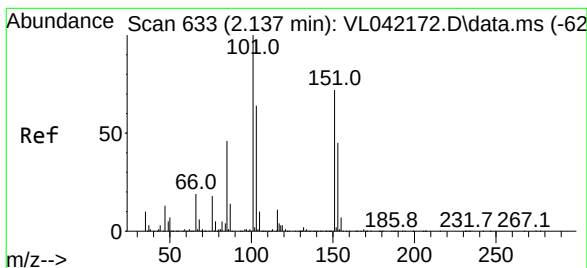
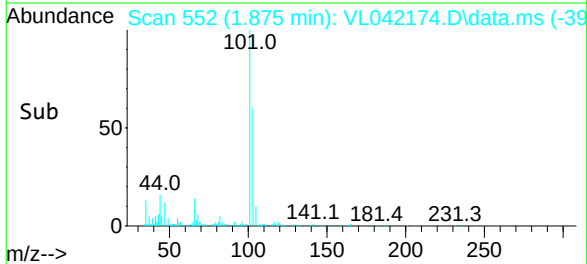
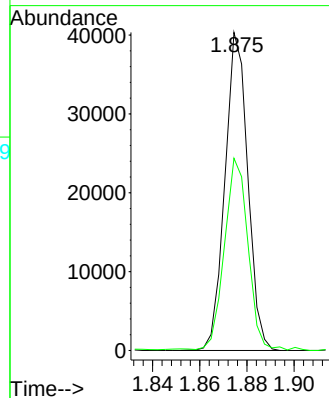
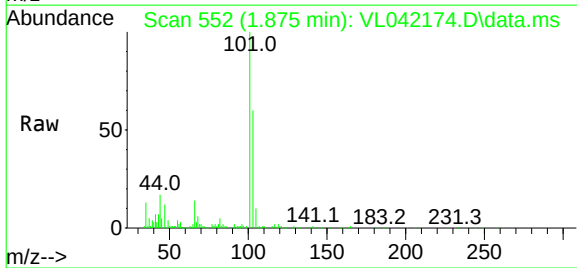
103 59.9 50.2 75.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025

Supervised By :Mahesh Dadoda 04/03/2025



#12

1,1,2-Trichlorotrifluoroethane

Concen: 1.029 ppbv

RT: 2.137 min Scan# 633

Delta R.T. 0.000 min

Lab File: VL042174.D

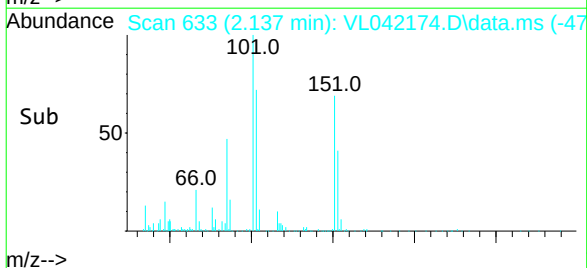
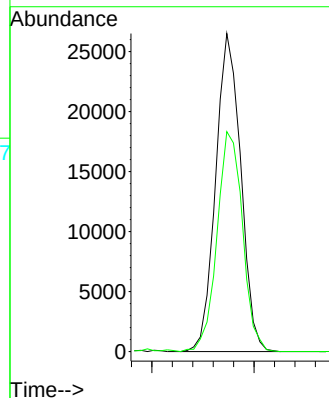
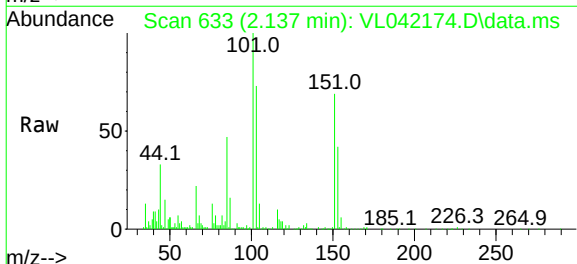
Acq: 27 Mar 2025 09:30

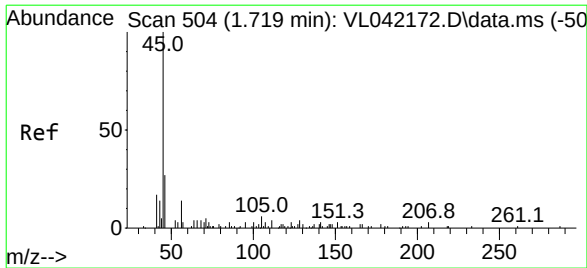
Tgt Ion:101 Resp: 22629

Ion Ratio Lower Upper

101 100

151 70.3 57.1 85.7





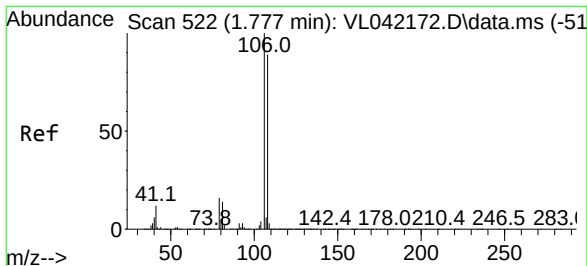
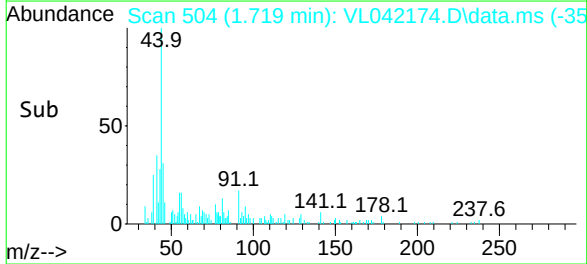
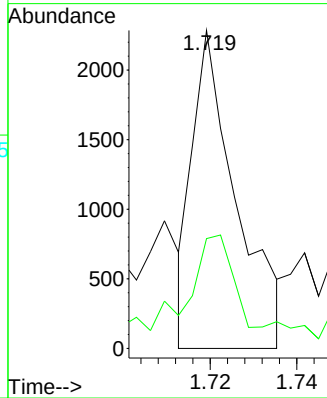
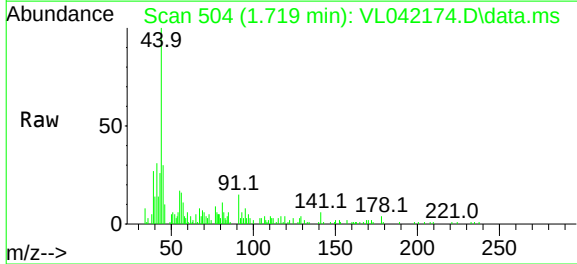
#13
Ethanol
Concen: 1.624 ppbv m
RT: 1.719 min Scan# 504
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 45 Resp: 1610
Ion Ratio Lower Upper
45 100
46 73.4 20.2 80.8

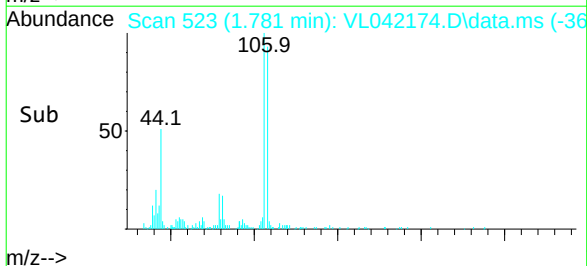
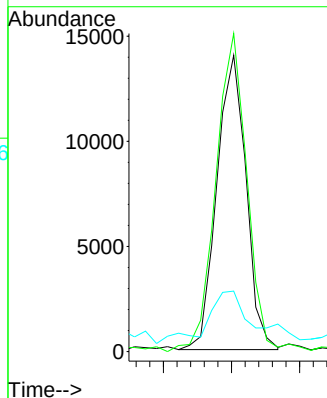
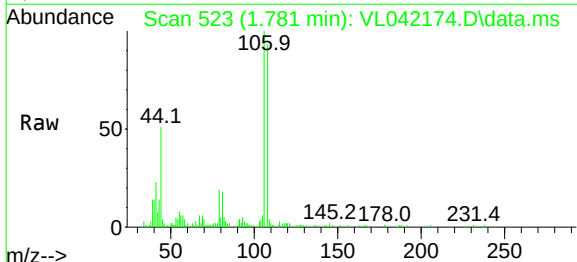
Manual Integrations
APPROVED

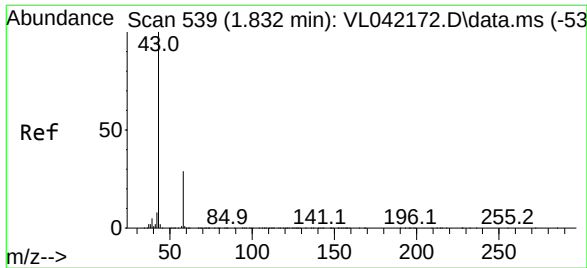
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#14
Bromoethene
Concen: 0.989 ppbv
RT: 1.781 min Scan# 523
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion:108 Resp: 8330
Ion Ratio Lower Upper
108 100
106 115.2 86.8 130.2
79 57.0 15.0 22.6#





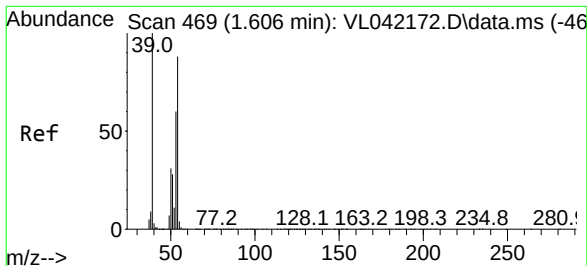
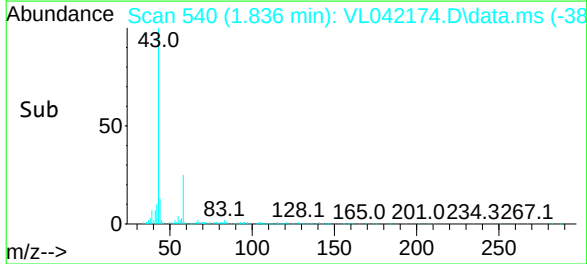
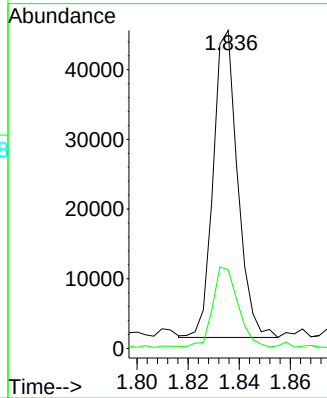
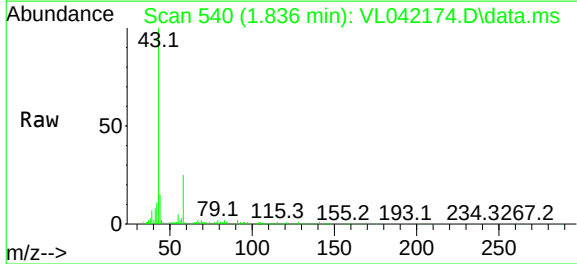
#15
Acetone
Concen: 1.125 ppbv
RT: 1.836 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 43 Resp: 29294
Ion Ratio Lower Upper
43 100
58 31.6 23.2 34.8

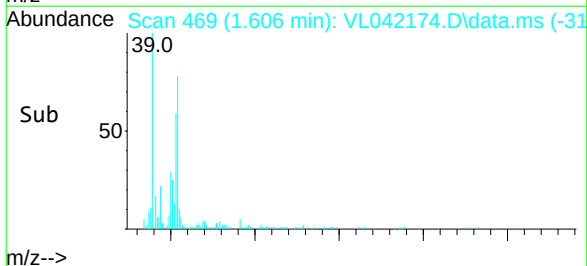
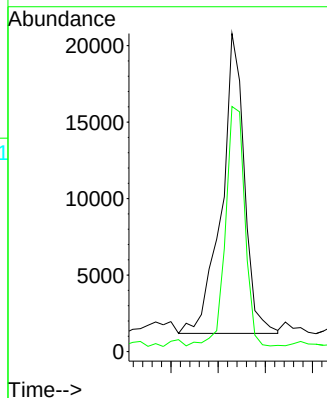
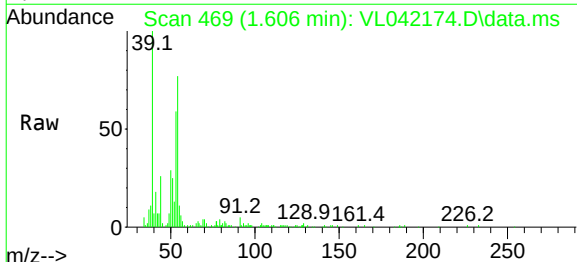
Manual Integrations
APPROVED

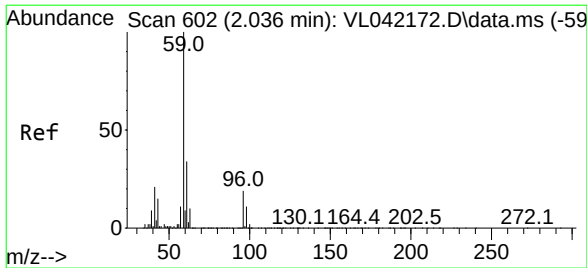
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#16
1,3-Butadiene
Concen: 1.121 ppbv
RT: 1.606 min Scan# 469
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 39 Resp: 13133
Ion Ratio Lower Upper
39 100
54 73.5 60.7 91.1





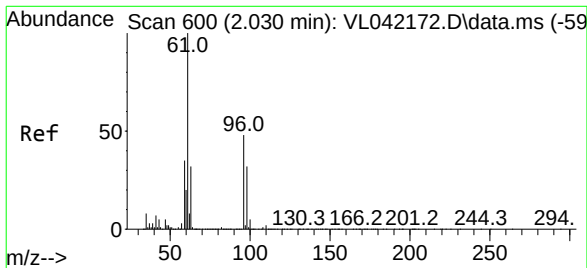
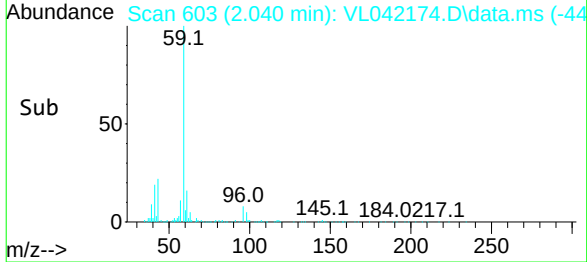
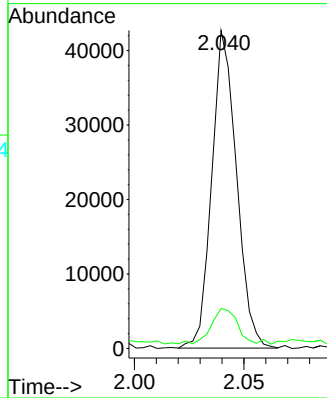
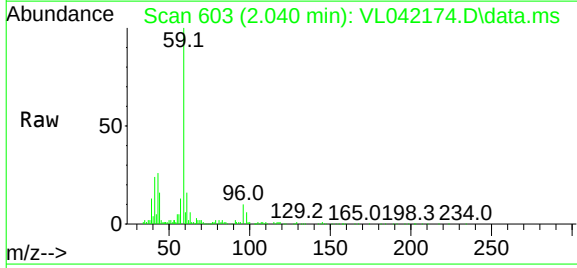
#17
tert-Butyl alcohol
Concen: 1.033 ppbv
RT: 2.040 min Scan# 60
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 59 Resp: 33500
Ion Ratio Lower Upper
59 100
57 12.3 8.9 13.3

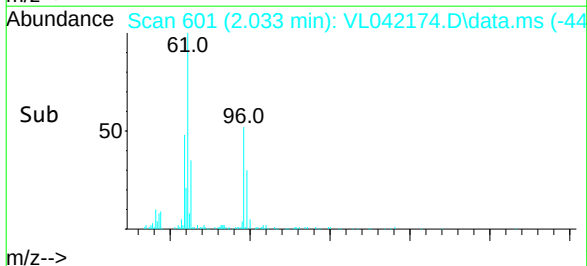
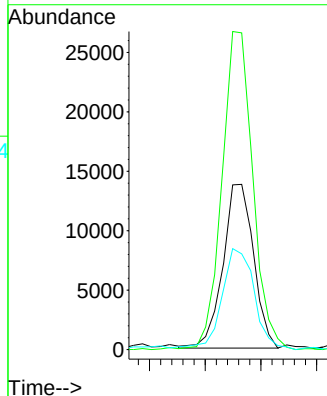
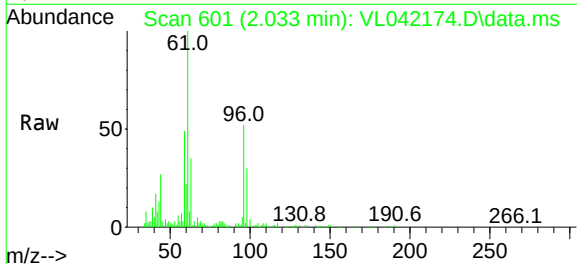
Manual Integrations
APPROVED

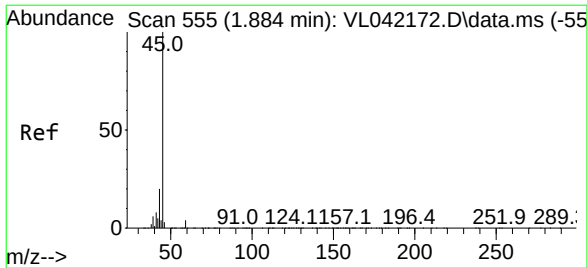
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#18
1,1-Dichloroethene
Concen: 1.024 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 96 Resp: 10532
Ion Ratio Lower Upper
96 100
61 192.9 167.6 251.4
98 56.7 53.5 80.3





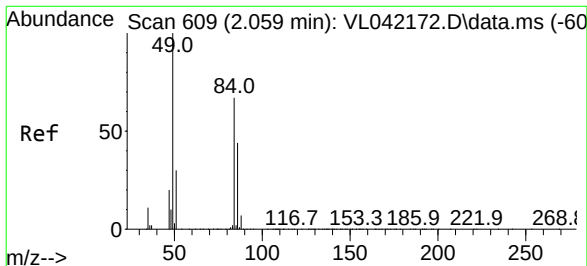
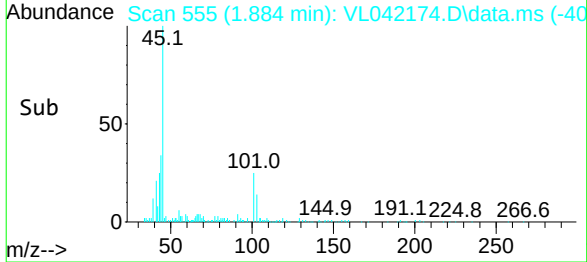
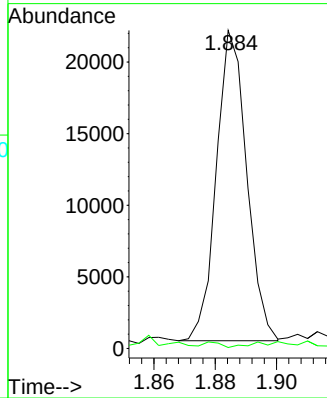
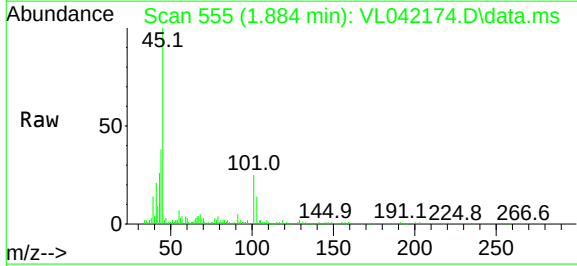
#19
Isopropyl Alcohol
Concen: 1.014 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 45 Resp: 14903
Ion Ratio Lower Upper
45 100
58 4.9 36.9 55.3

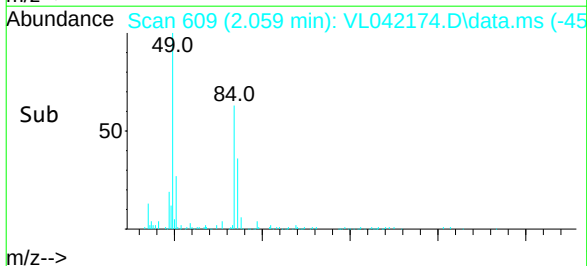
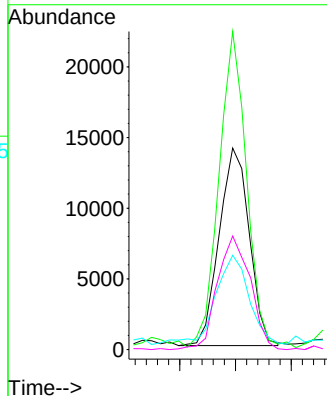
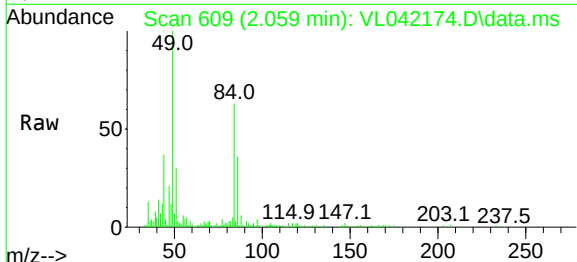
Manual Integrations
APPROVED

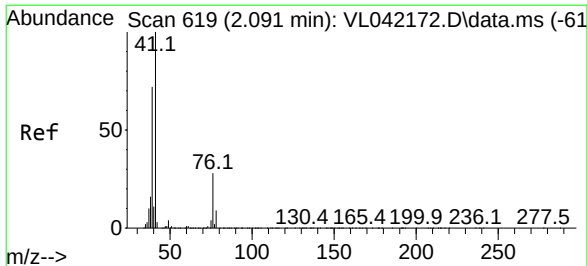
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#20
Methylene Chloride
Concen: 1.080 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 84 Resp: 10481
Ion Ratio Lower Upper
84 100
49 158.3 120.2 180.4
51 44.3 37.4 56.0
86 57.1 52.4 78.6





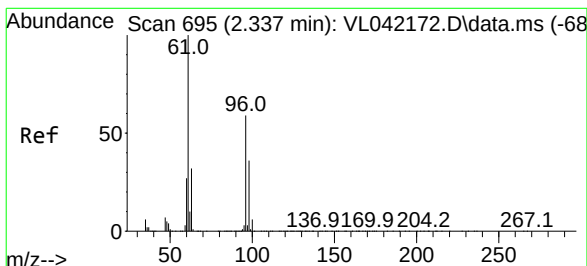
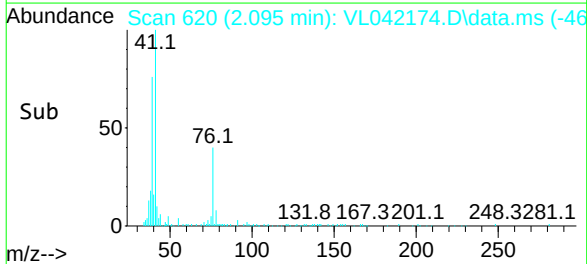
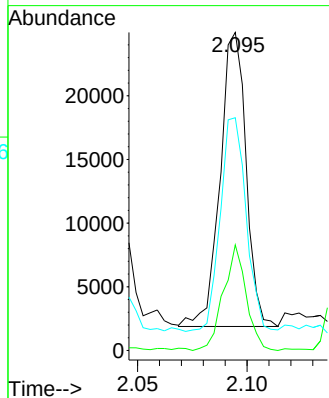
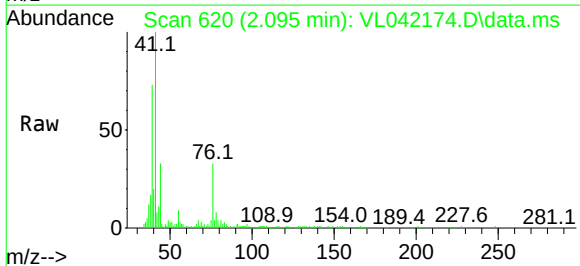
#21
 Allyl Chloride
 Concen: 1.036 ppbv
 RT: 2.095 min Scan# 621
 Delta R.T. 0.003 min
 Lab File: VL042174.D
 Acq: 27 Mar 2025 09:30

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Tgt Ion:	41	Resp:	19039
Ion	Ratio	Lower	Upper
41	100		
76	30.5	24.1	36.1
39	77.8	61.1	91.7

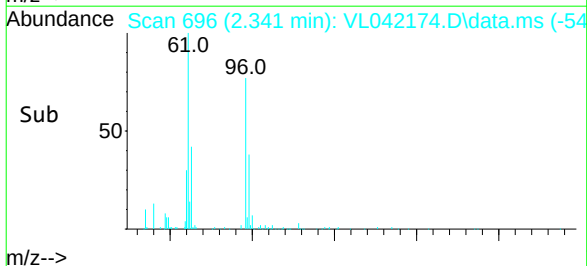
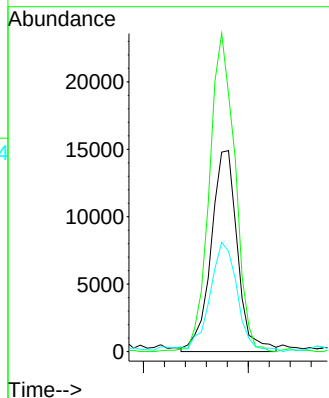
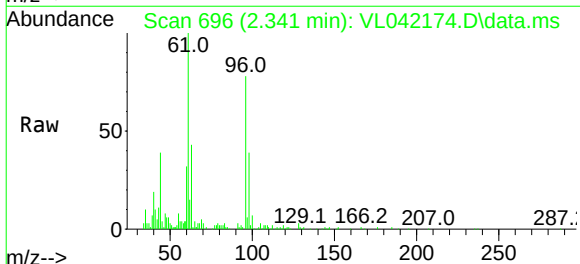
Manual Integrations
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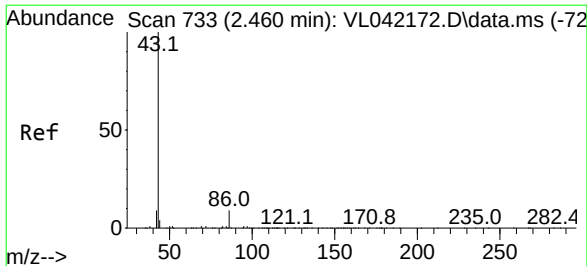
Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025



#22
 trans-1,2-Dichloroethene
 Concen: 1.086 ppbv m
 RT: 2.341 min Scan# 696
 Delta R.T. 0.003 min
 Lab File: VL042174.D
 Acq: 27 Mar 2025 09:30

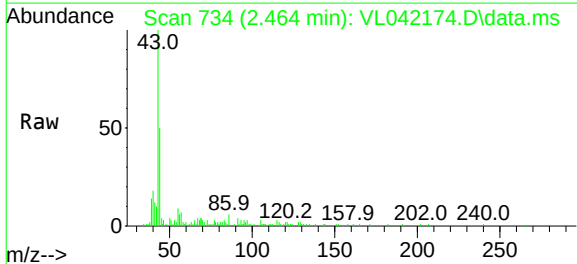
Tgt Ion:	96	Resp:	13051
Ion	Ratio	Lower	Upper
96	100		
61	128.3	136.6	204.8#
98	49.9	49.4	74.2





#23
 Vinyl Acetate
 Concen: 1.190 ppbv m
 RT: 2.464 min Scan# 733
 Delta R.T. 0.003 min
 Lab File: VL042174.D
 Acq: 27 Mar 2025 09:30

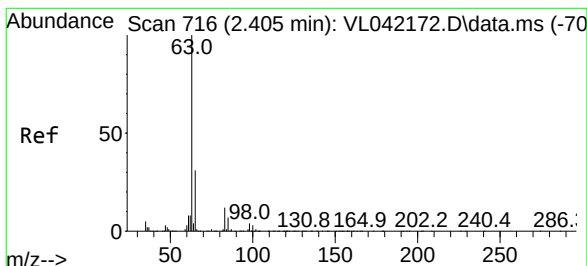
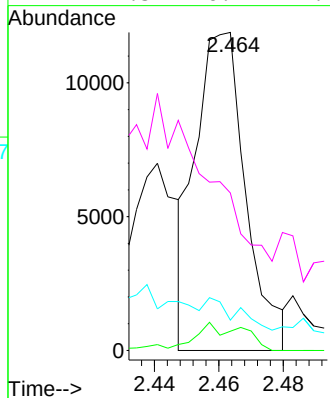
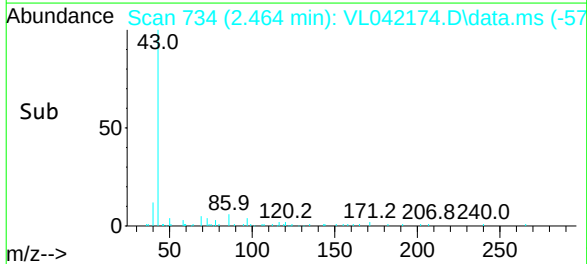
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001



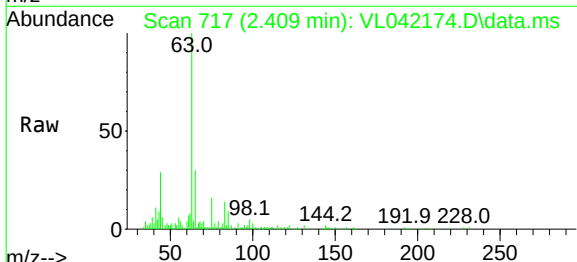
Tgt Ion: 43	Resp: 12883
Ion Ratio	Lower Upper
43	100
86	6.0 5.5 8.3
42	9.5 8.6 13.0
44	49.5 6.2 9.4#

Manual Integrations
 APPROVED

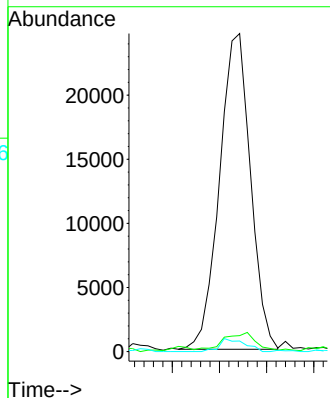
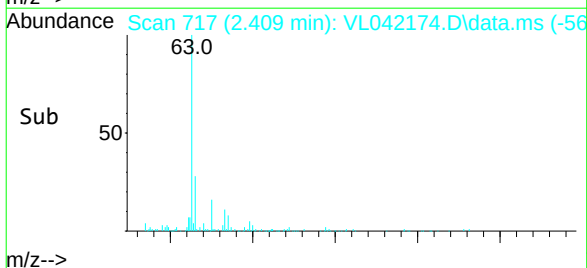
Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025

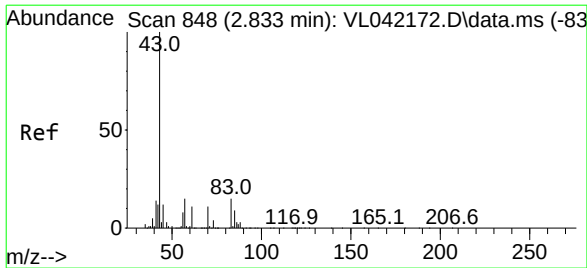


#24
 1,1-Dichloroethane
 Concen: 1.022 ppbv
 RT: 2.409 min Scan# 717
 Delta R.T. 0.003 min
 Lab File: VL042174.D
 Acq: 27 Mar 2025 09:30



Tgt Ion: 63	Resp: 22505
Ion Ratio	Lower Upper
63	100
98	4.6 2.3 6.8
100	3.4 1.6 4.7





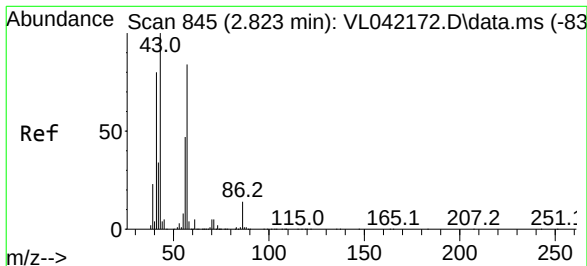
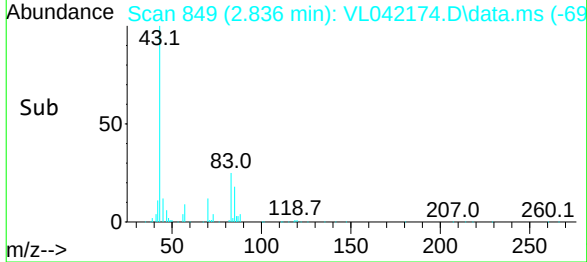
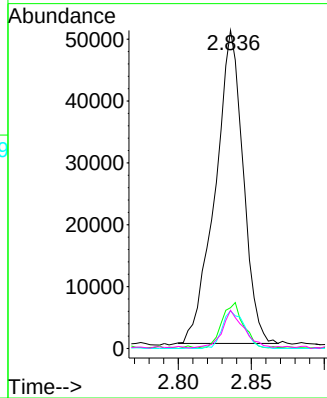
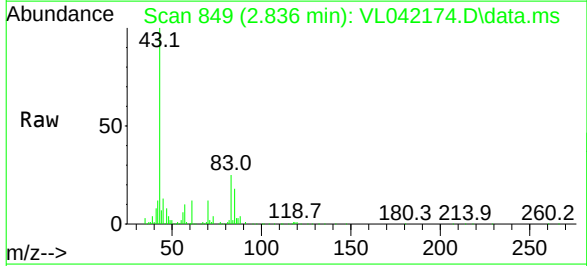
#25
Ethyl Acetate
Concen: 0.997 ppbv
RT: 2.836 min Scan# 848
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 43	Resp: 67402
Ion Ratio	Lower Upper
43 100	
45 12.3	8.2 12.2
61 9.6	7.3 10.9
70 10.3	7.2 10.8

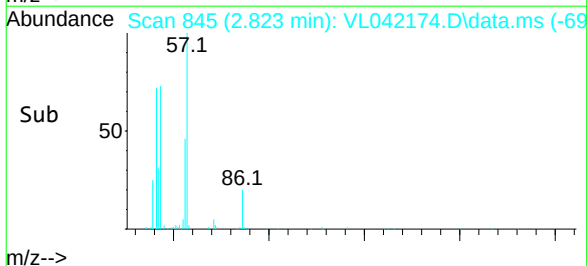
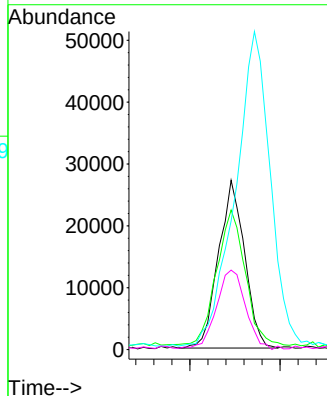
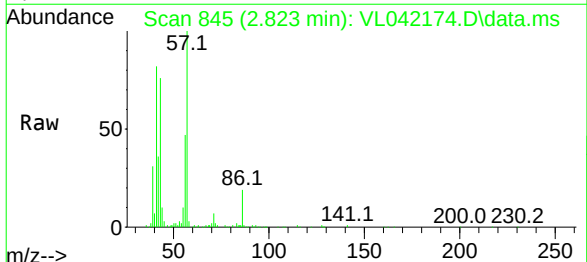
Manual Integrations
APPROVED

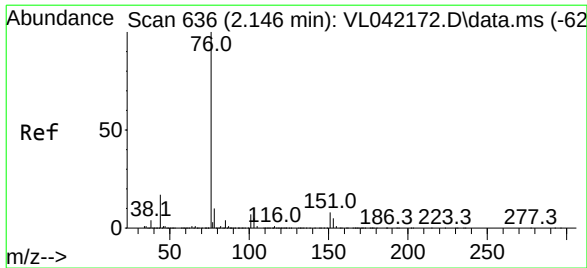
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#26
Hexane
Concen: 1.043 ppbv
RT: 2.823 min Scan# 845
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 57	Resp: 27223
Ion Ratio	Lower Upper
57 100	
41 93.5	76.6 114.8
43 256.9	207.8 311.8
56 53.3	43.6 65.4





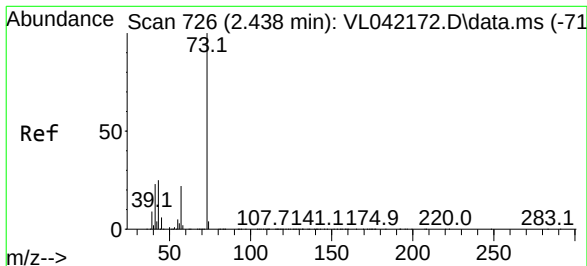
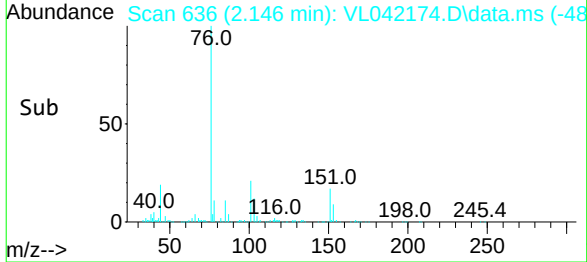
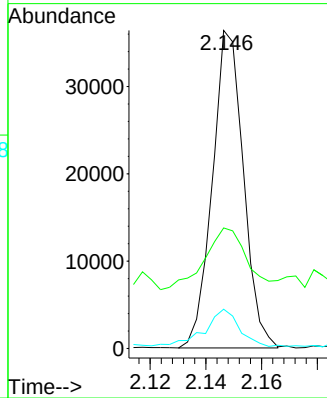
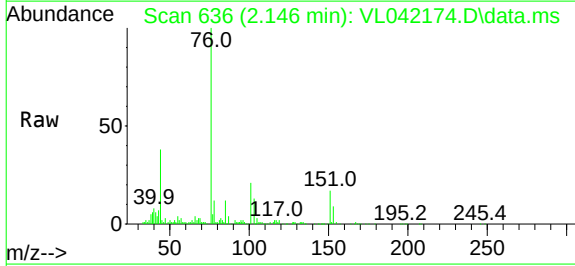
#27
Carbon Disulfide
Concen: 1.006 ppbv
RT: 2.146 min Scan# 636
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Instrument : MSVOA_L
ClientSampleId : VSTDICC001

Tgt Ion:	76	Resp:	28167
Ion	Ratio	Lower	Upper
76	100		
44	54.6	14.7	22.1
78	15.0	9.3	13.9

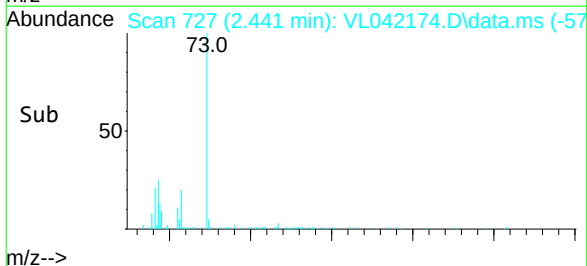
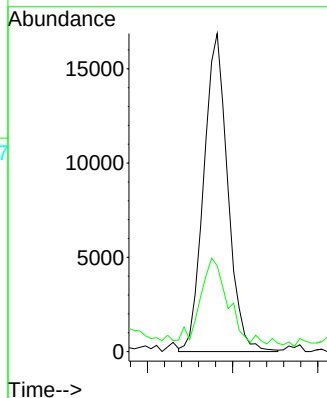
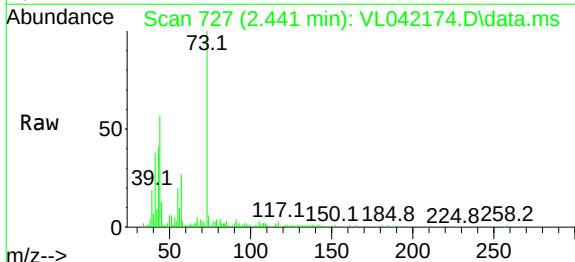
Manual Integrations
APPROVED

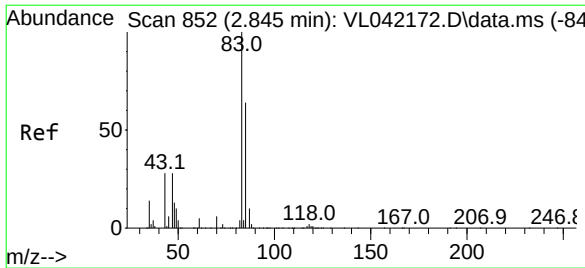
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#28
Methyl tert-Butyl Ether
Concen: 1.015 ppbv
RT: 2.441 min Scan# 727
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion:	73	Resp:	16501
Ion	Ratio	Lower	Upper
73	100		
57	28.0	20.5	30.7





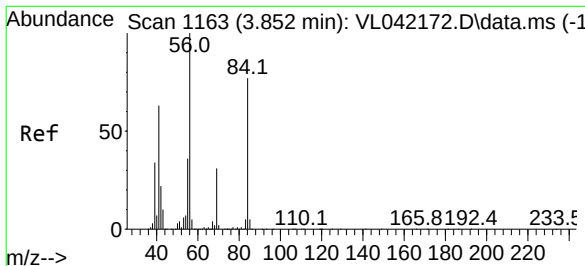
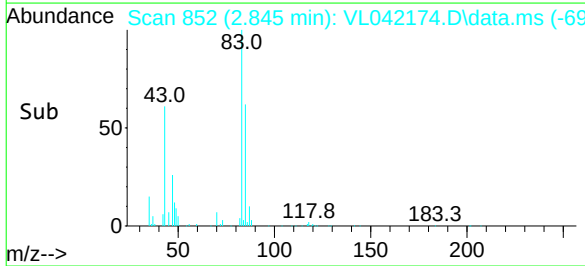
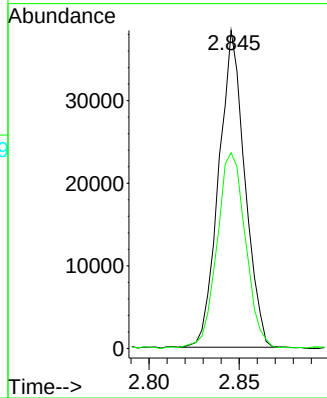
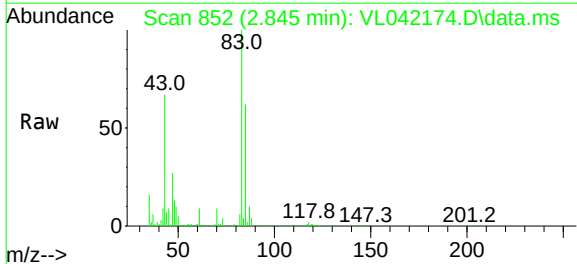
#29
Chloroform
Concen: 1.008 ppbv
RT: 2.845 min Scan# 85
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 83 Resp: 38516
Ion Ratio Lower Upper
83 100
85 61.6 51.4 77.2

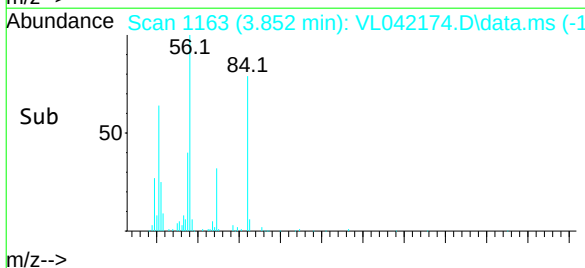
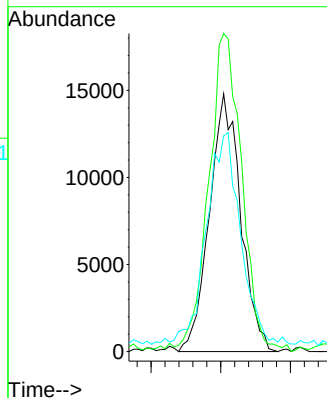
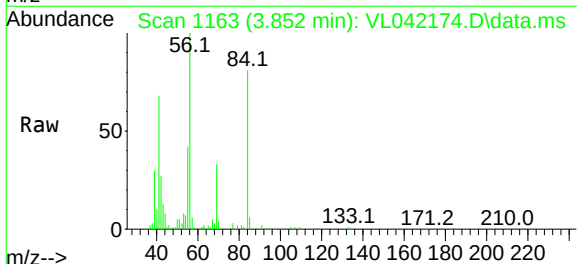
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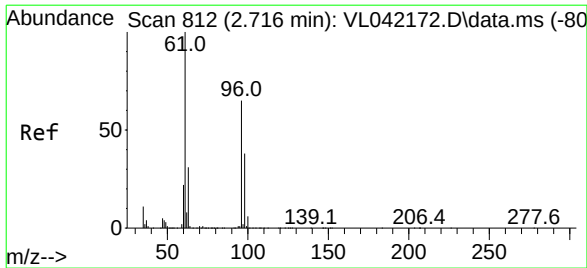
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#30
Cyclohexane
Concen: 1.016 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 84 Resp: 23052
Ion Ratio Lower Upper
84 100
56 128.9 102.8 154.2
41 89.3 66.5 99.7





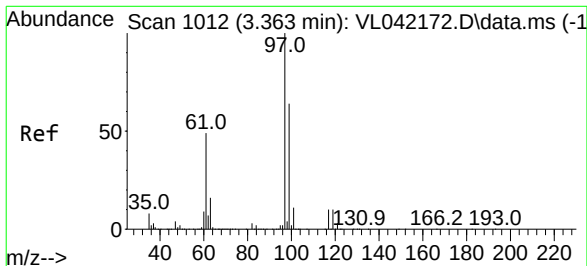
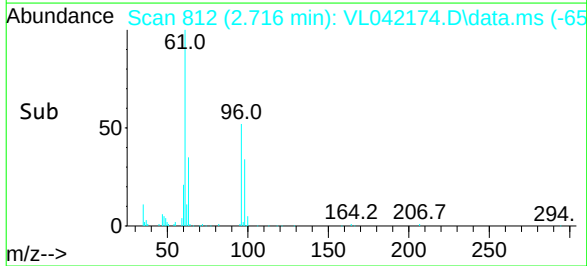
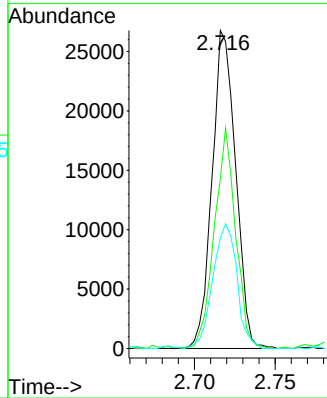
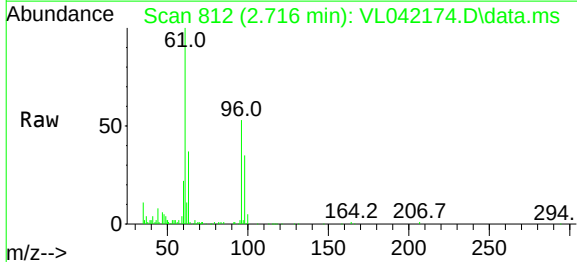
#31
 cis-1,2-Dichloroethene
 Concen: 1.026 ppbv
 RT: 2.716 min Scan# 81
 Delta R.T. 0.000 min
 Lab File: VL042174.D
 Acq: 27 Mar 2025 09:30

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tgt Ion:	61	Resp:	27187
Ion	Ratio	Lower	Upper
61	100		
96	53.3	51.8	77.8
98	34.8	30.6	46.0

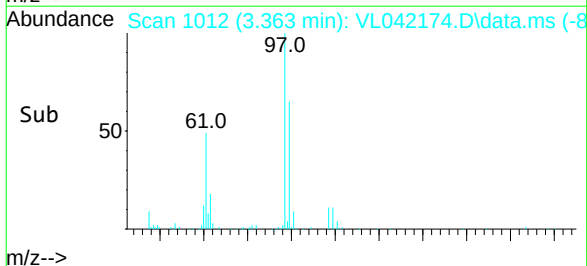
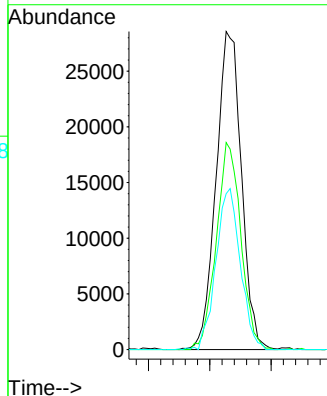
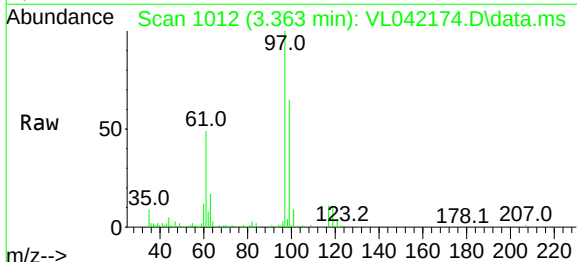
Manual Integrations
 APPROVED

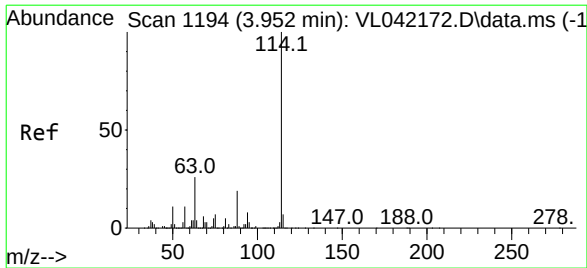
Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025



#32
 1,1,1-Trichloroethane
 Concen: 0.938 ppbv
 RT: 3.363 min Scan# 1012
 Delta R.T. 0.000 min
 Lab File: VL042174.D
 Acq: 27 Mar 2025 09:30

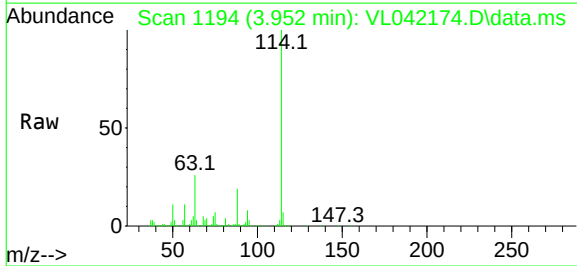
Tgt Ion:	97	Resp:	40993
Ion	Ratio	Lower	Upper
97	100		
99	63.0	51.5	77.3
61	48.8	38.7	58.1





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 11
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

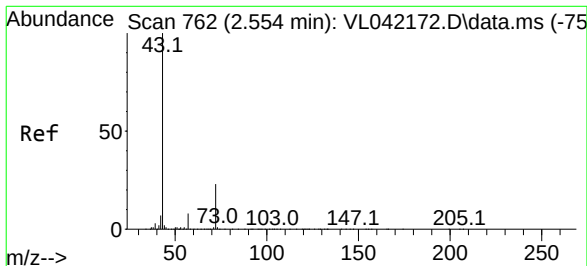
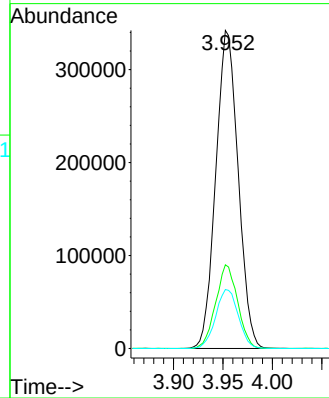
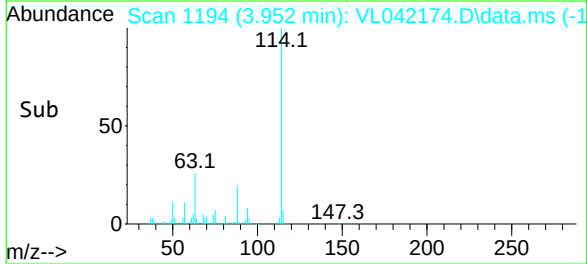
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



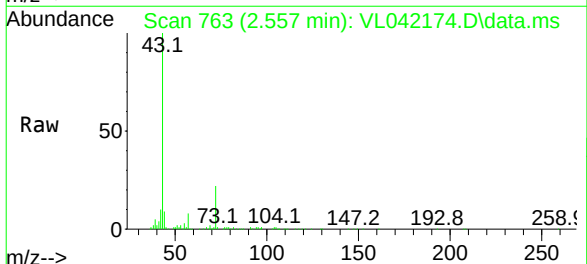
Tgt Ion: 114 Resp: 537244
Ion Ratio Lower Upper
114 100
63 25.8 20.7 31.1
88 18.8 15.0 22.4

Manual Integrations
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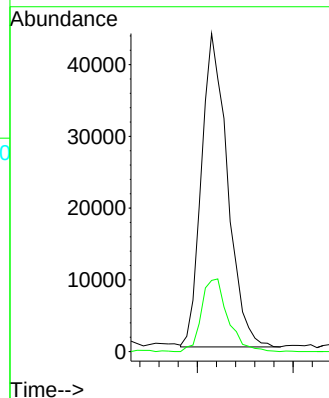
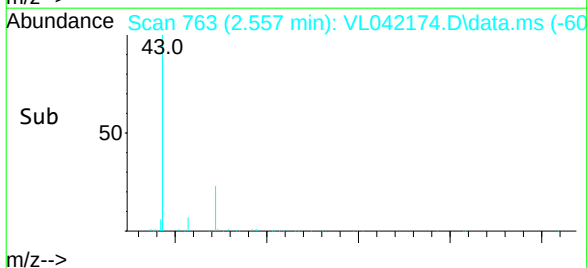
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

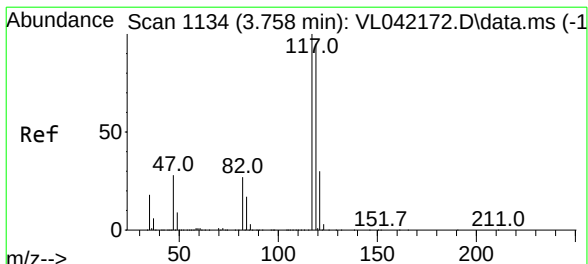


#34
2-Butanone
Concen: 1.063 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30



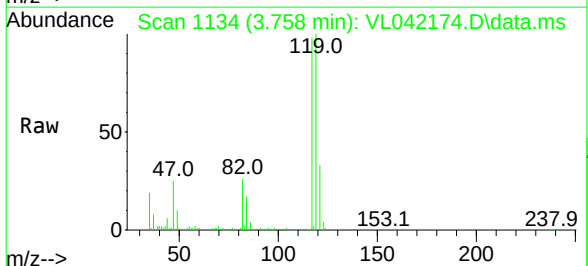
Tgt Ion: 43 Resp: 41423
Ion Ratio Lower Upper
43 100
72 23.5 18.2 27.2





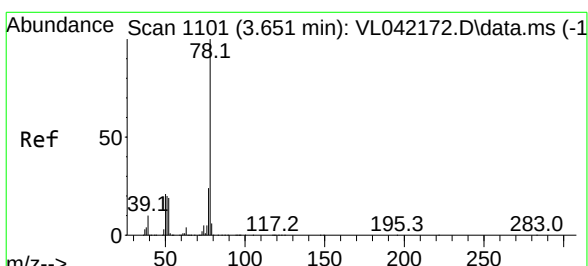
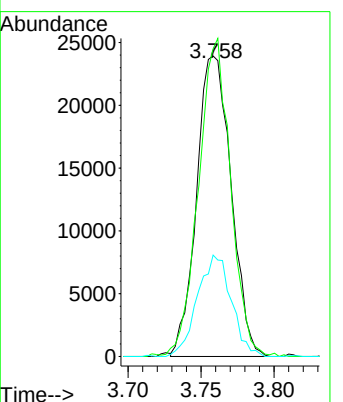
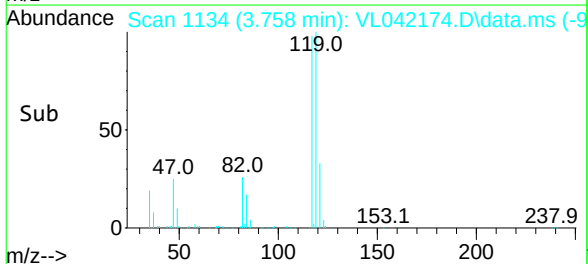
#35
Carbon Tetrachloride
Concen: 0.952 ppbv
RT: 3.758 min Scan# 1134
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Instrument : MSVOA_L
ClientSampleId : VSTDIC001

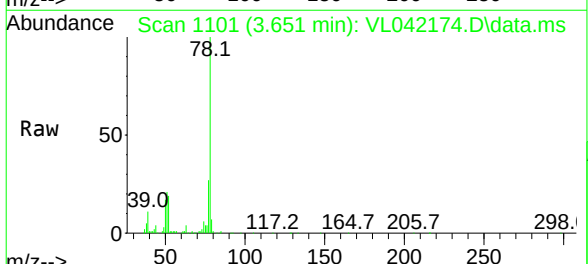


Tgt Ion:	117	Resp:	39345
Ion	Ratio	Lower	Upper
117	100		
119	101.8	76.2	114.2
121	33.7	24.2	36.4

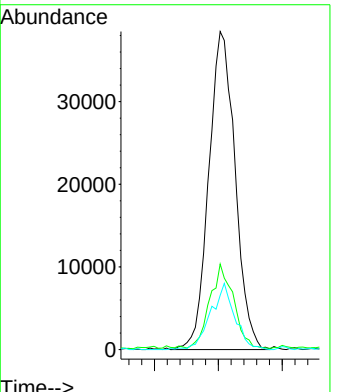
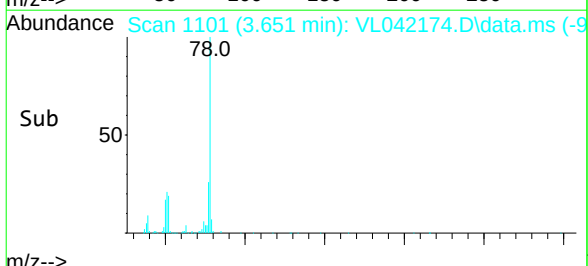
Manual Integrations
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Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

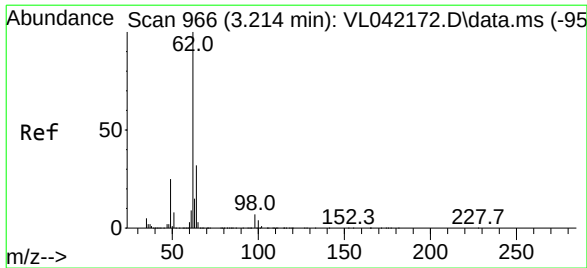


#36
Benzene
Concen: 1.036 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30



Tgt Ion:	78	Resp:	55156
Ion	Ratio	Lower	Upper
78	100		
77	26.5	19.1	28.7
50	17.1	16.6	24.8





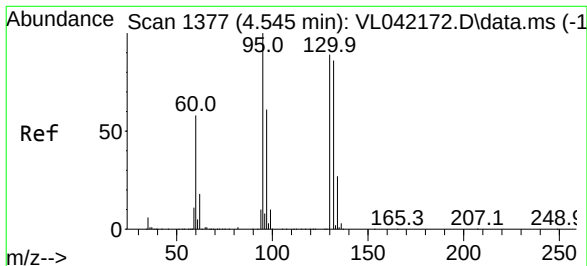
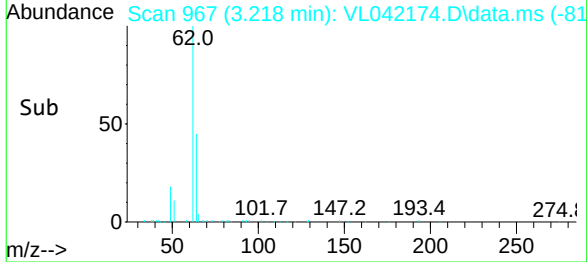
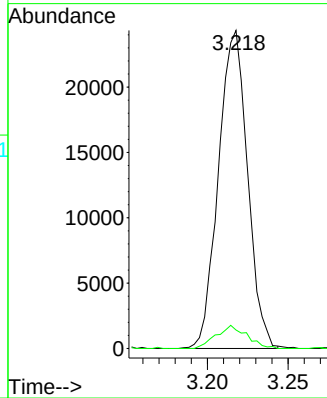
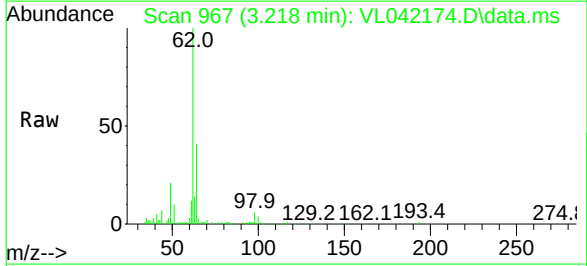
#37
1,2-Dichloroethane
Concen: 1.002 ppbv
RT: 3.218 min Scan# 966
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 62 Resp: 30543
Ion Ratio Lower Upper
62 100
98 7.6 5.4 8.2

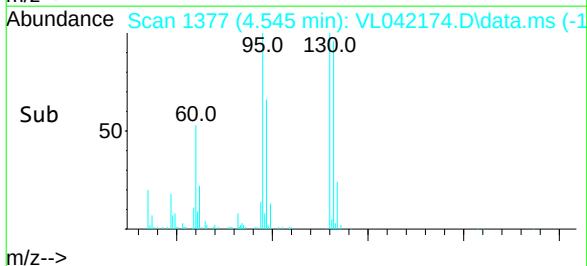
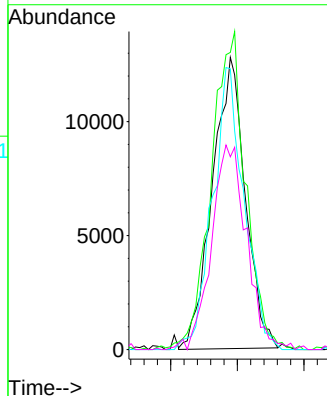
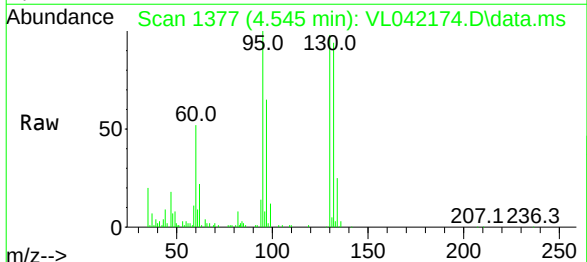
Manual Integrations
APPROVED

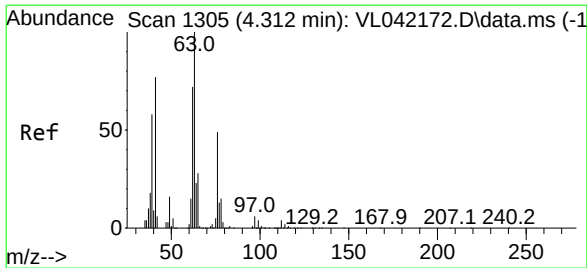
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#38
Trichloroethene
Concen: 0.985 ppbv
RT: 4.545 min Scan# 1377
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion:130 Resp: 21906
Ion Ratio Lower Upper
130 100
95 100.2 89.8 134.8
132 95.3 77.4 116.2
97 64.3 55.1 82.7





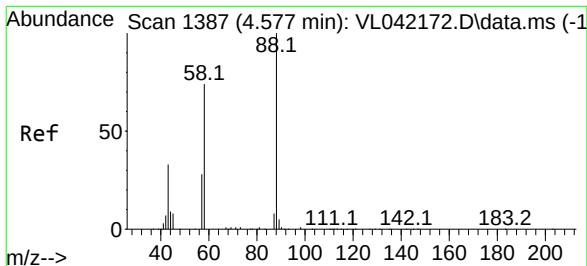
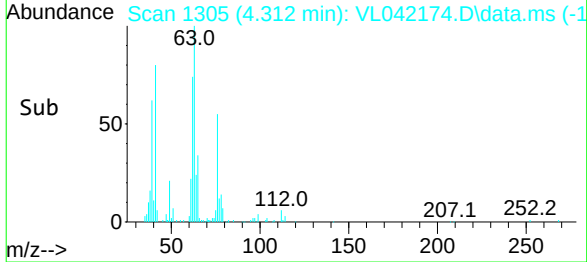
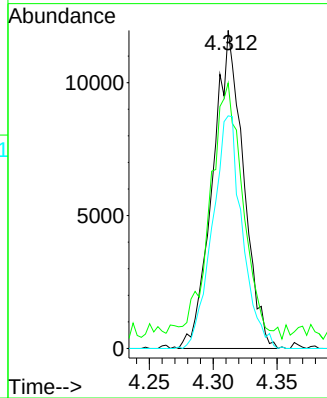
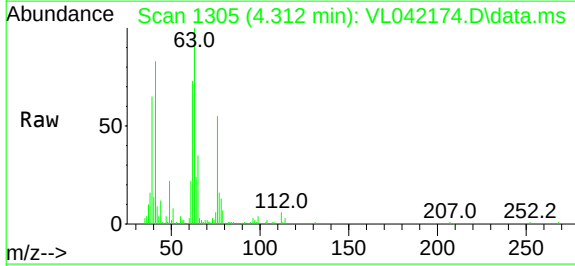
#39
1,2-Dichloropropane
Concen: 1.032 ppbv
RT: 4.312 min Scan# 1305
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 63	Resp: 20020
Ion Ratio	Lower Upper
63	100
41	76.8 61.7 92.5
62	73.1 57.6 86.4

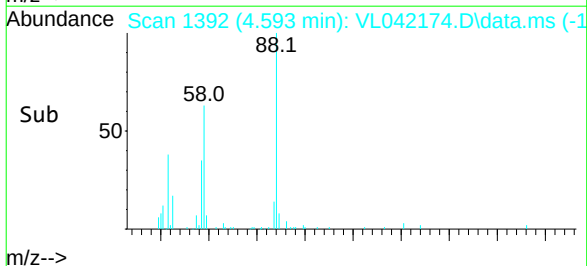
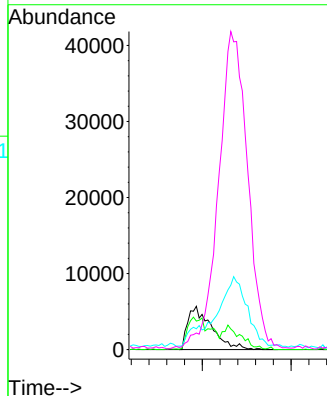
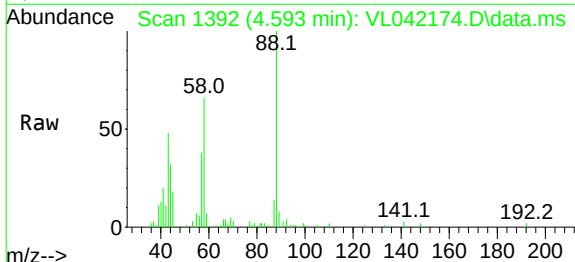
Manual Integrations
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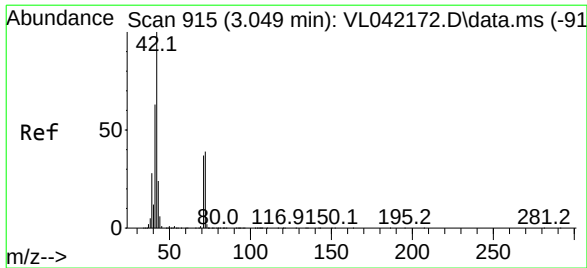
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#40
1,4-Dioxane
Concen: 1.052 ppbv m
RT: 4.593 min Scan# 1392
Delta R.T. 0.016 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 88	Resp: 10592
Ion Ratio	Lower Upper
88	100
58	115.3 62.7 94.1#
43	0.0 23.0 34.4#
57	0.0 0.0 0.0





#41

Tetrahydrofuran

Concen: 1.029 ppbv

RT: 3.056 min Scan# 91

Delta R.T. 0.007 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

Instrument :

MSVOA_L

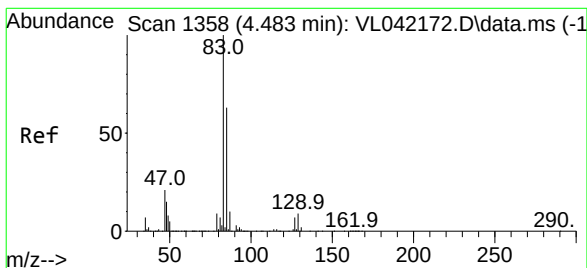
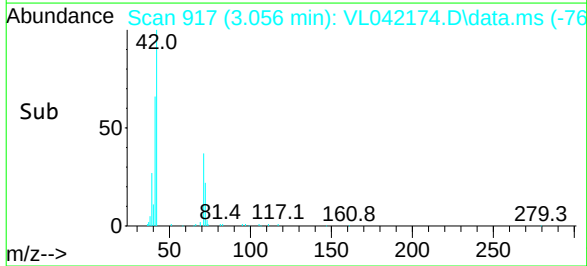
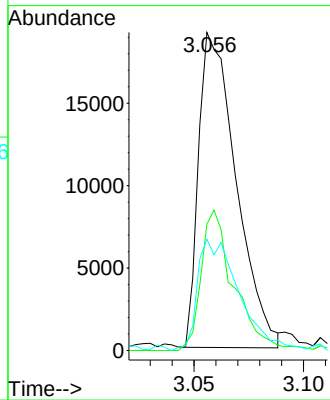
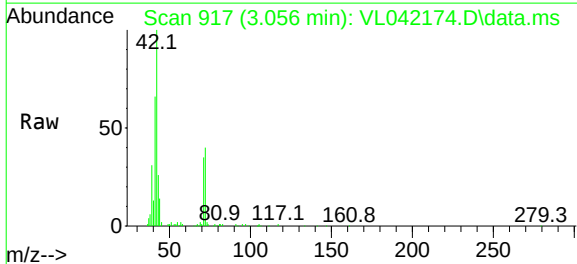
ClientSampleId :

VSTDICC001

Tgt Ion:	42	Resp:	22818
Ion	Ratio	Lower	Upper
42	100		
72	39.4	31.4	47.0
71	40.8	30.2	45.4

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#42

Bromodichloromethane

Concen: 0.996 ppbv

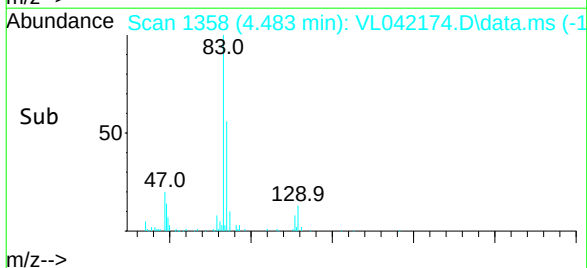
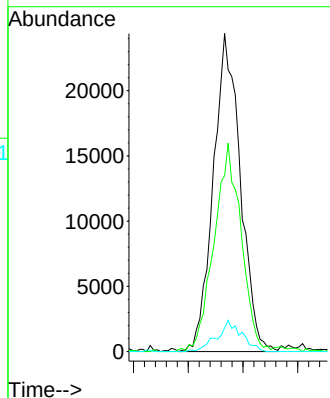
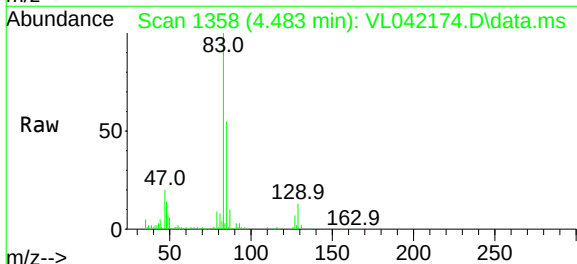
RT: 4.483 min Scan# 1358

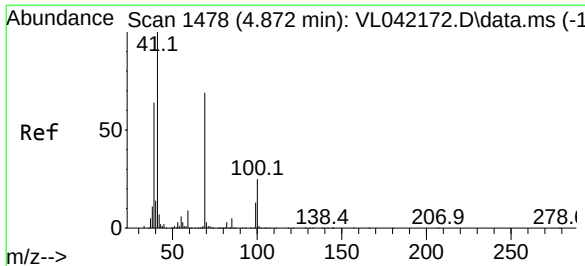
Delta R.T. 0.000 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

Tgt Ion:	83	Resp:	41864
Ion	Ratio	Lower	Upper
83	100		
85	54.7	50.5	75.7
127	7.5	5.9	8.9





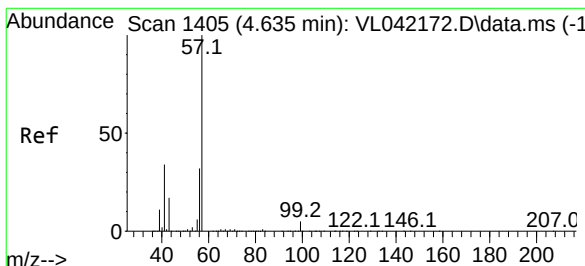
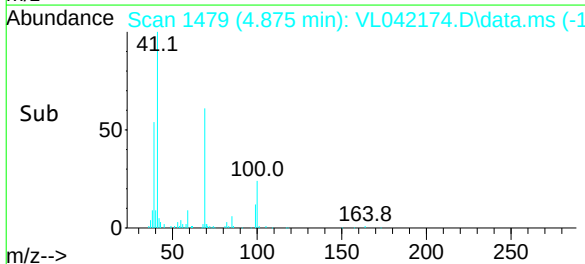
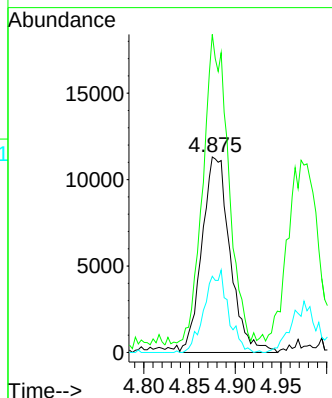
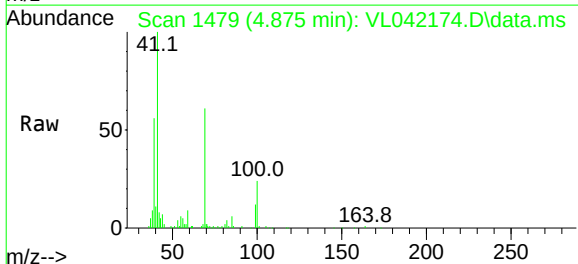
#43
Methyl Methacrylate
Concen: 1.078 ppbv m
RT: 4.875 min Scan# 1478
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 69 Resp: 24233
Ion Ratio Lower Upper
69 100
41 146.1 123.8 185.6
100 0.0 28.4 42.6#

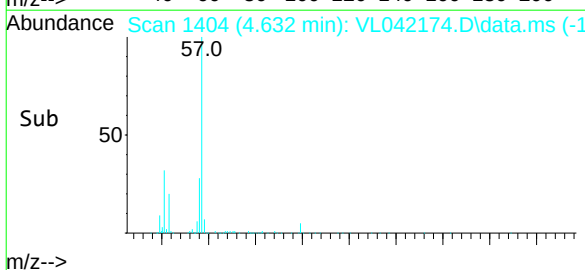
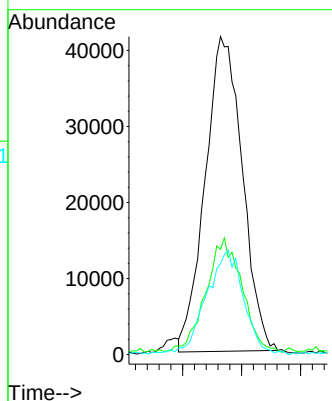
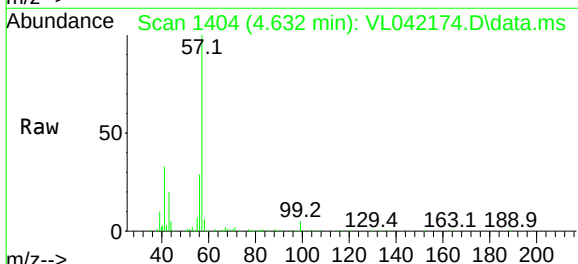
Manual Integrations
APPROVED

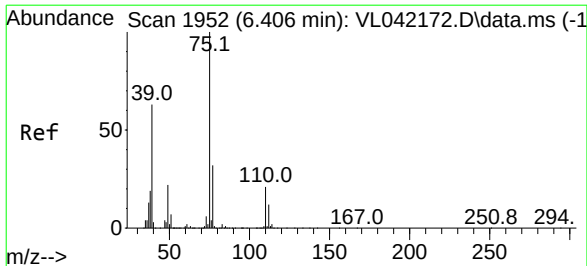
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#44
2,2,4-Trimethylpentane
Concen: 1.008 ppbv
RT: 4.632 min Scan# 1404
Delta R.T. -0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 57 Resp: 90727
Ion Ratio Lower Upper
57 100
41 35.9 26.8 40.2
56 33.7 25.6 38.4





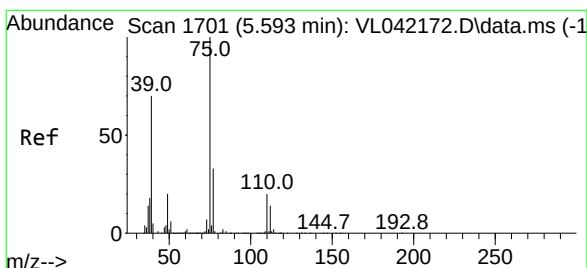
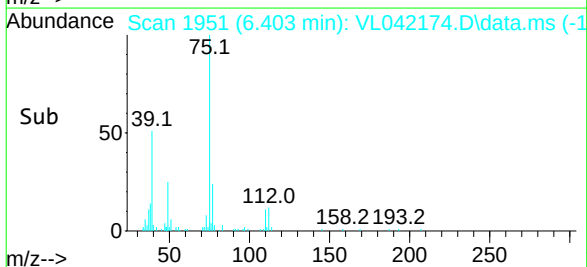
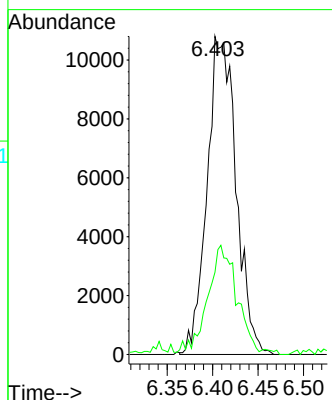
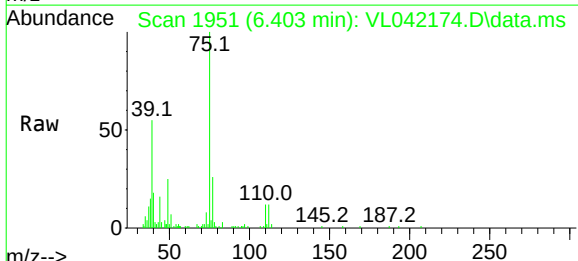
#45
t-1,3-Dichloropropene
Concen: 0.992 ppbv m
RT: 6.403 min Scan# 1952
Delta R.T. -0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 75 Resp: 23993
Ion Ratio Lower Upper
75 100
77 25.9 26.0 39.0

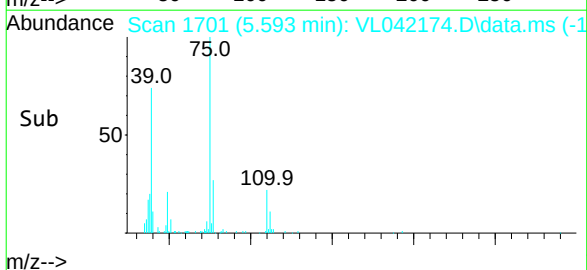
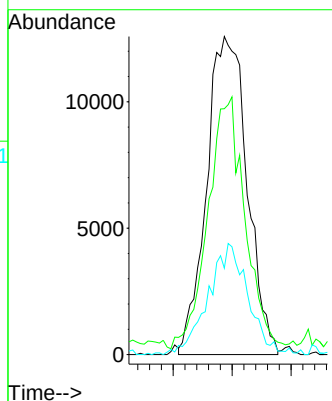
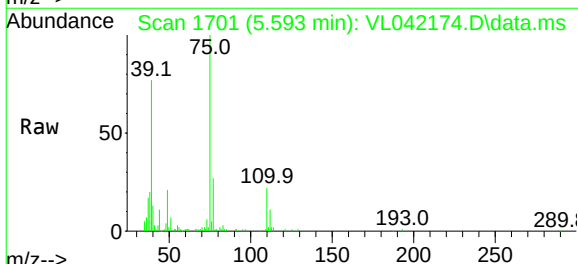
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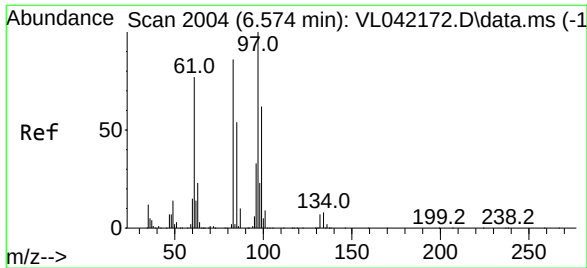
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#46
cis-1,3-Dichloropropene
Concen: 1.014 ppbv
RT: 5.593 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 75 Resp: 30063
Ion Ratio Lower Upper
75 100
39 74.2 55.8 83.6
77 26.4 26.0 39.0





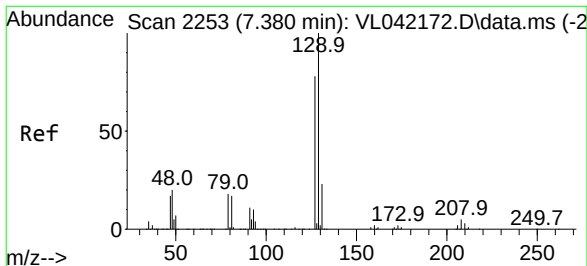
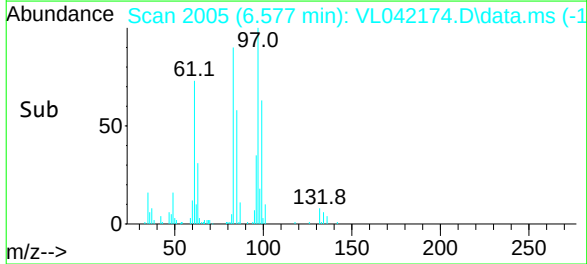
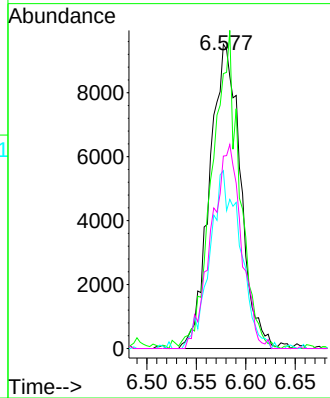
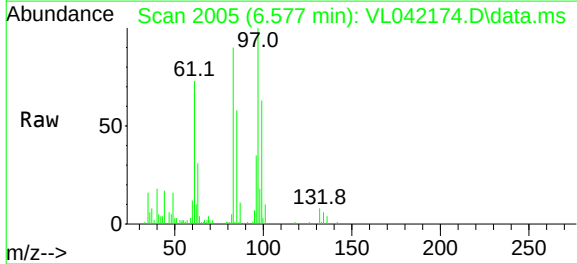
#47
1,1,2-Trichloroethane
Concen: 1.002 ppbv
RT: 6.577 min Scan# 20546
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion	Ratio	Lower	Upper
97	100		
83	89.7	69.2	103.8
85	58.4	43.1	64.7
99	63.2	49.4	74.2

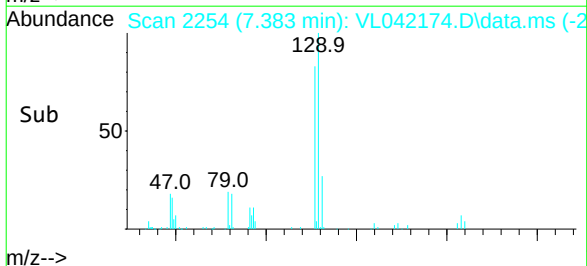
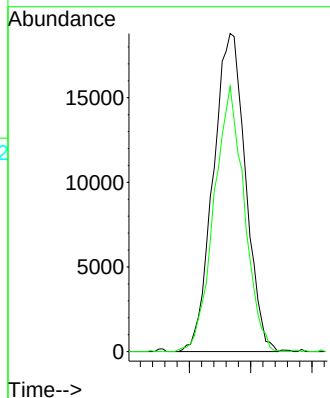
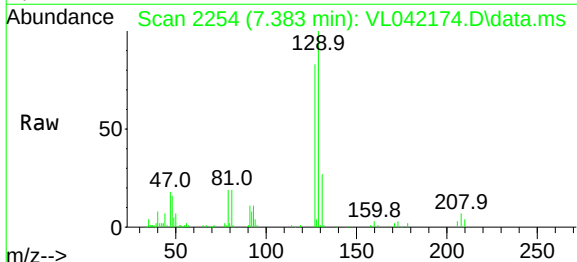
Manual Integrations
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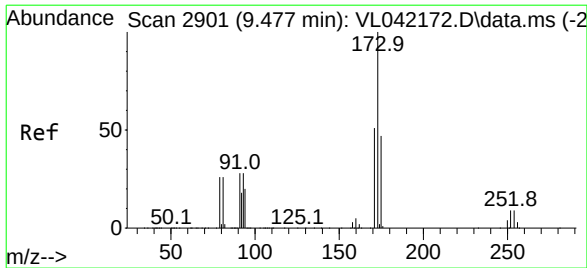
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#48
Dibromochloromethane
Concen: 0.991 ppbv
RT: 7.383 min Scan# 2254
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.1	39.1	117.2





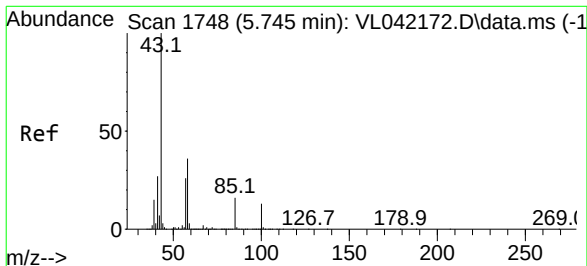
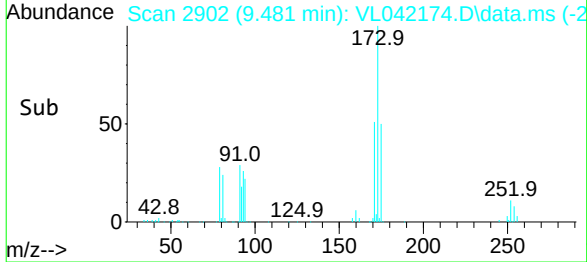
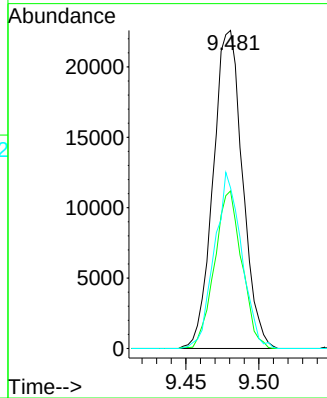
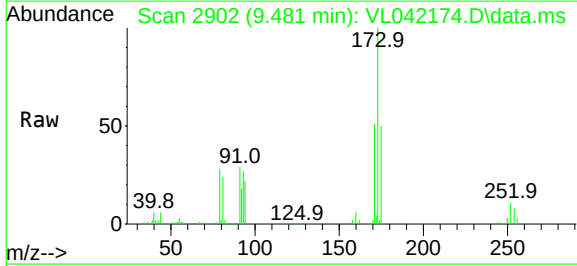
#49
Bromoform
Concen: 1.013 ppbv
RT: 9.481 min Scan# 2901
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 173 Resp: 31610
Ion Ratio Lower Upper
173 100
175 46.1 38.6 57.8
171 51.3 41.8 62.6

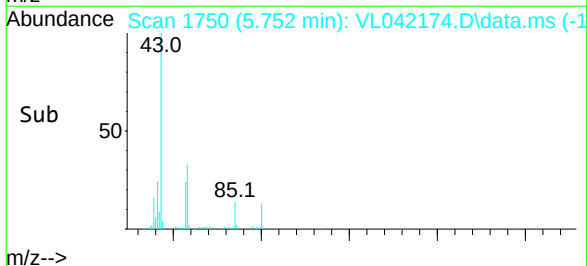
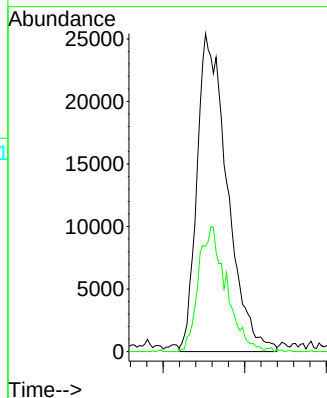
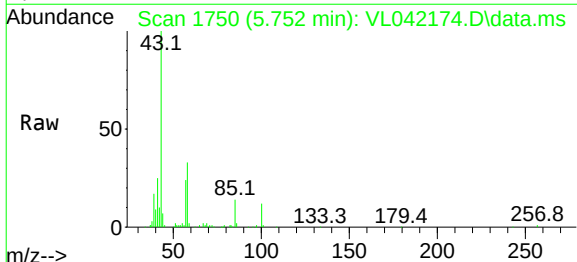
Manual Integrations
APPROVED

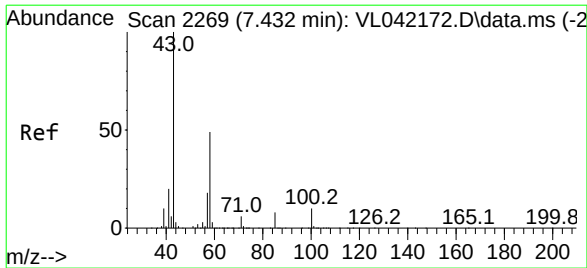
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#50
4-Methyl-2-Pentanone
Concen: 1.056 ppbv m
RT: 5.752 min Scan# 1750
Delta R.T. 0.007 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

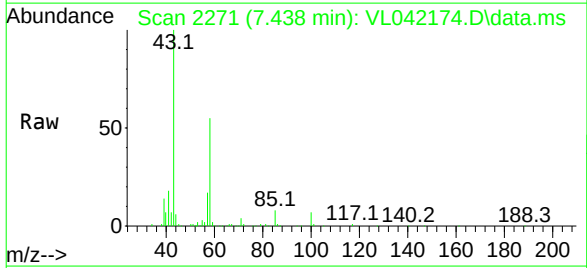
Tgt Ion: 43 Resp: 65226
Ion Ratio Lower Upper
43 100
58 0.0 29.0 43.6#





#51
2-Hexanone
Concen: 1.067 ppbv
RT: 7.438 min Scan# 2269
Delta R.T. 0.007 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

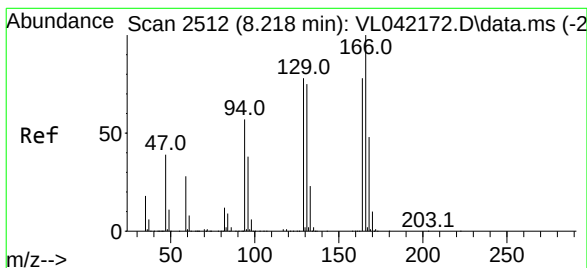
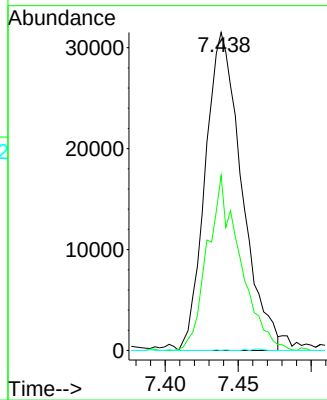
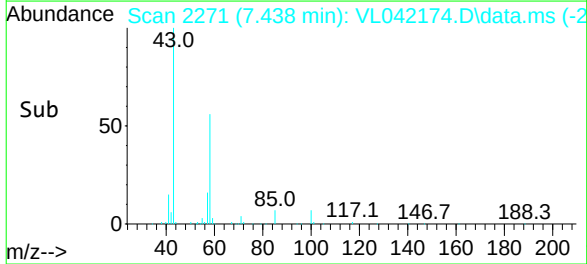
Instrument : MSVOA_L
ClientSampleId : VSTDICC001



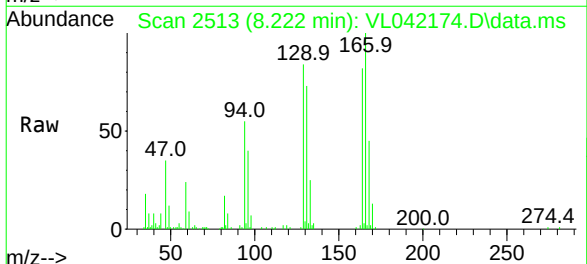
Tgt Ion: 43 Resp: 54680
Ion Ratio Lower Upper
43 100
58 49.8 39.7 59.5
98 0.2 0.1 0.1

Manual Integrations
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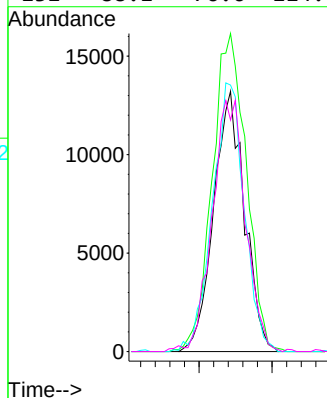
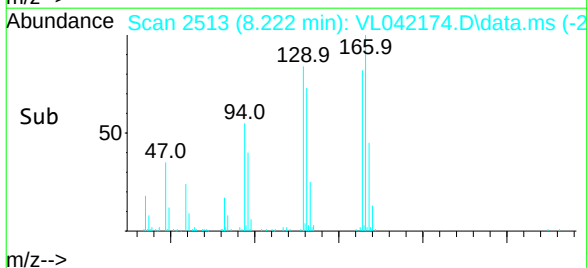
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

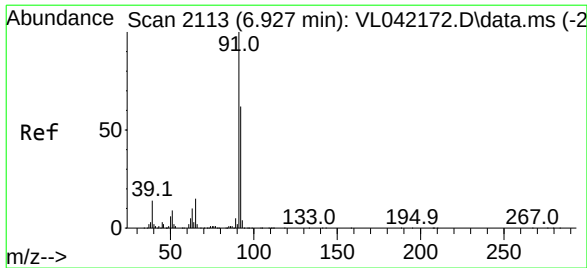


#52
Tetrachloroethene
Concen: 0.919 ppbv
RT: 8.222 min Scan# 2513
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30



Tgt Ion:164 Resp: 19415
Ion Ratio Lower Upper
164 100
166 121.4 102.5 153.7
129 102.4 79.8 119.8
131 88.1 76.6 114.8





#53

Toluene

Concen: 1.023 ppbv

RT: 6.927 min Scan# 2113

Delta R.T. 0.000 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC001

Tgt Ion: 91 Resp: 64612

Ion Ratio Lower Upper

91 100

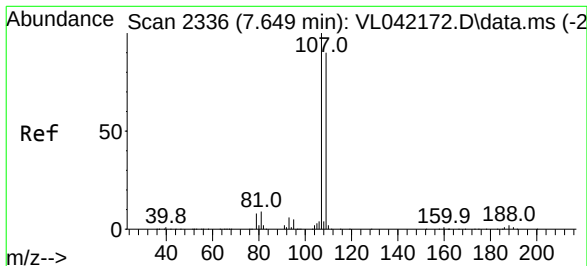
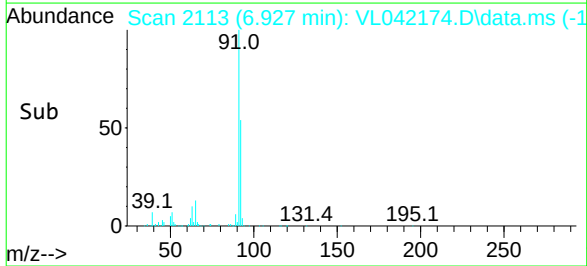
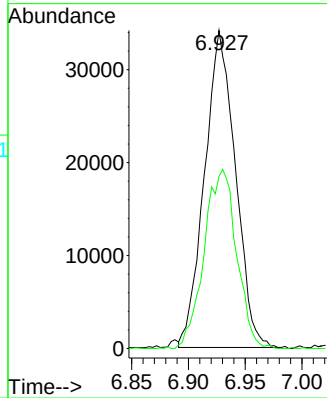
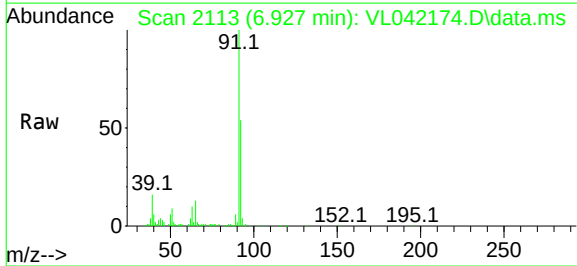
92 59.4 48.4 72.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025

Supervised By :Mahesh Dadoda 04/03/2025



#54

1,2-Dibromoethane

Concen: 1.009 ppbv

RT: 7.652 min Scan# 2337

Delta R.T. 0.003 min

Lab File: VL042174.D

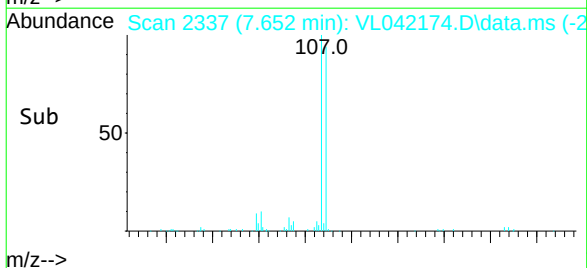
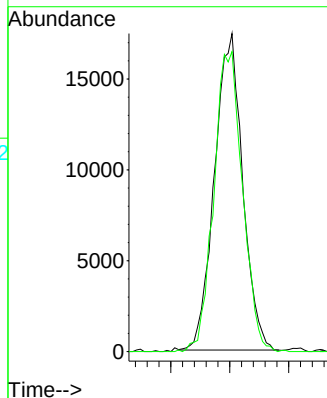
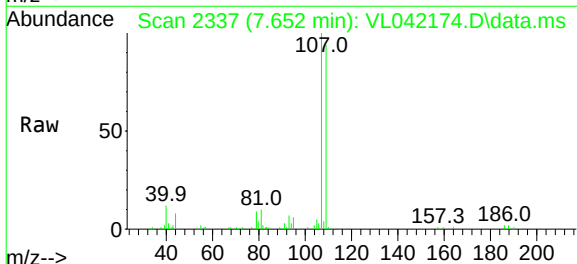
Acq: 27 Mar 2025 09:30

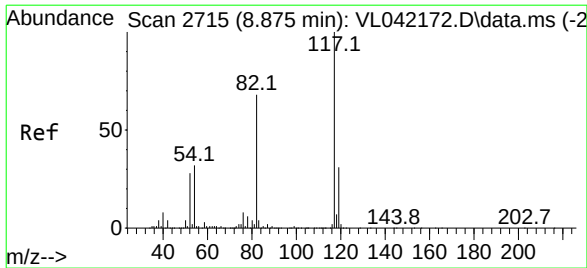
Tgt Ion:107 Resp: 28879

Ion Ratio Lower Upper

107 100

109 94.8 72.2 108.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.879 min Scan# 2715

Delta R.T. 0.003 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

Instrument :

MSVOA_L

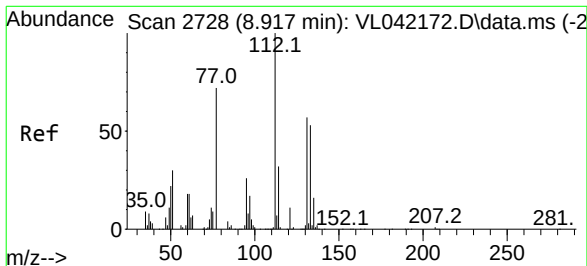
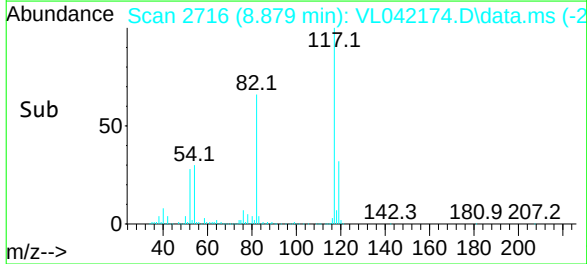
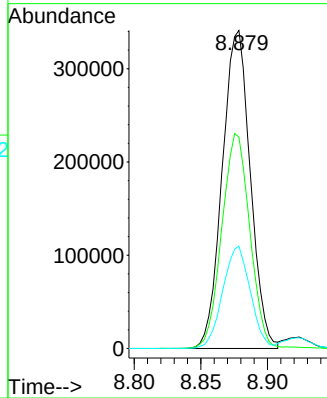
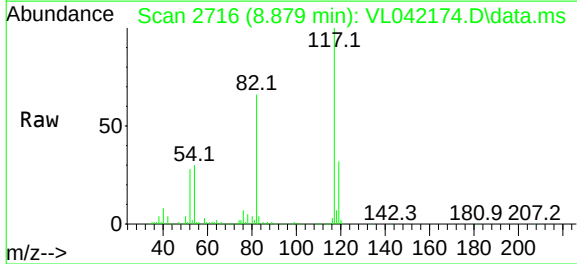
ClientSampleId :

VSTDICC001

Tgt Ion:	117	Resp:	499830
Ion	Ratio	Lower	Upper
117	100		
82	67.6	55.8	83.6
119	32.2	25.5	38.3

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#56

1,1,1,2-Tetrachloroethane

Concen: 1.045 ppbv

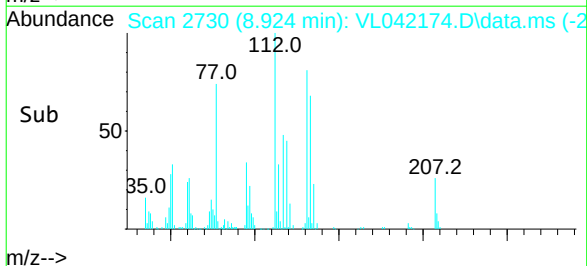
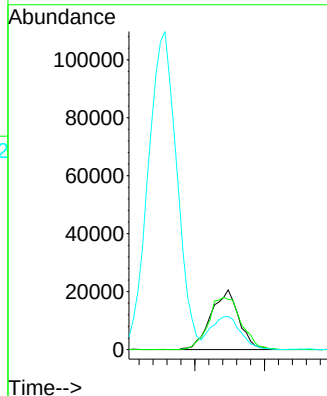
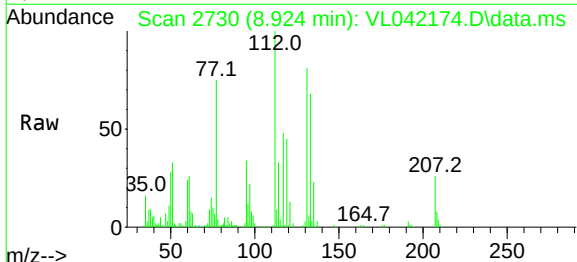
RT: 8.924 min Scan# 2730

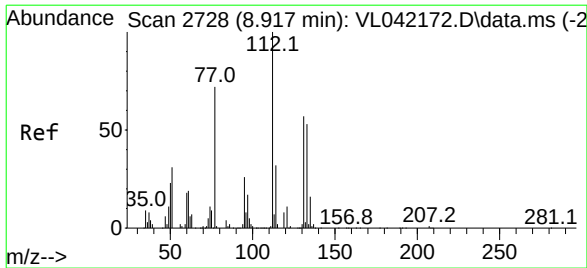
Delta R.T. 0.007 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

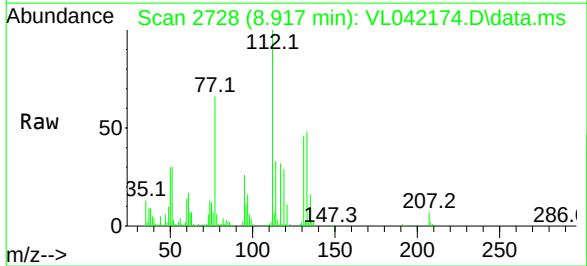
Tgt Ion:	131	Resp:	28764
Ion	Ratio	Lower	Upper
131	100		
133	101.7	76.6	114.8
119	44.1	49.8	74.6





#57
Chlorobenzene
Concen: 1.032 ppbv
RT: 8.917 min Scan# 2728
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

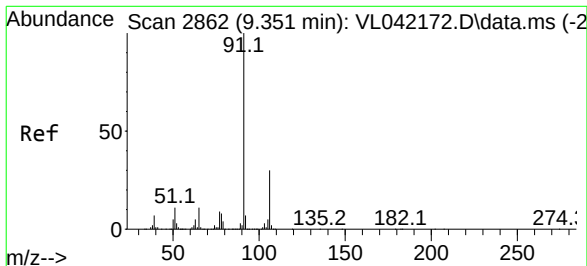
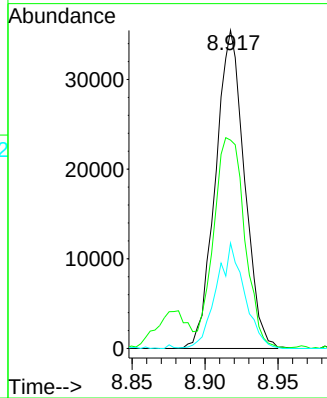
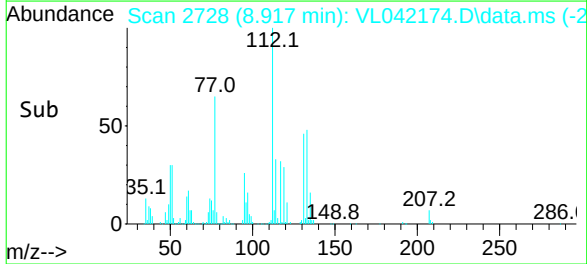
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



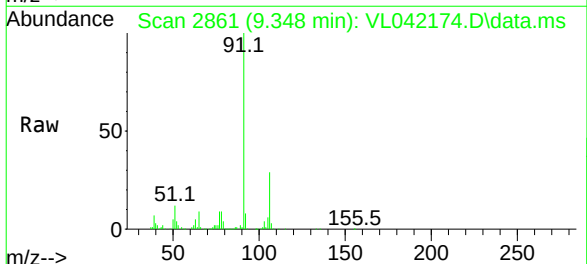
Tgt Ion: 112 Resp: 48936
Ion Ratio Lower Upper
112 100
77 65.0 58.2 87.2
114 32.9 29.1 35.5

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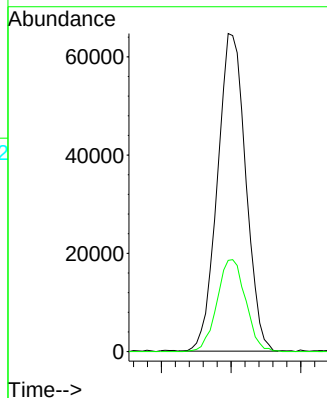
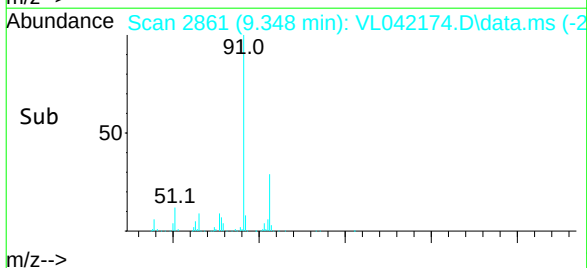
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

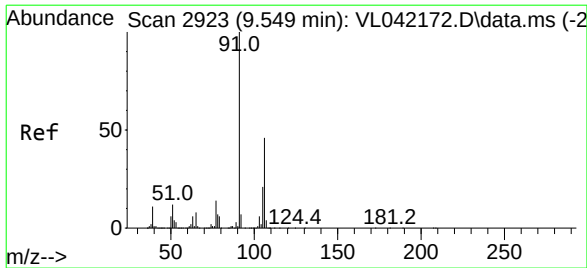


#58
Ethyl Benzene
Concen: 1.026 ppbv
RT: 9.348 min Scan# 2861
Delta R.T. -0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30



Tgt Ion: 91 Resp: 91086
Ion Ratio Lower Upper
91 100
106 28.7 24.2 36.2





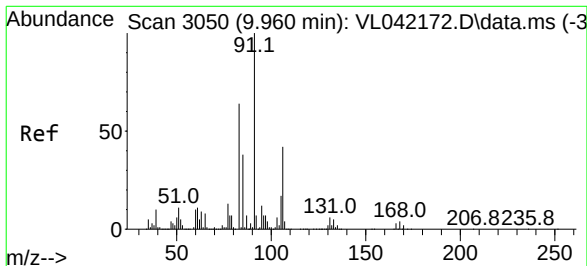
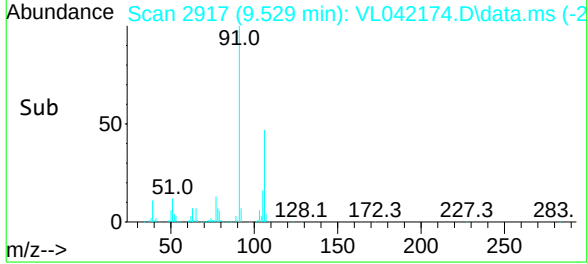
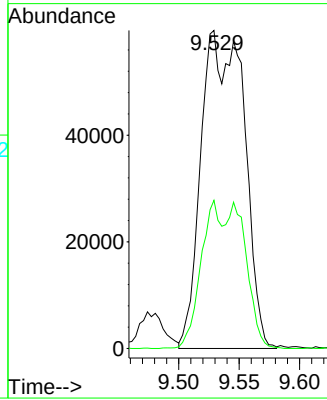
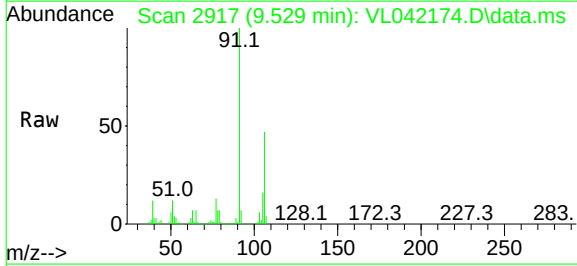
#59
m/p-Xylene
Concen: 2.073 ppbv m
RT: 9.529 min Scan# 2917
Delta R.T. -0.019 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 91 Resp: 147162
Ion Ratio Lower Upper
91 100
106 0.0 36.4 54.6#

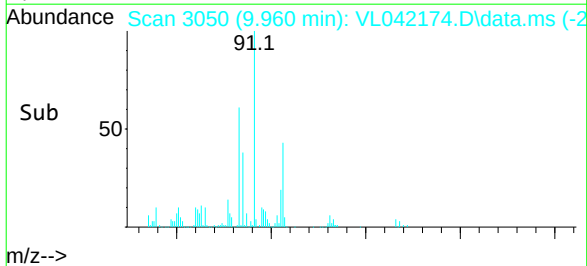
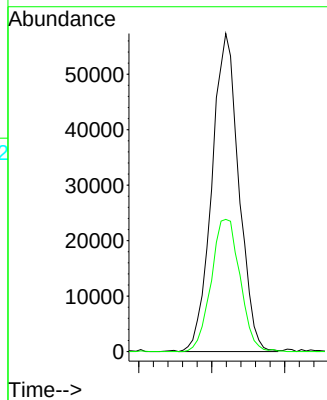
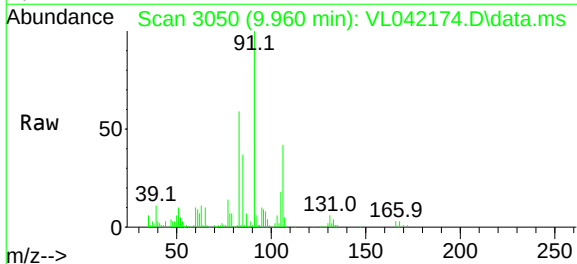
Manual Integrations
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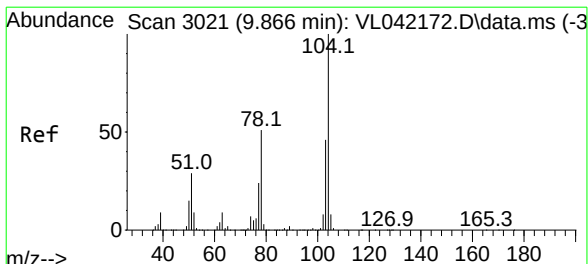
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#60
o-Xylene
Concen: 1.037 ppbv
RT: 9.960 min Scan# 3050
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

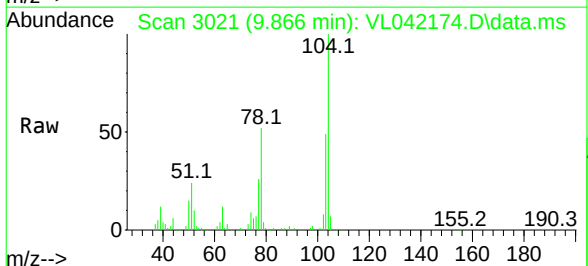
Tgt Ion: 91 Resp: 73702
Ion Ratio Lower Upper
91 100
106 44.3 20.8 62.5





#61
Styrene
 Concen: 1.027 ppbv
 RT: 9.866 min Scan# 3021
 Delta R.T. 0.000 min
 Lab File: VL042174.D
 Acq: 27 Mar 2025 09:30

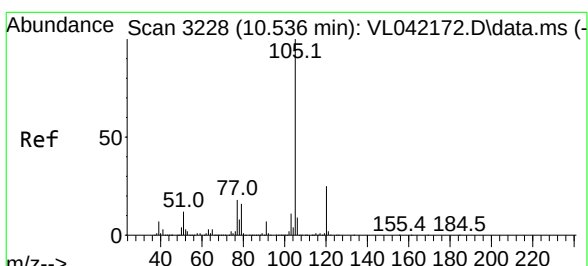
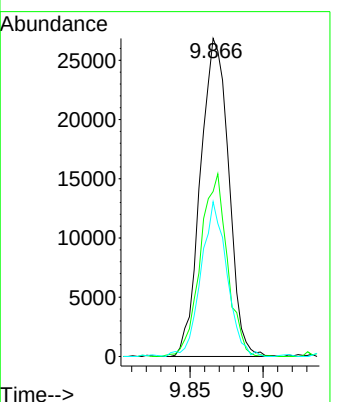
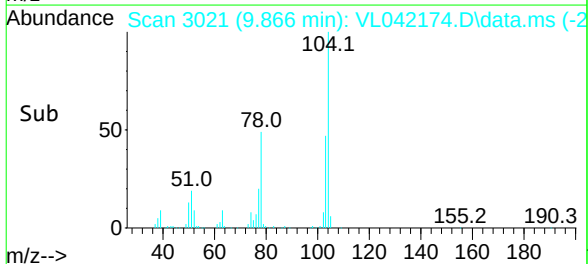
Instrument : MSVOA_1
ClientSampleId : VSTDICC001



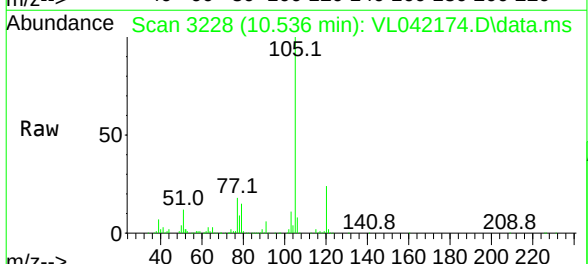
Tgt Ion: 104 Resp: 36110

Ion	Ratio	Lower	Upper
104	100		
78	54.9	41.8	62.6
103	45.1	37.0	55.4

Manual Integrations
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 Reviewed By : Semsettin Yesilyurt 03/31/2025
 Supervised By : Mahesh Dadoda 04/03/2025

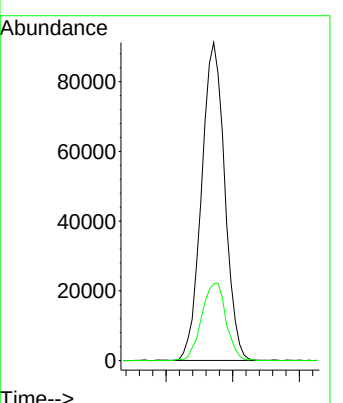
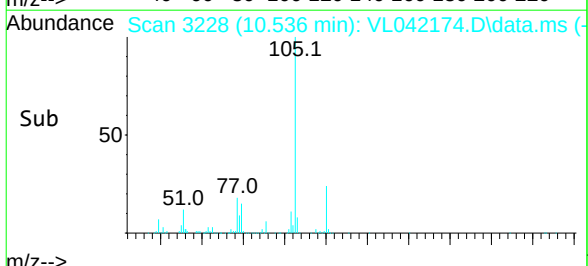


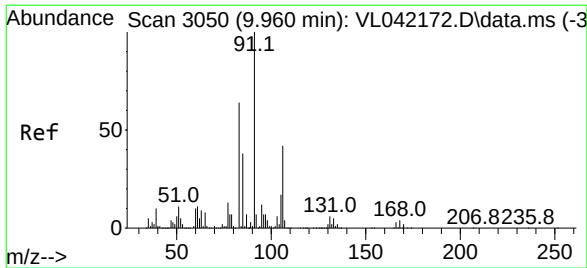
#62
Isopropylbenzene
 Concen: 1.034 ppbv
 RT: 10.536 min Scan# 3228
 Delta R.T. 0.000 min
 Lab File: VL042174.D
 Acq: 27 Mar 2025 09:30



Tgt Ion: 105 Resp: 109897

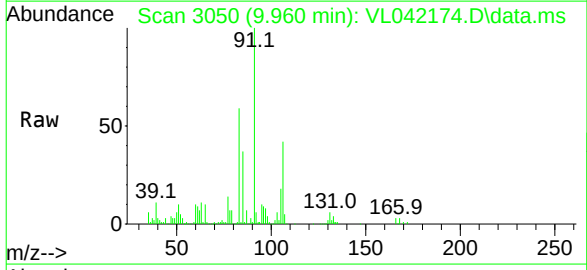
Ion	Ratio	Lower	Upper
105	100		
120	25.7	19.9	29.9





#63
1,1,2,2-Tetrachloroethane
Concen: 1.029 ppbv
RT: 9.960 min Scan# 3050
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

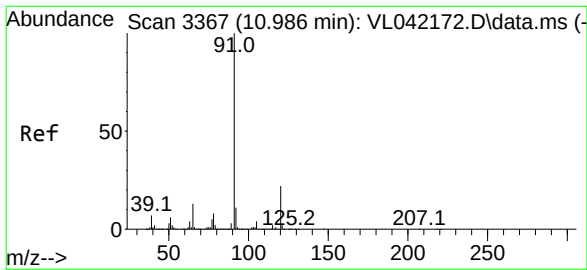
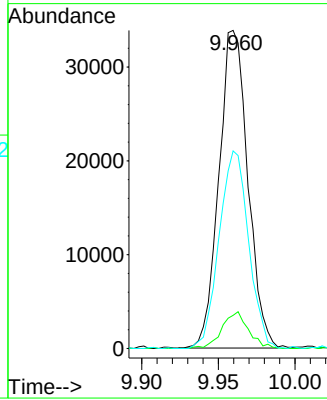
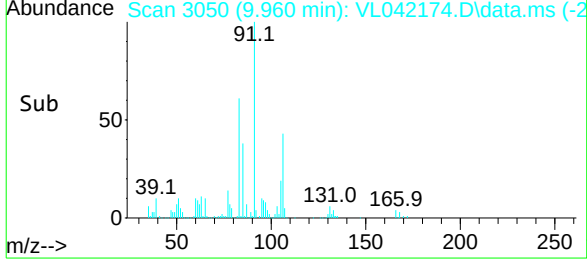
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



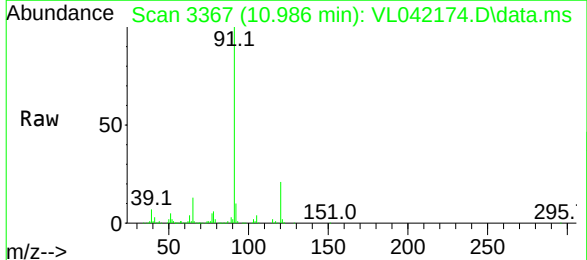
Tgt Ion: 83 Resp: 44431
Ion Ratio Lower Upper
83 100
131 10.6 4.8 14.4
85 64.0 32.5 97.5

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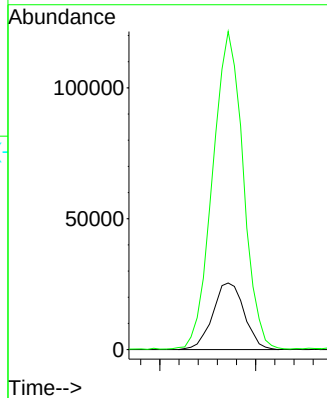
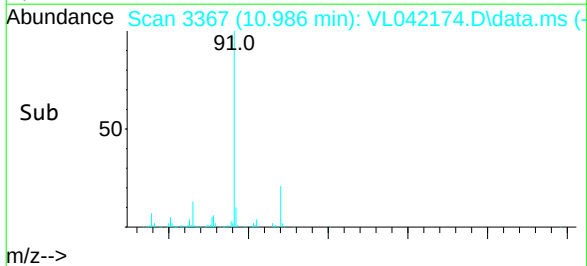
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

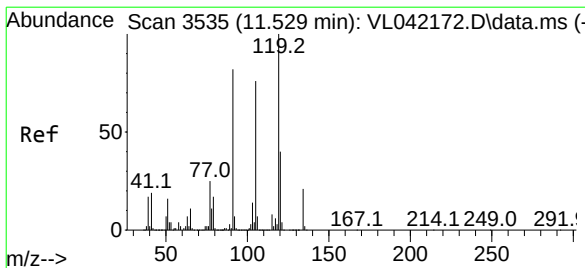


#64
n-propylbenzene
Concen: 1.062 ppbv
RT: 10.986 min Scan# 3367
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30



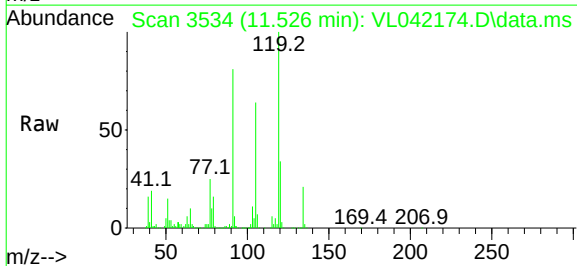
Tgt Ion:120 Resp: 29054
Ion Ratio Lower Upper
120 100
91 466.9 376.9 565.3





#65
tert-Butylbenzene
Concen: 1.053 ppbv
RT: 11.526 min Scan# 3535
Delta R.T. -0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

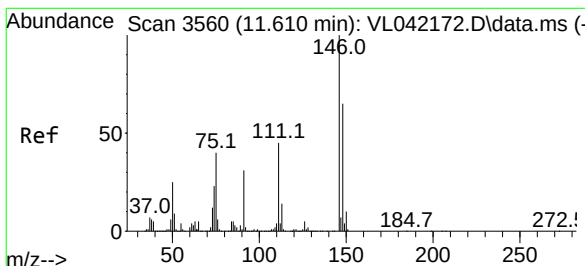
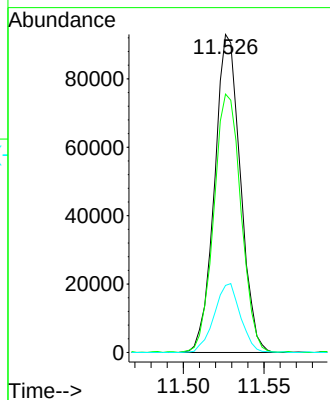
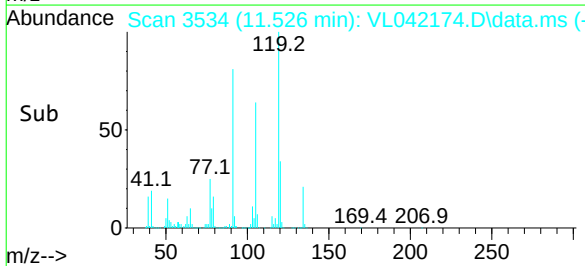
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



Tgt Ion: 119 Resp: 103520
Ion Ratio Lower Upper
119 100
91 85.9 66.0 99.0
134 22.1 16.7 25.1

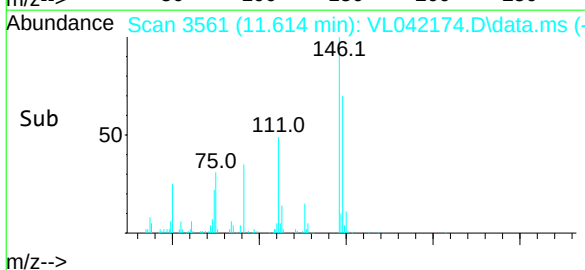
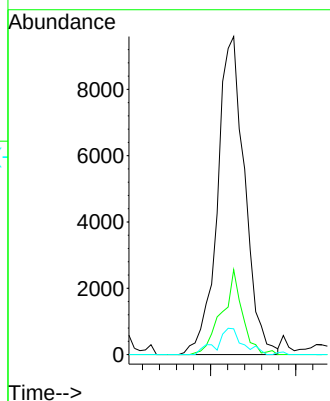
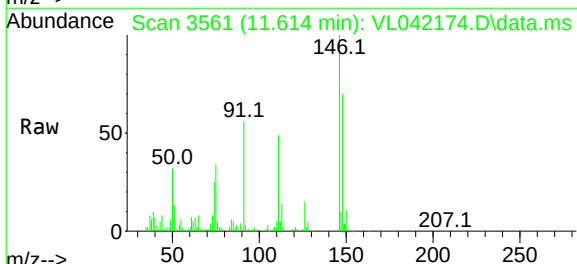
Manual Integrations
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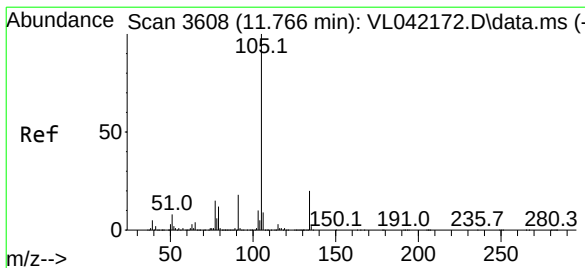
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#66
Benzyl Chloride
Concen: 1.022 ppbv
RT: 11.614 min Scan# 3561
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 91 Resp: 10660
Ion Ratio Lower Upper
91 100
126 20.0 13.8 20.6
128 8.0 4.5 6.7#





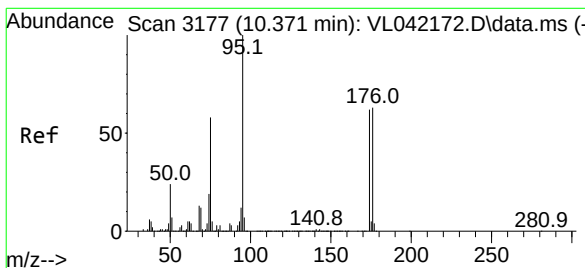
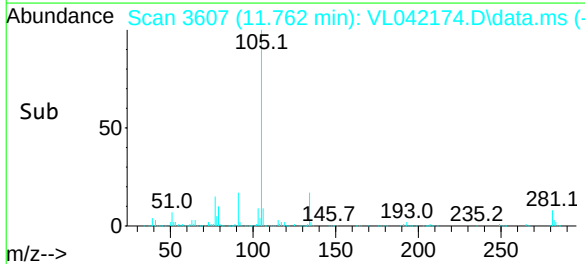
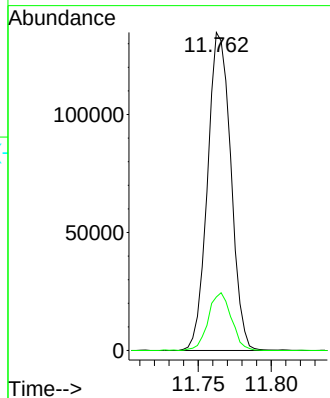
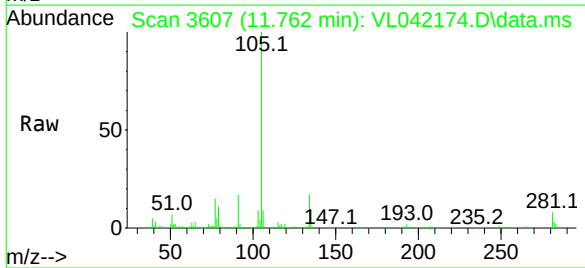
#67
sec-Butylbenzene
Concen: 1.095 ppbv
RT: 11.762 min Scan# 3608
Delta R.T. -0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 105 Resp: 149660
Ion Ratio Lower Upper
105 100
134 18.1 15.5 23.3

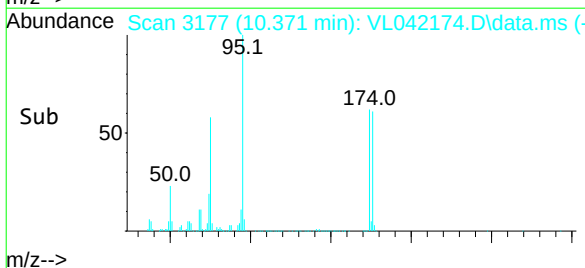
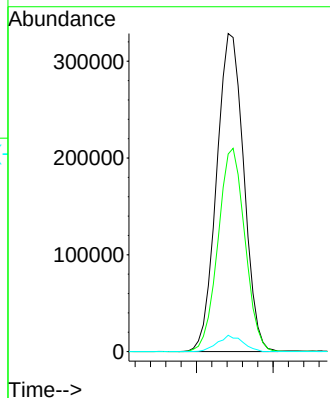
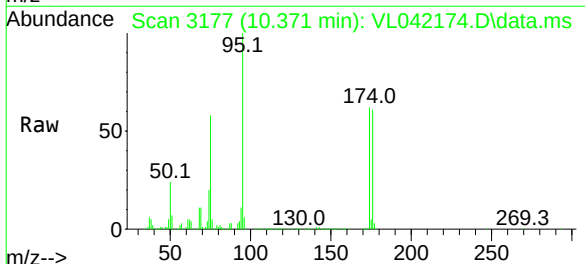
Manual Integrations
APPROVED

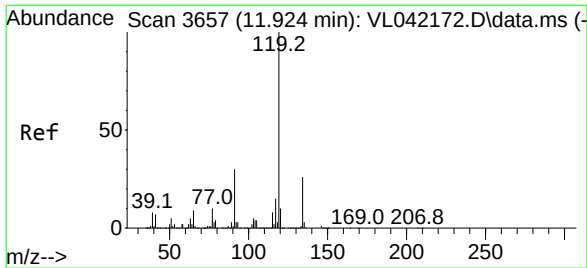
Reviewed By : Semsettin Yesilyurt 03/31/2025
Supervised By : Mahesh Dadoda 04/03/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 9.861 ppbv
RT: 10.371 min Scan# 3177
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 95 Resp: 404753
Ion Ratio Lower Upper
95 100
174 63.4 50.6 76.0
175 4.7 3.8 5.6





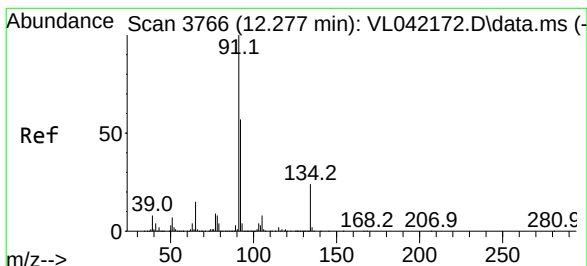
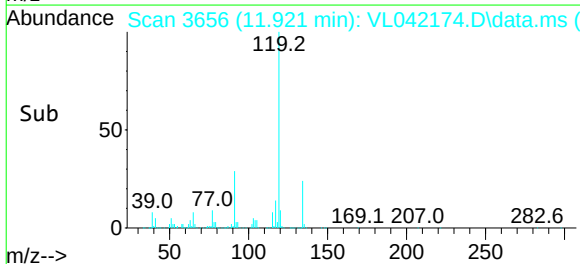
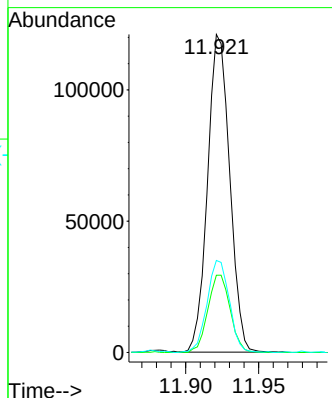
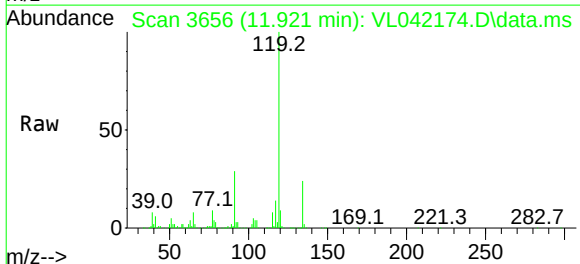
#69
p-Isopropyltoluene
Concen: 1.084 ppbv
RT: 11.921 min Scan# 3656
Delta R.T. -0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Instrument : MSVOA_L
ClientSampleId : VSTDIC001

Tgt Ion:	119	Resp:	127509
Ion	Ratio	Lower	Upper
119	100		
134	24.6	20.4	30.6
91	30.0	23.7	35.5

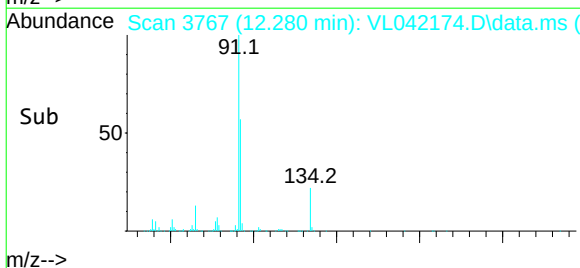
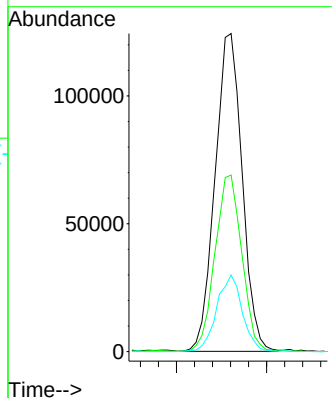
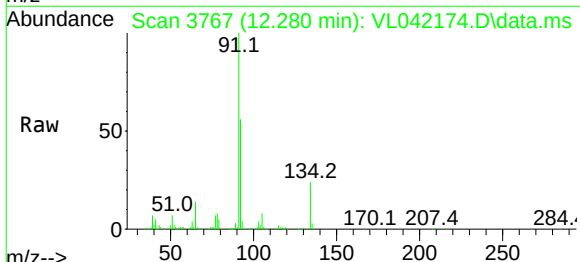
Manual Integrations
APPROVED

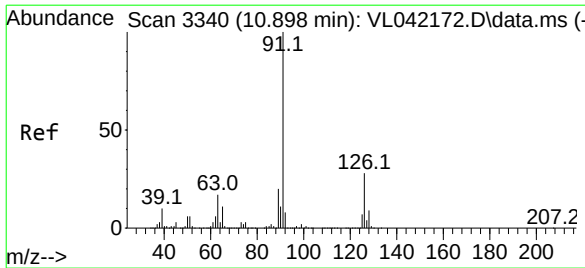
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#70
n-Butylbenzene
Concen: 1.079 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion:	91	Resp:	129860
Ion	Ratio	Lower	Upper
91	100		
92	55.5	44.9	67.3
134	22.8	19.2	28.8





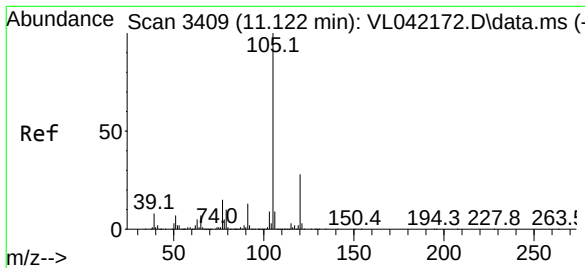
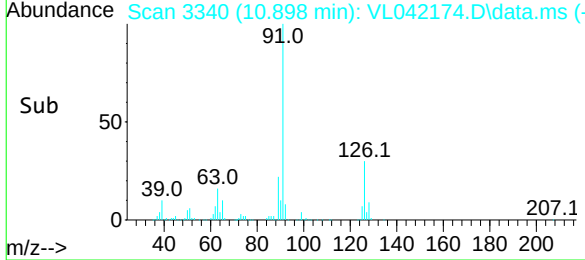
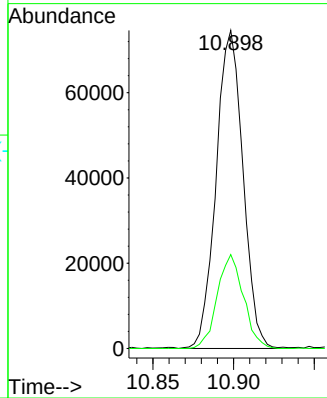
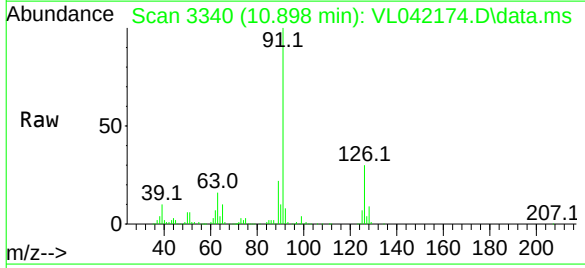
#71
2-Chlorotoluene
Concen: 1.047 ppbv
RT: 10.898 min Scan# 3340
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 91 Resp: 86356
Ion Ratio Lower Upper
91 100
126 28.8 11.6 46.4

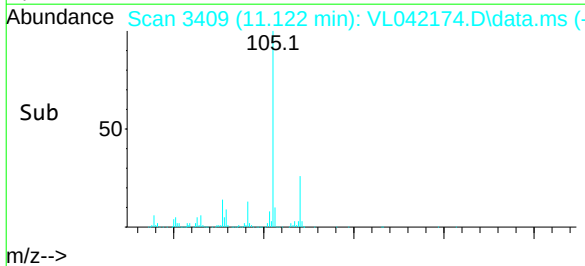
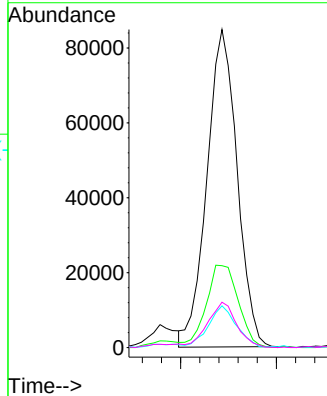
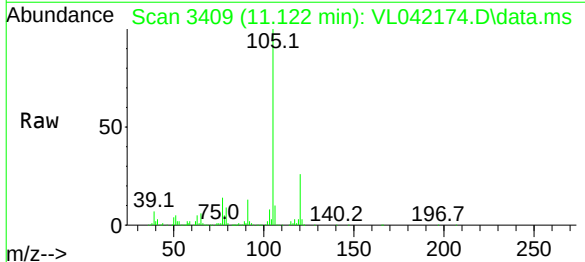
Manual Integrations
APPROVED

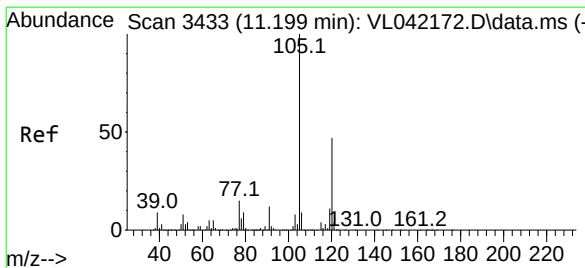
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#72
4-Ethyltoluene
Concen: 1.050 ppbv
RT: 11.122 min Scan# 3409
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion:105 Resp: 92912
Ion Ratio Lower Upper
105 100
120 29.7 23.4 35.0
91 13.5 10.3 15.5
77 15.1 11.4 17.2





#73

1,3,5-Trimethylbenzene

Concen: 1.080 ppbv

RT: 11.199 min Scan# 34

Delta R.T. 0.000 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC001

Tgt Ion:105 Resp: 83497

Ion Ratio Lower Upper

105 100

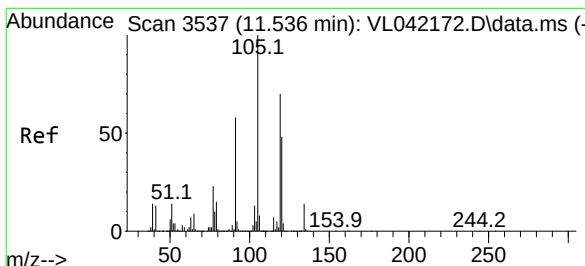
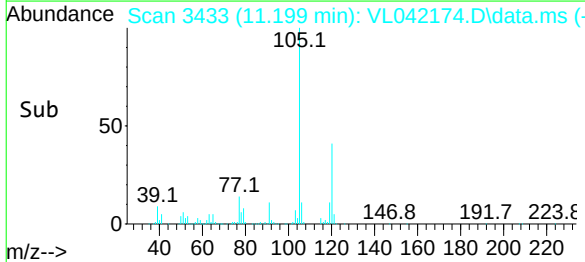
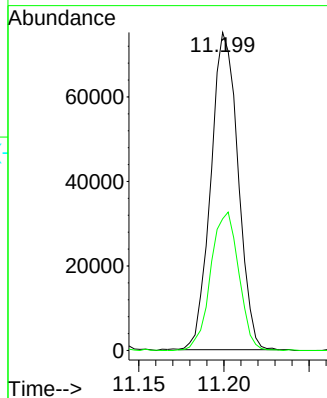
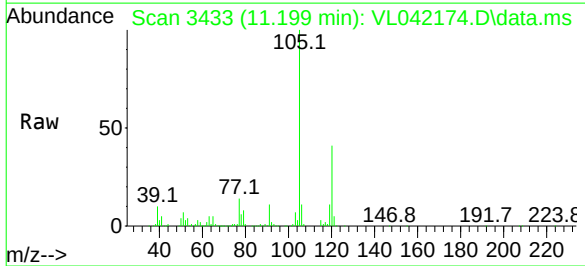
120 41.3 37.4 56.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025

Supervised By :Mahesh Dadoda 04/03/2025



#74

1,2,4-Trimethylbenzene

Concen: 1.099 ppbv

RT: 11.533 min Scan# 3536

Delta R.T. -0.003 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

Tgt Ion:105 Resp: 97858

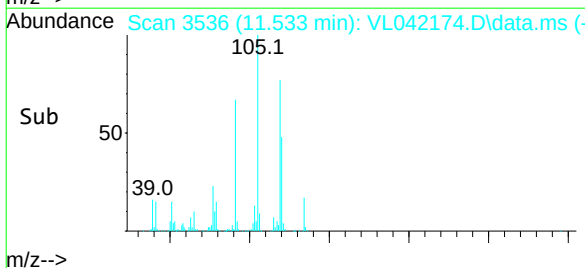
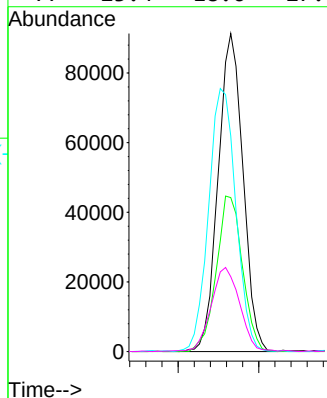
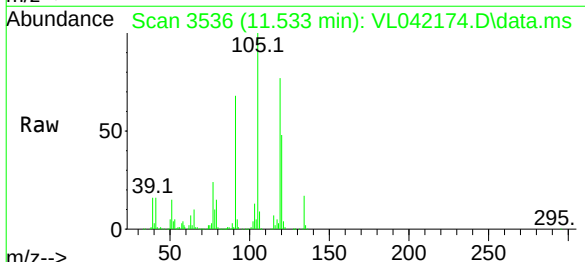
Ion Ratio Lower Upper

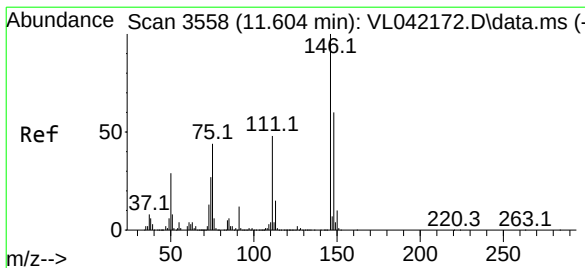
105 100

120 48.4 38.6 58.0

91 67.6 46.2 69.2

77 23.4 18.6 27.8





#75

1,3-Dichlorobenzene

Concen: 1.046 ppbv

RT: 11.604 min Scan# 3558

Delta R.T. 0.000 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

Instrument :

MSVOA_L

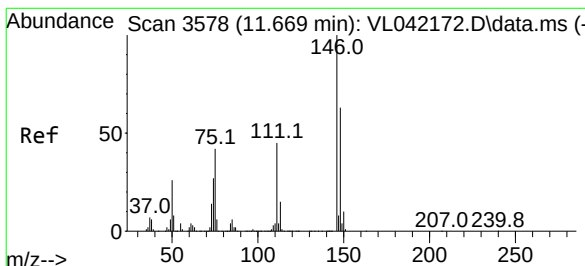
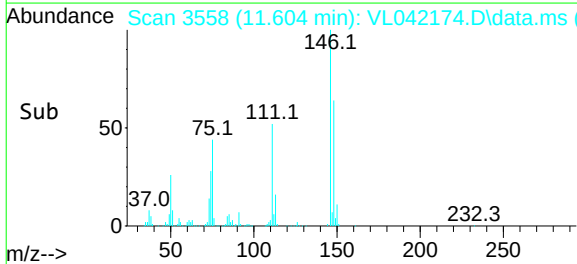
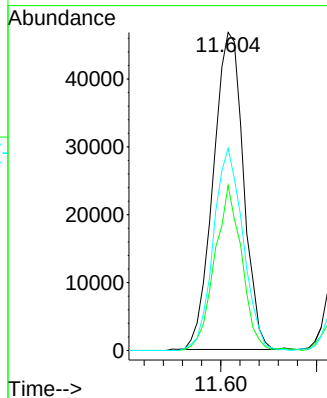
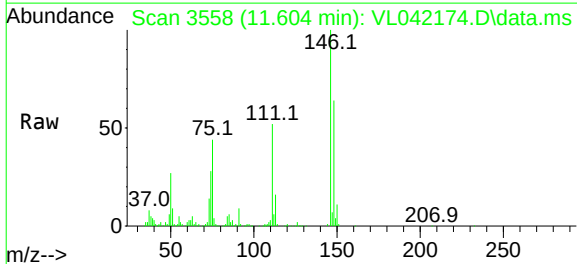
ClientSampleId :

VSTDIC001

Tgt Ion:	146	Resp:	51096
Ion Ratio	Lower	Upper	
146	100		
111	46.8	23.8	71.2
148	62.6	31.9	95.9

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#76

1,4-Dichlorobenzene

Concen: 1.046 ppbv

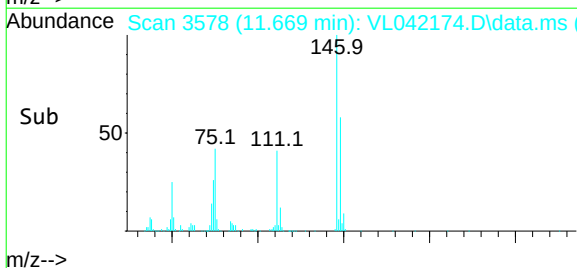
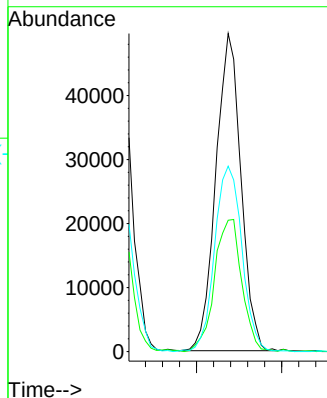
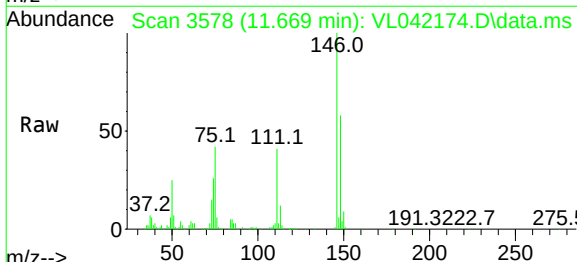
RT: 11.669 min Scan# 3578

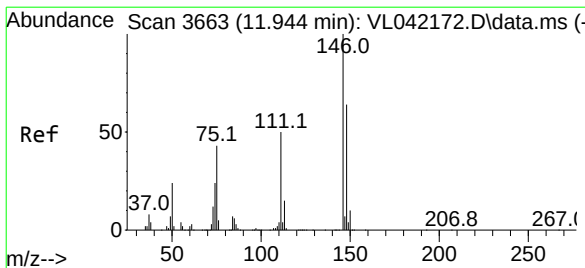
Delta R.T. 0.000 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

Tgt Ion:	146	Resp:	50841
Ion Ratio	Lower	Upper	
146	100		
111	45.4	23.0	69.0
148	63.6	31.9	95.7





#77

1,2-Dichlorobenzene

Concen: 1.084 ppbv

RT: 11.944 min Scan# 3663

Delta R.T. 0.000 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

Instrument :

MSVOA_L

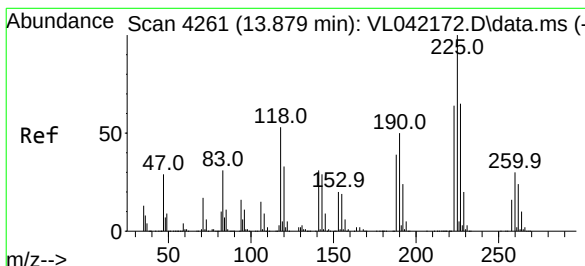
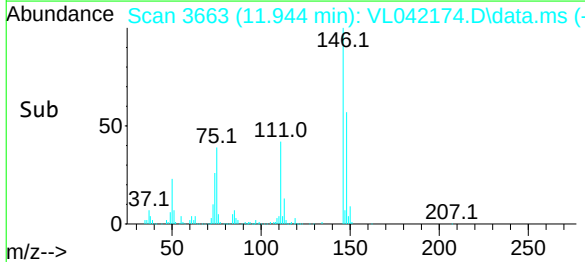
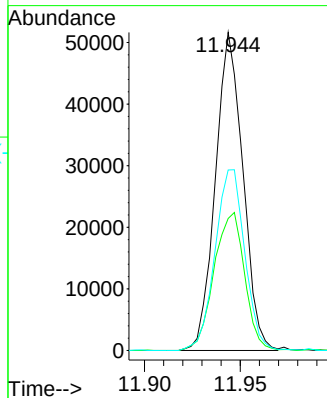
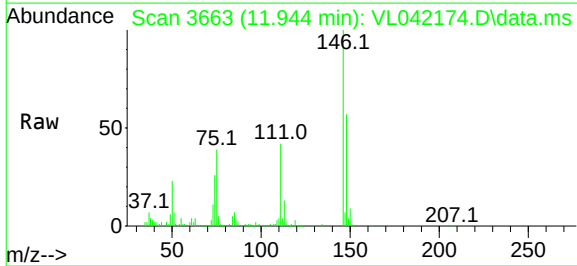
ClientSampleId :

VSTDIC001

Tgt Ion:	146	Resp:	51523
Ion Ratio	Lower	Upper	
146	100		
111	48.6	24.8	74.3
148	61.9	31.6	94.8

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#78

Hexachloro-1,3-Butadiene

Concen: 1.149 ppbv

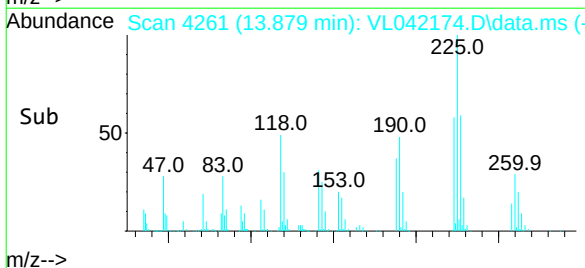
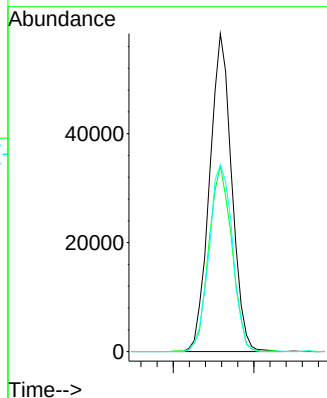
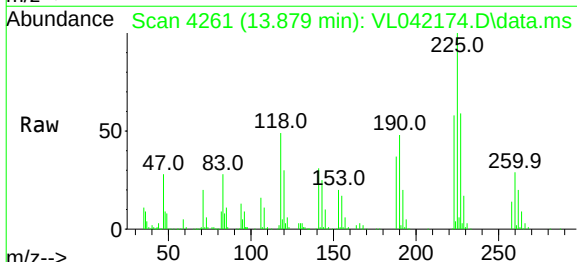
RT: 13.879 min Scan# 4261

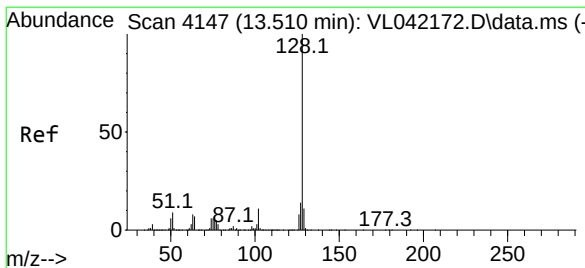
Delta R.T. 0.000 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

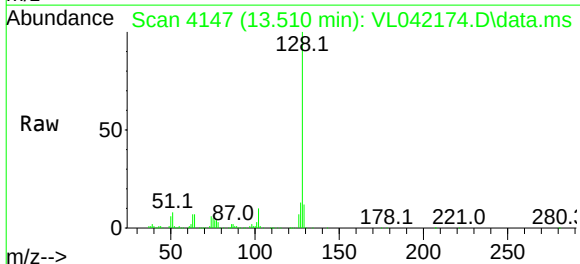
Tgt Ion:	225	Resp:	55611
Ion Ratio	Lower	Upper	
225	100		
223	60.8	50.6	76.0
227	62.3	51.2	76.8





#79
Naphthalene
Concen: 1.120 ppbv
RT: 13.510 min Scan# 4147
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

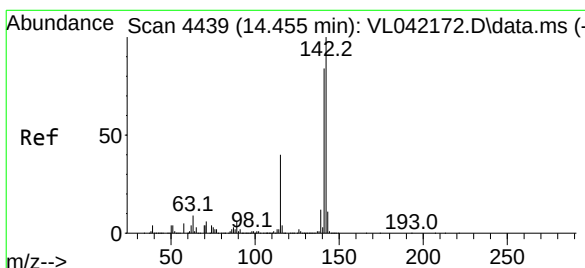
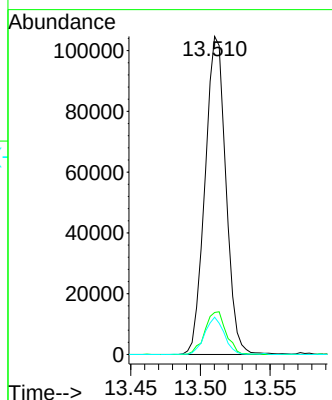
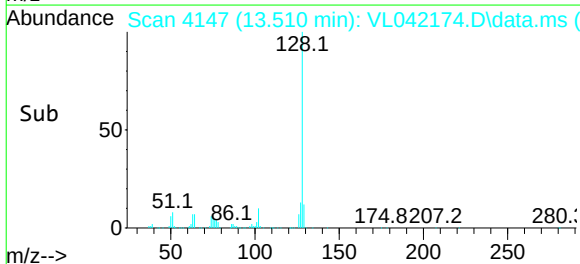
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



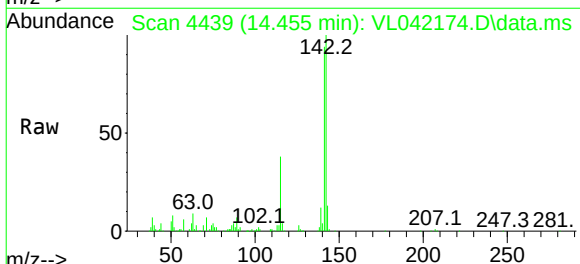
Tgt Ion:128 Resp: 109031
Ion Ratio Lower Upper
128 100
127 13.2 10.8 16.2
129 11.7 9.0 13.4

Manual Integrations
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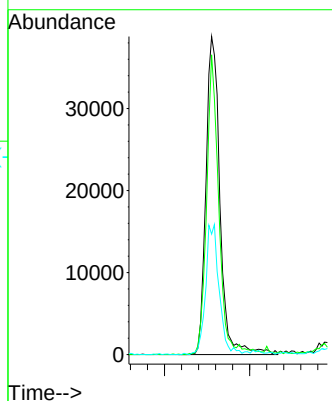
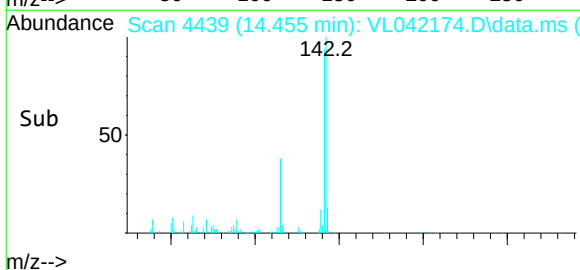
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

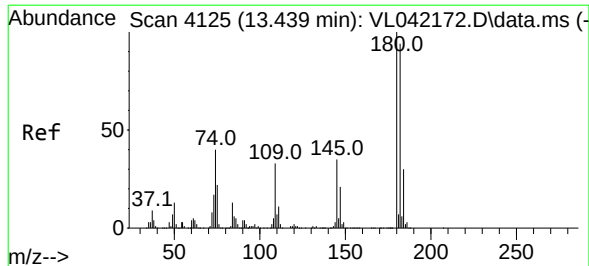


#80
Naphthalene, 2-methyl-
Concen: 0.939 ppbv
RT: 14.455 min Scan# 4439
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30



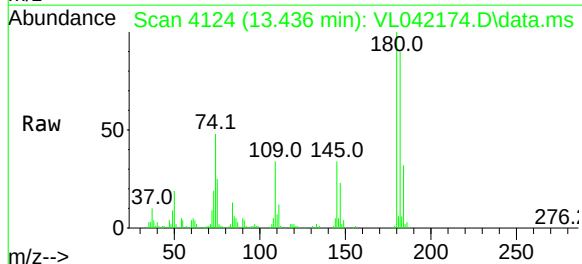
Tgt Ion:142 Resp: 44518
Ion Ratio Lower Upper
142 100
141 83.4 66.3 99.5
115 41.5 31.6 47.4





#81
1,2,4-Trichlorobenzene
Concen: 1.047 ppbv
RT: 13.436 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

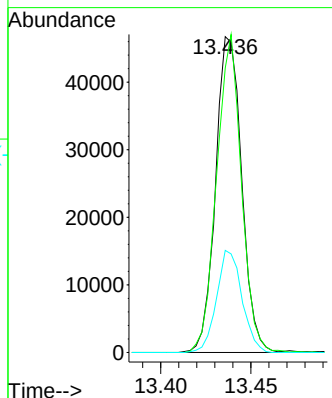
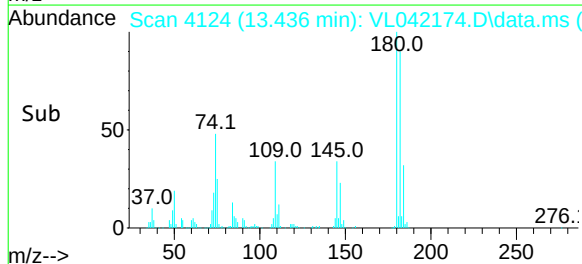
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



Tgt Ion:180 Resp: 47040
Ion Ratio Lower Upper
180 100
182 95.7 75.1 112.7
184 31.4 24.4 36.6

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 : 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

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

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	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

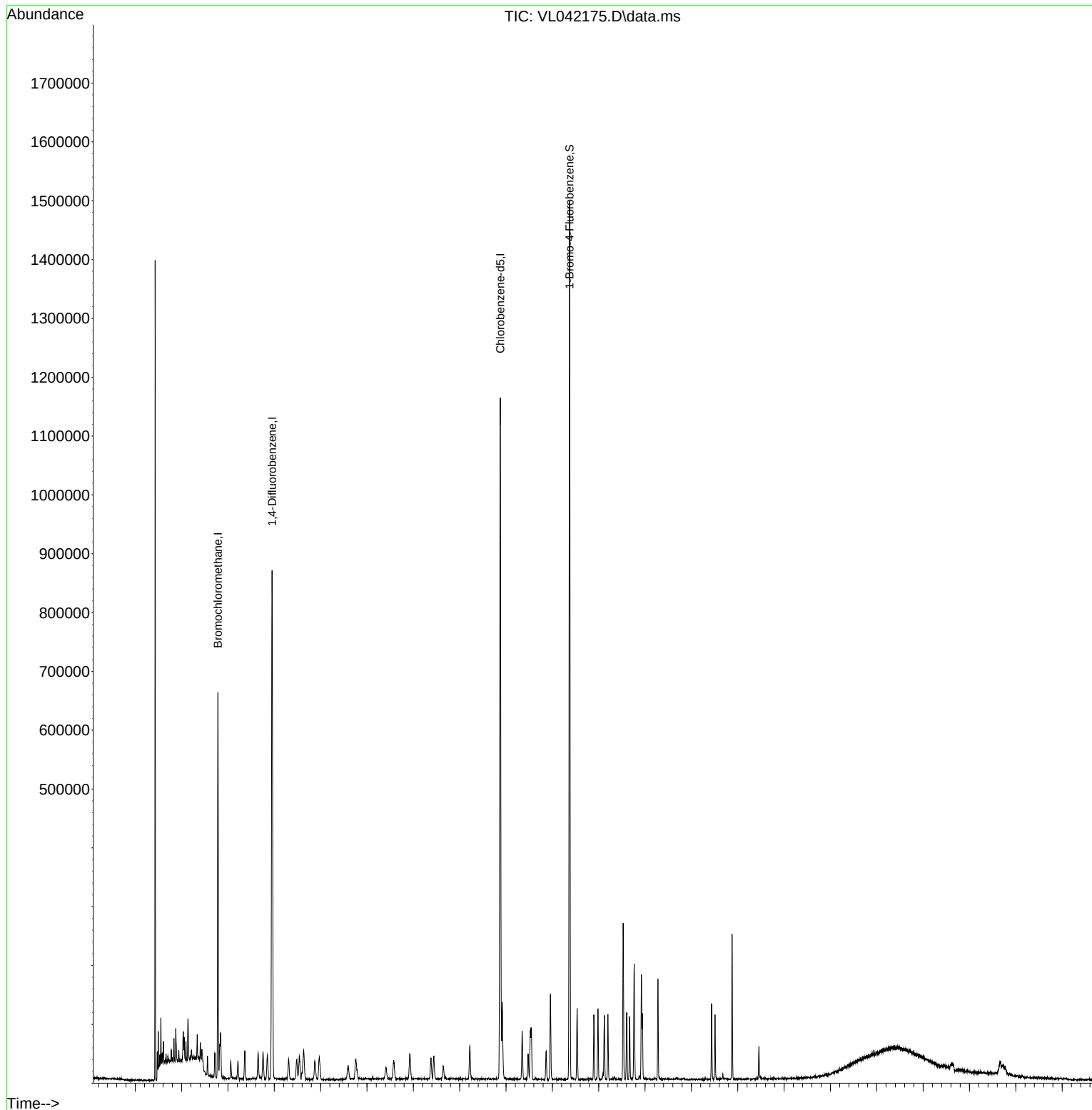
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Data File : VL042175.D
Acq On : 27 Mar 2025 10:01
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

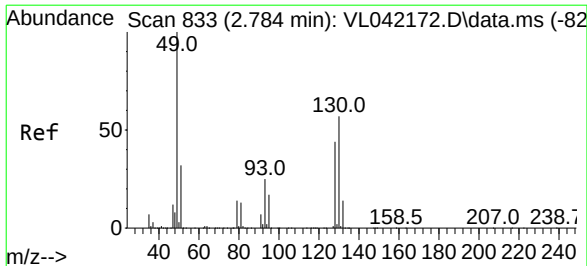
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

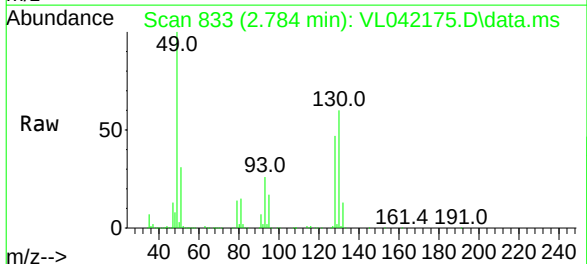
Reviewed By : Semsettin Yesilyurt 03/31/2025
Supervised By : Mahesh Dadoda 04/03/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 833
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

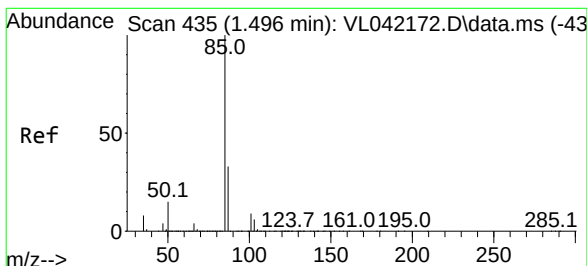
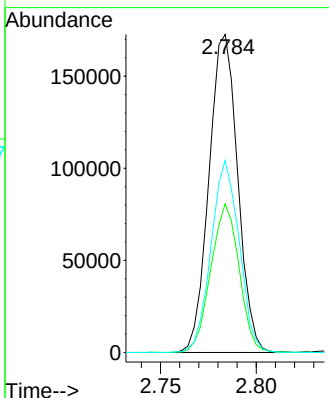
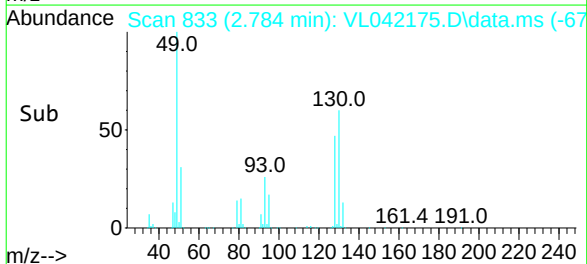
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



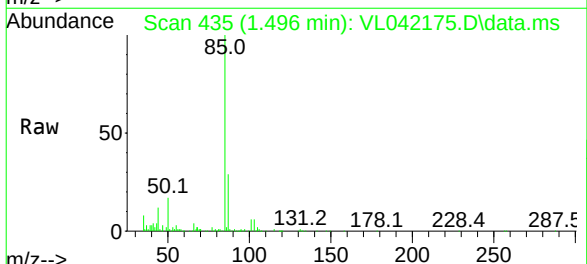
Tgt Ion: 49 Resp: 180502
Ion Ratio Lower Upper
49 100
128 46.1 22.9 68.5
130 59.2 28.8 86.4

Manual Integrations
APPROVED

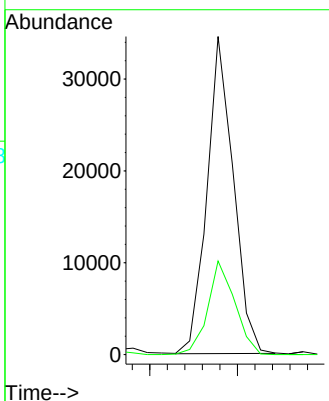
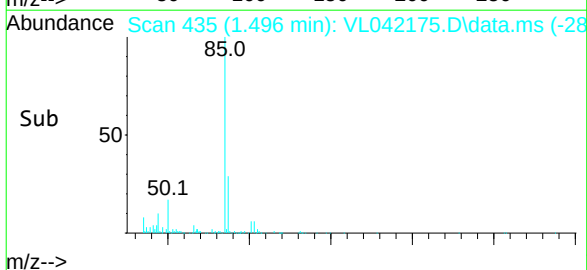
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

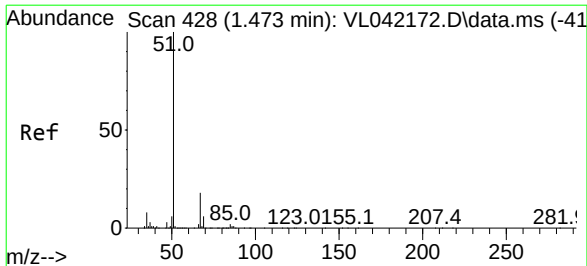


#2
Dichlorodifluoromethane
Concen: 0.542 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01



Tgt Ion: 85 Resp: 14455
Ion Ratio Lower Upper
85 100
87 29.5 26.1 39.1





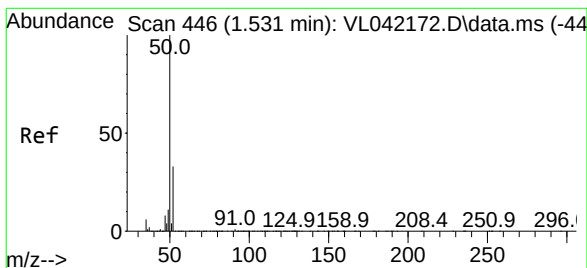
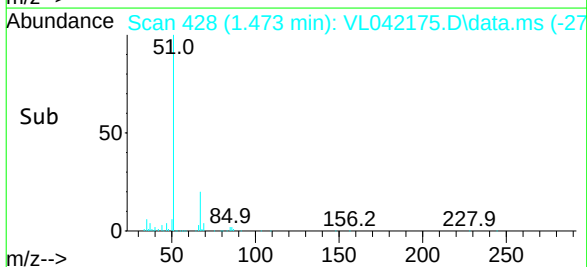
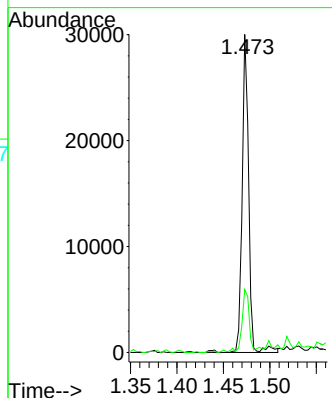
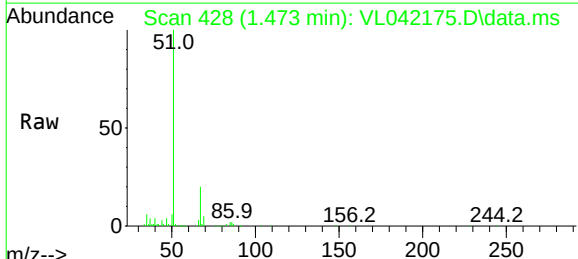
#3
Chlorodifluoromethane
Concen: 0.538 ppbv
RT: 1.473 min Scan# 428
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 51 Resp: 14637
Ion Ratio Lower Upper
51 100
67 23.6 15.0 22.6#

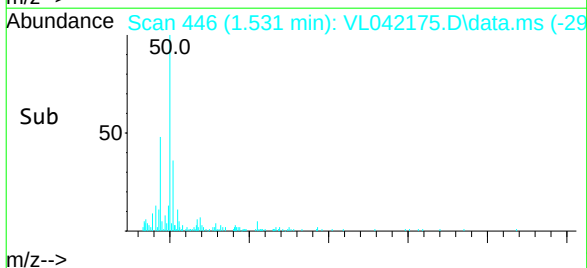
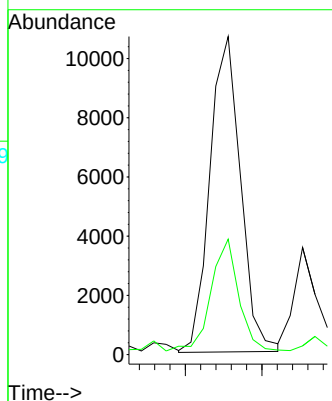
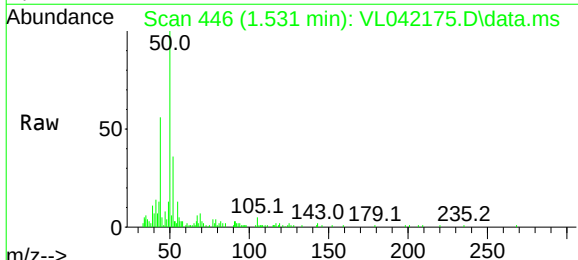
Manual Integrations
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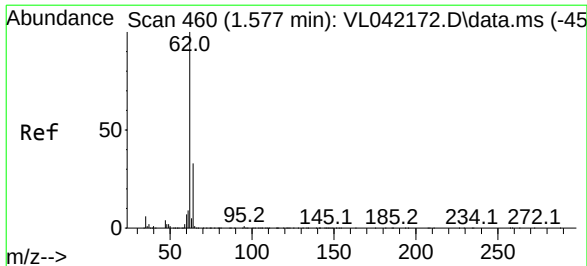
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#4
Chloromethane
Concen: 0.547 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 50 Resp: 5956
Ion Ratio Lower Upper
50 100
52 36.1 26.1 39.1





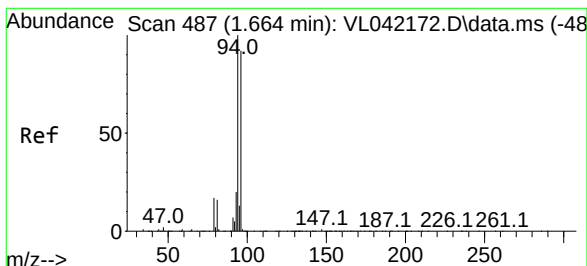
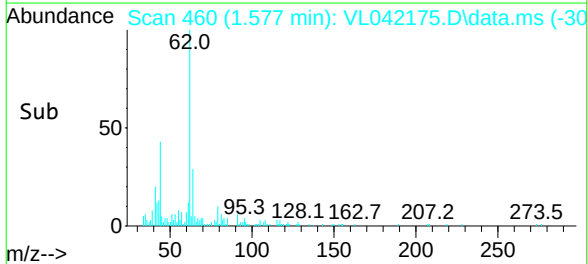
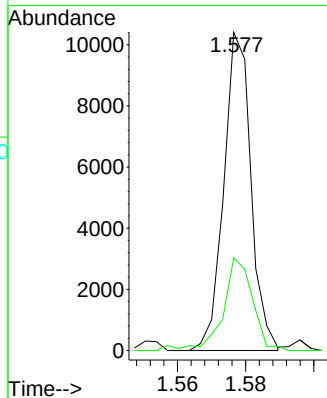
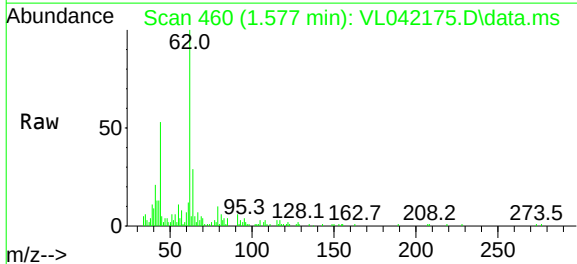
#5
 Vinyl Chloride
 Concen: 0.516 ppbv
 RT: 1.577 min Scan# 460
 Delta R.T. -0.000 min
 Lab File: VL042175.D
 Acq: 27 Mar 2025 10:01

Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.5

Tgt Ion: 62 Resp: 5732
 Ion Ratio Lower Upper
 62 100
 64 28.5 26.6 40.0

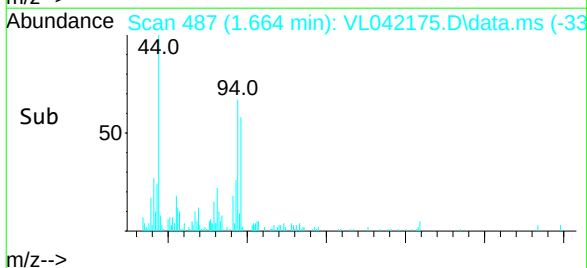
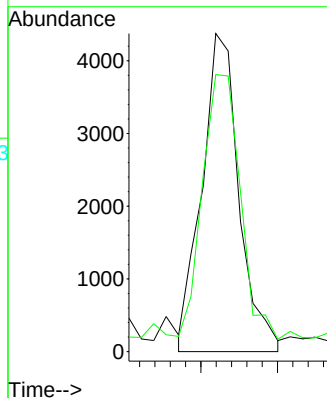
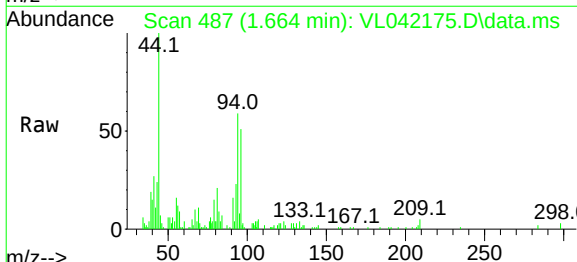
Manual Integrations
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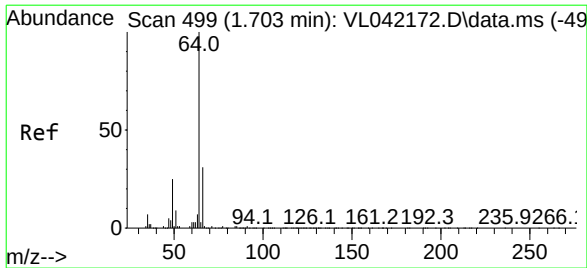
Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025



#6
 Bromomethane
 Concen: 0.597 ppbv
 RT: 1.664 min Scan# 487
 Delta R.T. -0.000 min
 Lab File: VL042175.D
 Acq: 27 Mar 2025 10:01

Tgt Ion: 94 Resp: 2949
 Ion Ratio Lower Upper
 94 100
 96 86.2 73.1 109.7





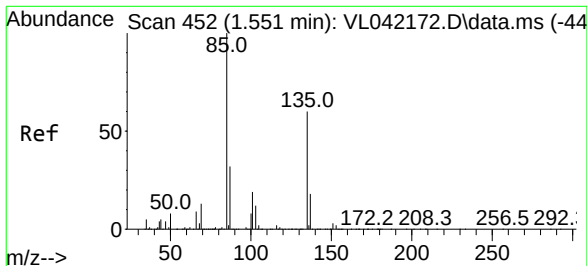
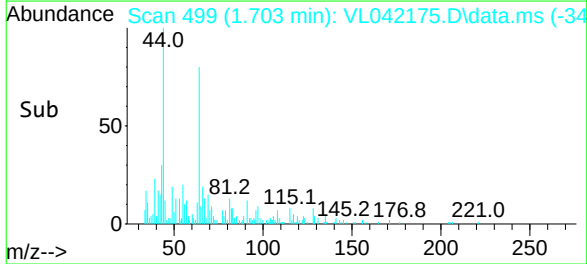
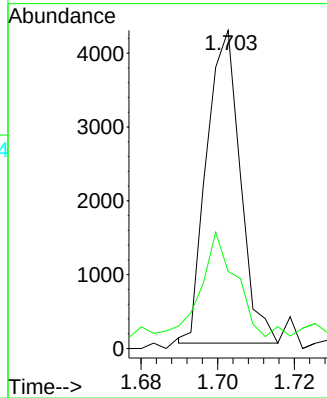
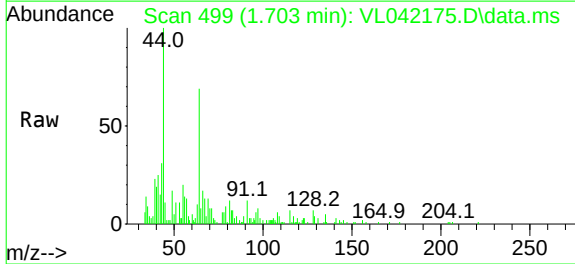
#7
Chloroethane
Concen: 0.591 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 64 Resp: 2582
Ion Ratio Lower Upper
64 100
66 24.2 25.2 37.8

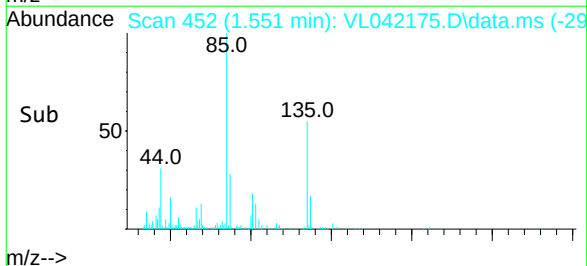
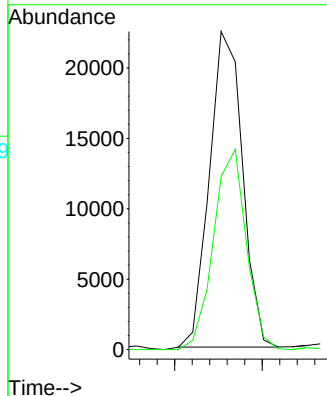
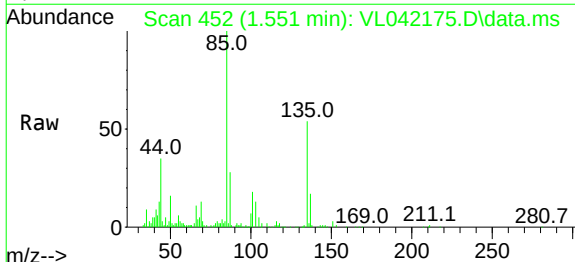
Manual Integrations
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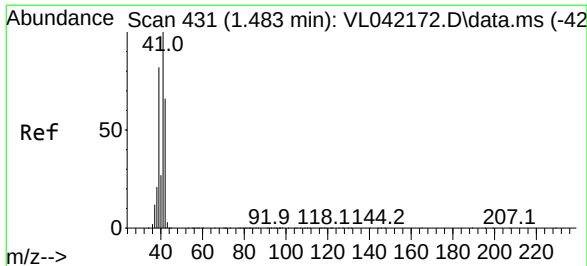
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#8
Dichlorotetrafluoroethane
Concen: 0.519 ppbv
RT: 1.551 min Scan# 452
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

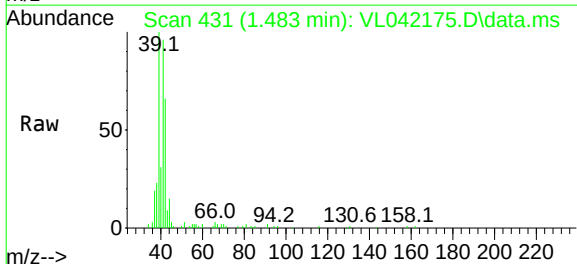
Tgt Ion: 85 Resp: 11783
Ion Ratio Lower Upper
85 100
135 63.7 52.4 78.6





#9
 Propene
 Concen: 0.540 ppbv m
 RT: 1.483 min Scan# 431
 Delta R.T. -0.000 min
 Lab File: VL042175.D
 Acq: 27 Mar 2025 10:01

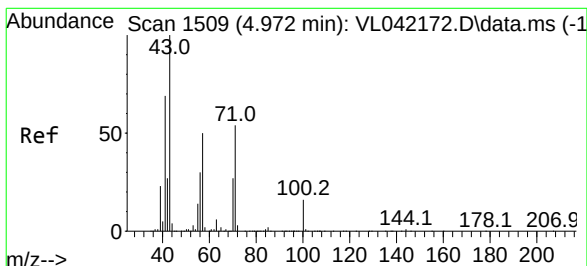
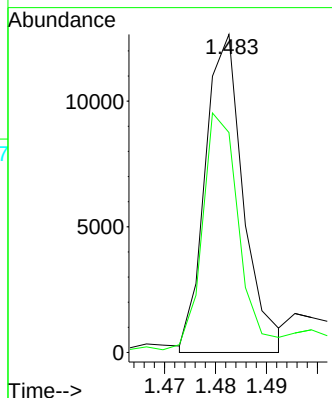
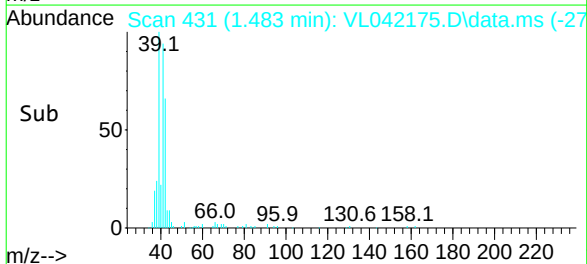
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5



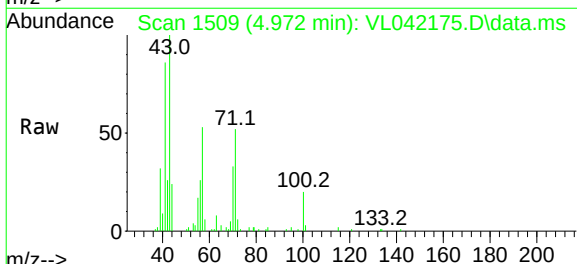
Tgt Ion: 41 Resp: 6622
 Ion Ratio Lower Upper
 41 100
 42 19.5 55.4 83.2#

Manual Integrations
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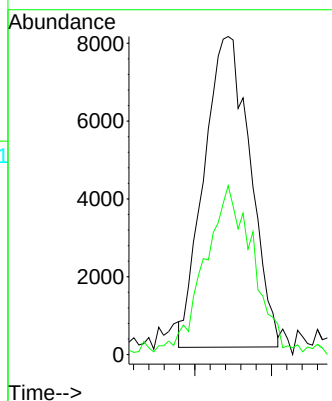
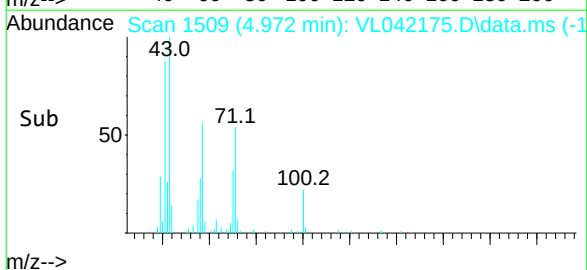
Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025

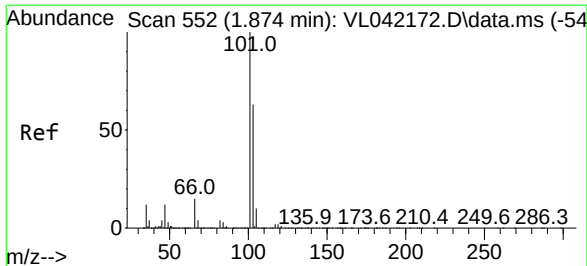


#10
 Heptane
 Concen: 0.502 ppbv
 RT: 4.972 min Scan# 1509
 Delta R.T. -0.000 min
 Lab File: VL042175.D
 Acq: 27 Mar 2025 10:01



Tgt Ion: 43 Resp: 16673
 Ion Ratio Lower Upper
 43 100
 57 57.0 39.4 59.2





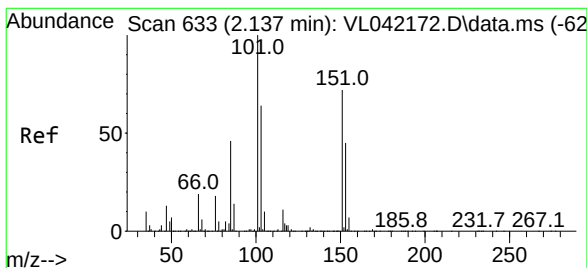
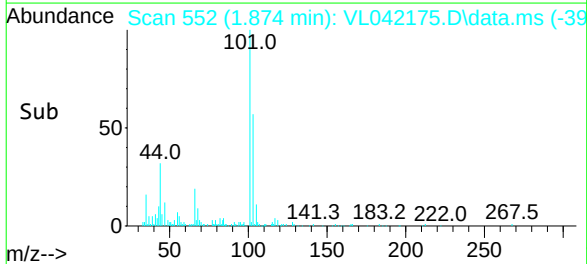
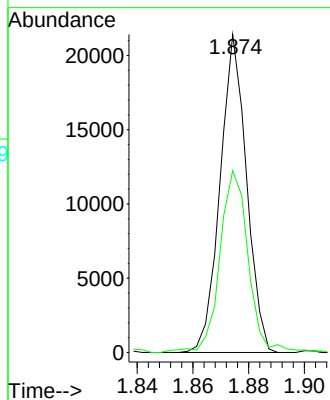
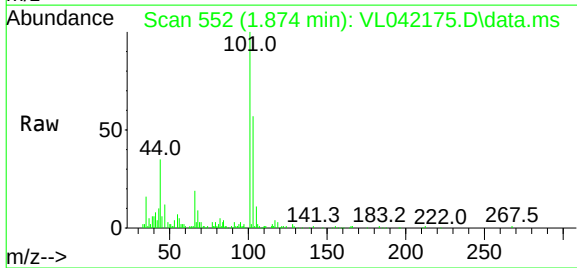
#11
Trichlorofluoromethane
Concen: 0.544 ppbv
RT: 1.874 min Scan# 552
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion:101 Resp: 14099
Ion Ratio Lower Upper
101 100
103 56.3 50.2 75.2

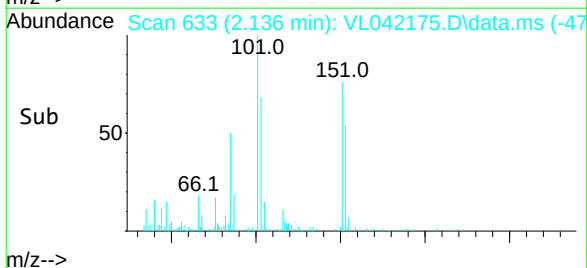
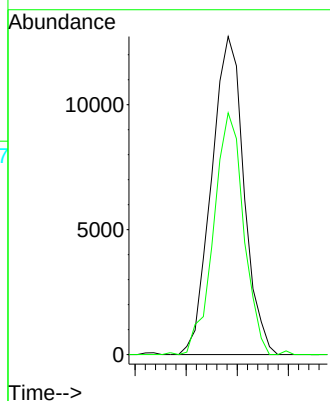
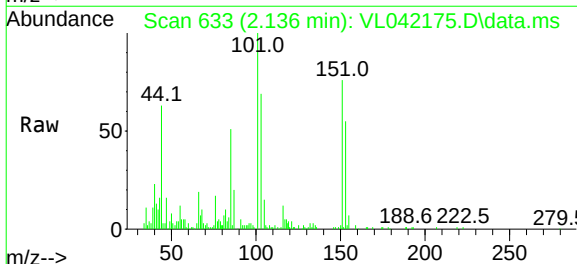
Manual Integrations
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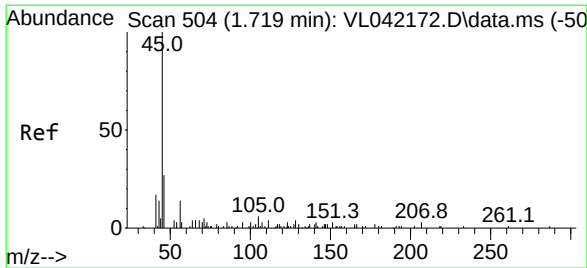
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.528 ppbv
RT: 2.136 min Scan# 633
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion:101 Resp: 11252
Ion Ratio Lower Upper
101 100
151 70.6 57.1 85.7





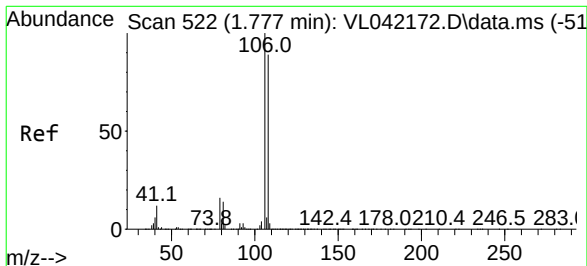
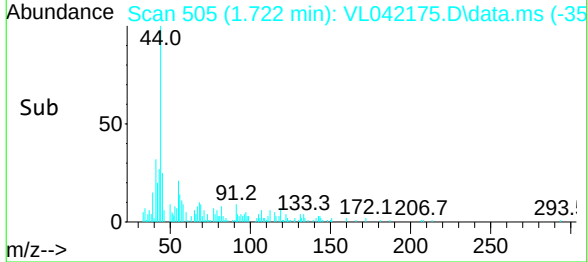
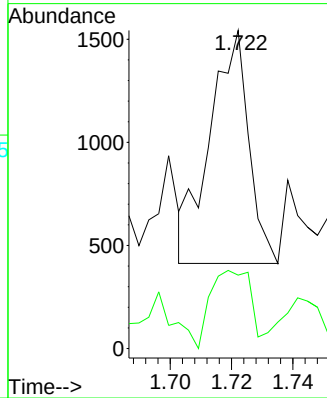
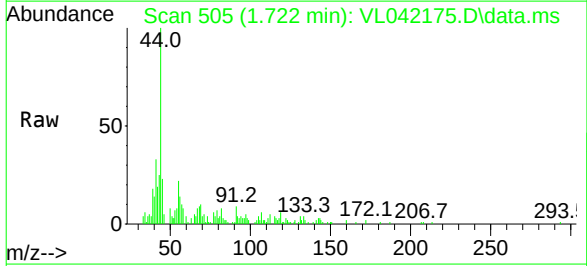
#13
Ethanol
Concen: 1.038 ppbv
RT: 1.722 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 45 Resp: 997
Ion Ratio Lower Upper
45 100
46 94.5 20.2 80.8#

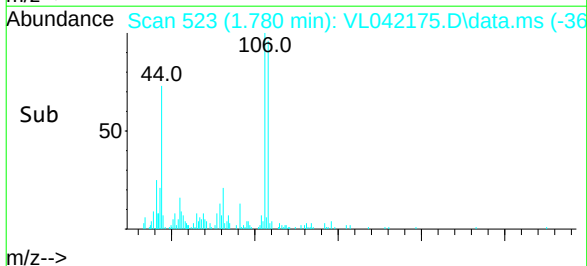
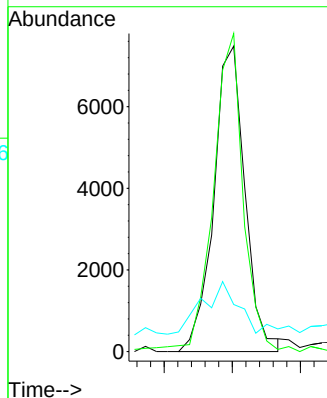
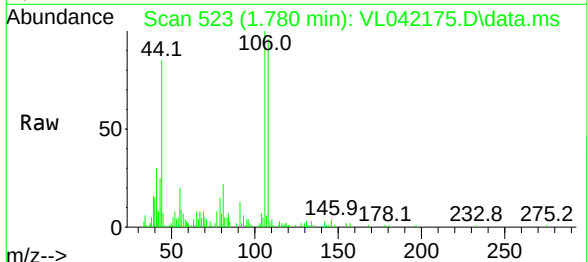
Manual Integrations
APPROVED

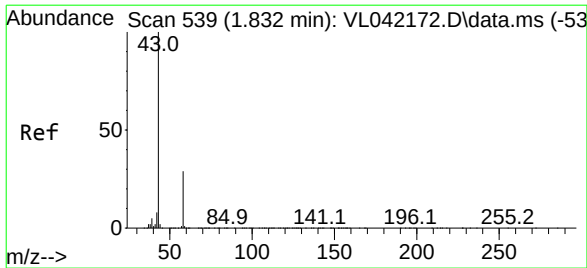
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#14
Bromoethene
Concen: 0.584 ppbv
RT: 1.780 min Scan# 523
Delta R.T. 0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion:108 Resp: 4770
Ion Ratio Lower Upper
108 100
106 101.3 86.8 130.2
79 42.6 15.0 22.6#





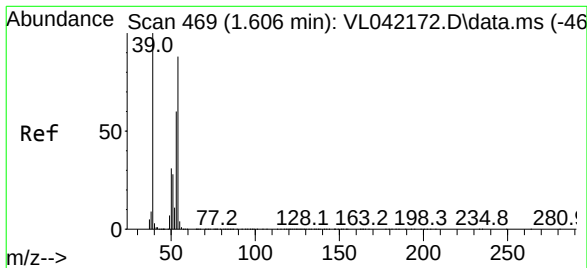
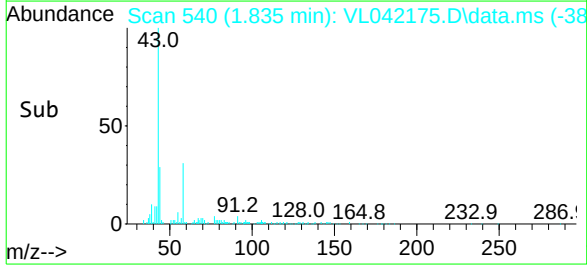
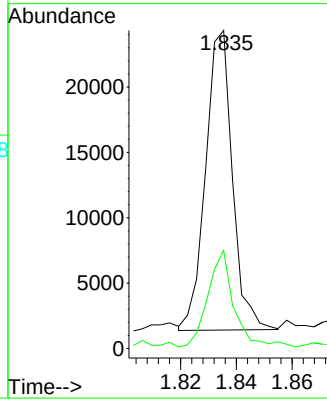
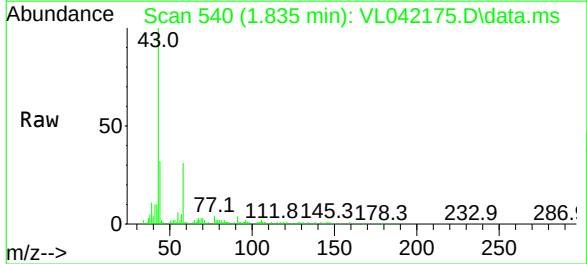
#15
Acetone
Concen: 0.607 ppbv
RT: 1.835 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 43 Resp: 15331
Ion Ratio Lower Upper
43 100
58 37.1 23.2 34.8#

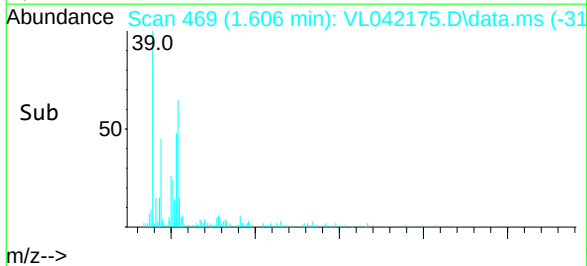
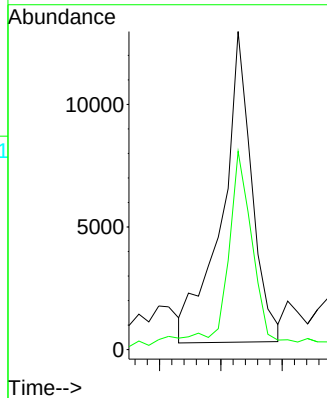
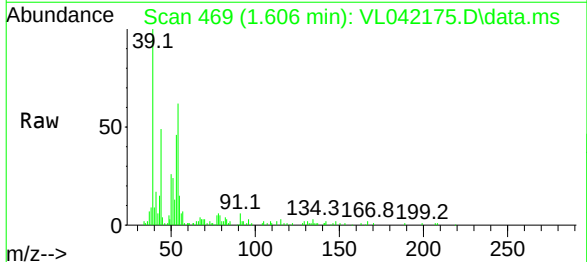
Manual Integrations
APPROVED

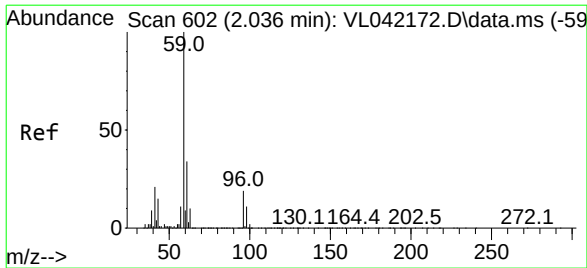
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#16
1,3-Butadiene
Concen: 0.757 ppbv
RT: 1.606 min Scan# 469
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 39 Resp: 8594
Ion Ratio Lower Upper
39 100
54 60.7 60.7 91.1





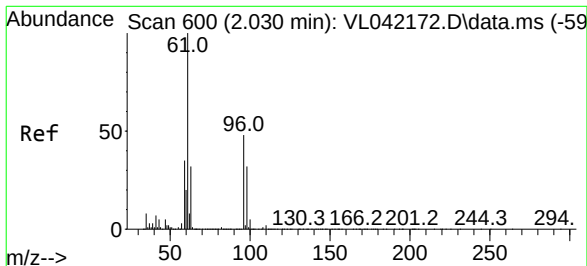
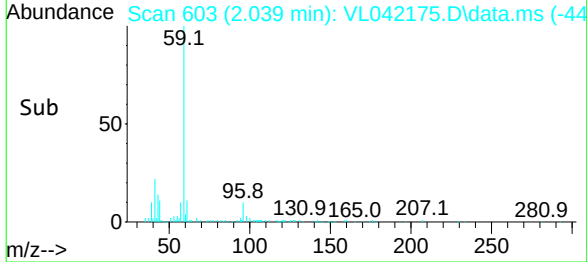
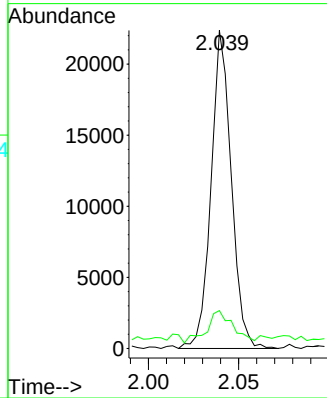
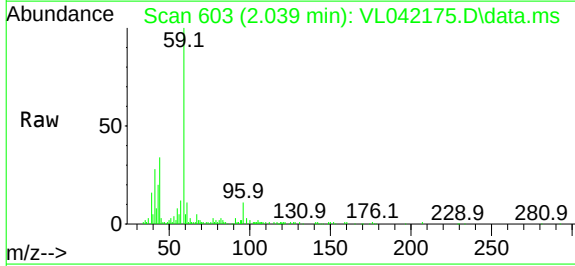
#17
tert-Butyl alcohol
Concen: 0.556 ppbv
RT: 2.039 min Scan# 60
Delta R.T. 0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 59 Resp: 17467
Ion Ratio Lower Upper
59 100
57 12.1 8.9 13.3

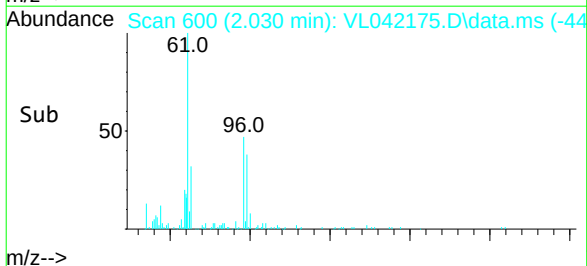
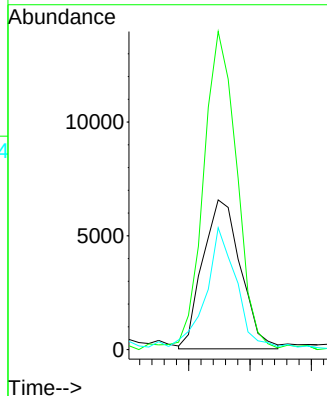
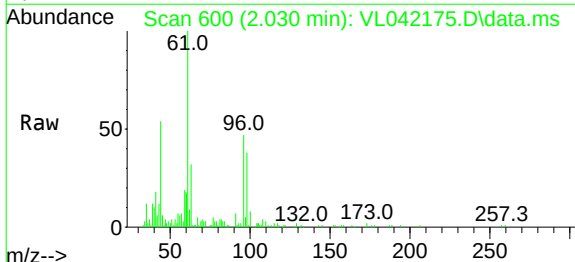
Manual Integrations
APPROVED

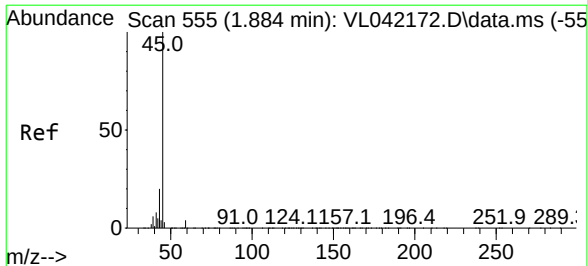
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#18
1,1-Dichloroethene
Concen: 0.565 ppbv
RT: 2.030 min Scan# 600
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 96 Resp: 5634
Ion Ratio Lower Upper
96 100
61 216.6 167.6 251.4
98 81.2 53.5 80.3#





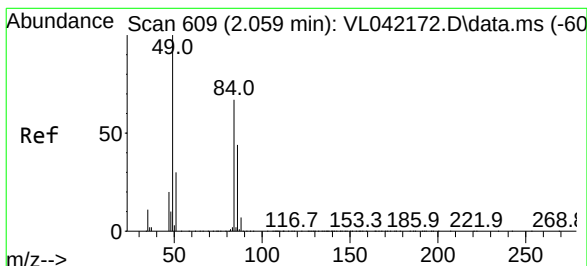
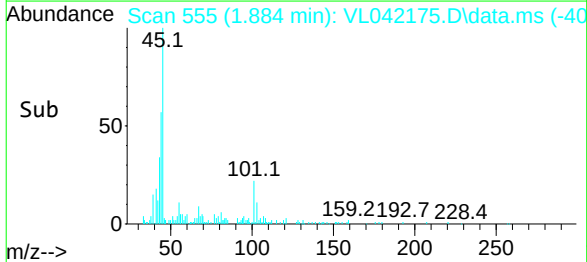
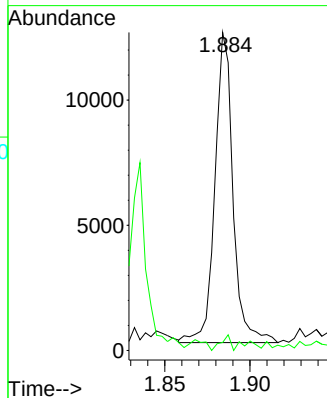
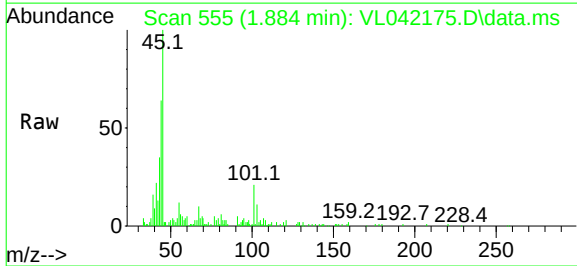
#19
Isopropyl Alcohol
Concen: 0.644 ppbv
RT: 1.884 min Scan# 555
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 45 Resp: 9171
Ion Ratio Lower Upper
45 100
58 5.5 36.9 55.3#

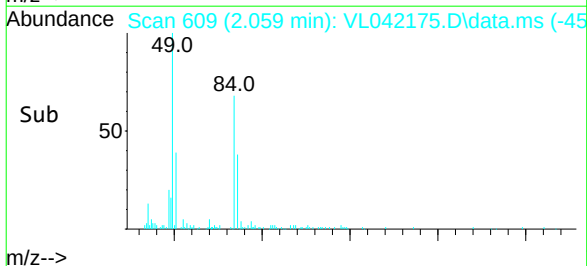
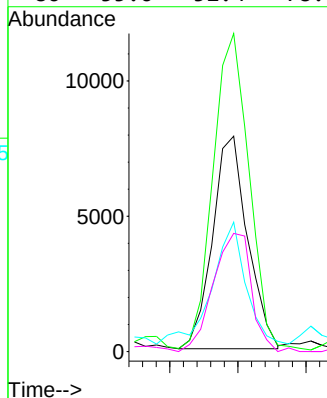
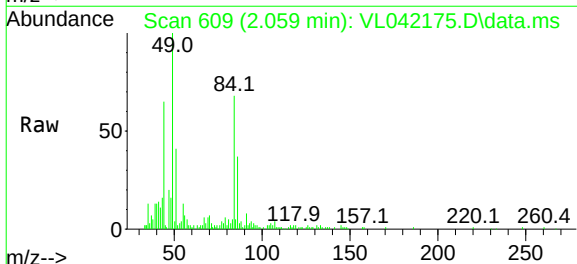
Manual Integrations
APPROVED

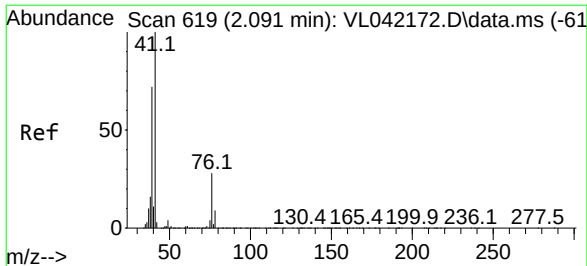
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#20
Methylene Chloride
Concen: 0.599 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

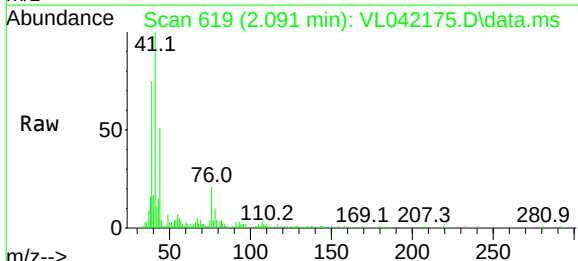
Tgt Ion: 84 Resp: 5634
Ion Ratio Lower Upper
84 100
49 148.1 120.2 180.4
51 56.1 37.4 56.0#
86 55.6 52.4 78.6





#21
Allyl Chloride
Concen: 0.541 ppbv
RT: 2.091 min Scan# 619
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

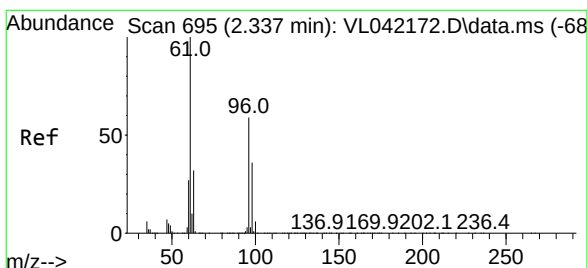
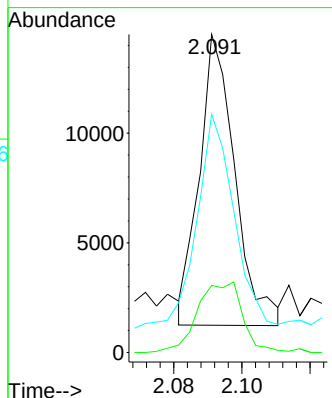
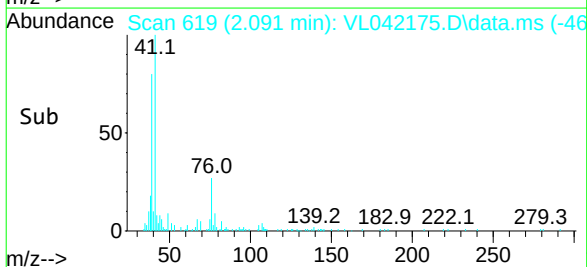
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



Tgt Ion: 41 Resp: 9632
Ion Ratio Lower Upper
41 100
76 30.9 24.1 36.1
39 88.9 61.1 91.7

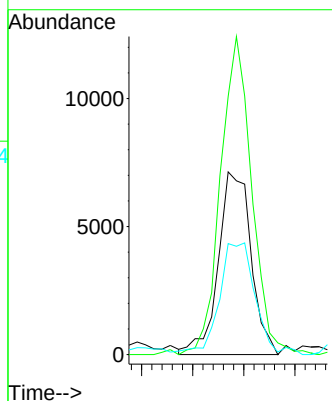
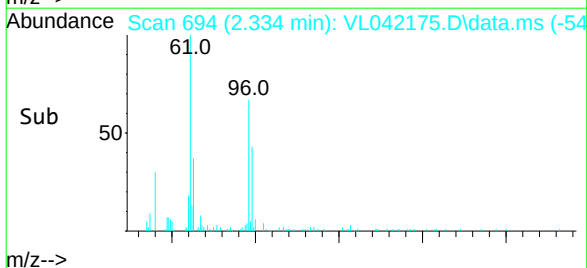
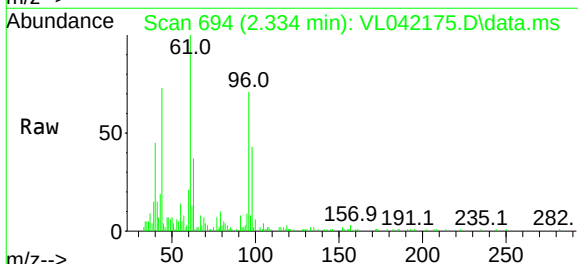
Manual Integrations
APPROVED

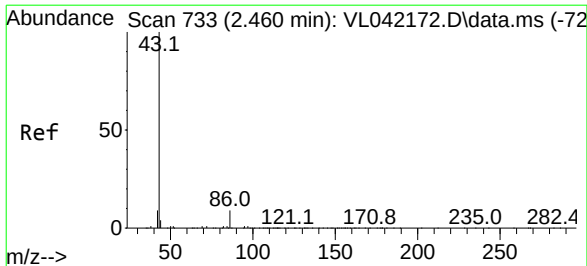
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#22
trans-1,2-Dichloroethene
Concen: 0.546 ppbv
RT: 2.334 min Scan# 694
Delta R.T. -0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 96 Resp: 6353
Ion Ratio Lower Upper
96 100
61 141.3 136.6 204.8
98 59.4 49.4 74.2





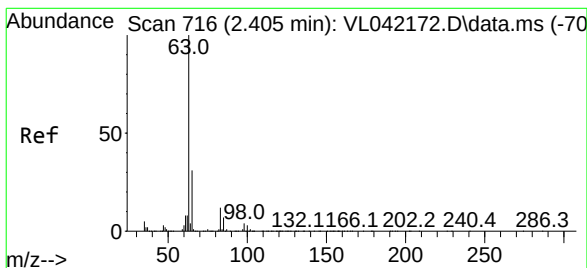
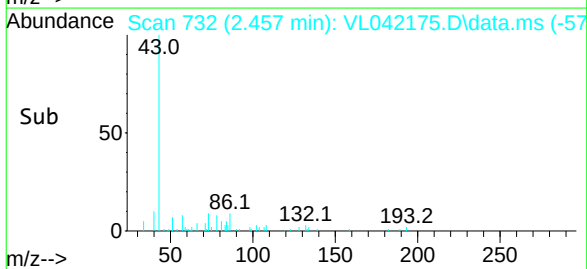
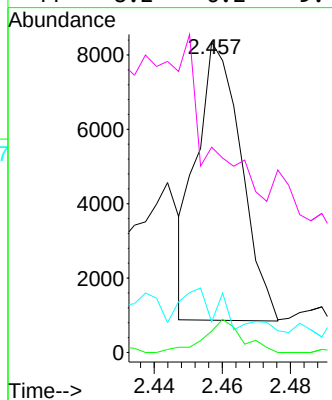
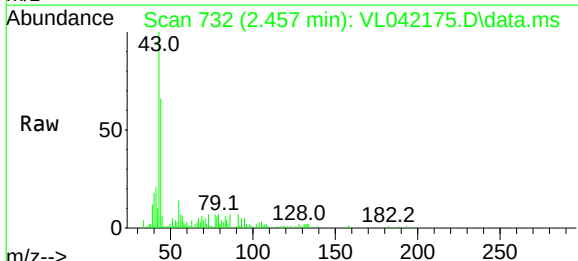
#23
Vinyl Acetate
Concen: 0.649 ppbv
RT: 2.457 min Scan# 733
Delta R.T. -0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion:	43	Resp:	6809
Ion	Ratio	Lower	Upper
43	100		
86	7.7	5.5	8.3
42	3.2	8.6	13.0
44	8.2	6.2	9.4

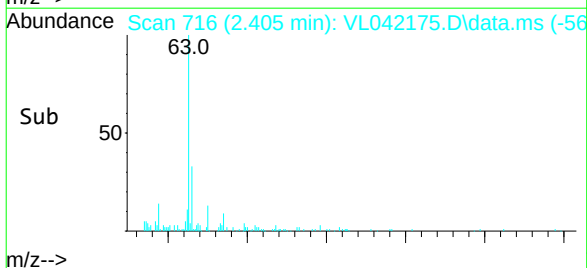
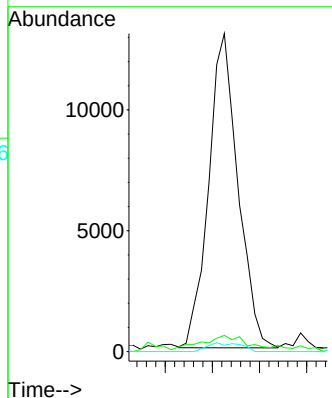
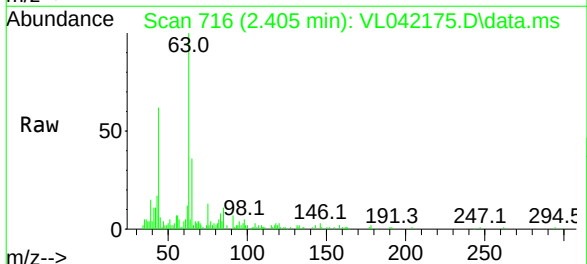
Manual Integrations
APPROVED

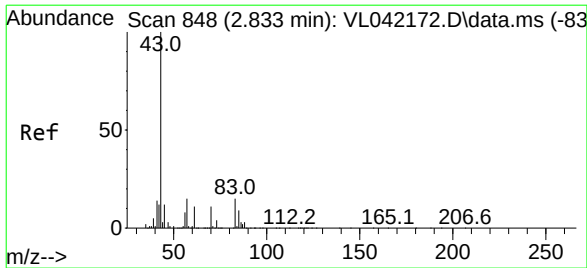
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#24
1,1-Dichloroethane
Concen: 0.527 ppbv
RT: 2.405 min Scan# 716
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

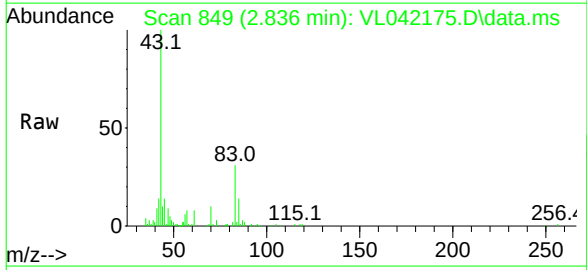
Tgt Ion:	63	Resp:	11258
Ion	Ratio	Lower	Upper
63	100		
98	3.7	2.3	6.8
100	2.0	1.6	4.7





#25
Ethyl Acetate
Concen: 0.553 ppbv
RT: 2.836 min Scan# 848
Delta R.T. 0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

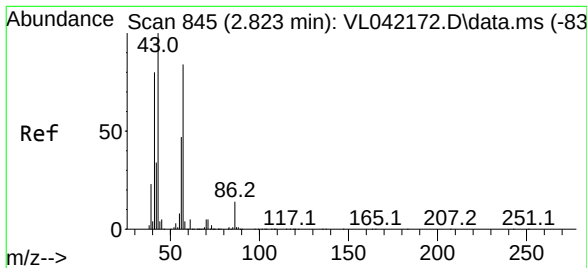
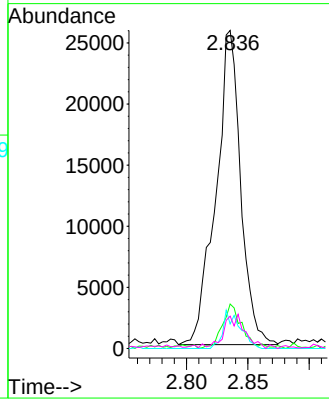
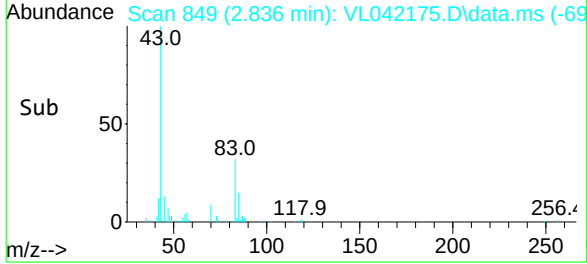
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



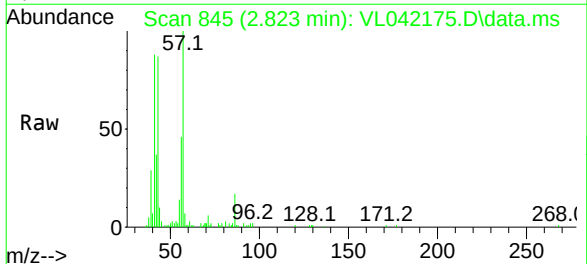
Tgt Ion	Ratio	Lower	Upper
43	100		
45	11.2	8.2	12.2
61	8.3	7.3	10.9
70	9.9	7.2	10.8

Manual Integrations
APPROVED

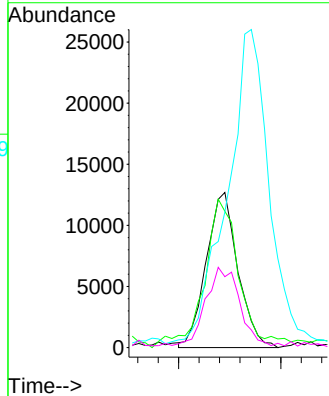
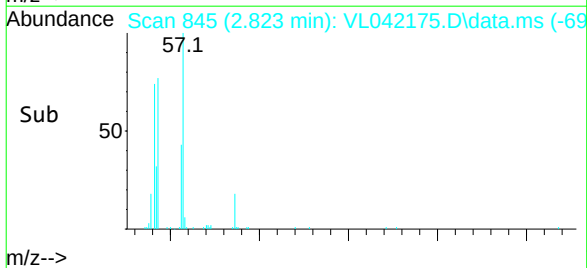
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

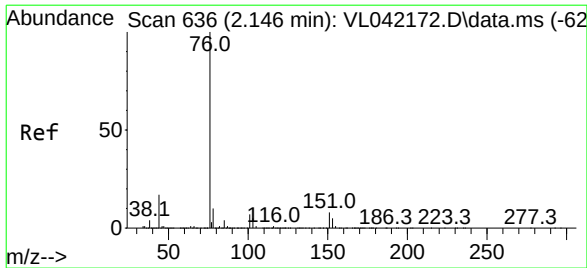


#26
Hexane
Concen: 0.538 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01



Tgt Ion	Ratio	Lower	Upper
57	100		
41	92.1	76.6	114.8
43	273.4	207.8	311.8
56	64.6	43.6	65.4





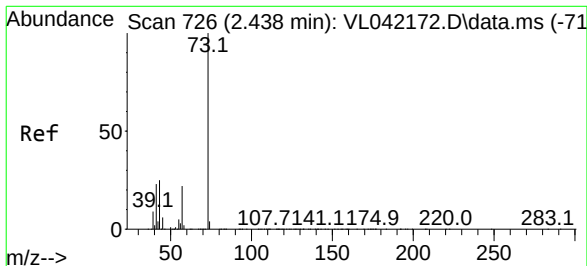
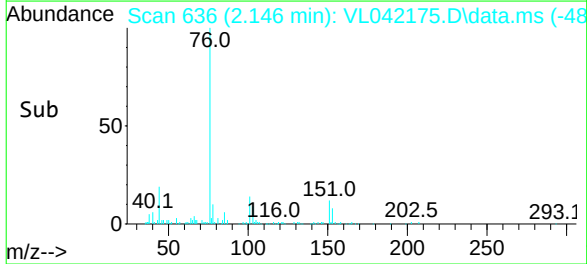
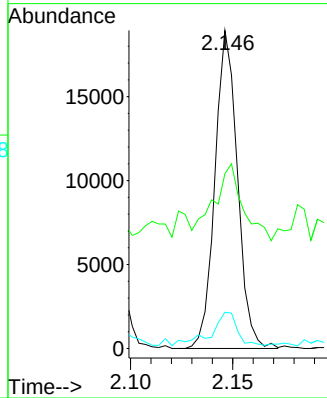
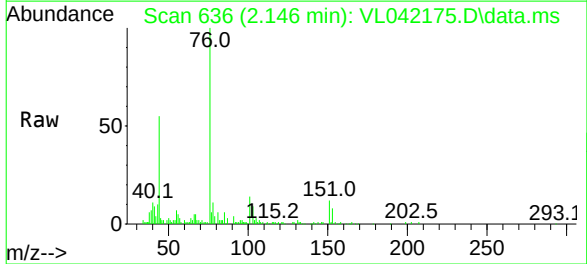
#27
Carbon Disulfide
Concen: 0.535 ppbv
RT: 2.146 min Scan# 636
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Instrument : MSVOA_L
ClientSampleId : VSTDICC0.5

Tgt Ion: 76 Resp: 14510
Ion Ratio Lower Upper
76 100
44 115.5 14.7 22.1#
78 14.9 9.3 13.9#

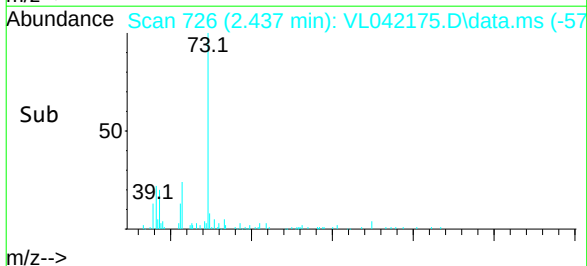
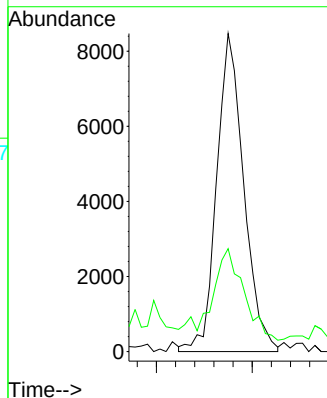
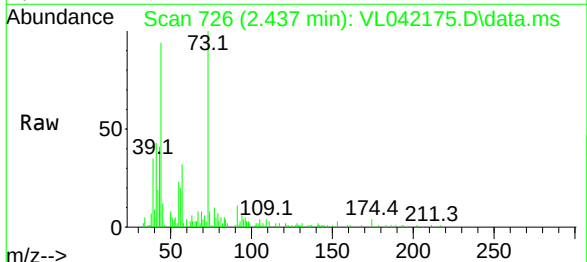
Manual Integrations
APPROVED

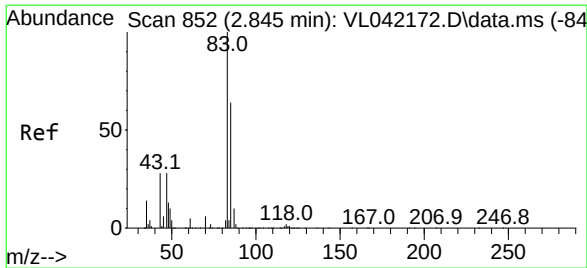
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#28
Methyl tert-Butyl Ether
Concen: 0.527 ppbv
RT: 2.437 min Scan# 726
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 73 Resp: 8310
Ion Ratio Lower Upper
73 100
57 31.1 20.5 30.7#





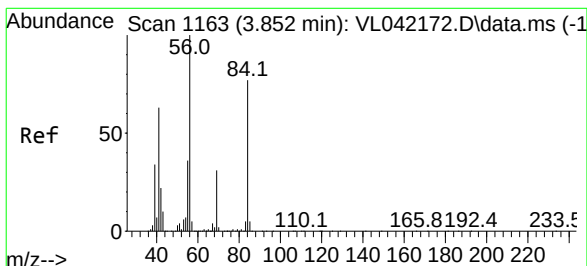
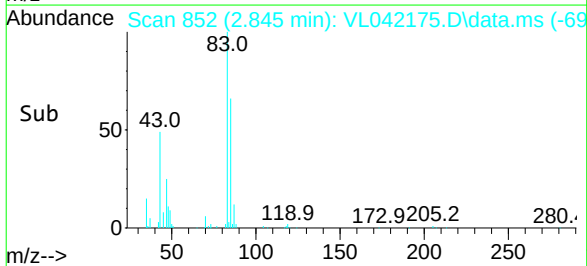
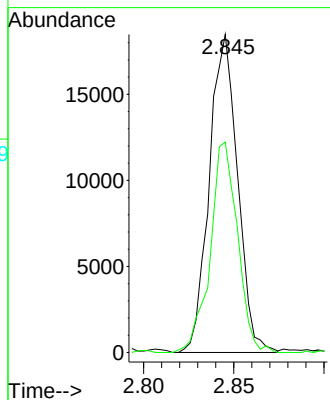
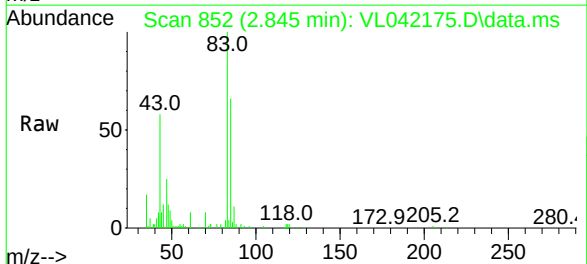
#29
 Chloroform
 Concen: 0.544 ppbv
 RT: 2.845 min Scan# 852
 Delta R.T. -0.000 min
 Lab File: VL042175.D
 Acq: 27 Mar 2025 10:01

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.2	51.4	77.2

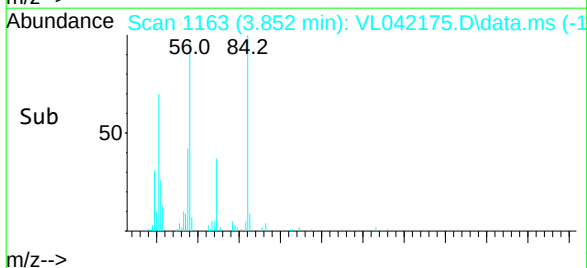
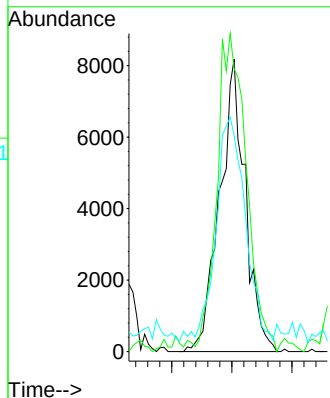
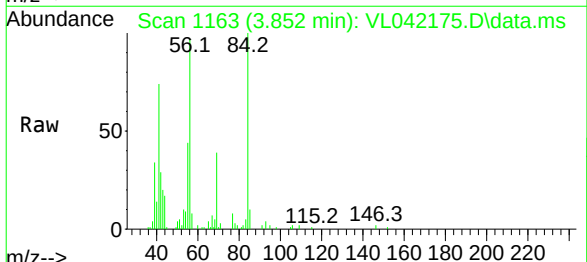
Manual Integrations
 APPROVED

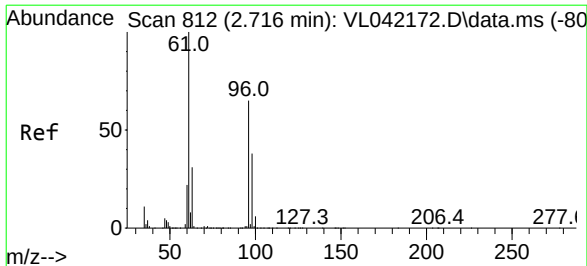
Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025



#30
 Cyclohexane
 Concen: 0.549 ppbv m
 RT: 3.852 min Scan# 1163
 Delta R.T. -0.000 min
 Lab File: VL042175.D
 Acq: 27 Mar 2025 10:01

Tgt Ion	Ratio	Lower	Upper
84	100		
56	126.3	102.8	154.2
41	93.5	66.5	99.7





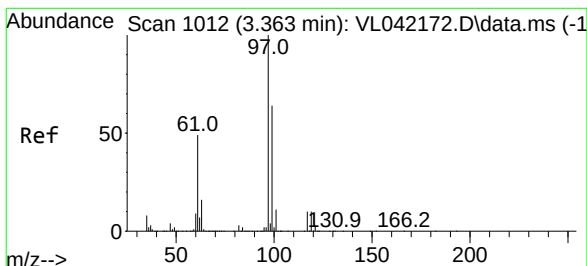
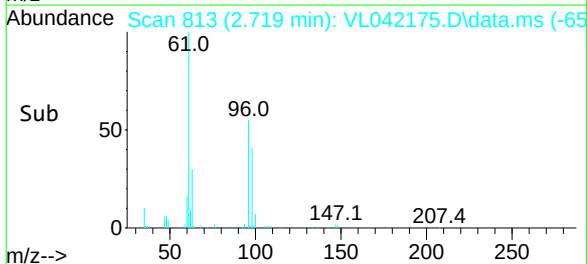
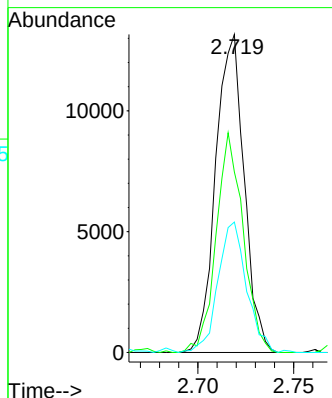
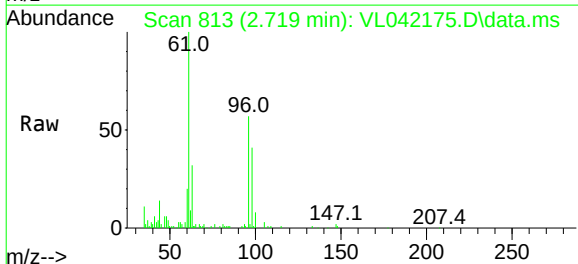
#31
cis-1,2-Dichloroethene
Concen: 0.529 ppbv
RT: 2.719 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion:	61	Resp:	13601
Ion	Ratio	Lower	Upper
61	100		
96	56.8	51.8	77.8
98	41.0	30.6	46.0

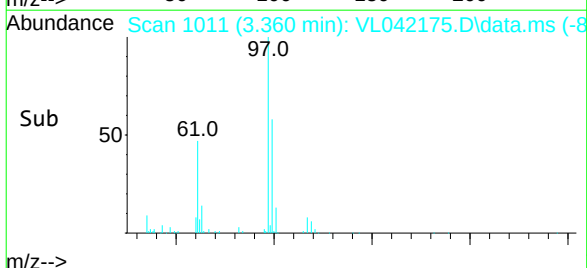
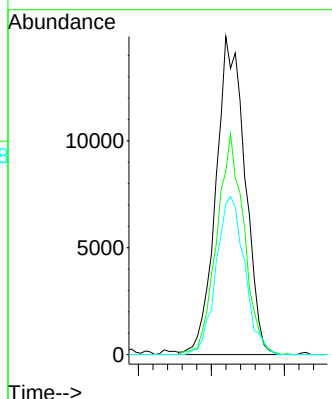
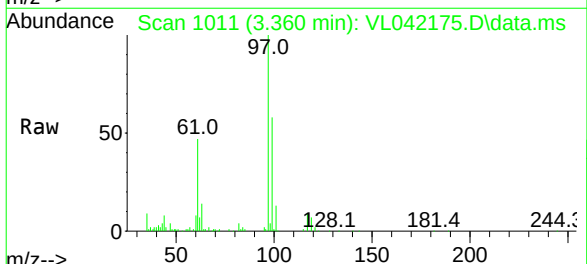
Manual Integrations
APPROVED

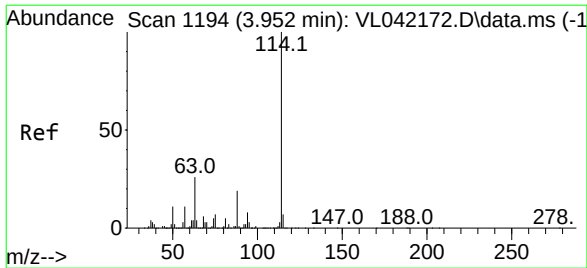
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#32
1,1,1-Trichloroethane
Concen: 0.485 ppbv
RT: 3.360 min Scan# 1011
Delta R.T. -0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

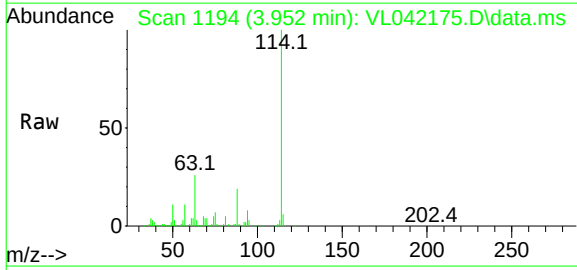
Tgt Ion:	97	Resp:	20567
Ion	Ratio	Lower	Upper
97	100		
99	64.8	51.5	77.3
61	48.6	38.7	58.1





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

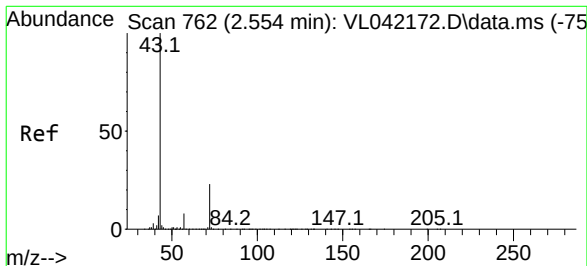
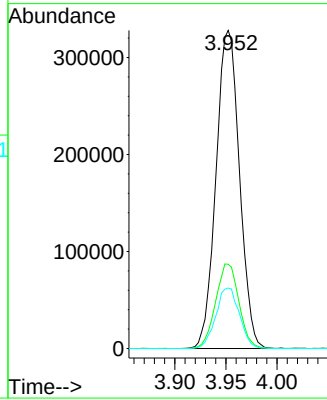
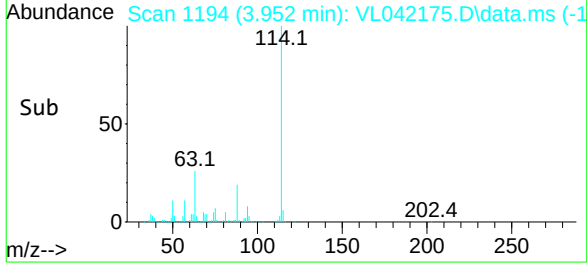
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



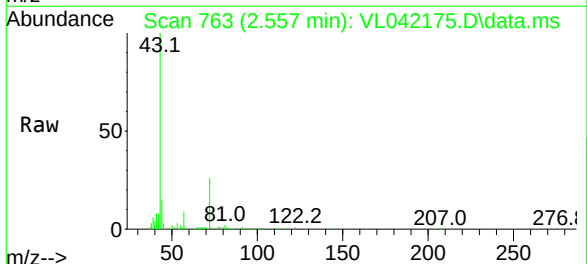
Tgt Ion: 114 Resp: 523832
Ion Ratio Lower Upper
114 100
63 26.4 20.7 31.1
88 19.1 15.0 22.4

Manual Integrations
APPROVED

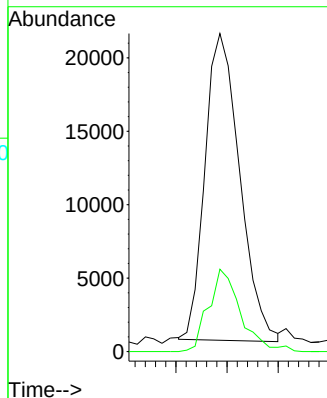
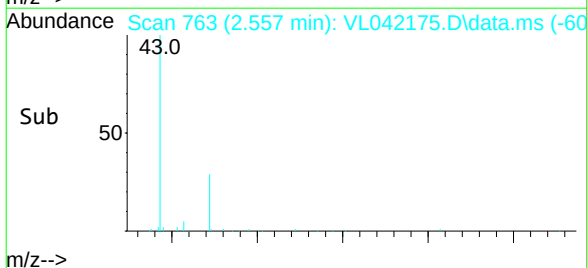
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

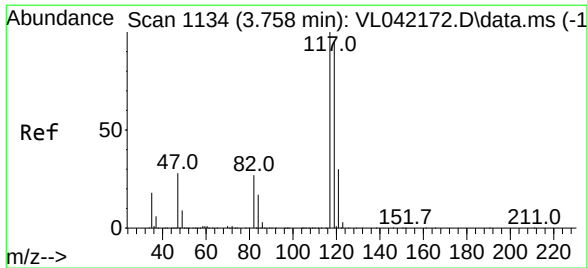


#34
2-Butanone
Concen: 0.520 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01



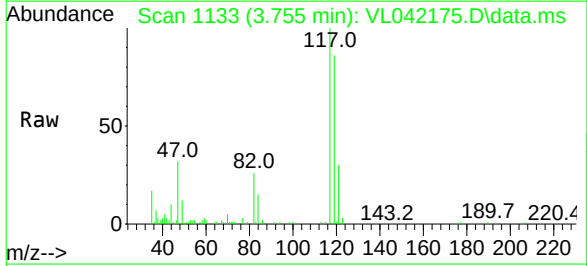
Tgt Ion: 43 Resp: 19739
Ion Ratio Lower Upper
43 100
72 24.8 18.2 27.2





#35
Carbon Tetrachloride
Concen: 0.460 ppbv
RT: 3.755 min Scan# 111
Delta R.T. -0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

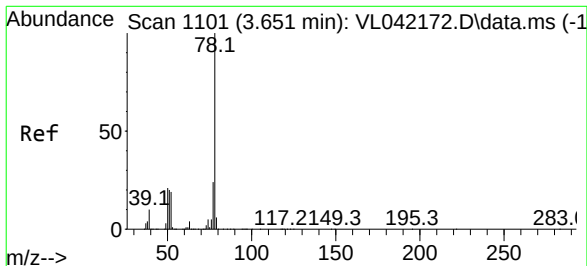
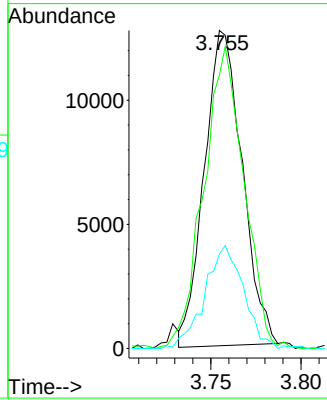
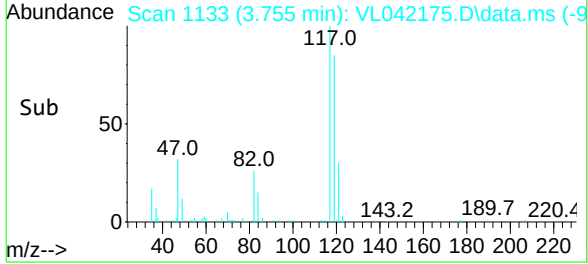
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



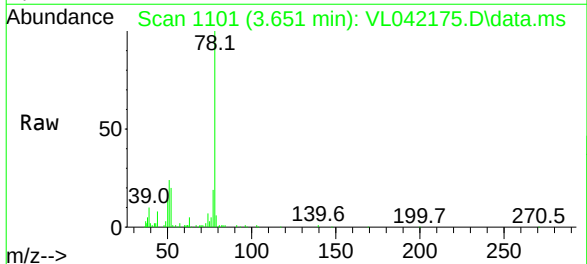
Tgt Ion: 117 Resp: 18558
Ion Ratio Lower Upper
117 100
119 86.4 76.2 114.2
121 30.1 24.2 36.4

Manual Integrations
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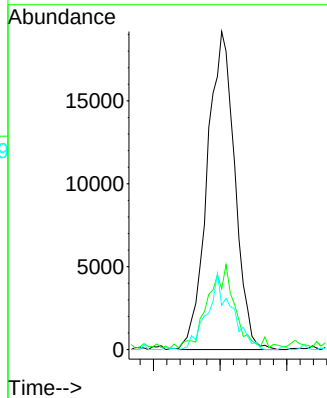
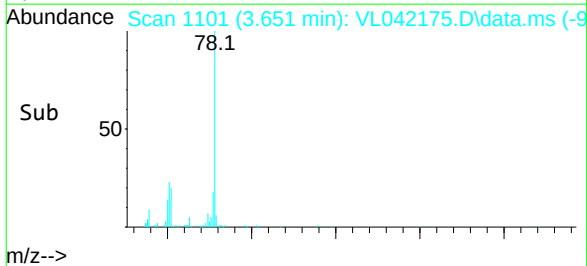
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

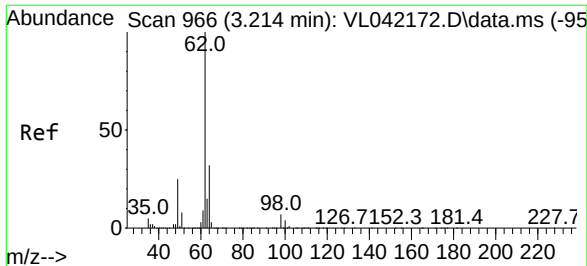


#36
Benzene
Concen: 0.529 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01



Tgt Ion: 78 Resp: 27488
Ion Ratio Lower Upper
78 100
77 18.5 19.1 28.7#
50 13.9 16.6 24.8#





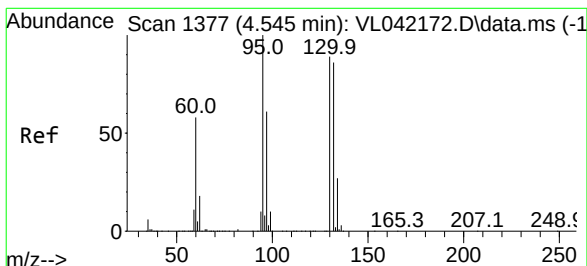
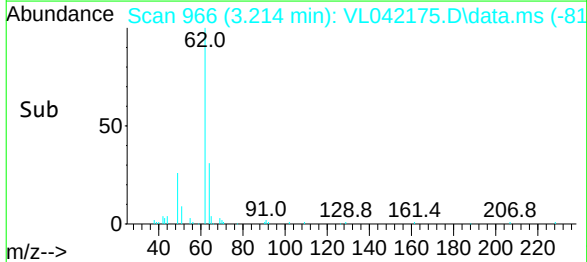
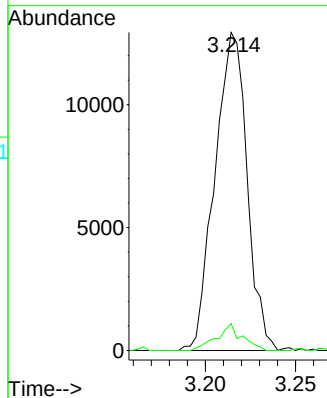
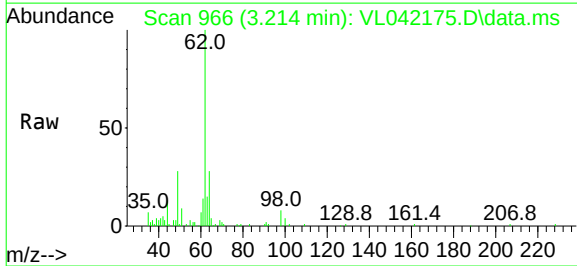
#37
1,2-Dichloroethane
Concen: 0.540 ppbv
RT: 3.214 min Scan# 966
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 62 Resp: 16062
Ion Ratio Lower Upper
62 100
98 7.0 5.4 8.2

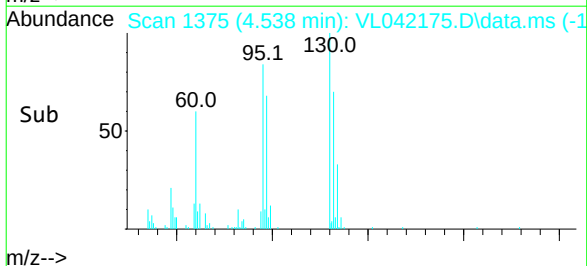
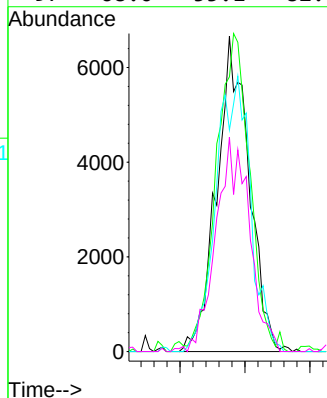
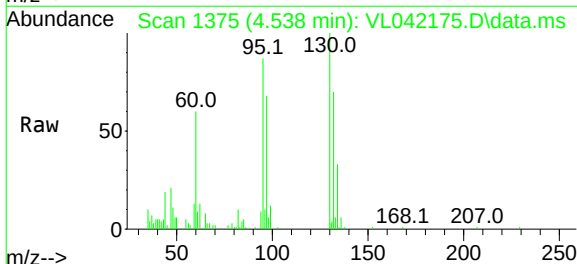
Manual Integrations
APPROVED

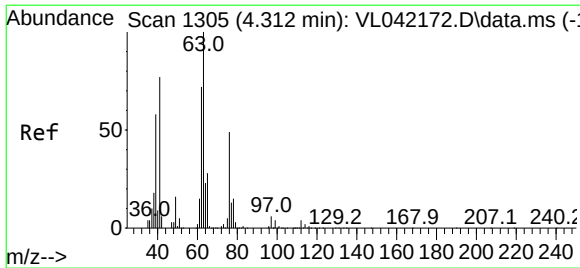
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#38
Trichloroethene
Concen: 0.529 ppbv m
RT: 4.538 min Scan# 1375
Delta R.T. -0.007 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

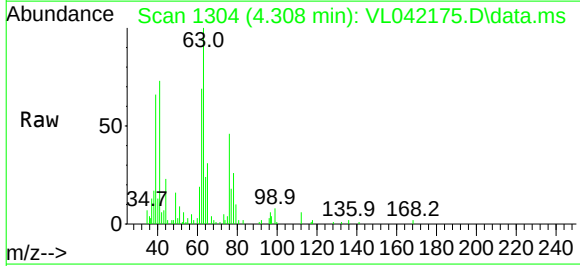
Tgt Ion:130 Resp: 11460
Ion Ratio Lower Upper
130 100
95 87.1 89.8 134.8#
132 70.3 77.4 116.2#
97 68.0 55.1 82.7





#39
1,2-Dichloropropane
Concen: 0.535 ppbv
RT: 4.308 min Scan# 1305
Delta R.T. -0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

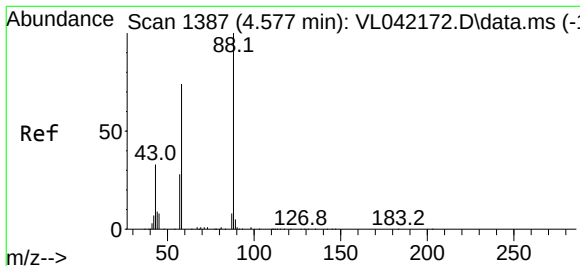
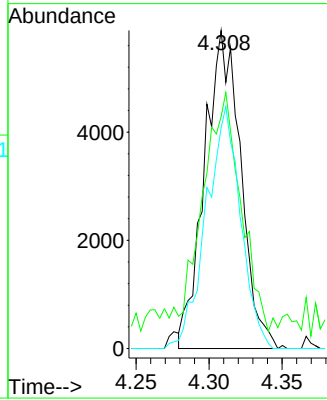
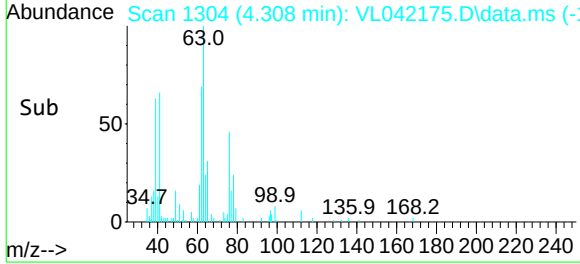
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



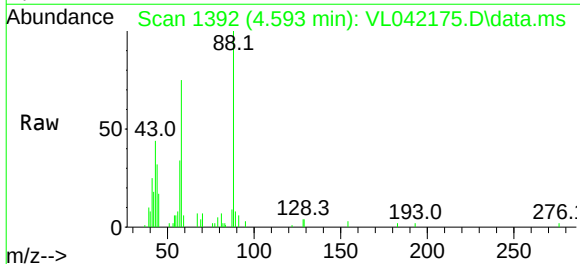
Tgt Ion: 63 Resp: 10123
Ion Ratio Lower Upper
63 100
41 66.4 61.7 92.5
62 69.3 57.6 86.4

Manual Integrations
APPROVED

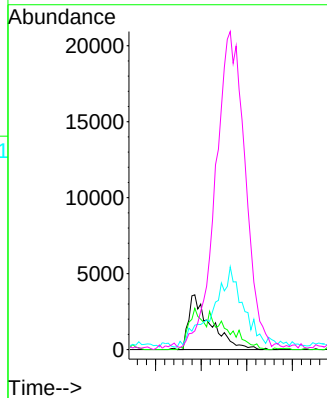
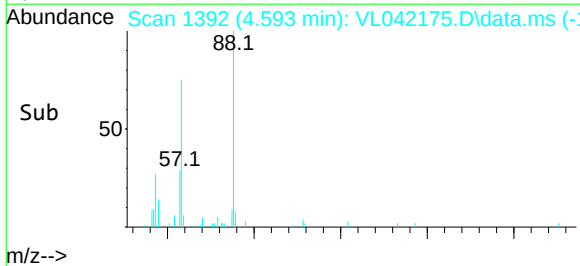
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

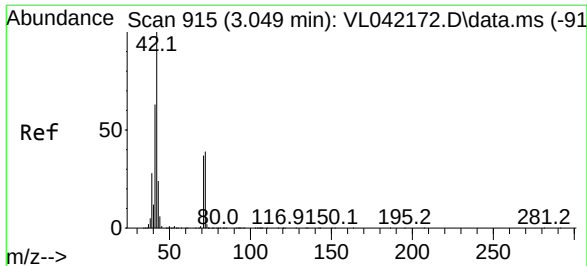


#40
1,4-Dioxane
Concen: 0.624 ppbv m
RT: 4.593 min Scan# 1392
Delta R.T. 0.016 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01



Tgt Ion: 88 Resp: 6121
Ion Ratio Lower Upper
88 100
58 111.2 62.7 94.1#
43 0.0 23.0 34.4#
57 0.0 0.0 0.0





#41

Tetrahydrofuran

Concen: 0.533 ppbv m

RT: 3.059 min Scan# 91

Delta R.T. 0.010 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

Instrument :

MSVOA_L

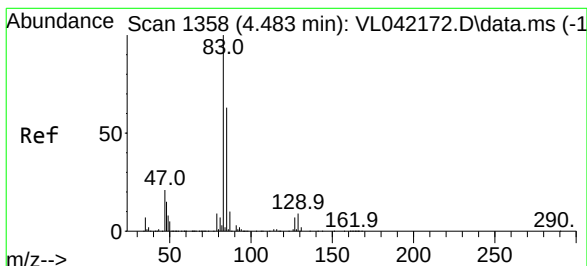
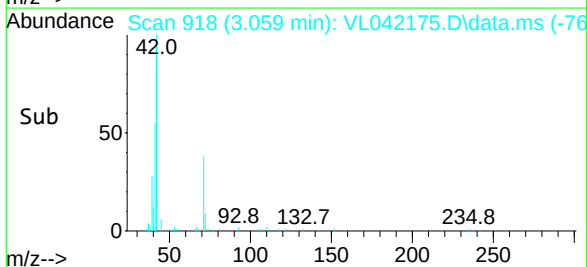
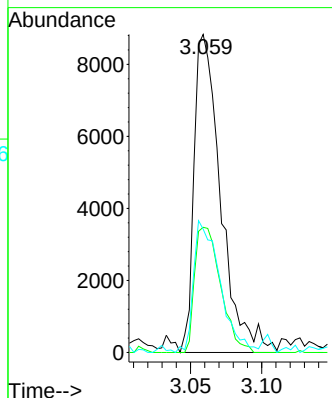
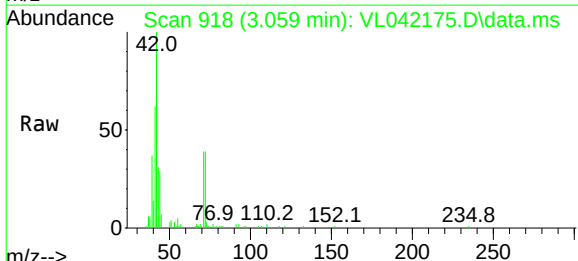
ClientSampleId :

VSTDIC0.5

Tgt	Ion: 42	Resp: 11509
Ion	Ratio	Lower Upper
42	100	
72	38.4	31.4 47.0
71	40.7	30.2 45.4

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#42

Bromodichloromethane

Concen: 0.497 ppbv

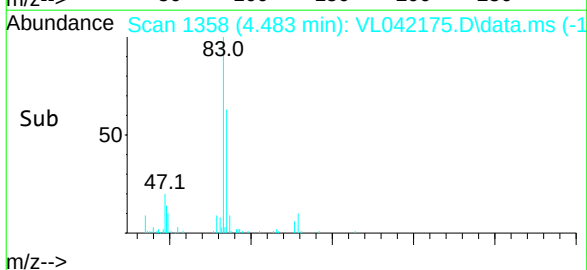
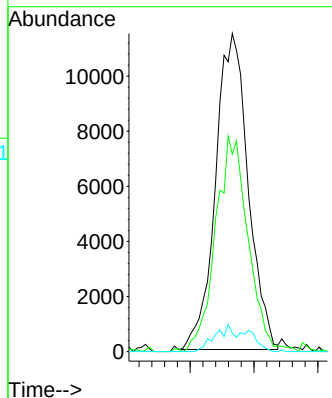
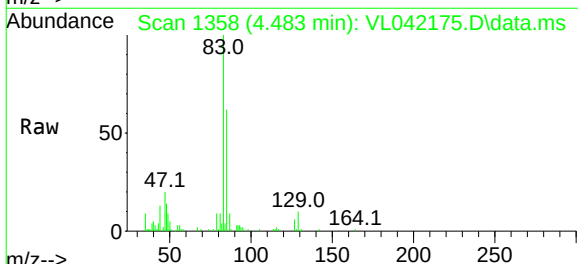
RT: 4.483 min Scan# 1358

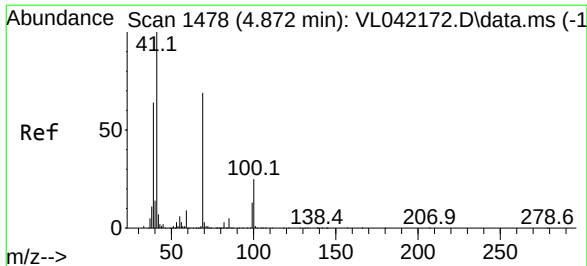
Delta R.T. -0.000 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

Tgt	Ion: 83	Resp: 20374
Ion	Ratio	Lower Upper
83	100	
85	61.6	50.5 75.7
127	5.9	5.9 8.9#





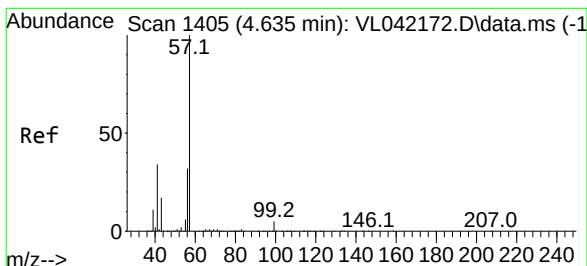
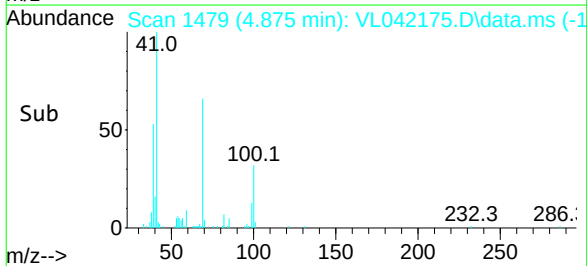
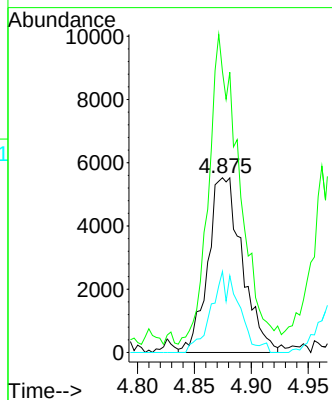
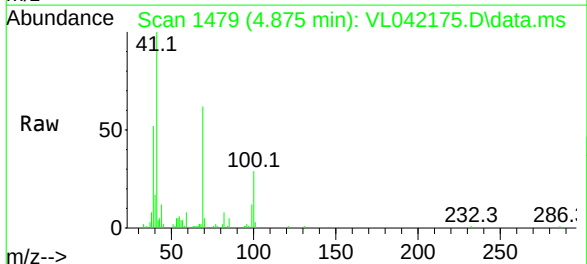
#43
Methyl Methacrylate
Concen: 0.528 ppbv m
RT: 4.875 min Scan# 1478
Delta R.T. 0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 69 Resp: 11583
Ion Ratio Lower Upper
69 100
41 150.3 123.8 185.6
100 37.9 28.4 42.6

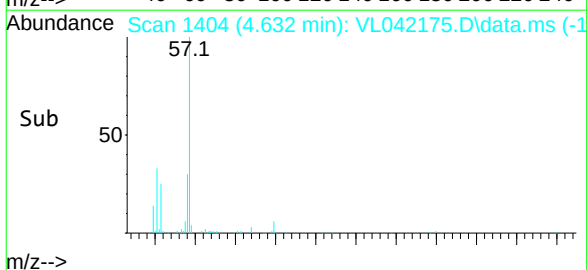
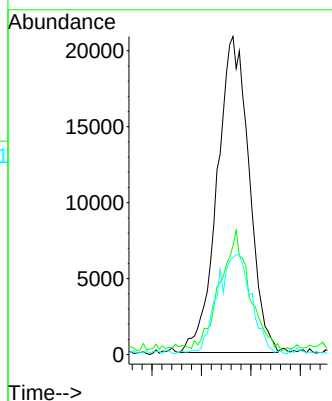
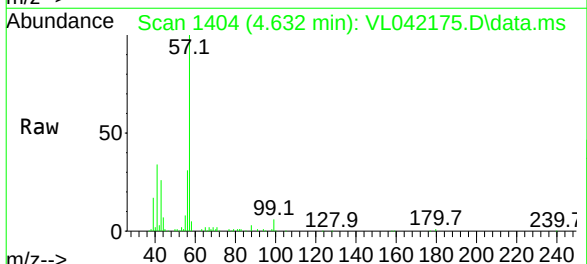
Manual Integrations
APPROVED

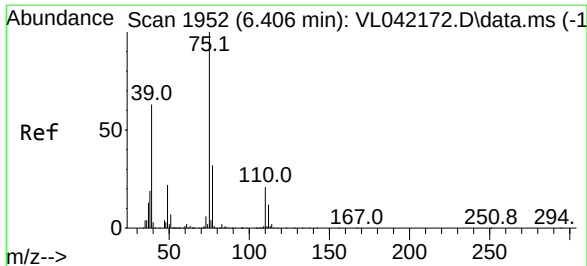
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#44
2,2,4-Trimethylpentane
Concen: 0.532 ppbv
RT: 4.632 min Scan# 1404
Delta R.T. -0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 57 Resp: 46646
Ion Ratio Lower Upper
57 100
41 36.7 26.8 40.2
56 34.3 25.6 38.4





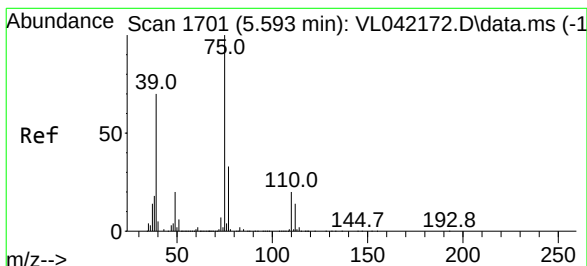
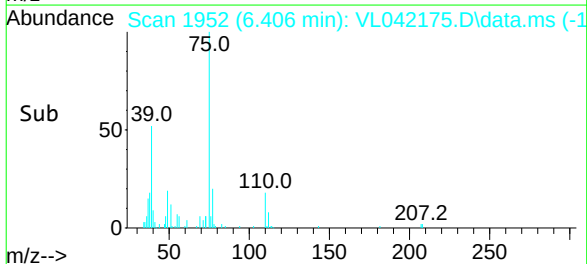
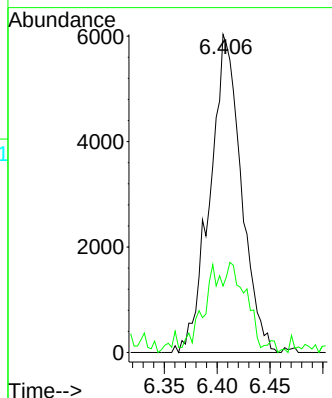
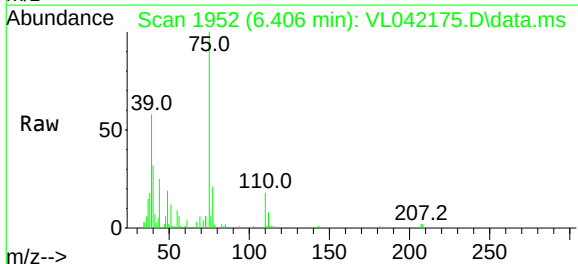
#45
t-1,3-Dichloropropene
Concen: 0.526 ppbv
RT: 6.406 min Scan# 1952
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 75 Resp: 12404
Ion Ratio Lower Upper
75 100
77 20.9 26.0 39.0#

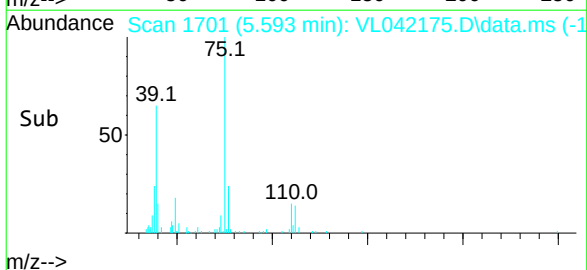
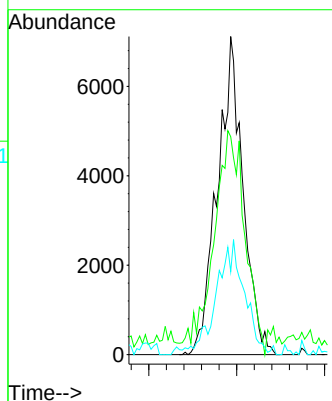
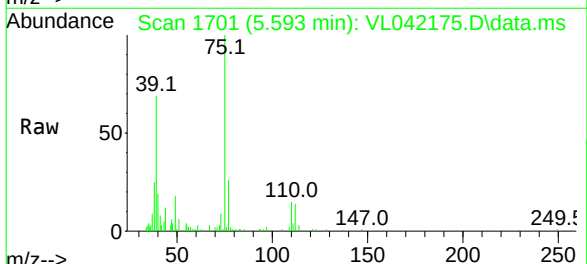
Manual Integrations
APPROVED

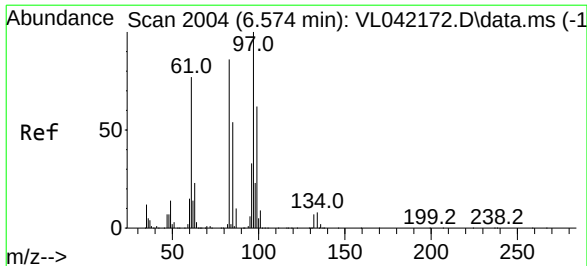
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#46
cis-1,3-Dichloropropene
Concen: 0.497 ppbv m
RT: 5.593 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

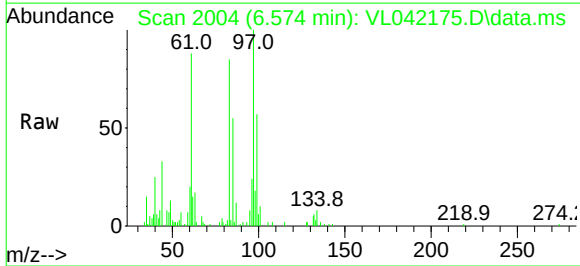
Tgt Ion: 75 Resp: 14374
Ion Ratio Lower Upper
75 100
39 68.5 55.8 83.6
77 26.1 26.0 39.0





#47
1,1,2-Trichloroethane
Concen: 0.549 ppbv m
RT: 6.574 min Scan# 2004
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

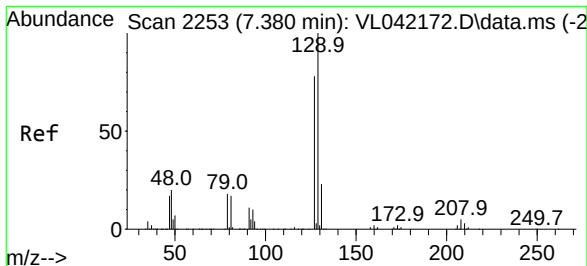
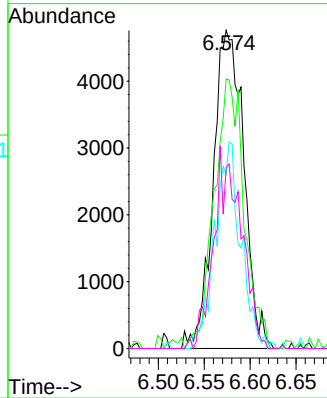
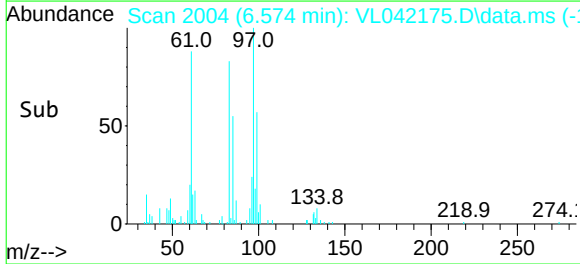
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



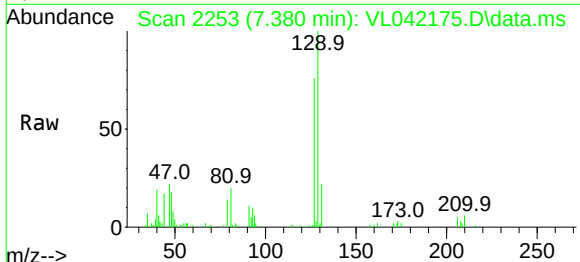
Tgt Ion	Ratio	Lower	Upper
97	100		
83	84.8	69.2	103.8
85	54.9	43.1	64.7
99	57.0	49.4	74.2

Manual Integrations
APPROVED

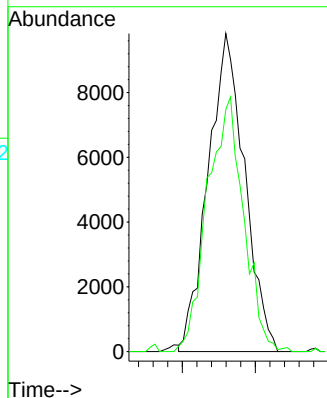
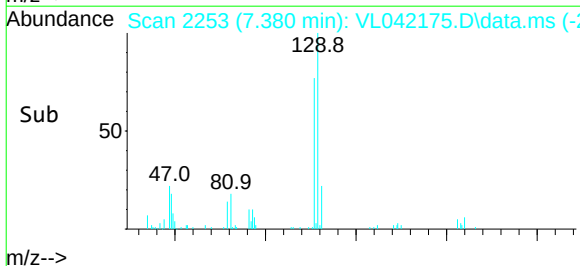
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

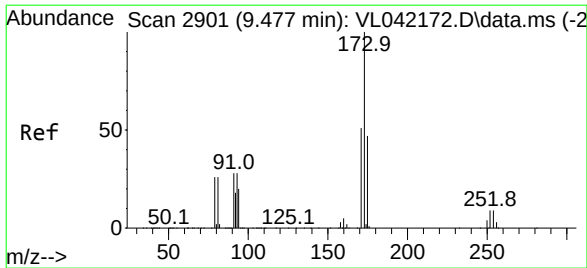


#48
Dibromochloromethane
Concen: 0.503 ppbv
RT: 7.380 min Scan# 2253
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01



Tgt Ion	Ratio	Lower	Upper
129	100		
127	79.4	39.1	117.2





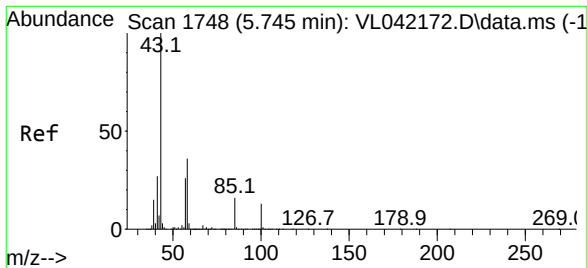
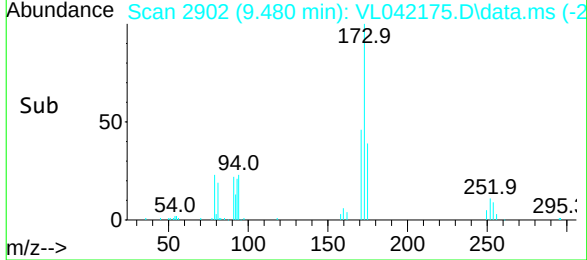
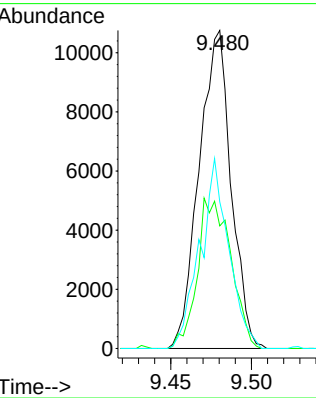
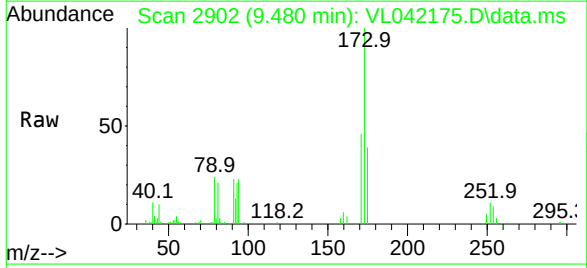
#49
Bromoform
Concen: 0.487 ppbv
RT: 9.480 min Scan# 2901
Delta R.T. 0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 173 Resp: 14828
Ion Ratio Lower Upper
173 100
175 49.7 38.6 57.8
171 53.8 41.8 62.6

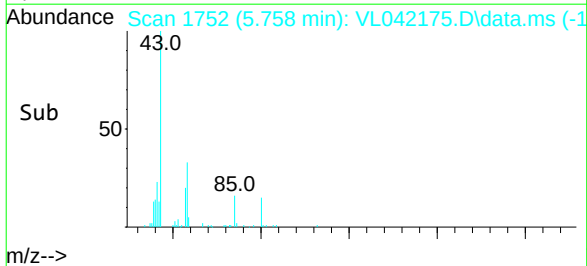
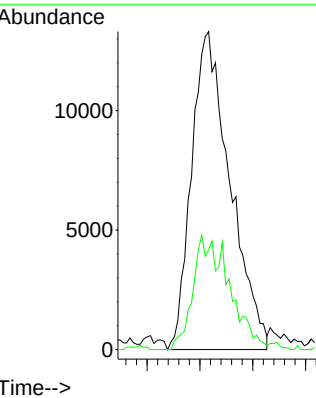
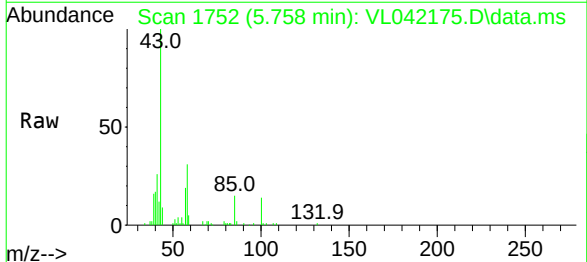
Manual Integrations
APPROVED

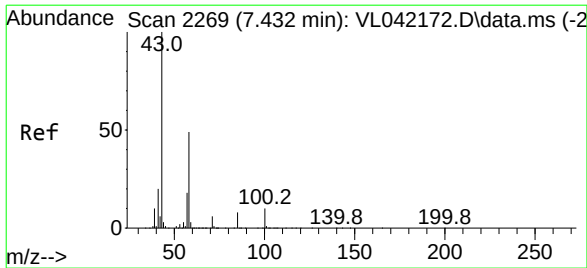
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#50
4-Methyl-2-Pentanone
Concen: 0.559 ppbv
RT: 5.758 min Scan# 1752
Delta R.T. 0.013 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

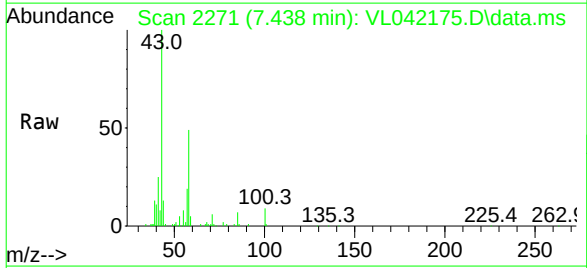
Tgt Ion: 43 Resp: 33674
Ion Ratio Lower Upper
43 100
58 34.4 29.0 43.6





#51
2-Hexanone
Concen: 0.523 ppbv
RT: 7.438 min Scan# 2269
Delta R.T. 0.006 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

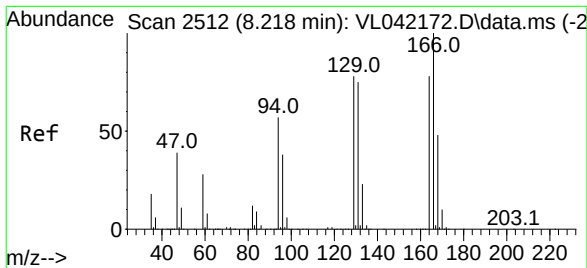
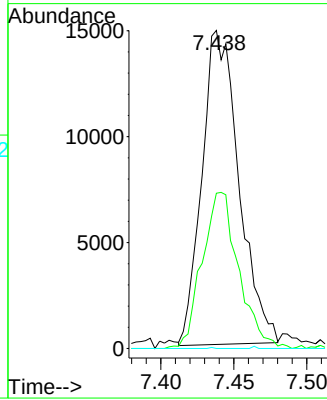
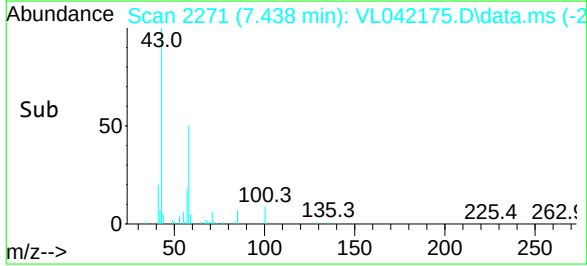
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



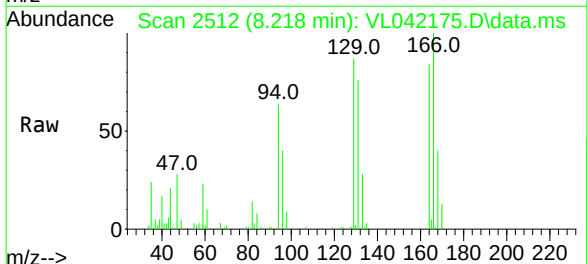
Tgt Ion: 43 Resp: 26154
Ion Ratio Lower Upper
43 100
58 49.8 39.7 59.5
98 0.0 0.1 0.1

Manual Integrations
APPROVED

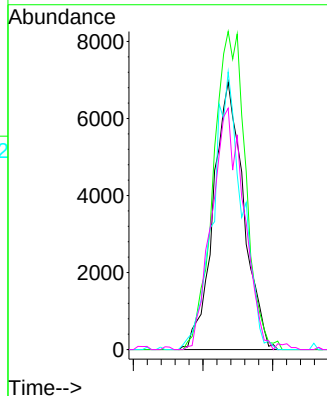
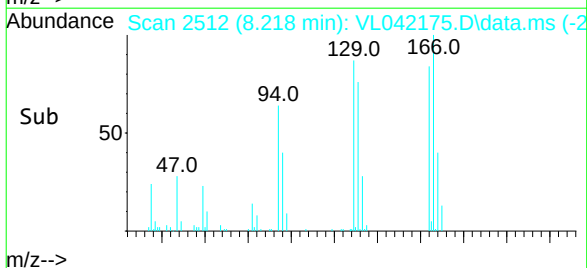
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

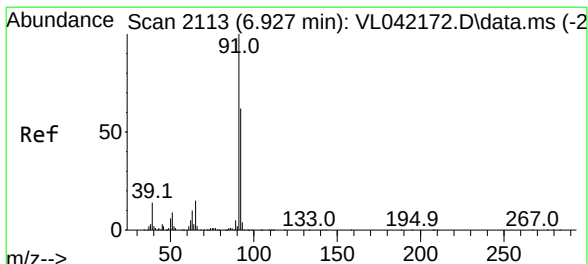


#52
Tetrachloroethene
Concen: 0.510 ppbv
RT: 8.218 min Scan# 2512
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01



Tgt Ion:164 Resp: 10502
Ion Ratio Lower Upper
164 100
166 118.9 102.5 153.7
129 103.8 79.8 119.8
131 90.2 76.6 114.8



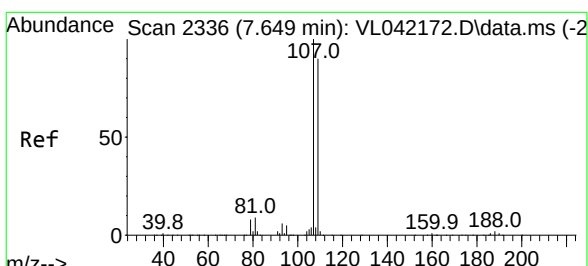
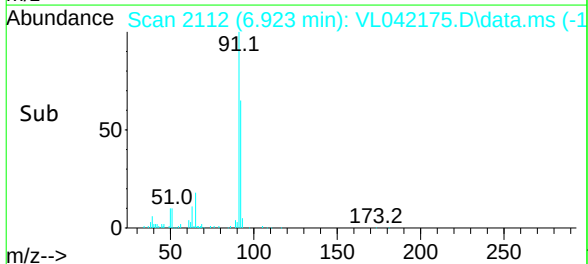
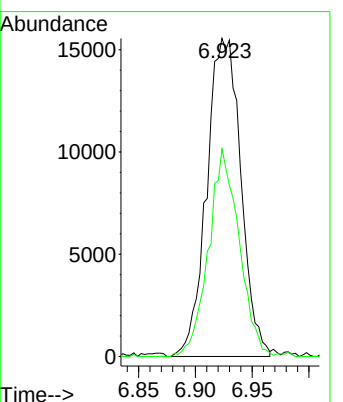
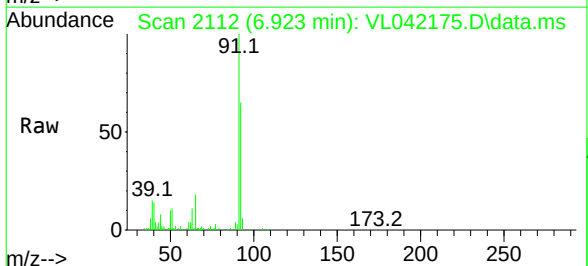


#53
Toluene
Concen: 0.527 ppbv
RT: 6.923 min Scan# 2113
Delta R.T. -0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Instrument : MSVOA_L
ClientSampleId : VSTDIC0.5

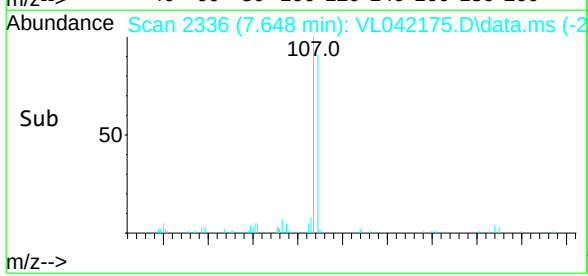
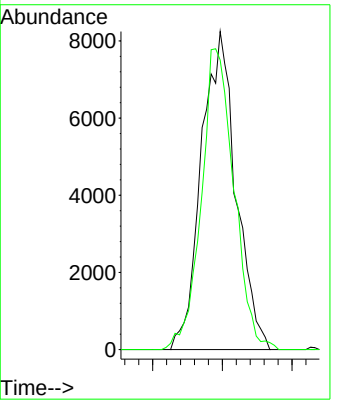
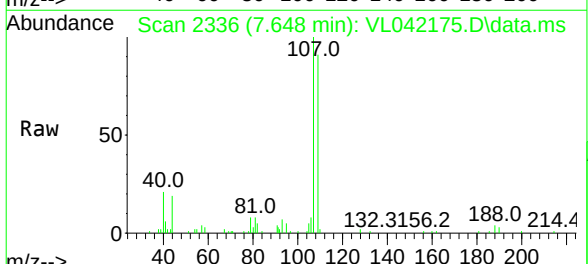
Tgt Ion:	91	Resp:	32444
Ion	Ratio	Lower	Upper
91	100		
92	58.9	48.4	72.6

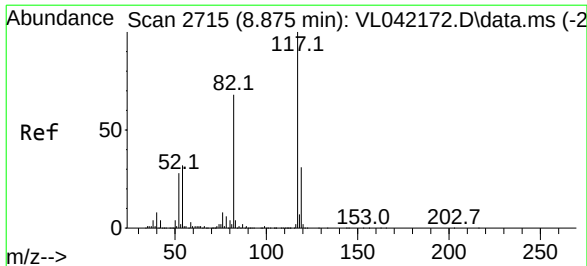
Manual Integrations
APPROVED
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#54
1,2-Dibromoethane
Concen: 0.510 ppbv
RT: 7.648 min Scan# 2336
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

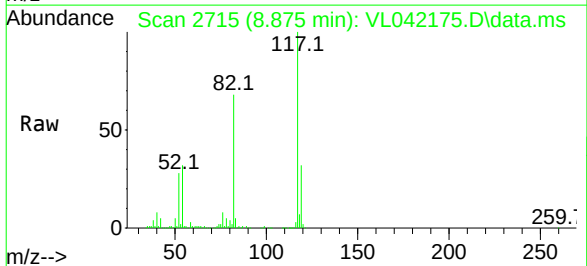
Tgt Ion:	107	Resp:	14220
Ion	Ratio	Lower	Upper
107	100		
109	89.1	72.2	108.4





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

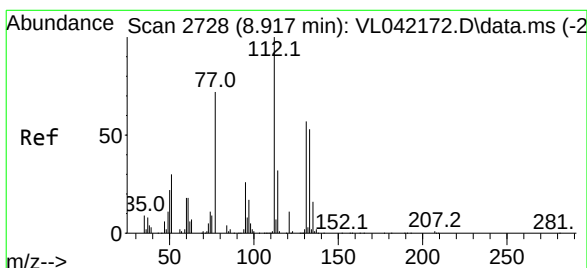
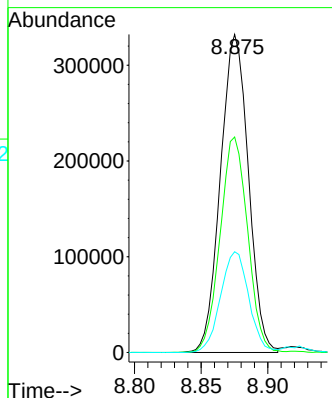
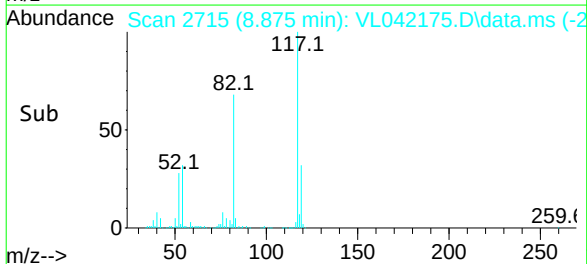
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



Tgt Ion:117 Resp: 485078
Ion Ratio Lower Upper
117 100
82 67.0 55.8 83.6
119 33.7 25.5 38.3

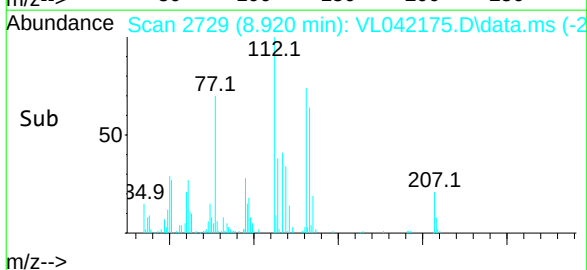
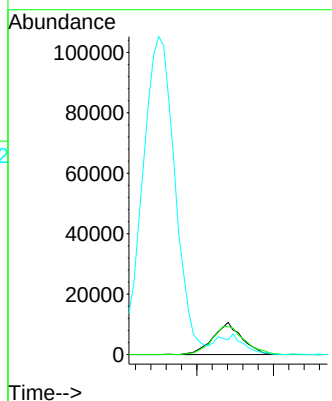
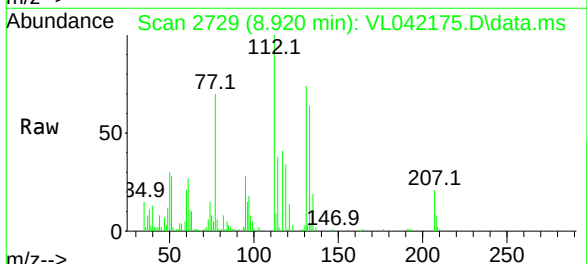
Manual Integrations
APPROVED

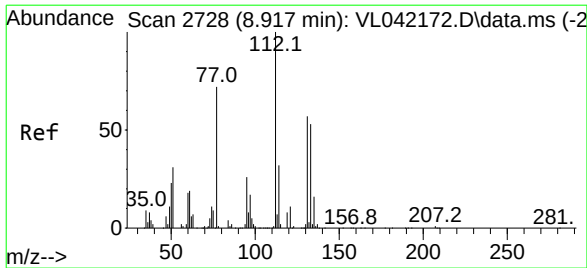
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#56
1,1,1,2-Tetrachloroethane
Concen: 0.523 ppbv
RT: 8.920 min Scan# 2729
Delta R.T. 0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

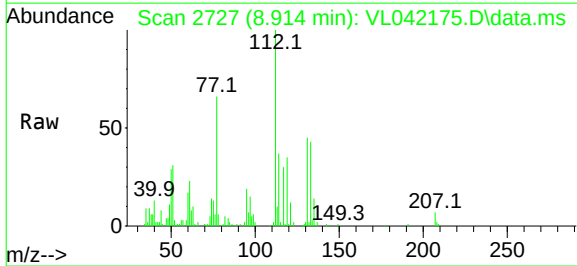
Tgt Ion:131 Resp: 13959
Ion Ratio Lower Upper
131 100
133 99.6 76.6 114.8
119 1170.3 49.8 74.6#





#57
Chlorobenzene
Concen: 0.540 ppbv
RT: 8.914 min Scan# 2728
Delta R.T. -0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

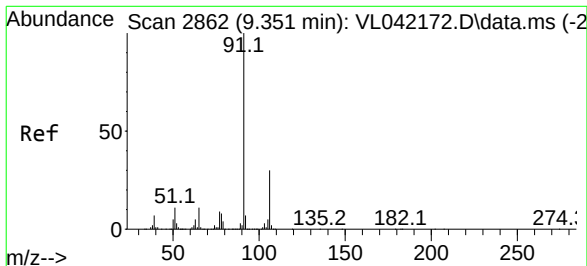
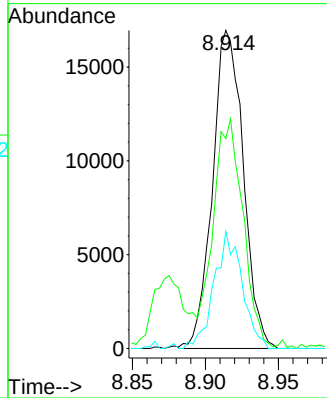
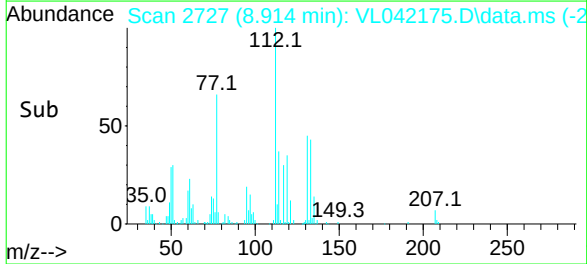
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



Tgt Ion: 112 Resp: 24826
Ion Ratio Lower Upper
112 100
77 65.1 58.2 87.2
114 36.8 29.1 35.5#

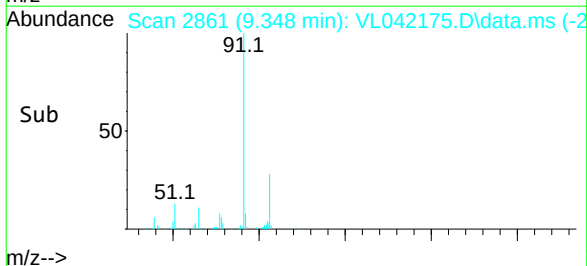
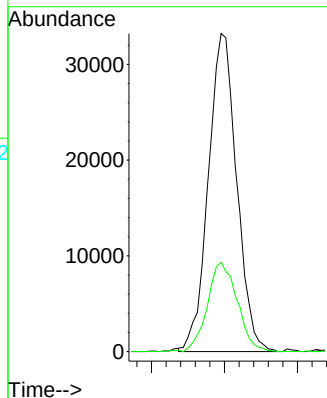
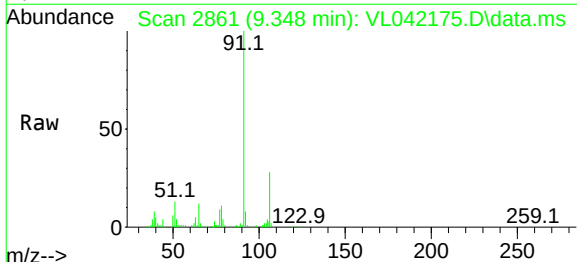
Manual Integrations
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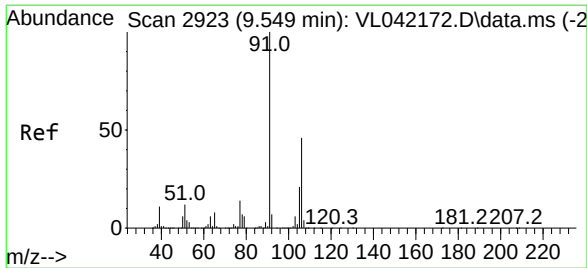
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#58
Ethyl Benzene
Concen: 0.521 ppbv
RT: 9.348 min Scan# 2861
Delta R.T. -0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 91 Resp: 44862
Ion Ratio Lower Upper
91 100
106 28.1 24.2 36.2





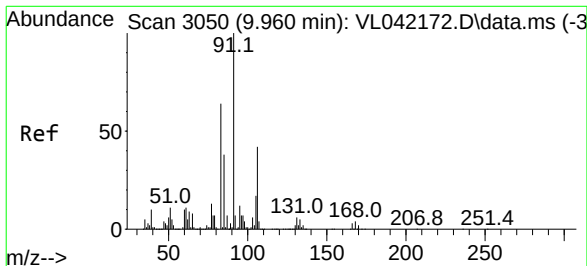
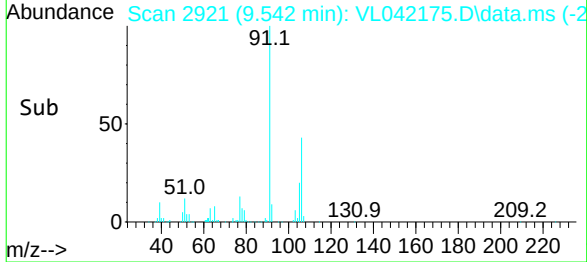
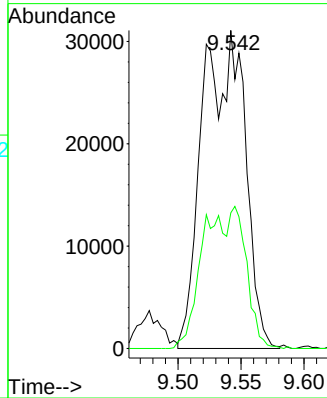
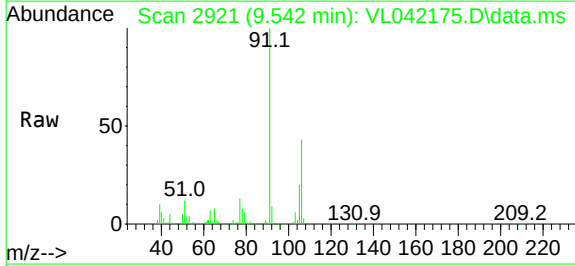
#59
m/p-Xylene
Concen: 1.060 ppbv m
RT: 9.542 min Scan# 29
Delta R.T. -0.007 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 91 Resp: 73028
Ion Ratio Lower Upper
91 100
106 45.2 36.4 54.6

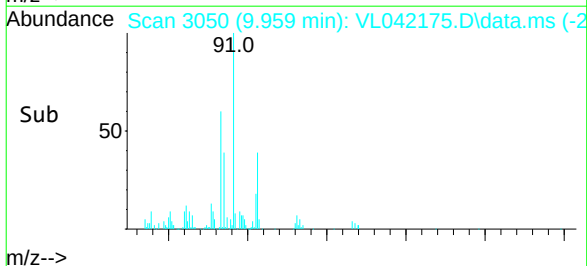
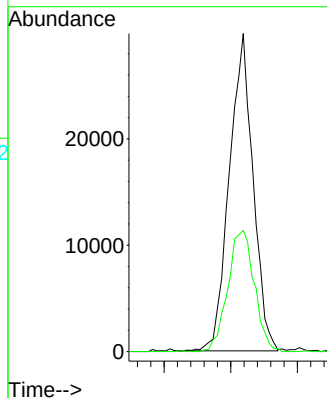
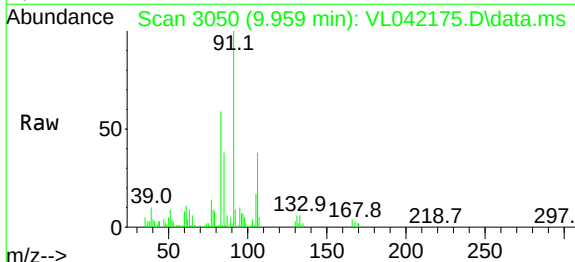
Manual Integrations
APPROVED

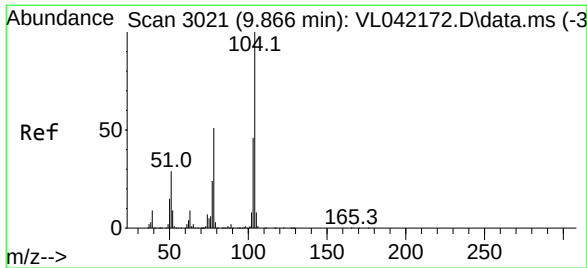
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#60
o-Xylene
Concen: 0.535 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 91 Resp: 36879
Ion Ratio Lower Upper
91 100
106 42.7 20.8 62.5





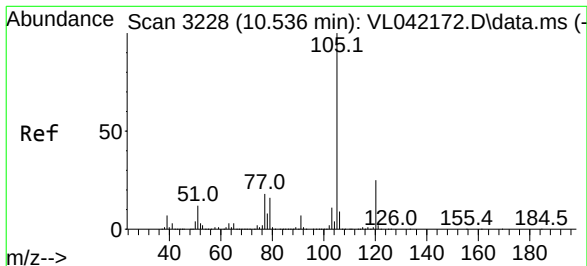
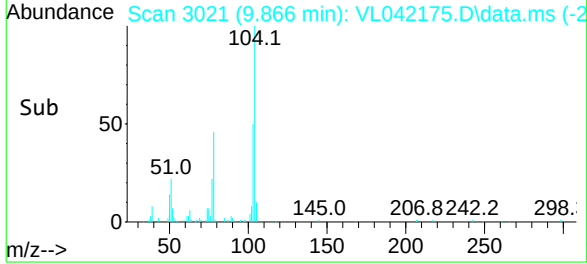
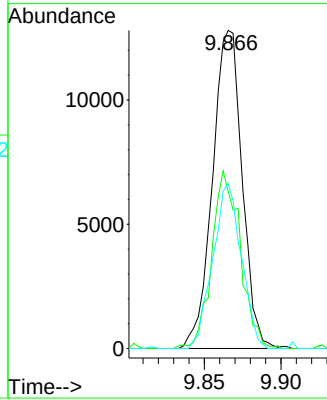
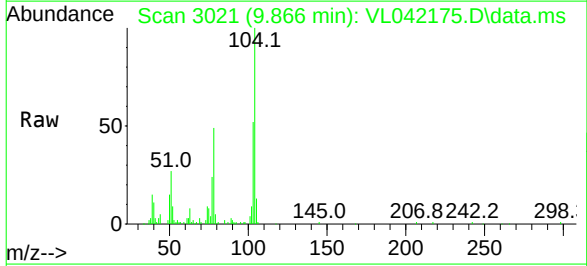
#61
Styrene
Concen: 0.504 ppbv
RT: 9.866 min Scan# 3021
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Instrument : MSVOA_L
ClientSampleId : VSTDIC0.5

Tgt Ion:	104	Resp:	17198
Ion Ratio	Lower	Upper	
104	100		
78	53.7	41.8	62.6
103	50.2	37.0	55.4

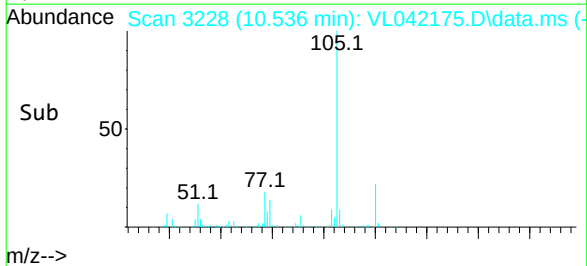
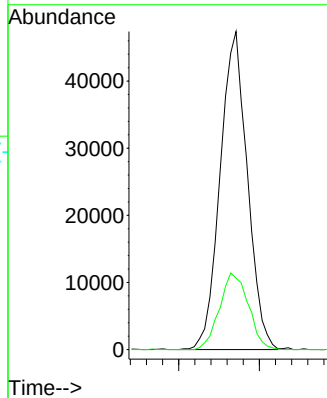
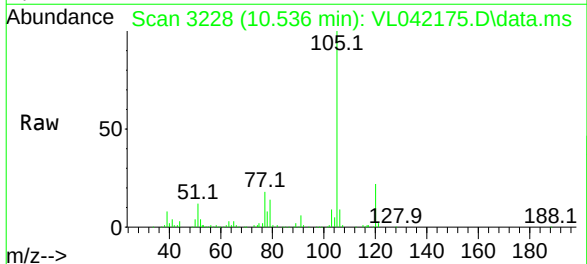
Manual Integrations
APPROVED

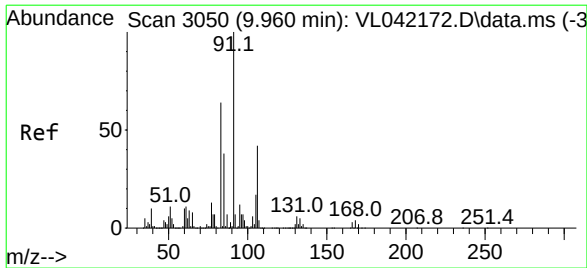
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#62
Isopropylbenzene
Concen: 0.538 ppbv
RT: 10.536 min Scan# 3228
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion:	105	Resp:	55531
Ion Ratio	Lower	Upper	
105	100		
120	25.5	19.9	29.9





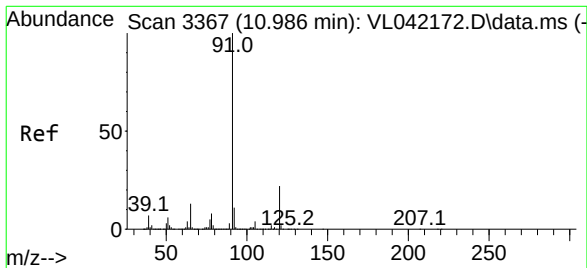
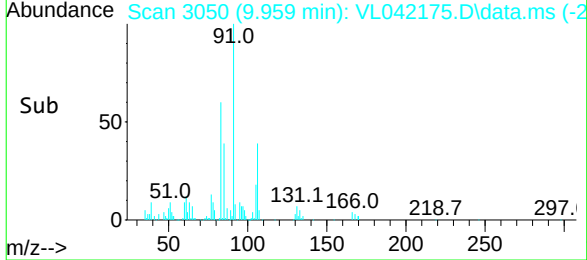
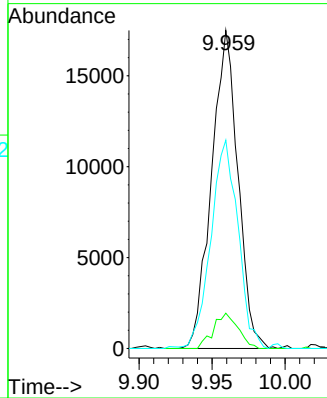
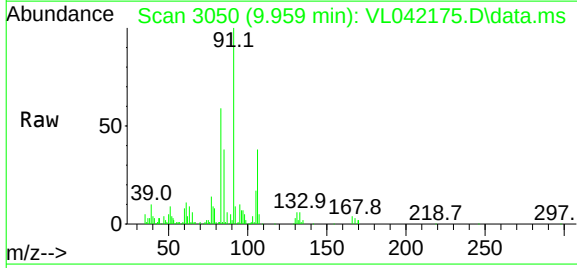
#63
1,1,2,2-Tetrachloroethane
Concen: 0.525 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Instrument : MSVOA_L
ClientSampleId : VSTDIC0.5

Tgt Ion:	83	Resp:	21989
Ion	Ratio	Lower	Upper
83	100		
131	10.4	4.8	14.4
85	68.1	32.5	97.5

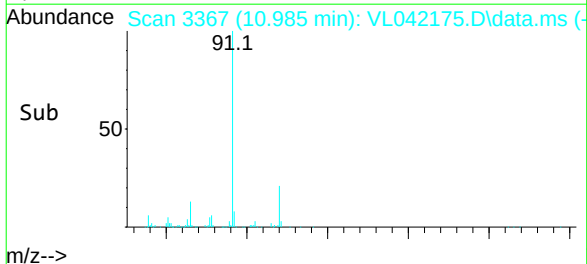
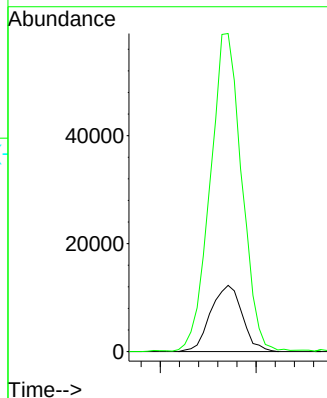
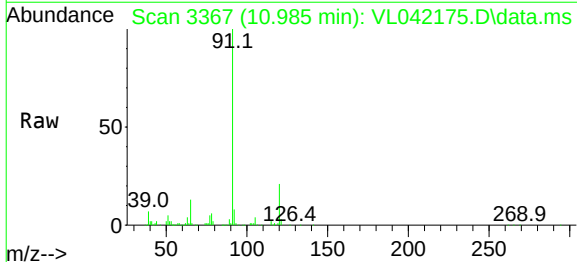
Manual Integrations
APPROVED

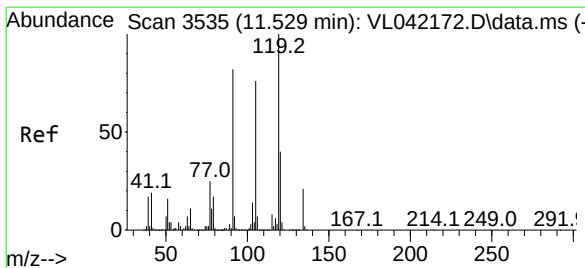
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#64
n-propylbenzene
Concen: 0.528 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion:	120	Resp:	14030
Ion	Ratio	Lower	Upper
120	100		
91	483.1	376.9	565.3





#65

tert-Butylbenzene

Concen: 0.557 ppbv

RT: 11.526 min Scan# 3511

Delta R.T. -0.003 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

Instrument :

MSVOA_L

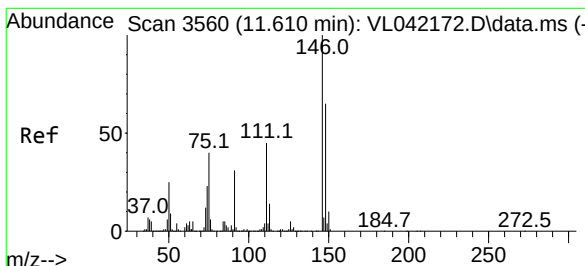
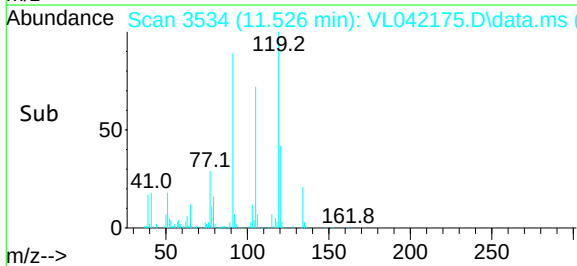
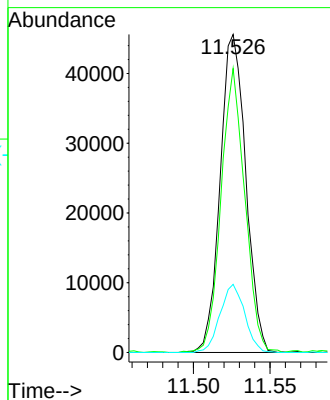
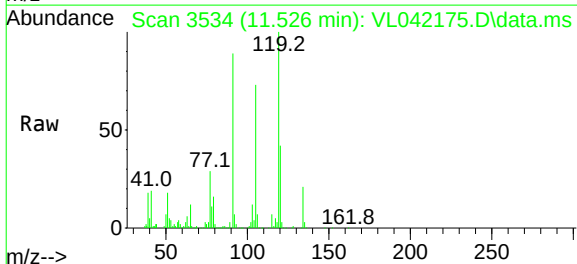
ClientSampleId :

VSTDIC0.5

Tgt Ion:	119	Resp:	53115
Ion	Ratio	Lower	Upper
119	100		
91	82.9	66.0	99.0
134	20.6	16.7	25.1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#66

Benzyl Chloride

Concen: 0.520 ppbv

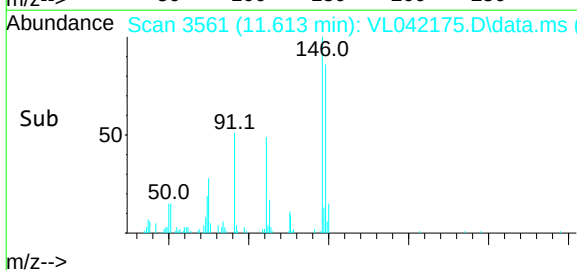
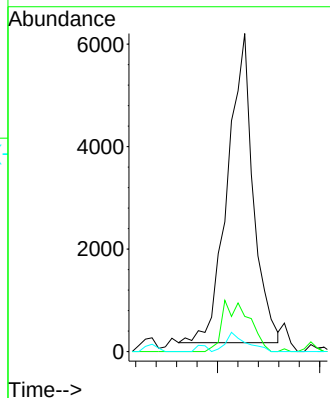
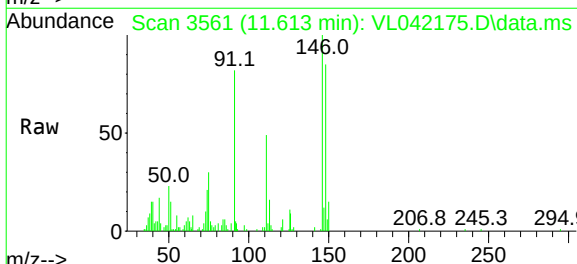
RT: 11.613 min Scan# 3561

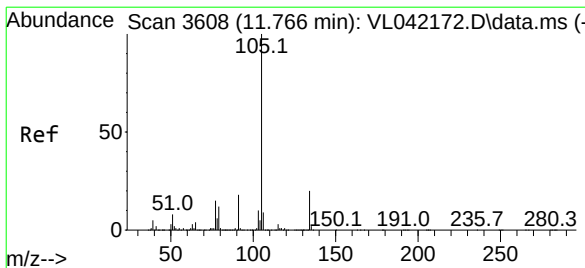
Delta R.T. 0.003 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

Tgt Ion:	91	Resp:	5263
Ion	Ratio	Lower	Upper
91	100		
126	18.7	13.8	20.6
128	5.8	4.5	6.7





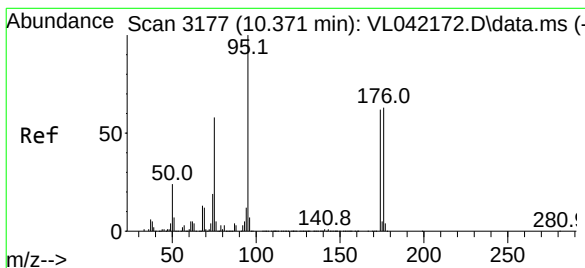
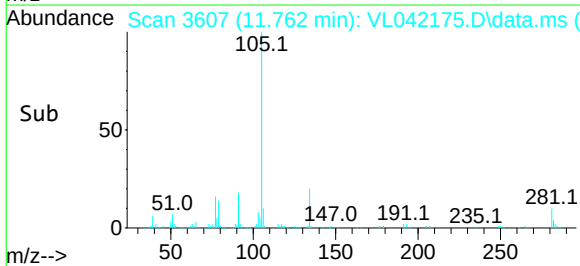
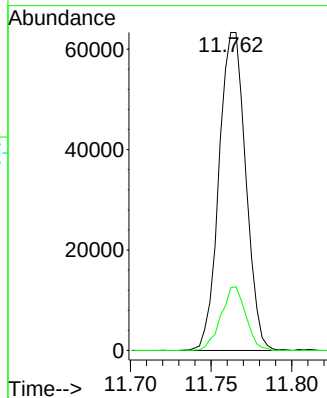
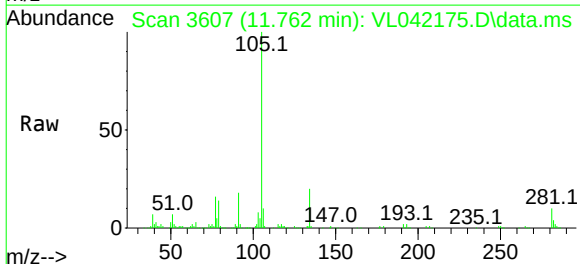
#67
 sec-Butylbenzene
 Concen: 0.550 ppbv
 RT: 11.762 min Scan# 3608
 Delta R.T. -0.003 min
 Lab File: VL042175.D
 Acq: 27 Mar 2025 10:01

Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.5

Tgt Ion: 105 Resp: 72879
 Ion Ratio Lower Upper
 105 100
 134 18.6 15.5 23.3

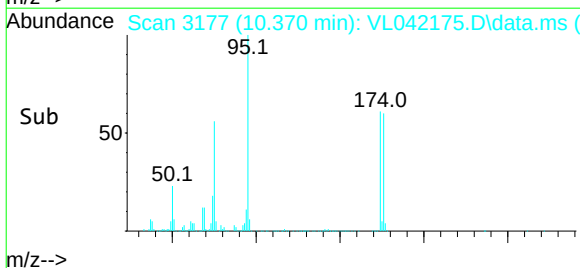
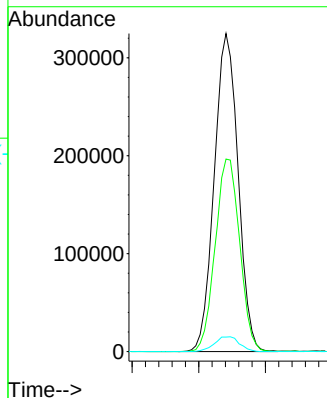
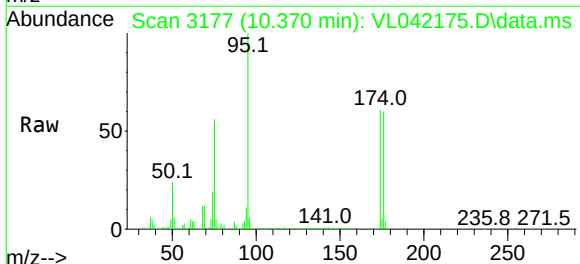
Manual Integrations
 APPROVED

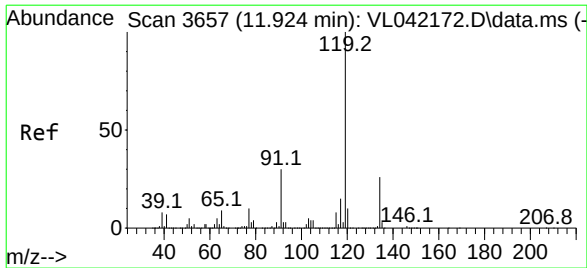
Reviewed By : Semsettin Yesilyurt 03/31/2025
 Supervised By : Mahesh Dadoda 04/03/2025



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.130 ppbv
 RT: 10.370 min Scan# 3177
 Delta R.T. -0.000 min
 Lab File: VL042175.D
 Acq: 27 Mar 2025 10:01

Tgt Ion: 95 Resp: 403513
 Ion Ratio Lower Upper
 95 100
 174 62.3 50.6 76.0
 175 4.9 3.8 5.6





#69

p-Isopropyltoluene

Concen: 0.542 ppbv

RT: 11.921 min Scan# 3657

Delta R.T. -0.003 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

Instrument :

MSVOA_L

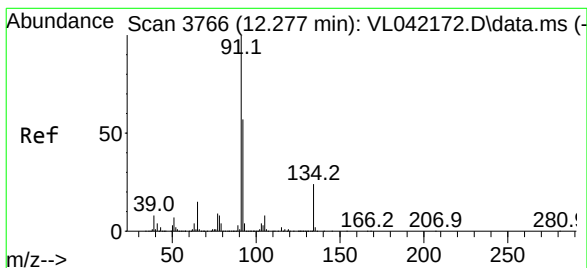
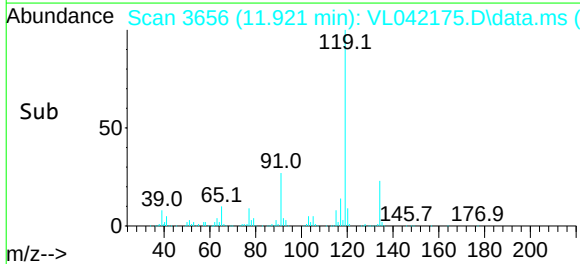
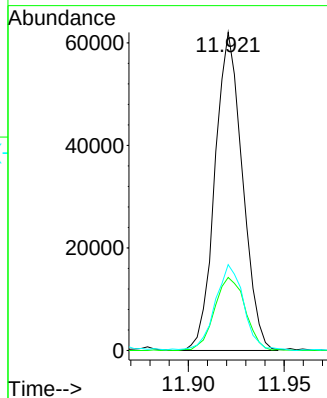
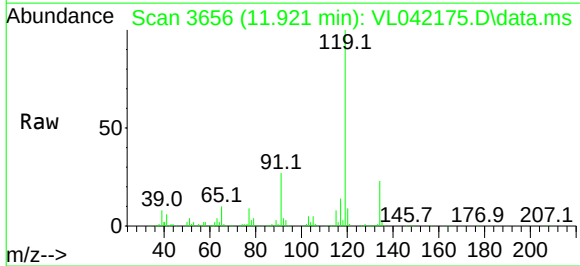
ClientSampleId :

VSTDIC0.5

Tgt Ion:	119	Resp:	61933
Ion	Ratio	Lower	Upper
119	100		
134	25.8	20.4	30.6
91	29.4	23.7	35.5

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#70

n-Butylbenzene

Concen: 0.527 ppbv

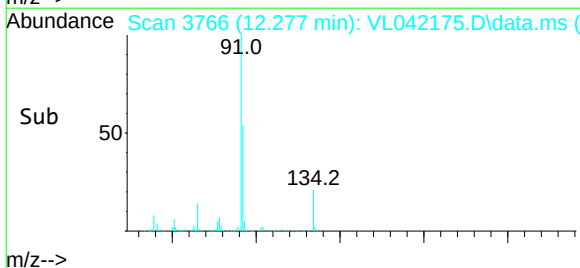
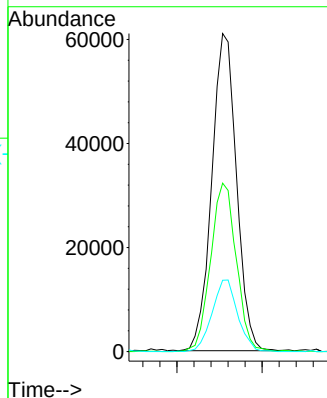
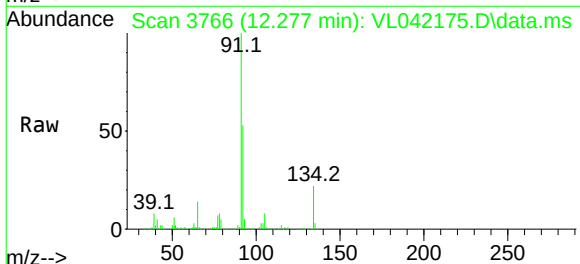
RT: 12.277 min Scan# 3766

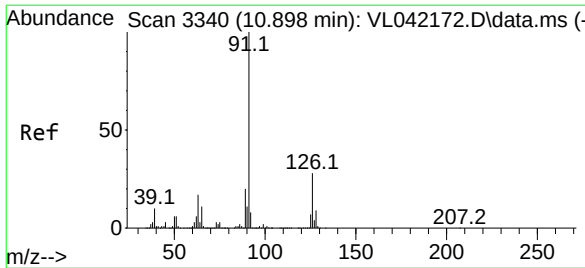
Delta R.T. -0.000 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

Tgt Ion:	91	Resp:	61507
Ion	Ratio	Lower	Upper
91	100		
92	55.3	44.9	67.3
134	23.4	19.2	28.8





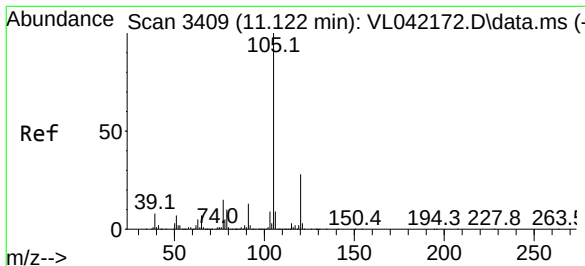
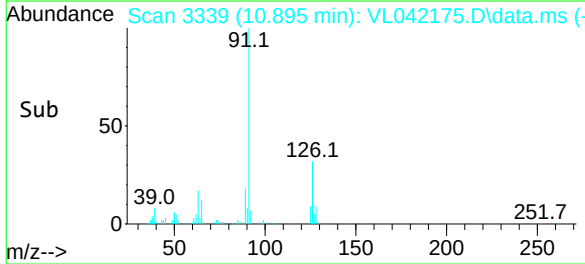
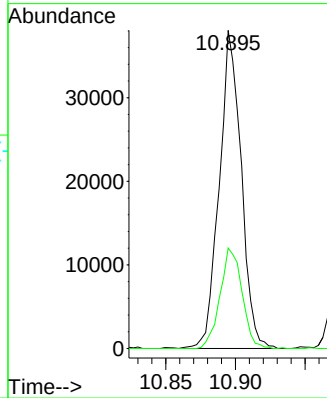
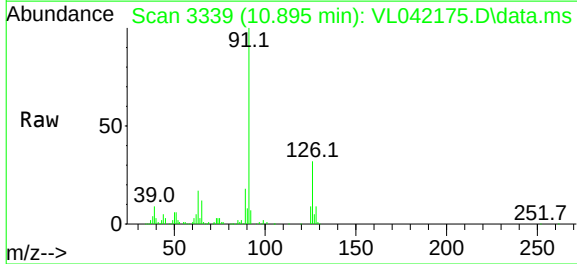
#71
2-Chlorotoluene
Concen: 0.520 ppbv
RT: 10.895 min Scan# 3339
Delta R.T. -0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 91 Resp: 41637
Ion Ratio Lower Upper
91 100
126 31.7 11.6 46.4

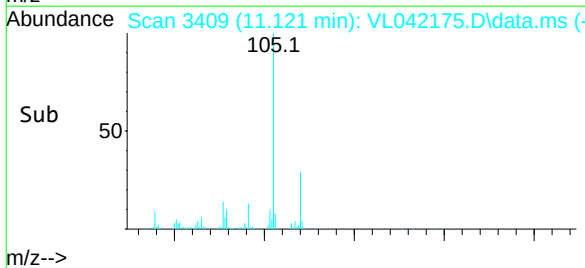
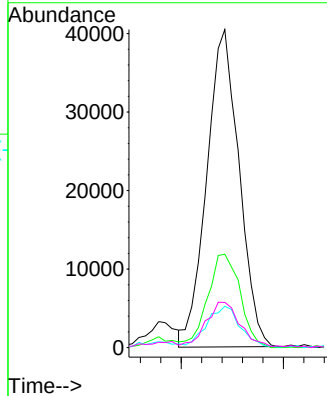
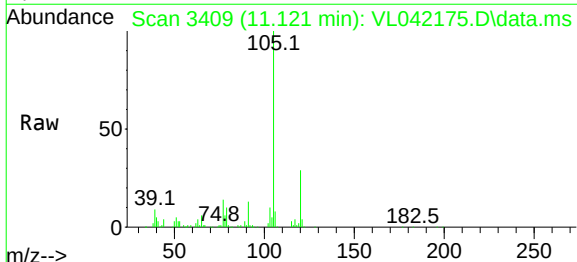
Manual Integrations
APPROVED

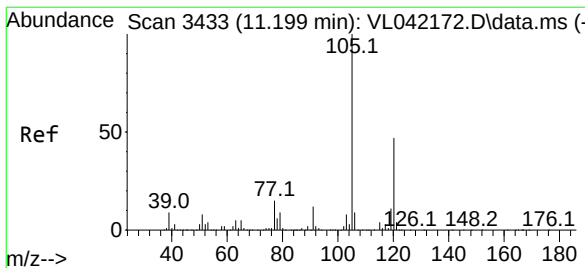
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#72
4-Ethyltoluene
Concen: 0.518 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion:105 Resp: 44473
Ion Ratio Lower Upper
105 100
120 32.3 23.4 35.0
91 14.9 10.3 15.5
77 17.8 11.4 17.2#





#73

1,3,5-Trimethylbenzene

Concen: 0.523 ppbv

RT: 11.199 min Scan# 3433

Delta R.T. -0.000 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion:105 Resp: 39190

Ion Ratio Lower Upper

105 100

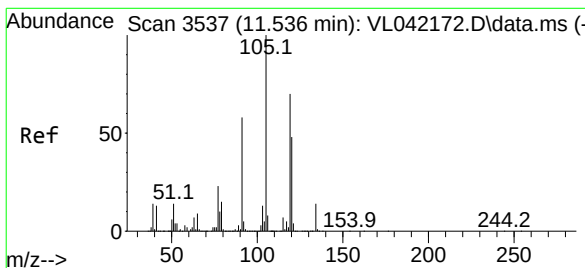
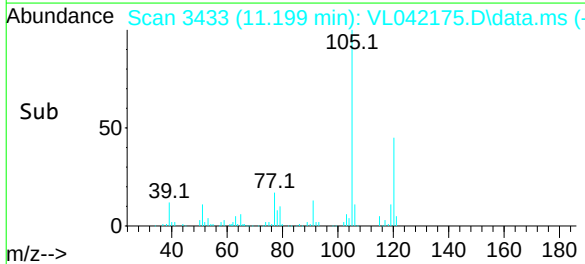
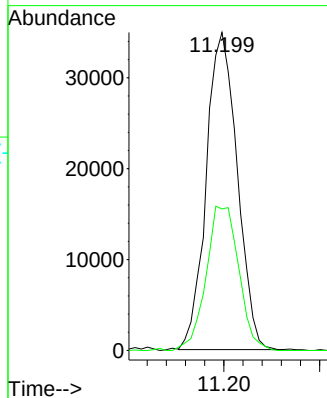
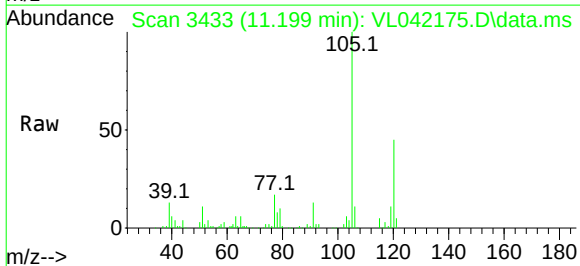
120 44.6 37.4 56.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025

Supervised By :Mahesh Dadoda 04/03/2025



#74

1,2,4-Trimethylbenzene

Concen: 0.560 ppbv

RT: 11.532 min Scan# 3536

Delta R.T. -0.003 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

Tgt Ion:105 Resp: 48370

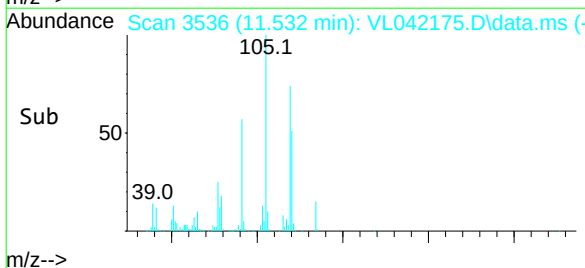
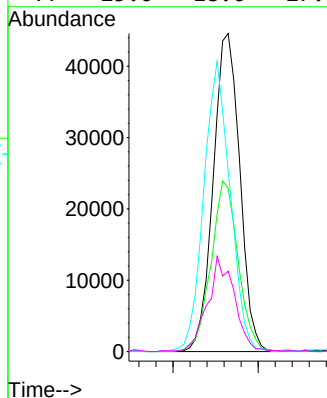
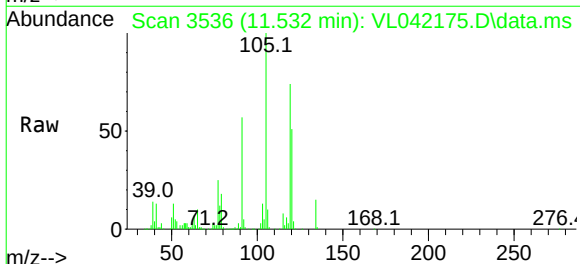
Ion Ratio Lower Upper

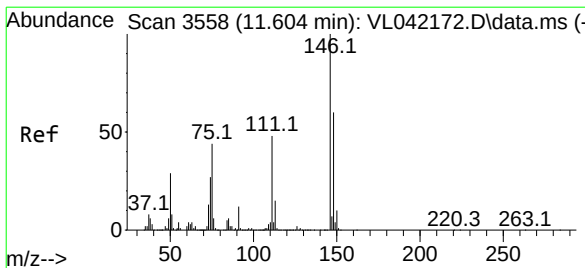
105 100

120 51.3 38.6 58.0

91 56.5 46.2 69.2

77 25.0 18.6 27.8





#75

1,3-Dichlorobenzene

Concen: 0.530 ppbv

RT: 11.600 min Scan# 3558

Delta R.T. -0.003 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

Instrument :

MSVOA_L

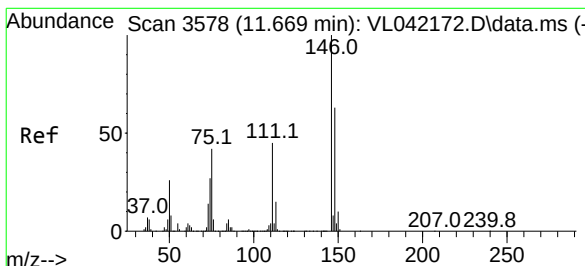
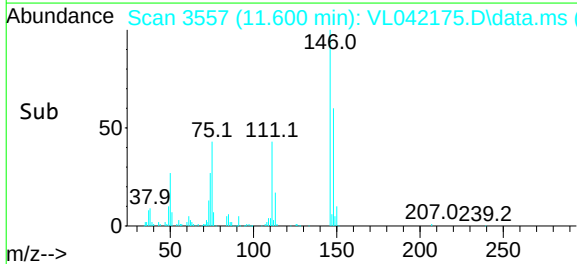
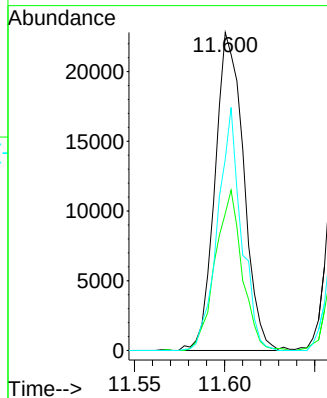
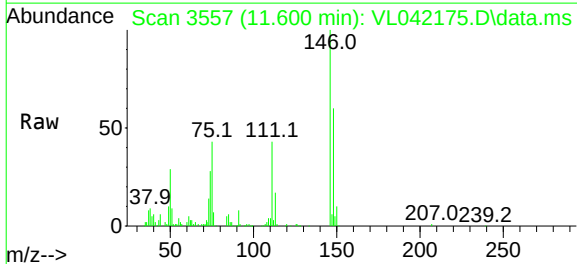
ClientSampleId :

VSTDIC0.5

Tgt Ion:	146	Resp:	25122
Ion Ratio	Lower	Upper	
146	100		
111	47.5	23.8	71.2
148	63.7	31.9	95.9

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#76

1,4-Dichlorobenzene

Concen: 0.530 ppbv

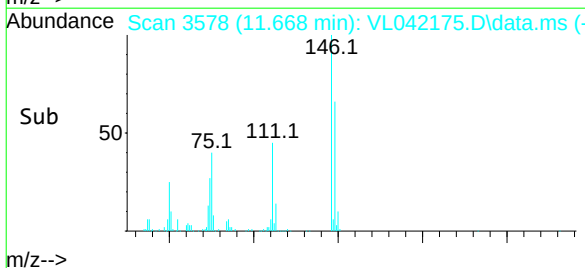
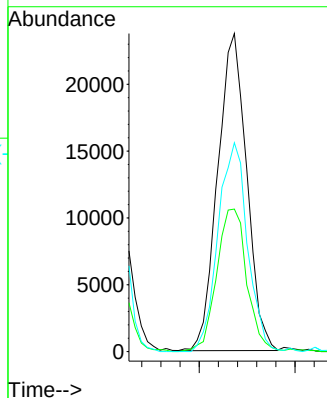
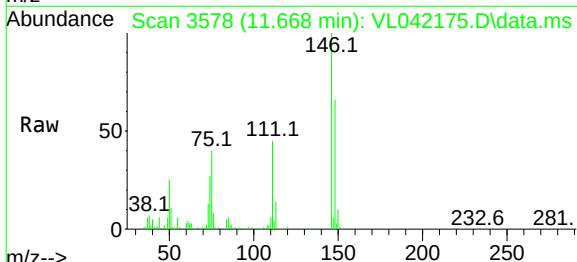
RT: 11.668 min Scan# 3578

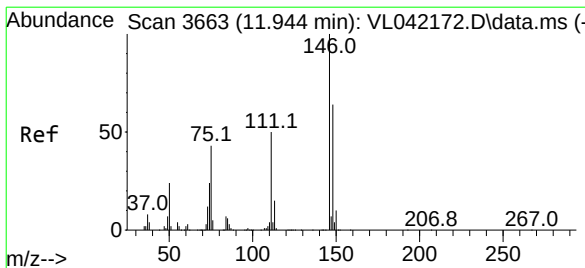
Delta R.T. -0.000 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

Tgt Ion:	146	Resp:	24991
Ion Ratio	Lower	Upper	
146	100		
111	47.0	23.0	69.0
148	67.5	31.9	95.7





#77

1,2-Dichlorobenzene

Concen: 0.532 ppbv

RT: 11.943 min Scan# 3663

Delta R.T. -0.000 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

Instrument :

MSVOA_L

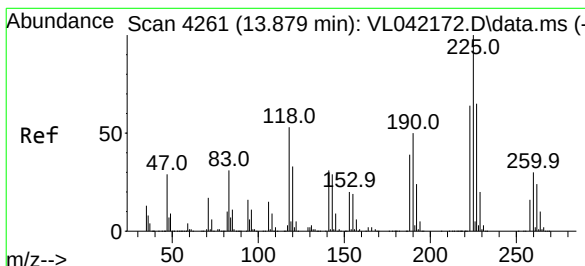
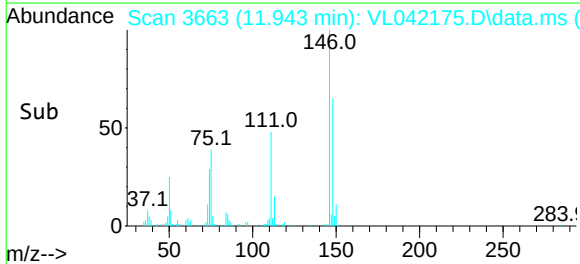
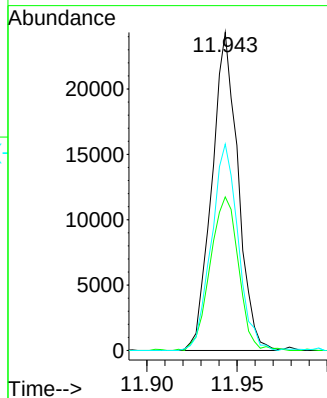
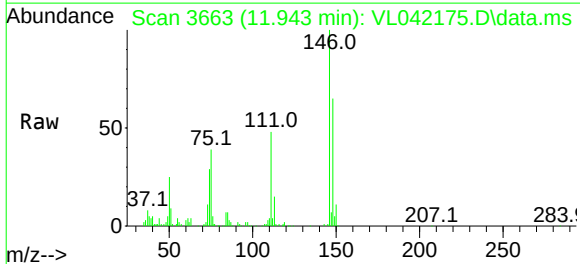
ClientSampleId :

VSTDIC0.5

Tgt Ion:	146	Resp:	24548
Ion Ratio	Lower	Upper	
146	100		
111	52.2	24.8	74.3
148	66.6	31.6	94.8

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#78

Hexachloro-1,3-Butadiene

Concen: 0.546 ppbv

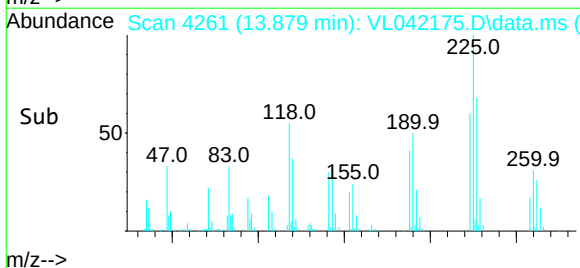
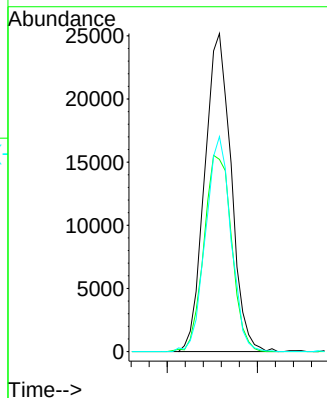
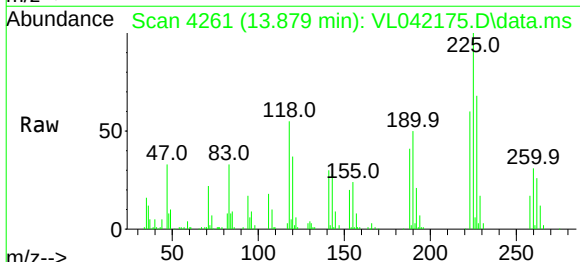
RT: 13.879 min Scan# 4261

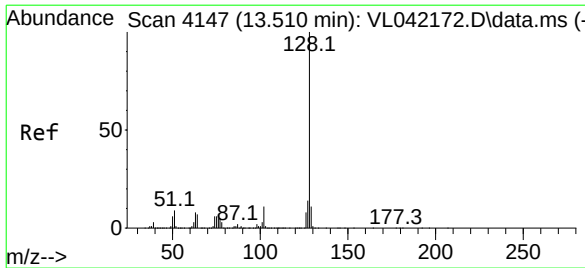
Delta R.T. -0.000 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

Tgt Ion:	225	Resp:	25636
Ion Ratio	Lower	Upper	
225	100		
223	64.5	50.6	76.0
227	64.8	51.2	76.8





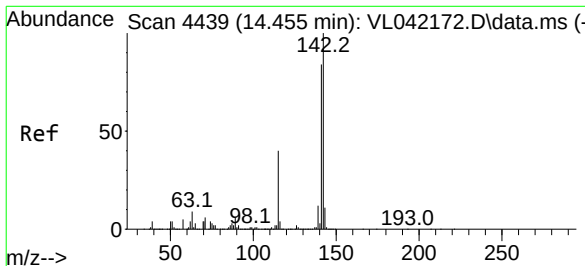
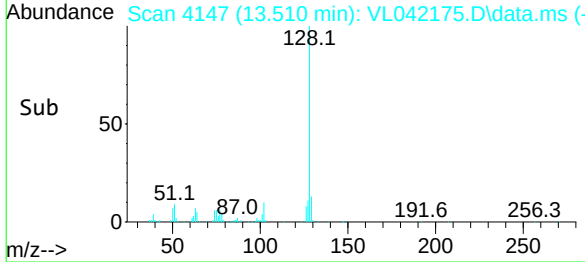
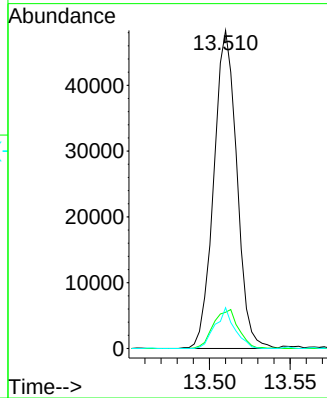
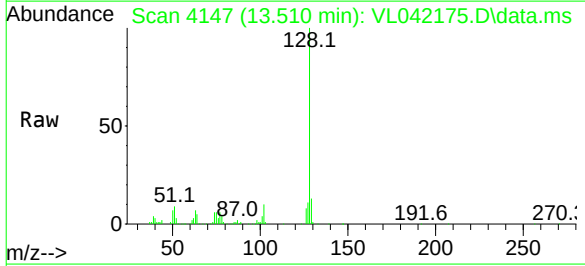
#79
Naphthalene
Concen: 0.508 ppbv
RT: 13.510 min Scan# 4147
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion:	128	Resp:	47990
Ion	Ratio	Lower	Upper
128	100		
127	11.4	10.8	16.2
129	12.8	9.0	13.4

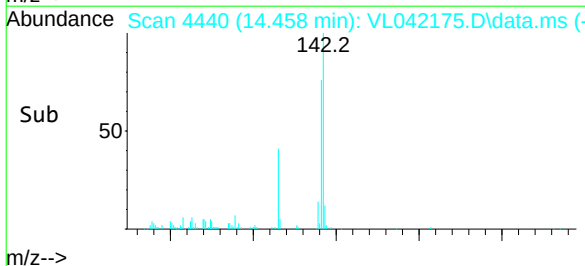
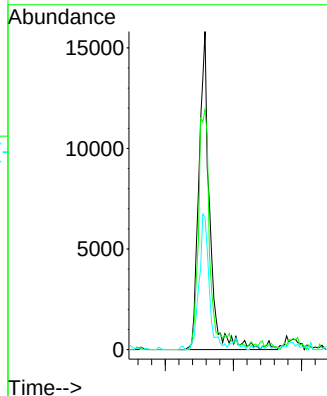
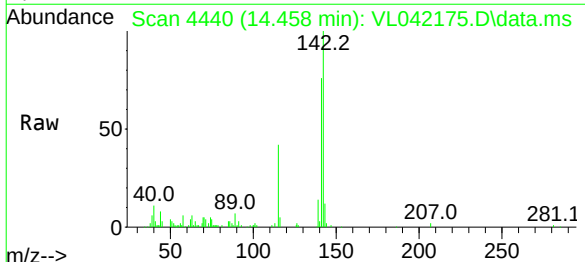
Manual Integrations
APPROVED

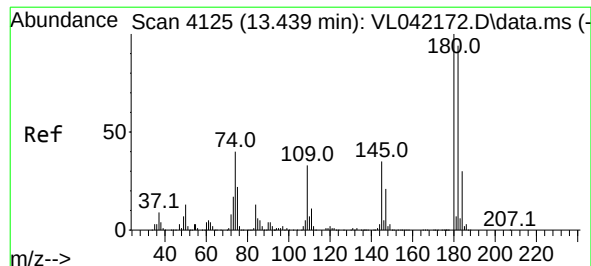
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#80
Naphthalene, 2-methyl-
Concen: 0.380 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. 0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

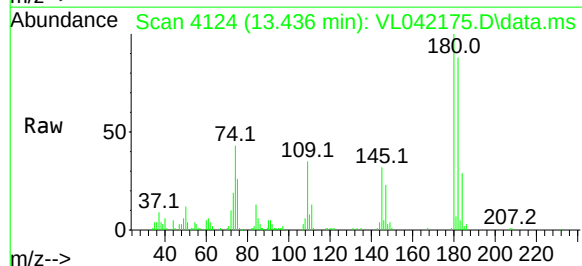
Tgt Ion:	142	Resp:	17486
Ion	Ratio	Lower	Upper
142	100		
141	83.3	66.3	99.5
115	43.5	31.6	47.4





#81
1,2,4-Trichlorobenzene
Concen: 0.457 ppbv
RT: 13.436 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

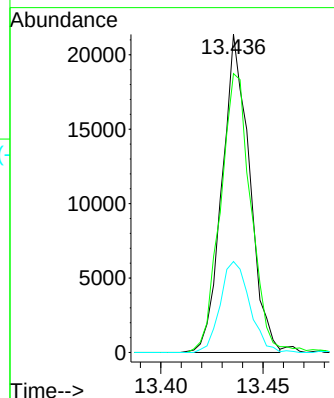
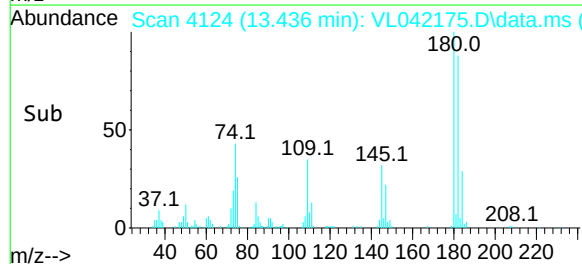
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



Tgt	Ion:180	Resp:	19924
Ion	Ratio	Lower	Upper
180	100		
182	97.9	75.1	112.7
184	31.1	24.4	36.6

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 : 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

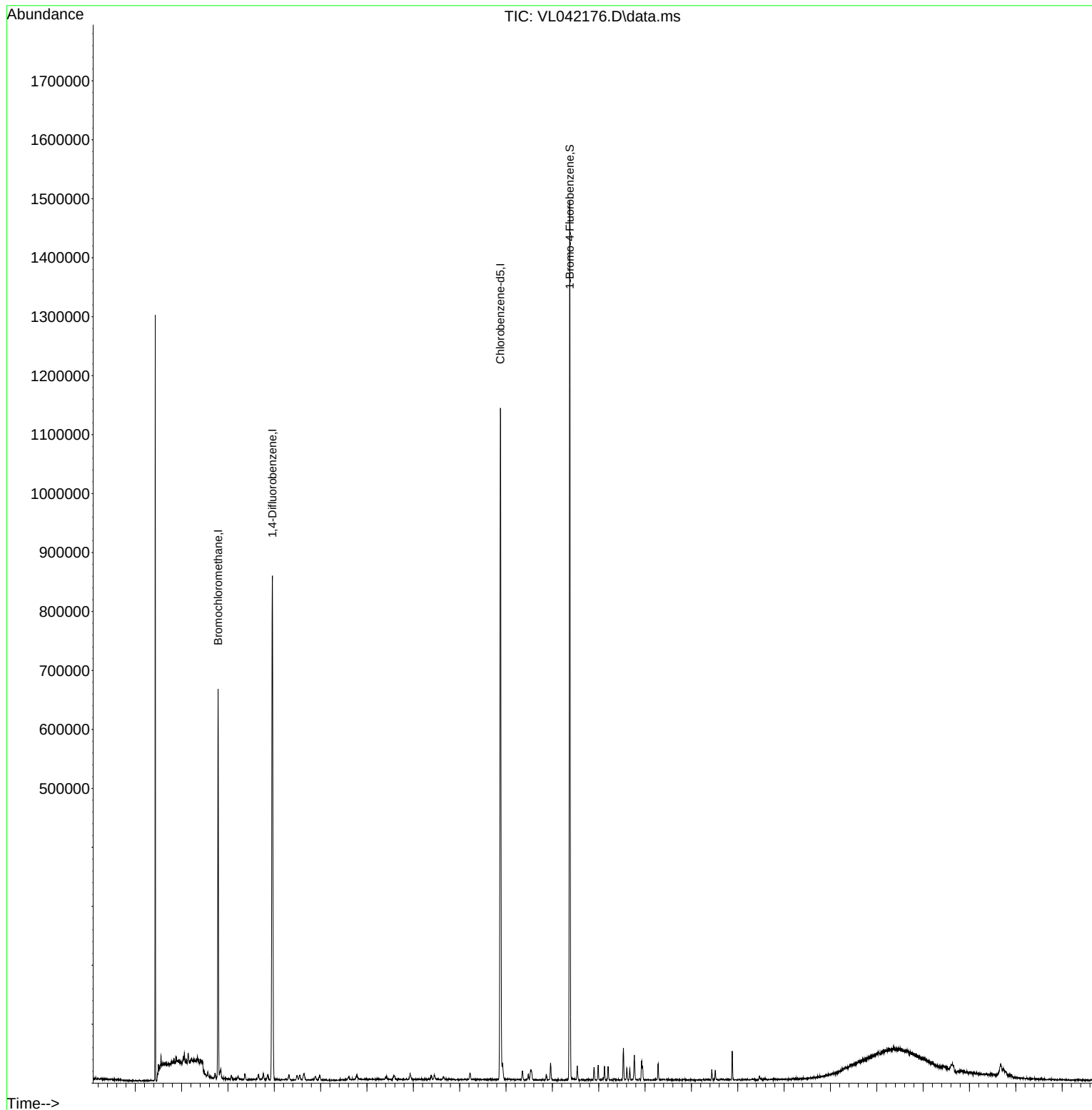
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Data File : VL042176.D
Acq On : 27 Mar 2025 10:32
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

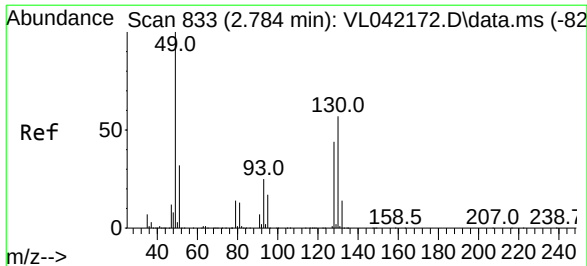
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

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
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

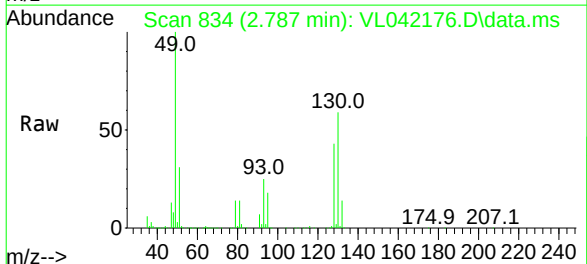
Reviewed By : Semsettin Yesilyurt 03/31/2025
Supervised By : Mahesh Dadoda 04/03/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 833
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

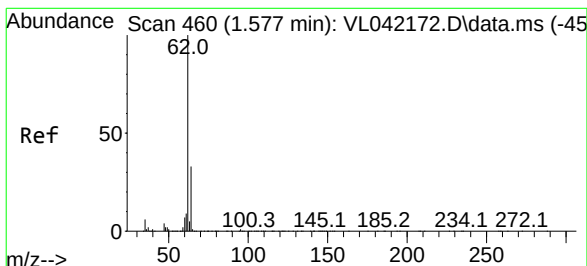
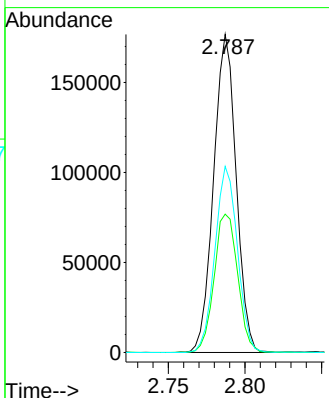
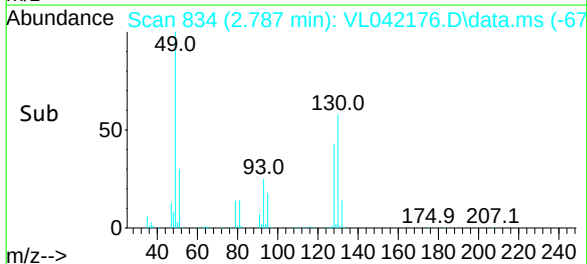
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1



Tgt Ion: 49 Resp: 180740
Ion Ratio Lower Upper
49 100
128 45.6 22.9 68.5
130 58.5 28.8 86.4

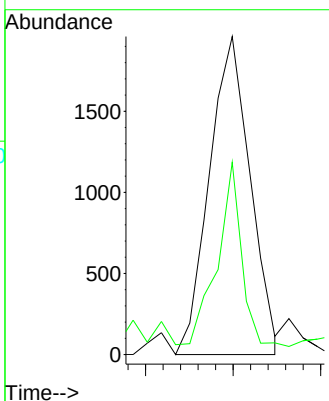
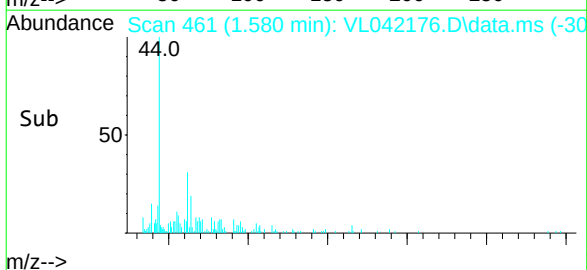
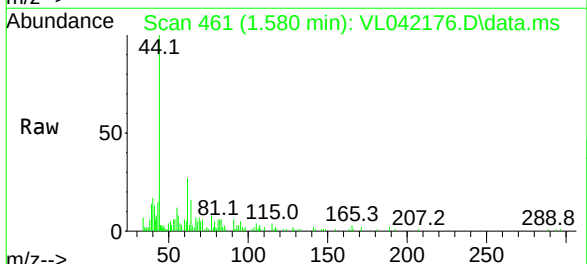
Manual Integrations
APPROVED

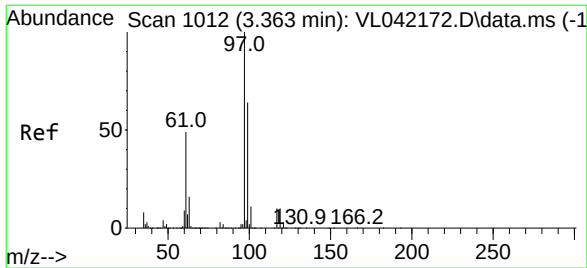
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#5
Vinyl Chloride
Concen: 0.115 ppbv
RT: 1.580 min Scan# 461
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

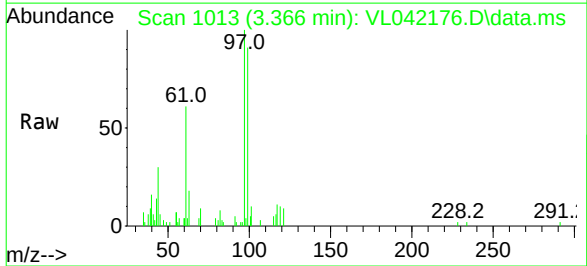
Tgt Ion: 62 Resp: 1274
Ion Ratio Lower Upper
62 100
64 66.4 26.6 40.0#





#32
1,1,1-Trichloroethane
Concen: 0.106 ppbv m
RT: 3.366 min Scan# 1012
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

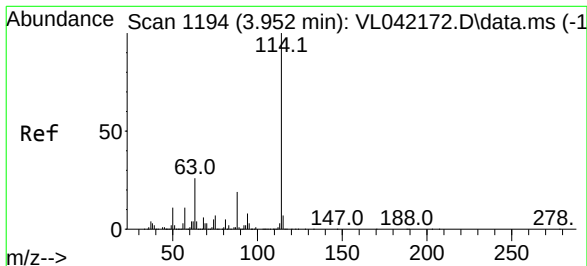
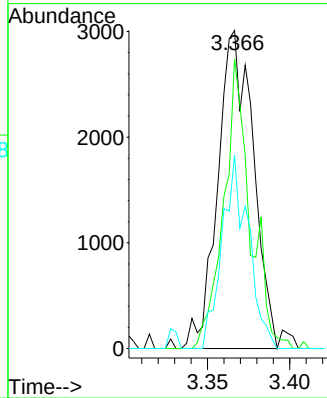
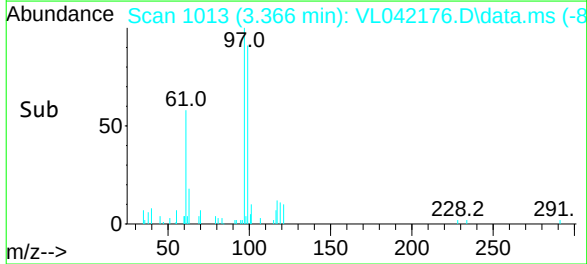
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1



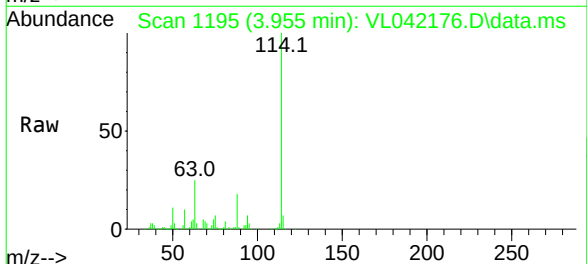
Tgt Ion: 97 Resp: 4509
Ion Ratio Lower Upper
97 100
99 68.6 51.5 77.3
61 45.4 38.7 58.1

Manual Integrations
APPROVED

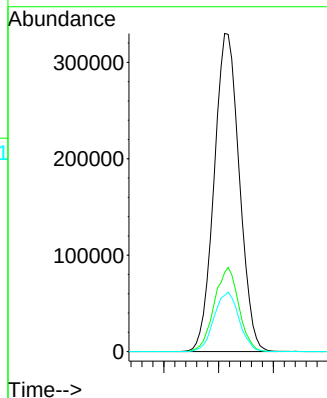
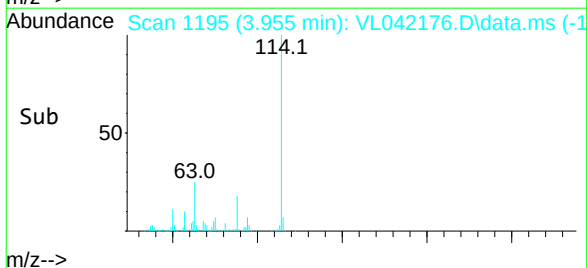
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

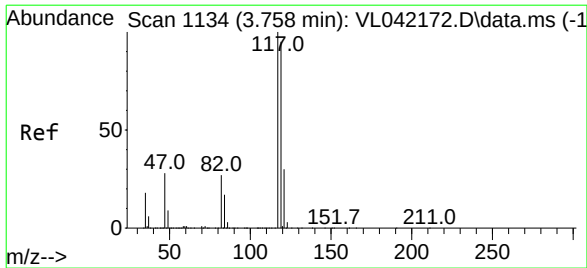


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32



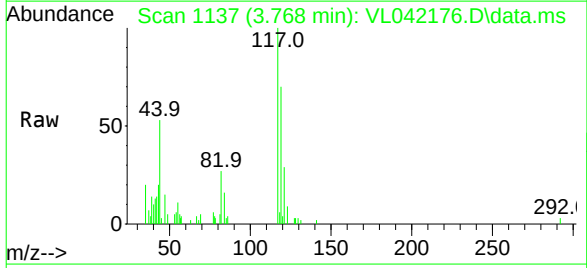
Tgt Ion:114 Resp: 528028
Ion Ratio Lower Upper
114 100
63 25.8 20.7 31.1
88 18.5 15.0 22.4





#35
Carbon Tetrachloride
Concen: 0.102 ppbv m
RT: 3.768 min Scan# 1134
Delta R.T. 0.010 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

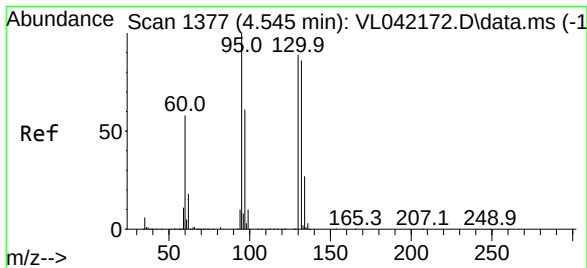
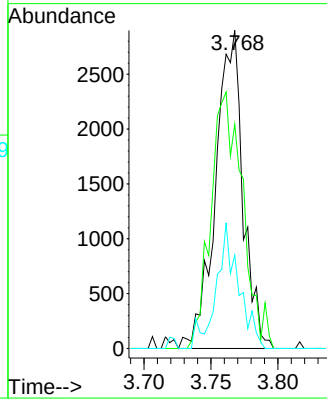
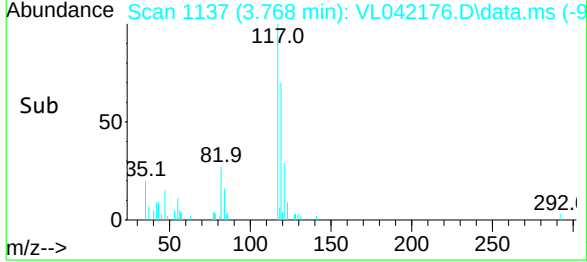
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1



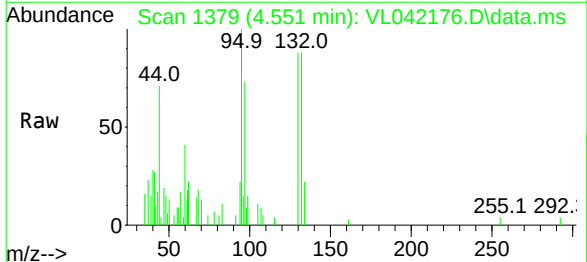
Tgt Ion:117 Resp: 4131
Ion Ratio Lower Upper
117 100
119 70.5 76.2 114.2#
121 29.4 24.2 36.4

Manual Integrations
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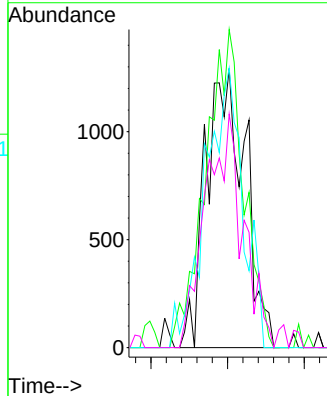
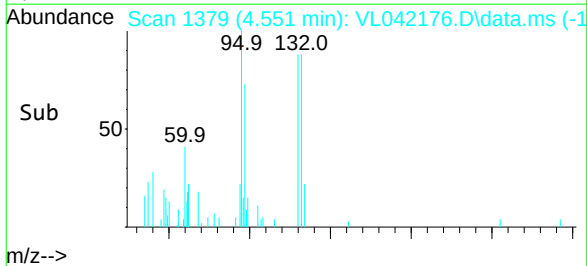
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

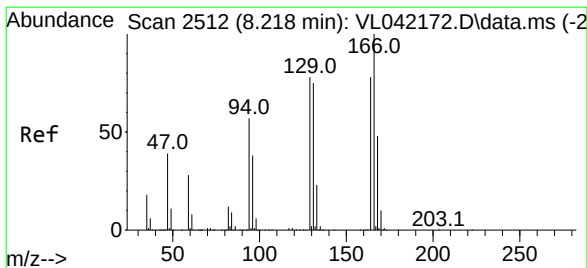


#38
Trichloroethene
Concen: 0.106 ppbv m
RT: 4.551 min Scan# 1379
Delta R.T. 0.006 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32



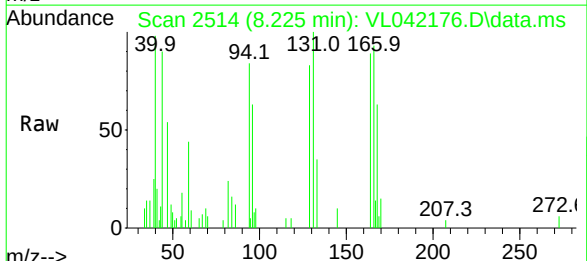
Tgt Ion:130 Resp: 2306
Ion Ratio Lower Upper
130 100
95 114.0 89.8 134.8
132 100.2 77.4 116.2
97 83.7 55.1 82.7#





#52
Tetrachloroethene
Concen: 0.091 ppbv m
RT: 8.225 min Scan# 2512
Delta R.T. 0.006 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

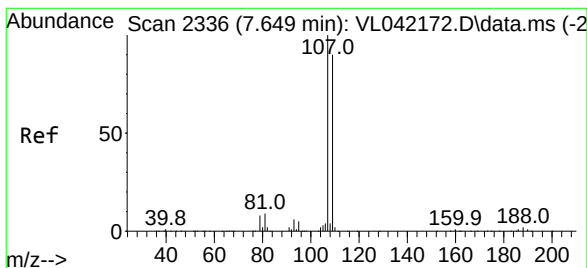
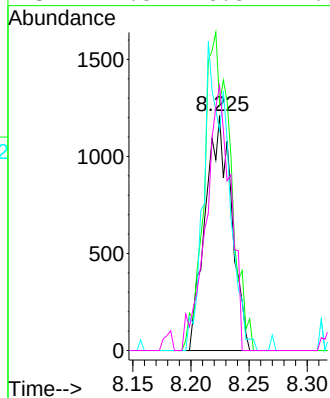
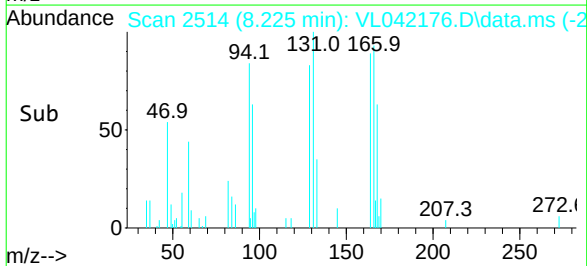
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1



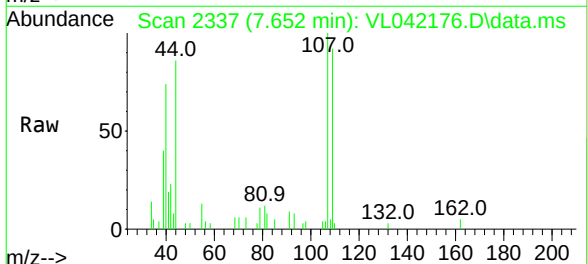
Tgt Ion: 164 Resp: 1895
Ion Ratio Lower Upper
164 100
166 105.1 102.5 153.7
129 93.7 79.8 119.8
131 112.8 76.6 114.8

Manual Integrations
APPROVED

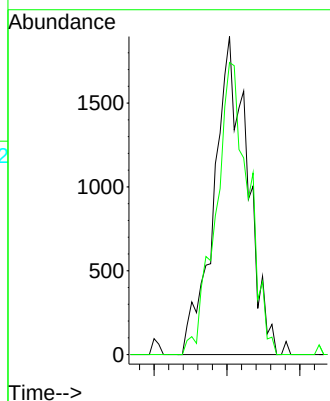
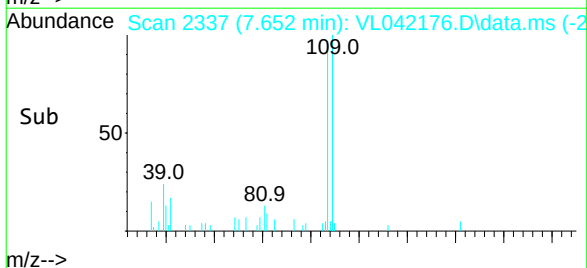
Reviewed By : Semsettin Yesilyurt 03/31/2025
Supervised By : Mahesh Dadoda 04/03/2025

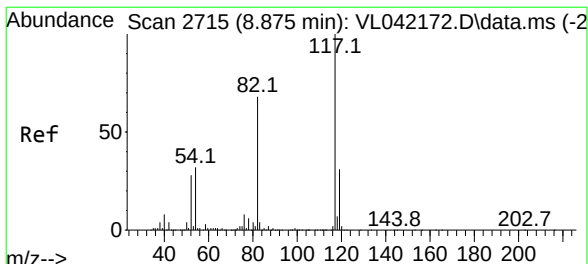


#54
1,2-Dibromoethane
Concen: 0.108 ppbv m
RT: 7.652 min Scan# 2337
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32



Tgt Ion: 107 Resp: 3033
Ion Ratio Lower Upper
107 100
109 91.8 72.2 108.4





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2715
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Instrument :

MSVOA_L

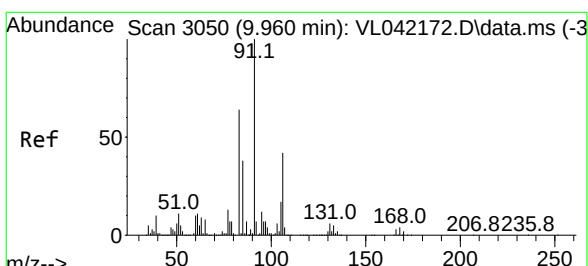
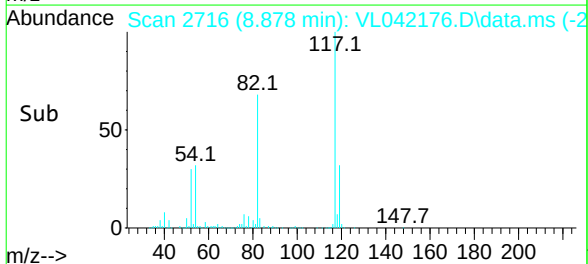
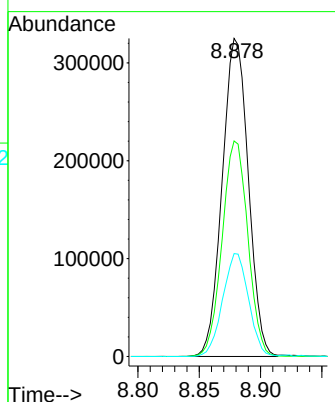
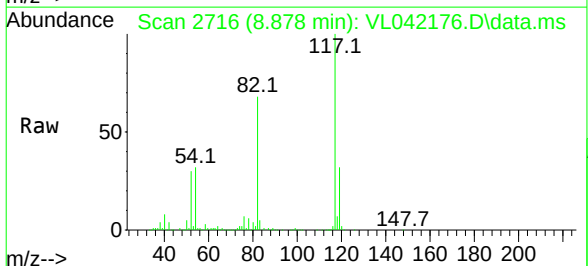
ClientSampleId :

VSTDIC0.1

Tgt Ion:	117	Resp:	481506
Ion	Ratio	Lower	Upper
117	100		
82	66.7	55.8	83.6
119	32.3	25.5	38.3

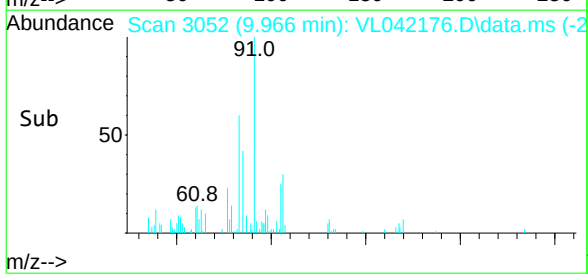
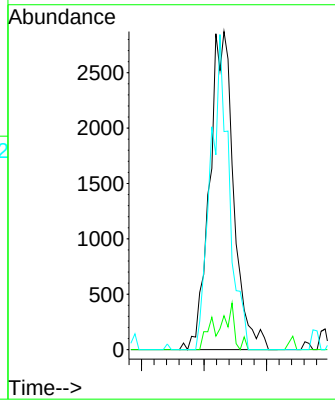
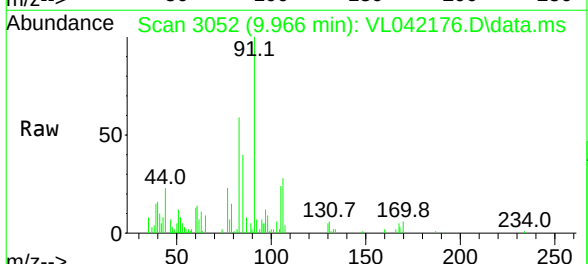
Manual Integrations
APPROVED

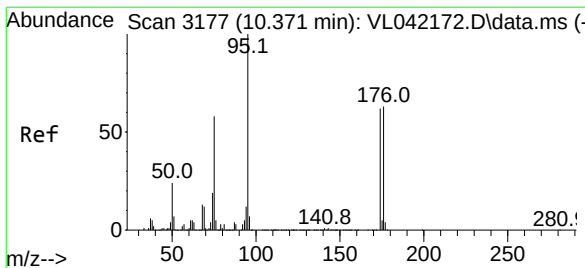
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#63
1,1,2,2-Tetrachloroethane
Concen: 0.093 ppbv m
RT: 9.966 min Scan# 3052
Delta R.T. 0.006 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion:	83	Resp:	3852
Ion	Ratio	Lower	Upper
83	100		
131	0.0	4.8	14.4#
85	0.0	32.5	97.5#





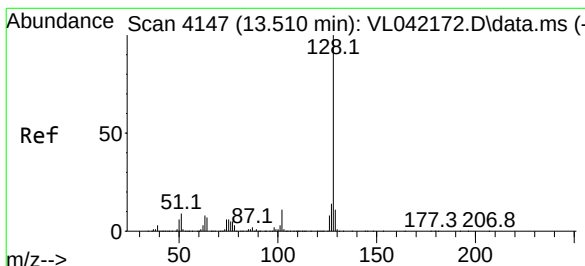
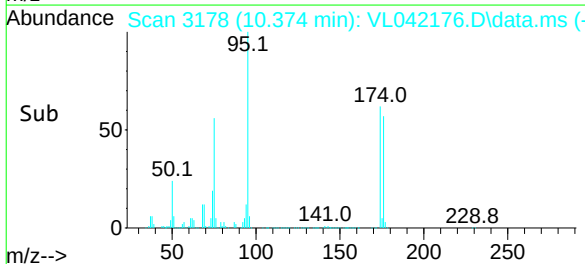
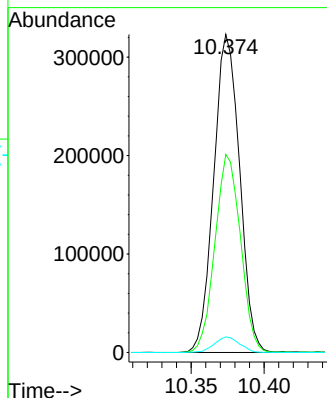
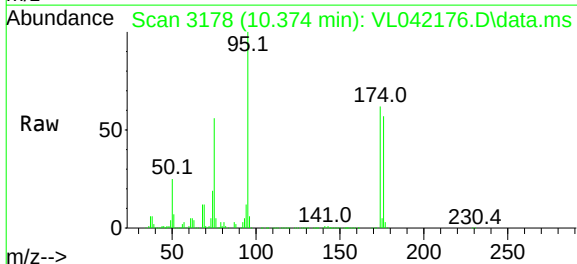
#68
1-Bromo-4-Fluorobenzene
Concen: 10.067 ppbv
RT: 10.374 min Scan# 3177
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

Tgt Ion:	95	Resp:	398069
Ion	Ratio	Lower	Upper
95	100		
174	61.5	50.6	76.0
175	4.8	3.8	5.6

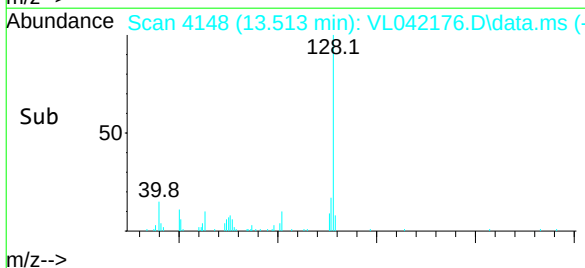
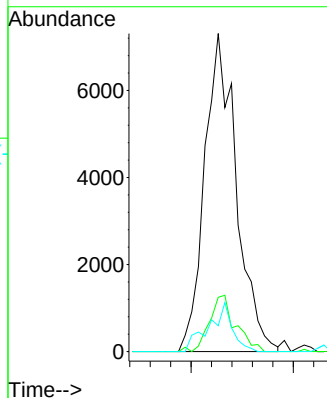
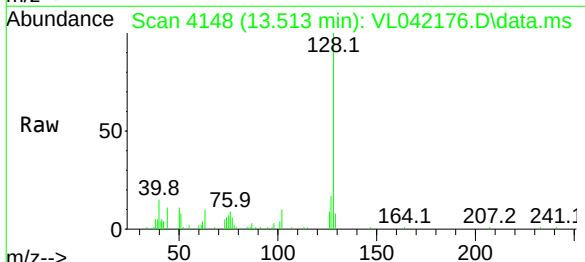
Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#79
Naphthalene
Concen: 0.084 ppbv
RT: 13.513 min Scan# 4148
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion:	128	Resp:	7882
Ion	Ratio	Lower	Upper
128	100		
127	17.1	10.8	16.2#
129	8.1	9.0	13.4#



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

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_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	2.787	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

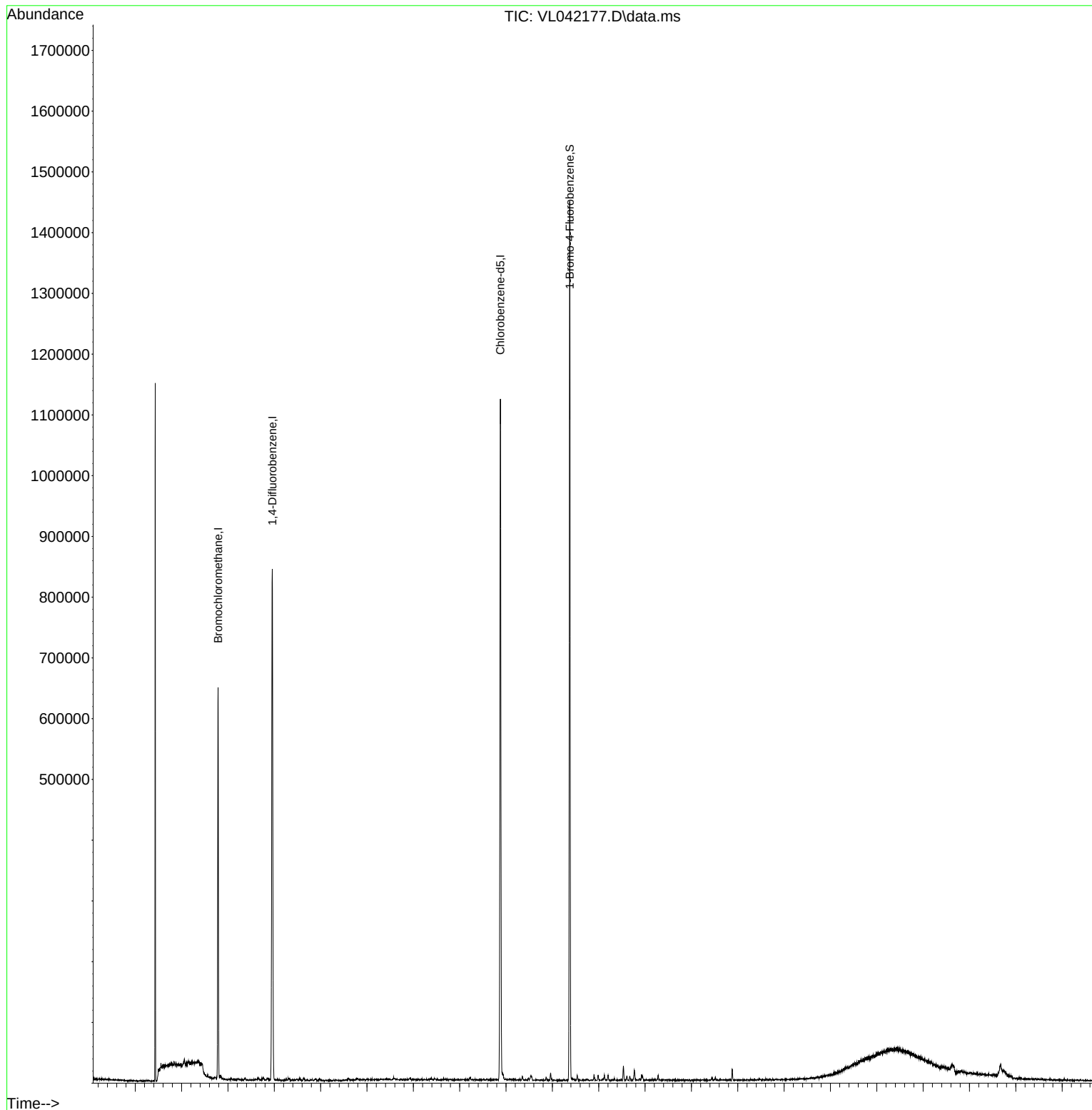
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Data File : VL042177.D
Acq On : 27 Mar 2025 11:03
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

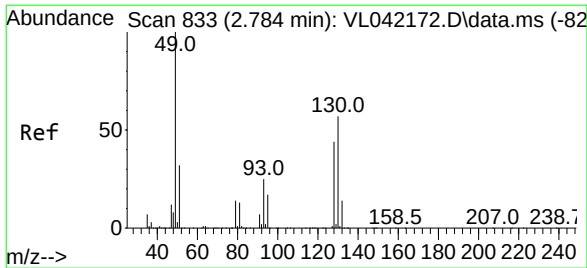
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

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_L Fri Aug
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

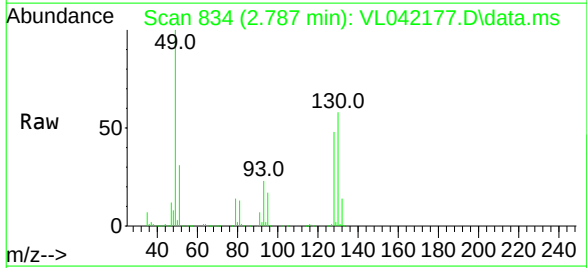
Reviewed By : Semsettin Yesilyurt 03/31/2025
Supervised By : Mahesh Dadoda 04/03/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 833
Delta R.T. 0.003 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

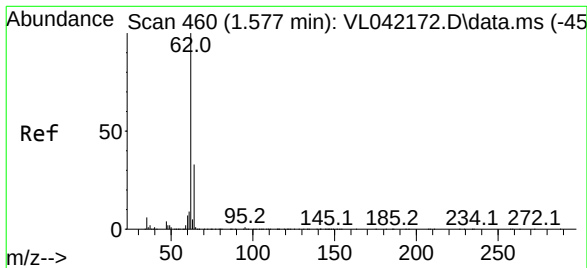
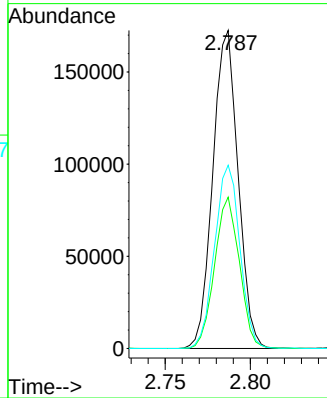
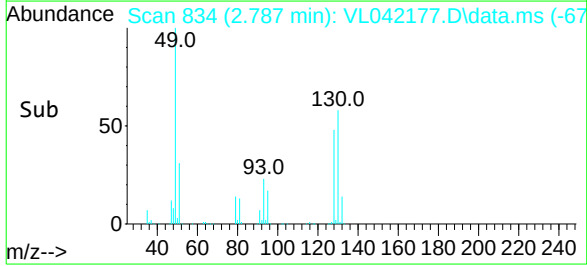
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03



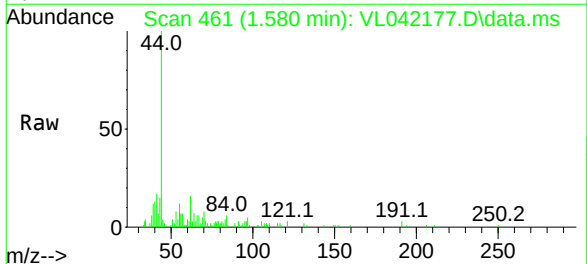
Tgt Ion: 49 Resp: 178058
Ion Ratio Lower Upper
49 100
128 46.8 22.9 68.5
130 57.9 28.8 86.4

Manual Integrations
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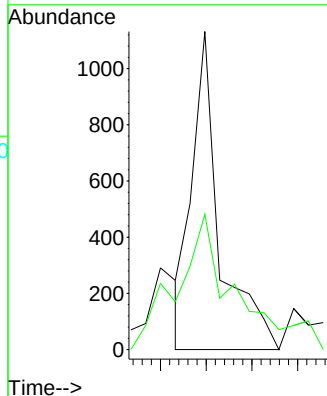
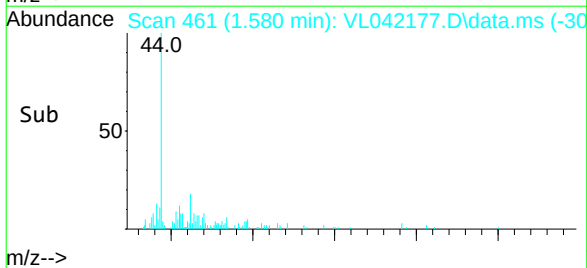
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

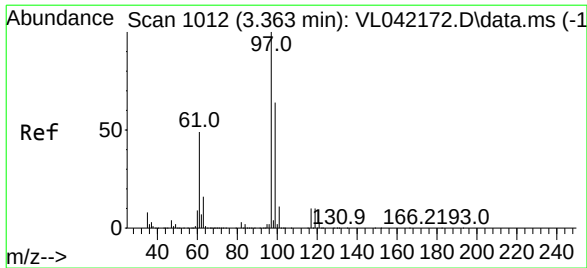


#5
Vinyl Chloride
Concen: 0.043 ppbv m
RT: 1.580 min Scan# 461
Delta R.T. 0.003 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03



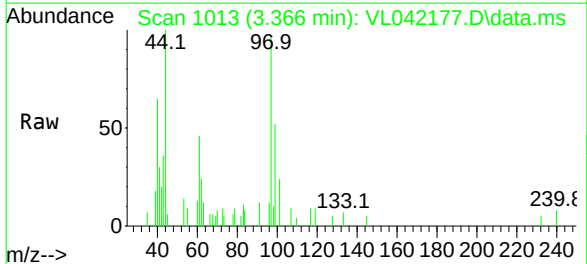
Tgt Ion: 62 Resp: 471
Ion Ratio Lower Upper
62 100
64 42.6 26.6 40.0#





#32
1,1,1-Trichloroethane
Concen: 0.040 ppbv m
RT: 3.366 min Scan# 1012
Delta R.T. 0.003 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

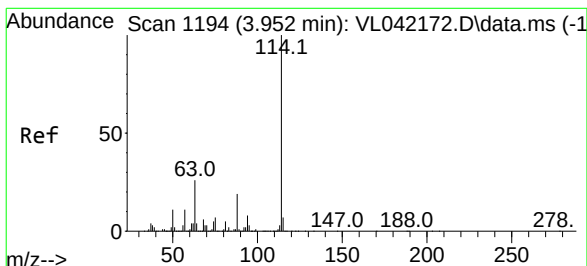
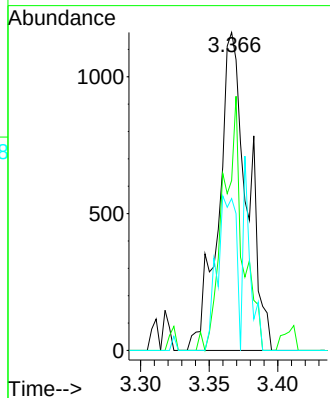
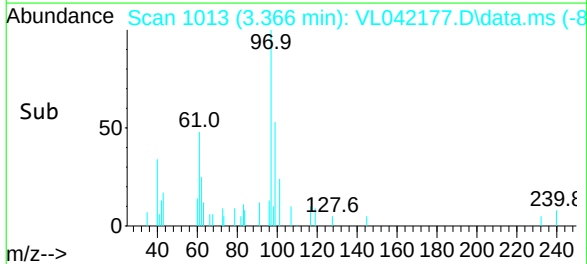
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03



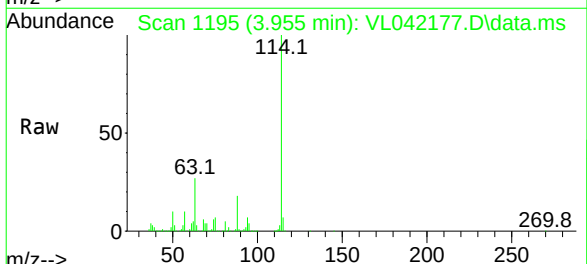
Tgt Ion: 97 Resp: 1683
Ion Ratio Lower Upper
97 100
99 3.8 51.5 77.3#
61 2.1 38.7 58.1#

Manual Integrations
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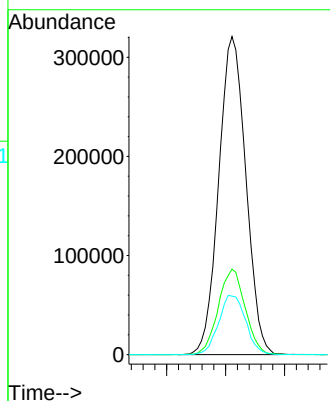
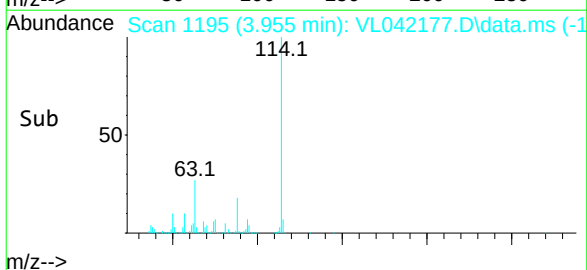
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

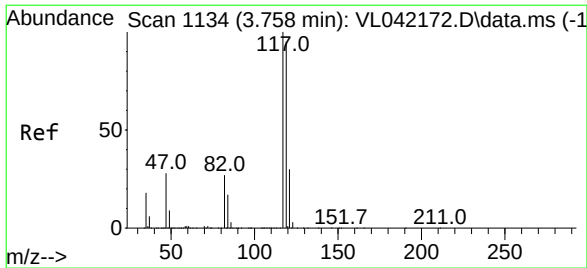


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. 0.003 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03



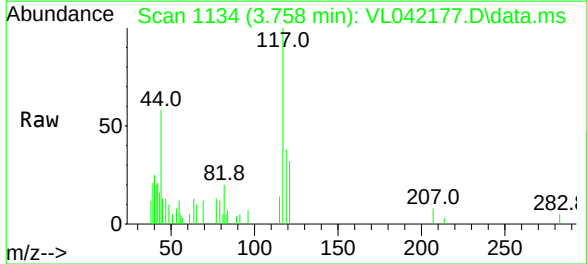
Tgt Ion:114 Resp: 512915
Ion Ratio Lower Upper
114 100
63 26.6 20.7 31.1
88 18.6 15.0 22.4





#35
Carbon Tetrachloride
Concen: 0.042 ppbv m
RT: 3.758 min Scan# 1134
Delta R.T. -0.000 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

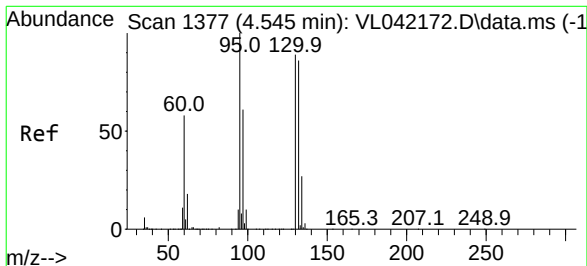
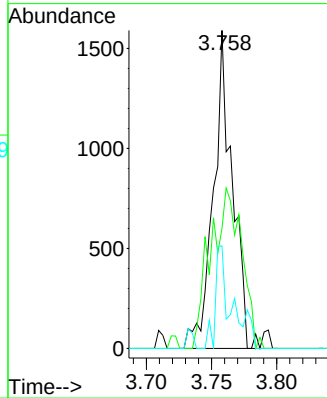
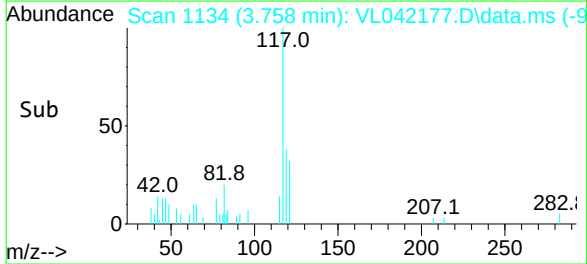
Instrument : MSVOA_L
ClientSampleId : VSTDIC0.03



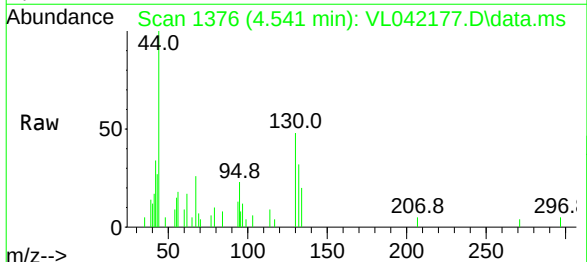
Tgt Ion:117 Resp: 1645
Ion Ratio Lower Upper
117 100
119 37.7 76.2 114.2#
121 32.3 24.2 36.4

Manual Integrations
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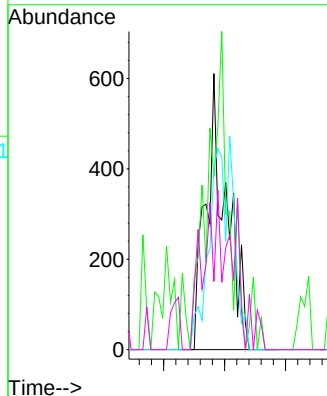
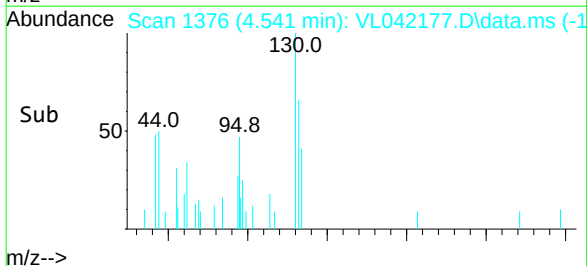
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

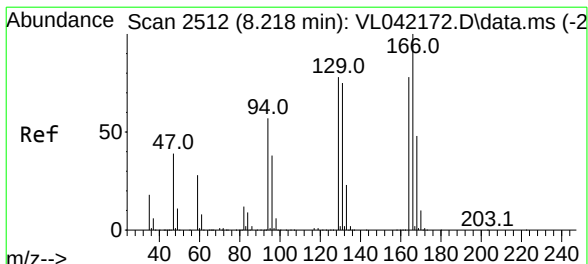


#38
Trichloroethene
Concen: 0.034 ppbv m
RT: 4.541 min Scan# 1376
Delta R.T. -0.003 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03



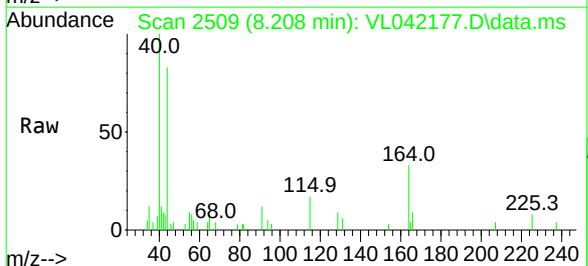
Tgt Ion:130 Resp: 712
Ion Ratio Lower Upper
130 100
95 47.0 89.8 134.8#
132 65.6 77.4 116.2#
97 24.7 55.1 82.7#





#52
Tetrachloroethene
 Concen: 0.044 ppbv m
 RT: 8.208 min Scan# 2512
 Delta R.T. -0.010 min
 Lab File: VL042177.D
 Acq: 27 Mar 2025 11:03

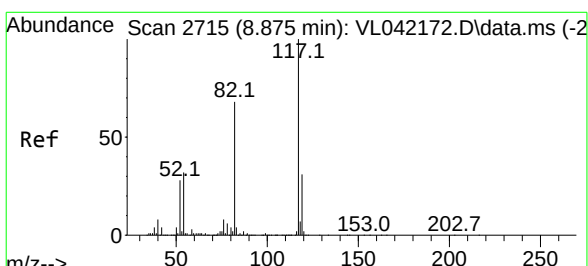
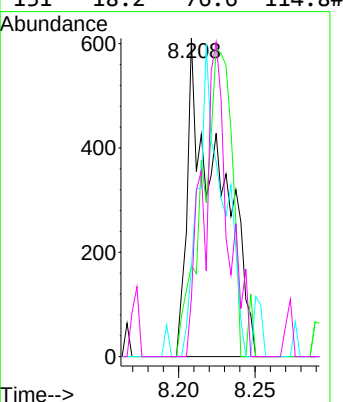
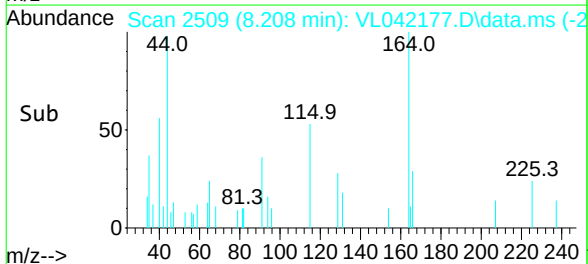
Instrument : MSVOA_L
ClientSampleId : VSTDICC0.03



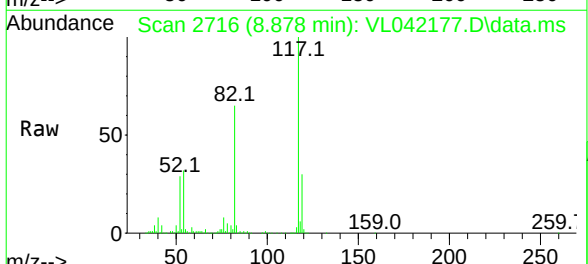
Tgt Ion: 164 Resp: 880

Ion	Ratio	Lower	Upper
164	100		
166	28.5	102.5	153.7#
129	27.7	79.8	119.8#
131	18.2	76.6	114.8#

Manual Integrations
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 Reviewed By : Semsettin Yesilyurt 03/31/2025
 Supervised By : Mahesh Dadoda 04/03/2025

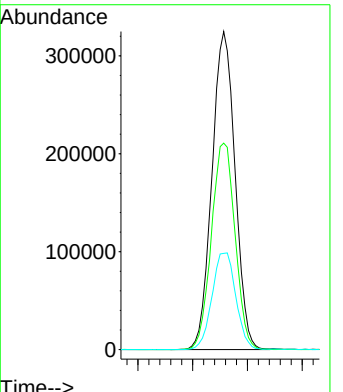
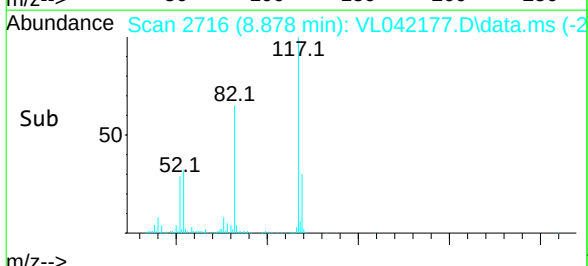


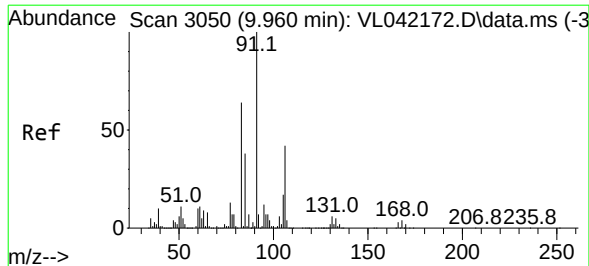
#55
Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 8.878 min Scan# 2716
 Delta R.T. 0.003 min
 Lab File: VL042177.D
 Acq: 27 Mar 2025 11:03



Tgt Ion: 117 Resp: 475617

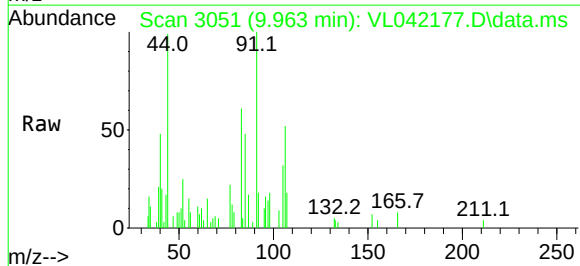
Ion	Ratio	Lower	Upper
117	100		
82	66.7	55.8	83.6
119	31.5	25.5	38.3





#63
1,1,2,2-Tetrachloroethane
Concen: 0.034 ppbv m
RT: 9.963 min Scan# 3050
Delta R.T. 0.003 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

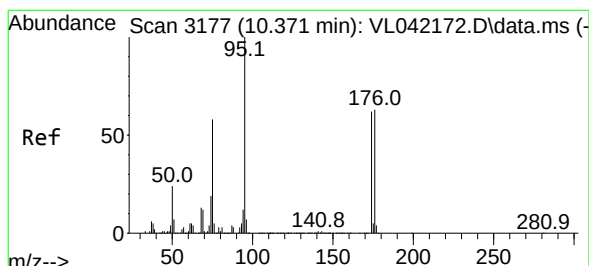
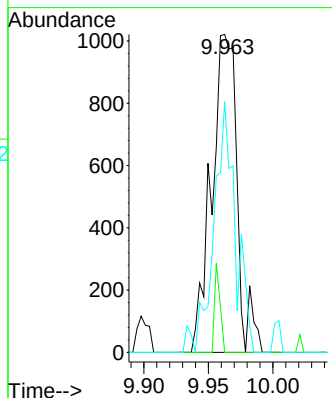
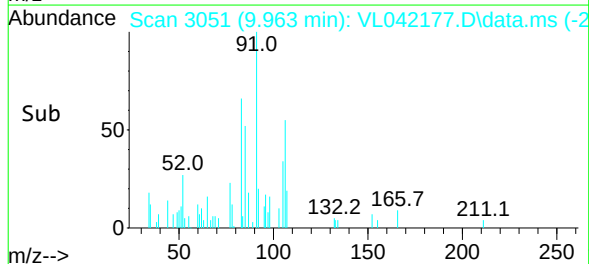
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03



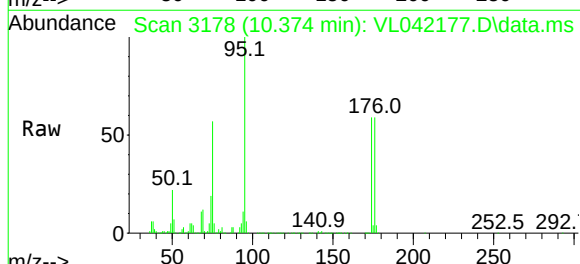
Tgt Ion: 83 Resp: 1407
Ion Ratio Lower Upper
83 100
131 6.0 4.8 14.4
85 67.2 32.5 97.5

Manual Integrations
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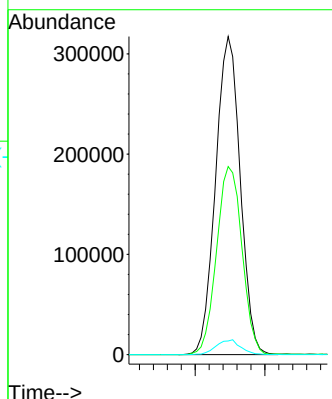
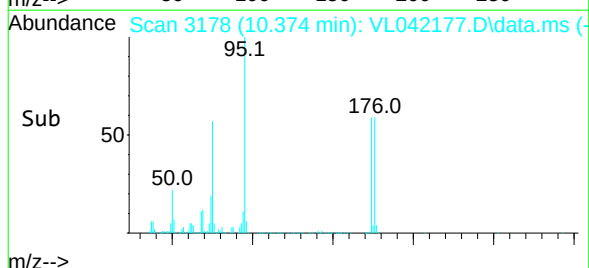
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 9.983 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. 0.003 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03



Tgt Ion: 95 Resp: 389935
Ion Ratio Lower Upper
95 100
174 61.2 50.6 76.0
175 4.6 3.8 5.6



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

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_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	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

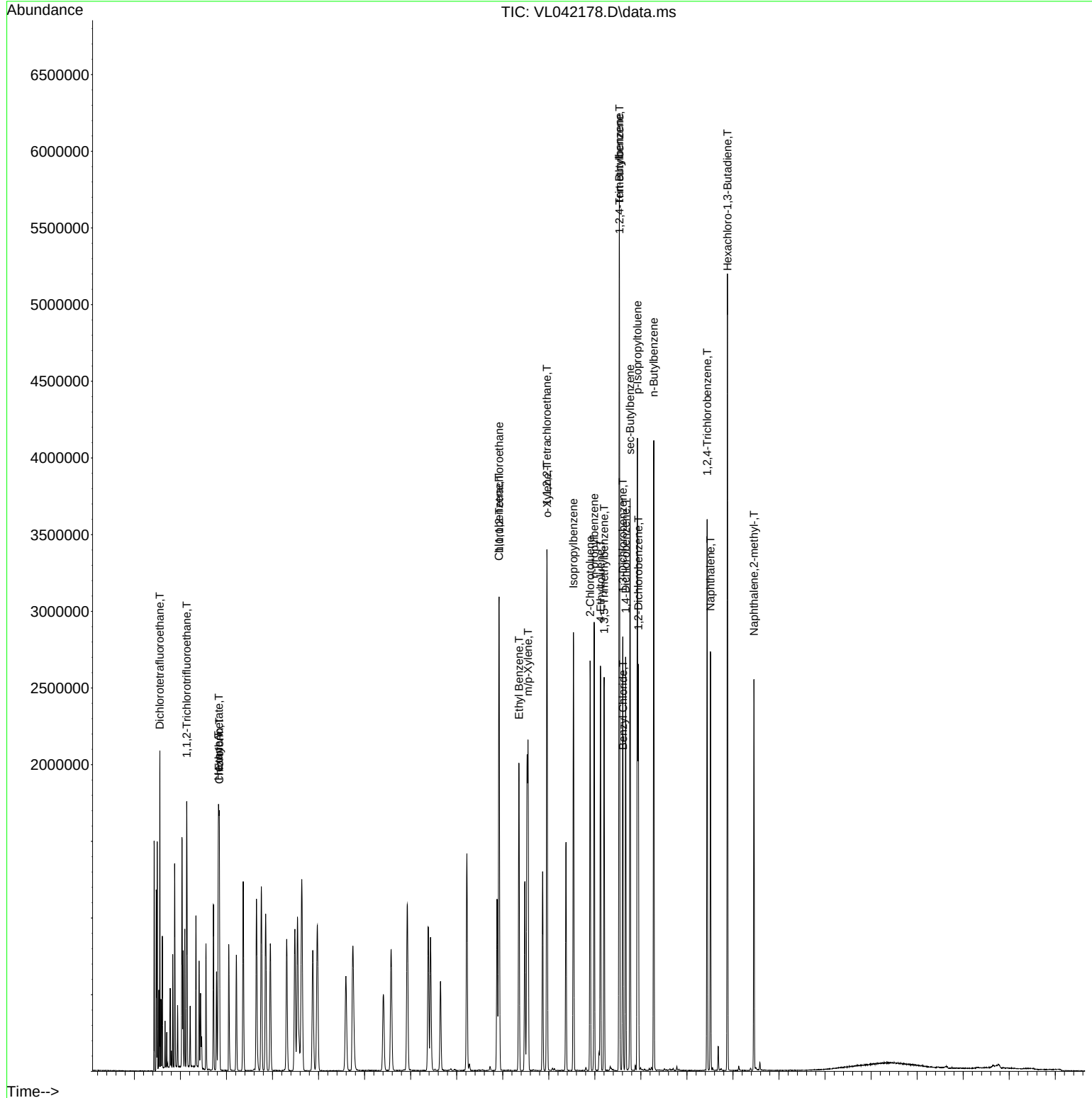
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042178.D
Acq On : 27 Mar 2025 11:36
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

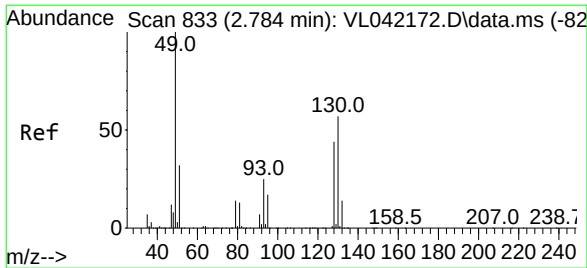
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

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_LFri Aug
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

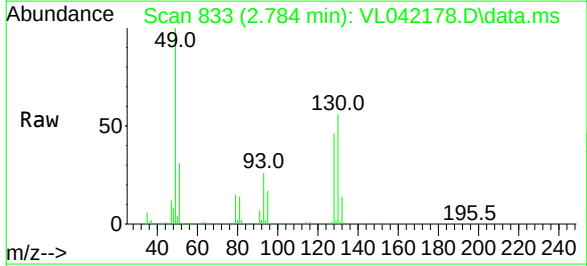
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 833
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

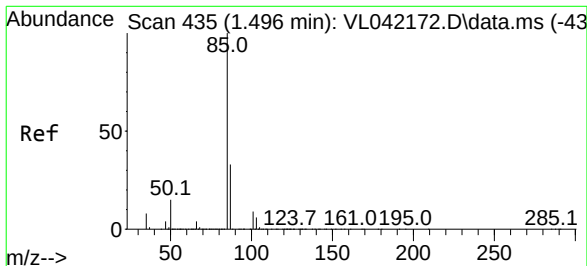
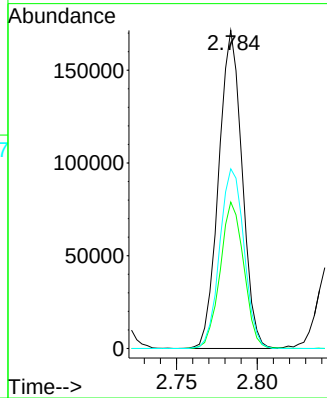
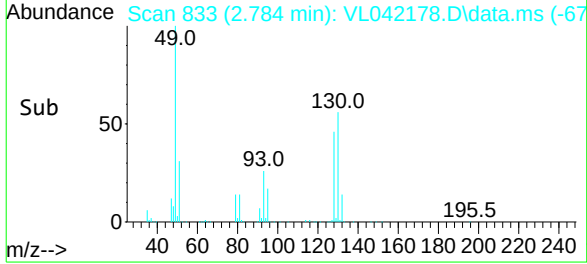
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



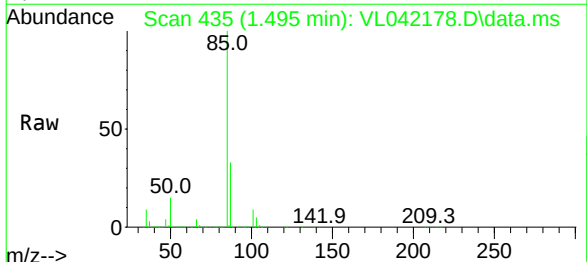
Tgt Ion: 49 Resp: 173372
Ion Ratio Lower Upper
49 100
128 46.4 22.9 68.5
130 58.7 28.8 86.4

Manual Integrations
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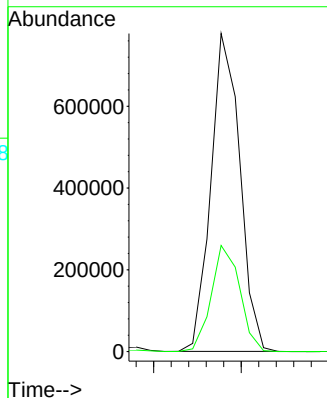
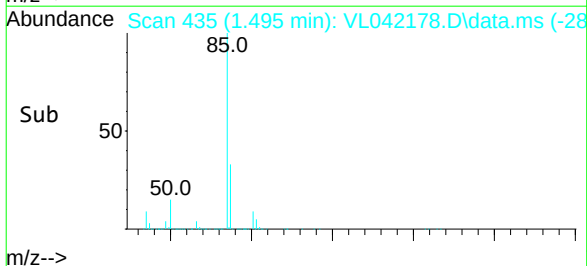
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

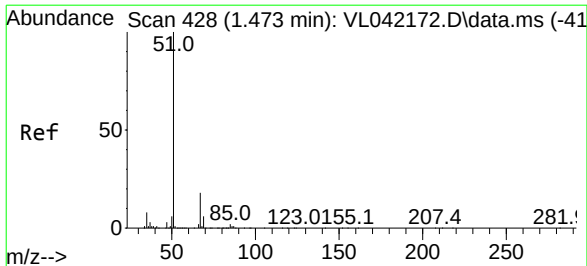


#2
Dichlorodifluoromethane
Concen: 14.023 ppbv
RT: 1.495 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36



Tgt Ion: 85 Resp: 358962
Ion Ratio Lower Upper
85 100
87 33.4 26.1 39.1





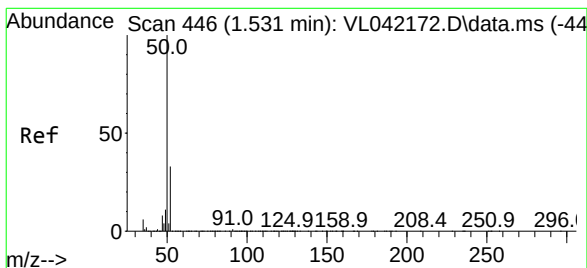
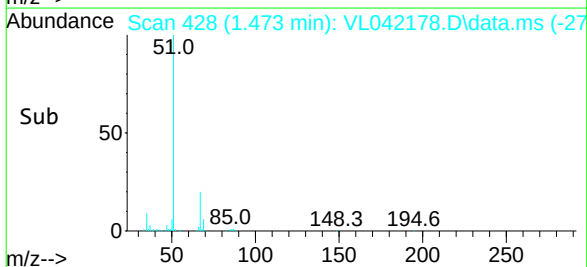
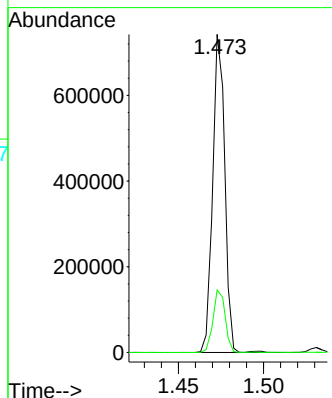
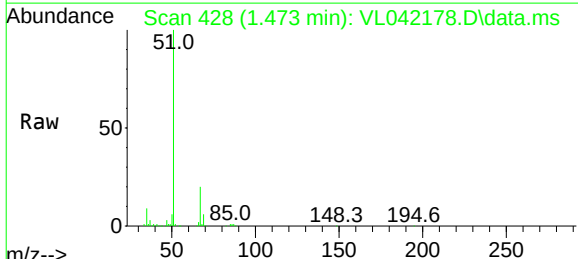
#3
Chlorodifluoromethane
Concen: 14.002 ppbv
RT: 1.473 min Scan# 428
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 51 Resp: 366164
Ion Ratio Lower Upper
51 100
67 19.8 15.0 22.6

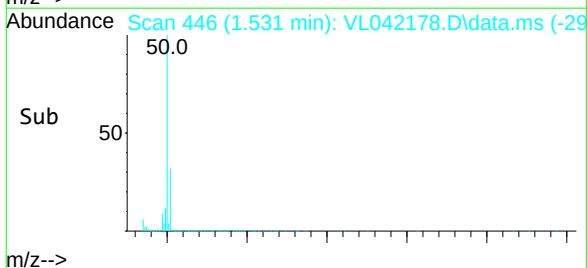
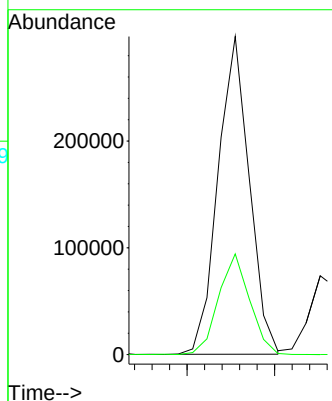
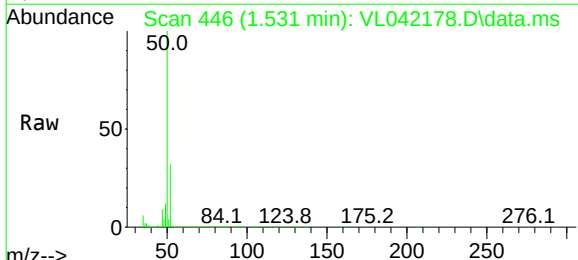
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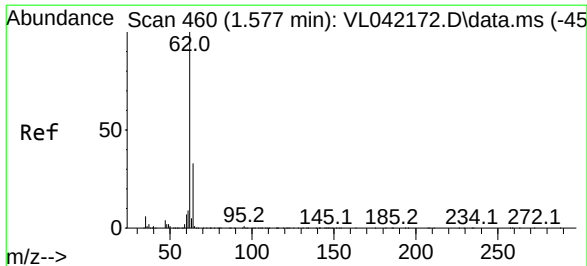
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#4
Chloromethane
Concen: 14.160 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 50 Resp: 148133
Ion Ratio Lower Upper
50 100
52 31.6 26.1 39.1





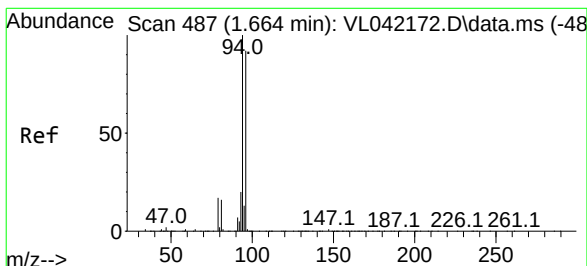
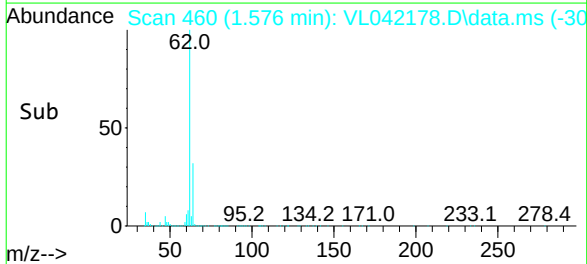
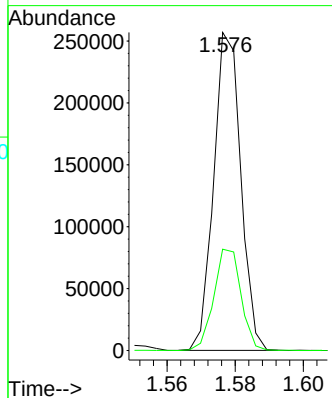
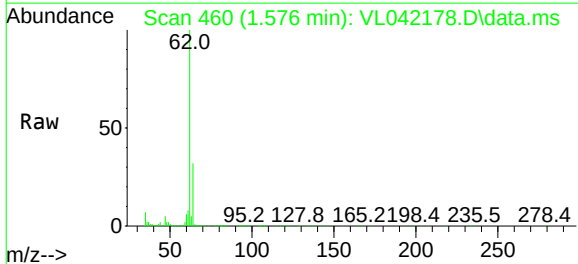
#5
 Vinyl Chloride
 Concen: 13.304 ppbv
 RT: 1.576 min Scan# 460
 Delta R.T. -0.000 min
 Lab File: VL042178.D
 Acq: 27 Mar 2025 11:36

Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC015

Tgt Ion: 62 Resp: 141938
 Ion Ratio Lower Upper
 62 100
 64 31.9 26.6 40.0

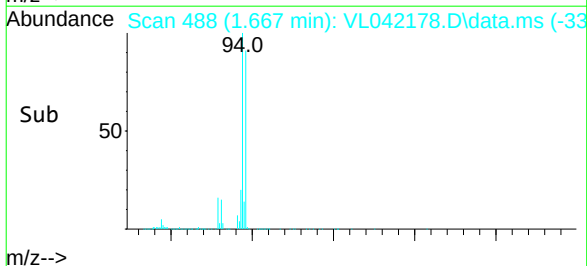
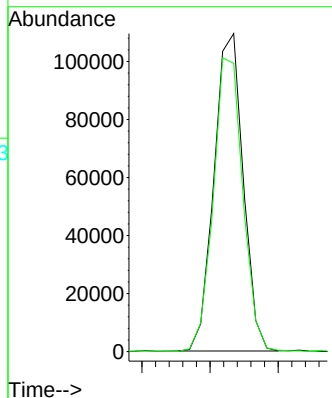
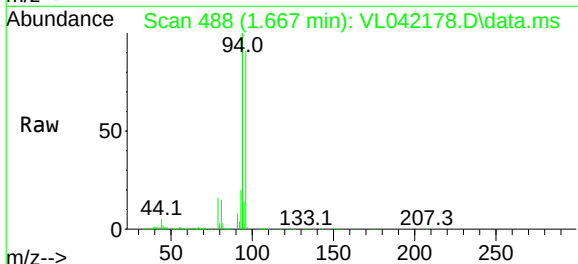
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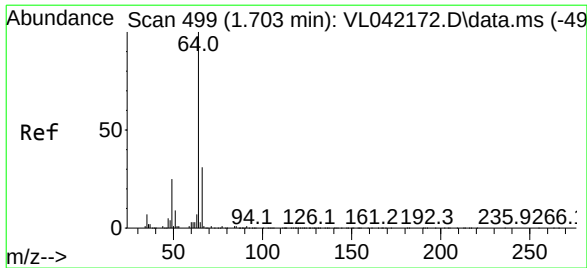
Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025



#6
 Bromomethane
 Concen: 13.734 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. 0.003 min
 Lab File: VL042178.D
 Acq: 27 Mar 2025 11:36

Tgt Ion: 94 Resp: 65113
 Ion Ratio Lower Upper
 94 100
 96 90.7 73.1 109.7





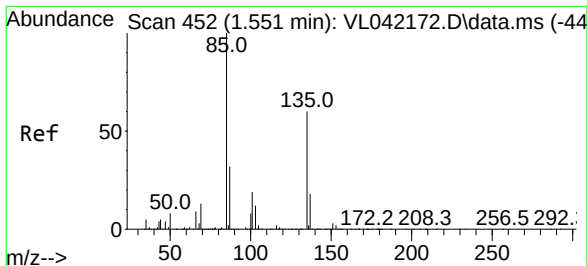
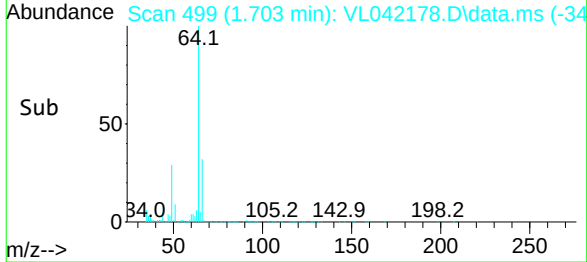
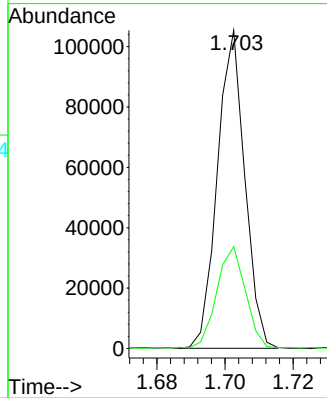
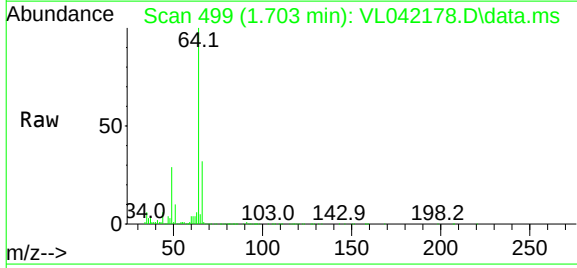
#7
 Chloroethane
 Concen: 14.007 ppbv
 RT: 1.703 min Scan# 499
 Delta R.T. -0.000 min
 Lab File: VL042178.D
 Acq: 27 Mar 2025 11:36

Instrument : MSVOA_L
 ClientSampleId : VSTDIC015

Tgt Ion: 64 Resp: 58820
 Ion Ratio Lower Upper
 64 100
 66 32.0 25.2 37.8

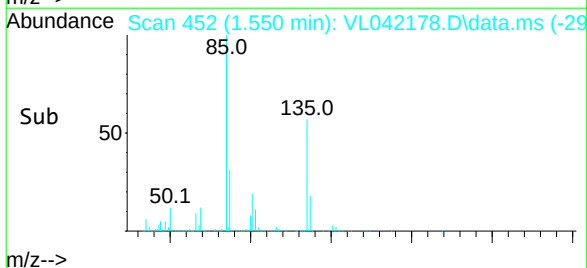
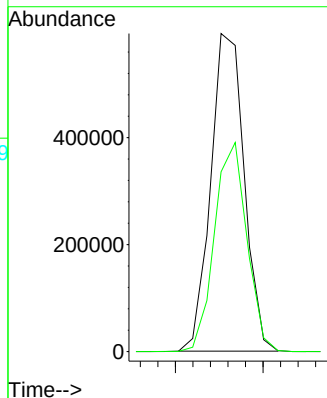
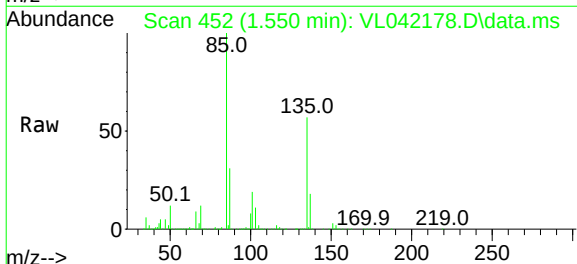
Manual Integrations
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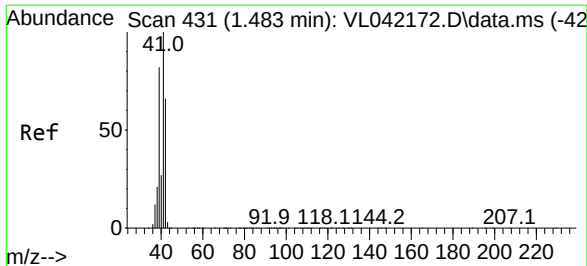
Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025



#8
 Dichlorotetrafluoroethane
 Concen: 14.442 ppbv
 RT: 1.550 min Scan# 452
 Delta R.T. -0.000 min
 Lab File: VL042178.D
 Acq: 27 Mar 2025 11:36

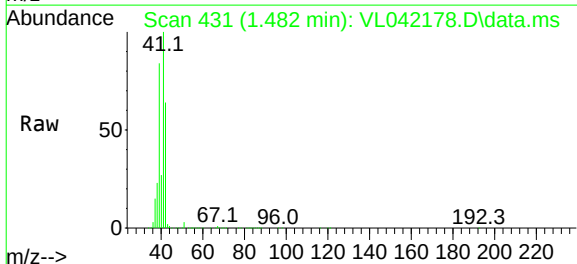
Tgt Ion: 85 Resp: 314834
 Ion Ratio Lower Upper
 85 100
 135 63.8 52.4 78.6





#9
 Propene
 Concen: 13.902 ppbv
 RT: 1.482 min Scan# 431
 Delta R.T. -0.000 min
 Lab File: VL042178.D
 Acq: 27 Mar 2025 11:36

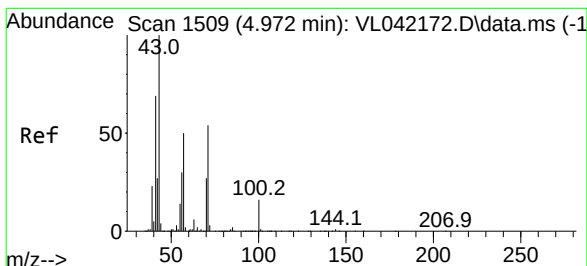
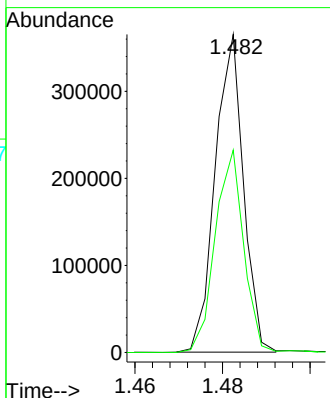
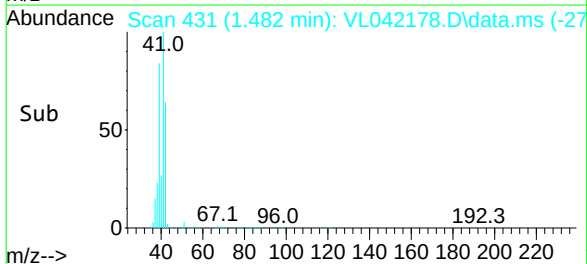
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



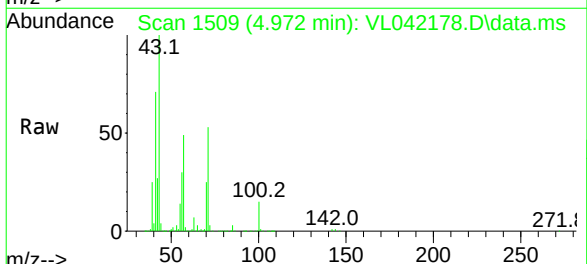
Tgt Ion: 41 Resp: 163799
 Ion Ratio Lower Upper
 41 100
 42 65.3 55.4 83.2

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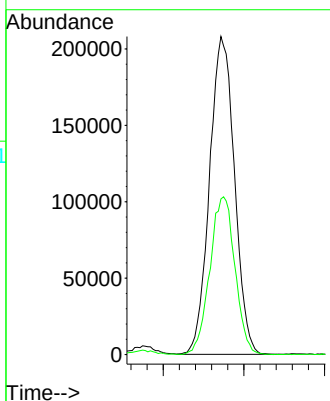
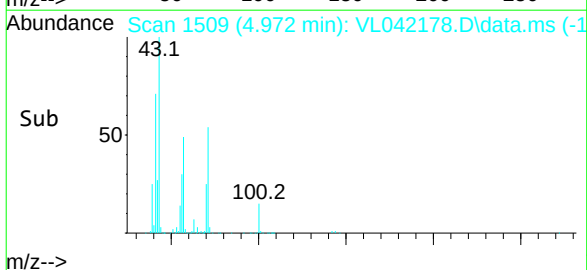
Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025

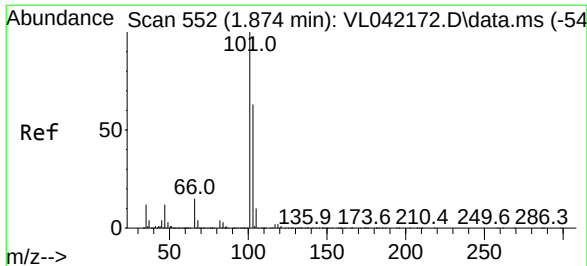


#10
 Heptane
 Concen: 14.019 ppbv
 RT: 4.972 min Scan# 1509
 Delta R.T. -0.000 min
 Lab File: VL042178.D
 Acq: 27 Mar 2025 11:36



Tgt Ion: 43 Resp: 446949
 Ion Ratio Lower Upper
 43 100
 57 49.9 39.4 59.2





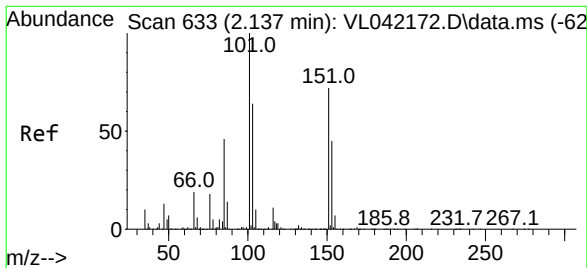
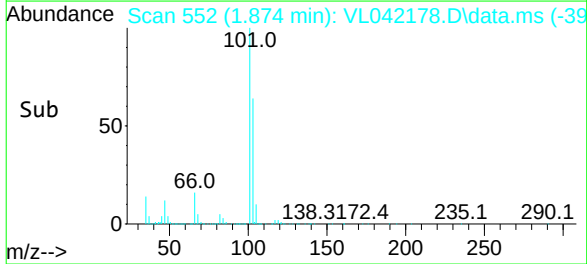
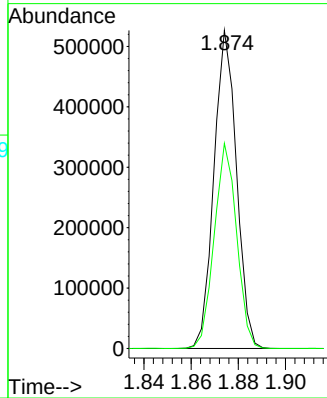
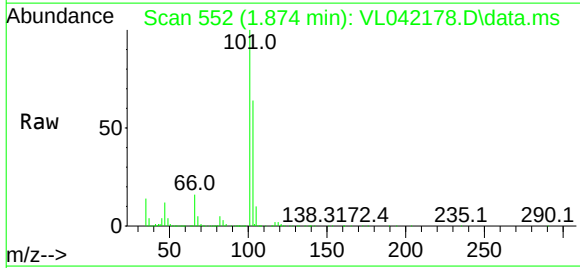
#11
Trichlorofluoromethane
Concen: 14.050 ppbv
RT: 1.874 min Scan# 552
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion:101 Resp: 349967
Ion Ratio Lower Upper
101 100
103 64.5 50.2 75.2

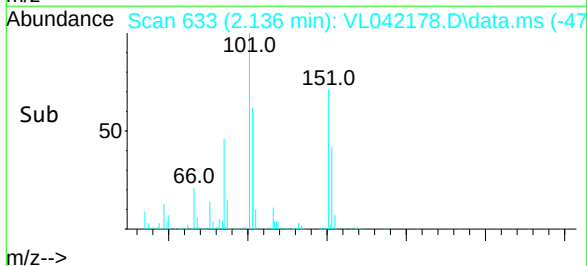
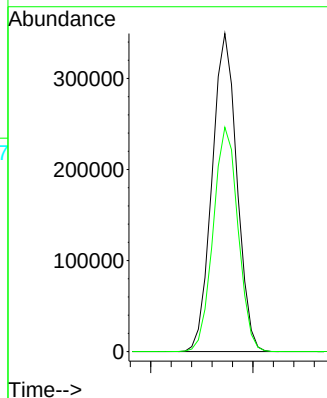
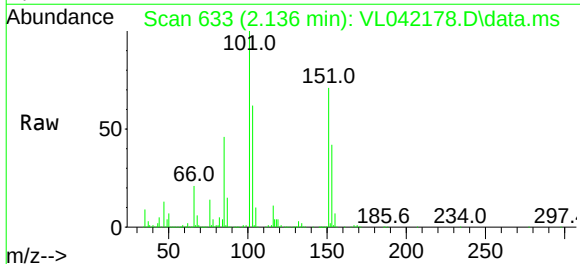
Manual Integrations
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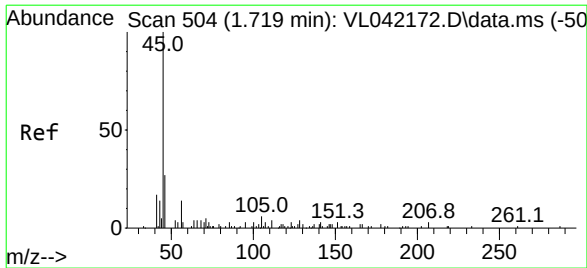
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#12
1,1,2-Trichlorotrifluoroethane
Concen: 14.419 ppbv
RT: 2.136 min Scan# 633
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion:101 Resp: 295217
Ion Ratio Lower Upper
101 100
151 70.4 57.1 85.7





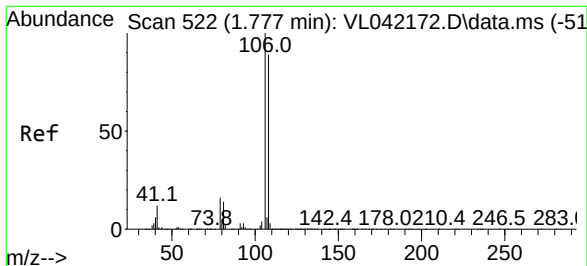
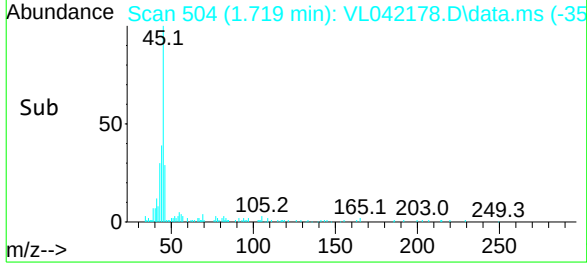
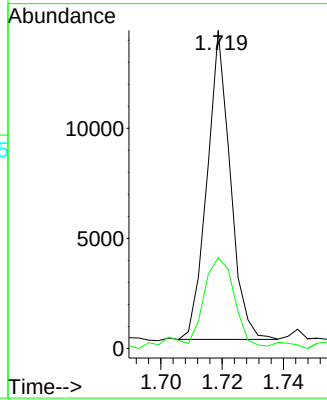
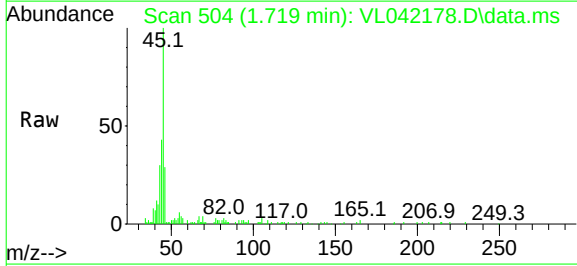
#13
Ethanol
Concen: 8.001 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 45 Resp: 7382
Ion Ratio Lower Upper
45 100
46 44.6 20.2 80.8

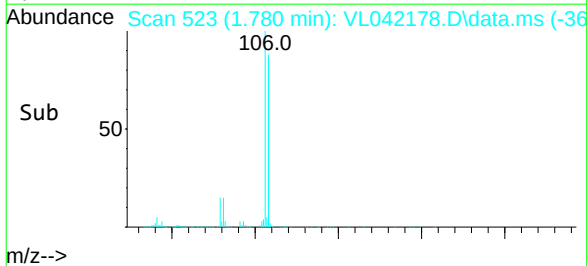
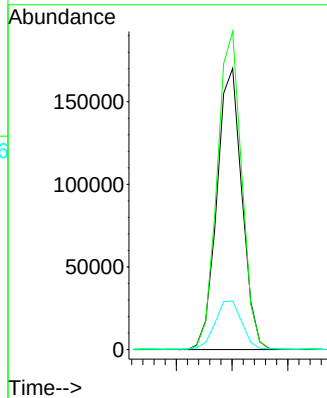
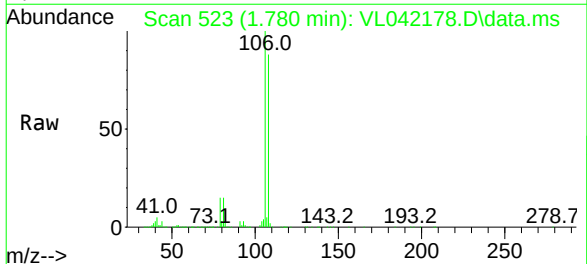
Manual Integrations
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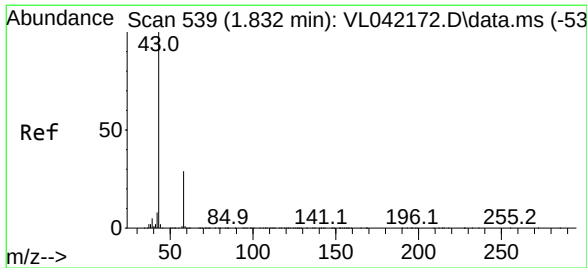
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#14
Bromoethene
Concen: 13.571 ppbv
RT: 1.780 min Scan# 523
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion:108 Resp: 106436
Ion Ratio Lower Upper
108 100
106 110.9 86.8 130.2
79 18.8 15.0 22.6





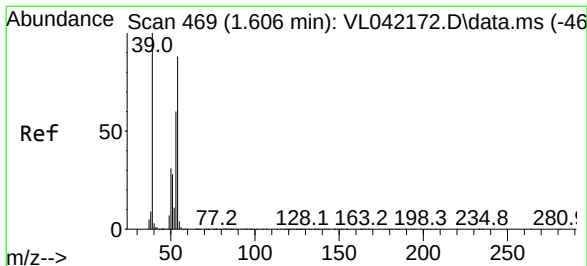
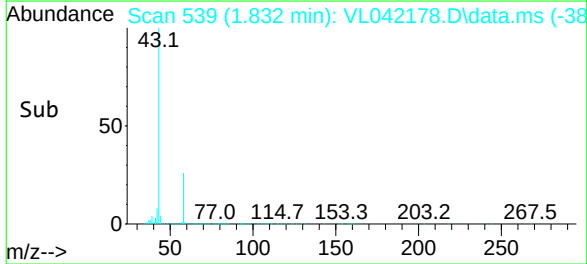
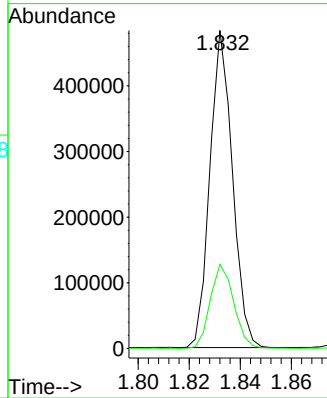
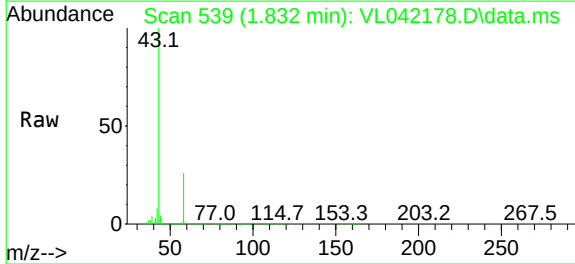
#15
Acetone
Concen: 12.218 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 43 Resp: 296254
Ion Ratio Lower Upper
43 100
58 27.7 23.2 34.8

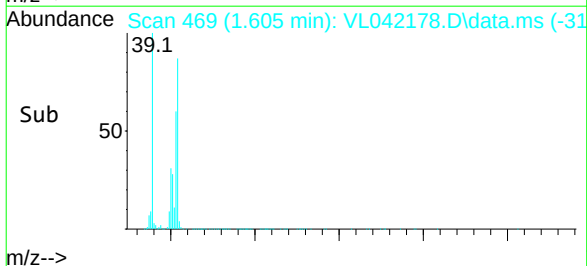
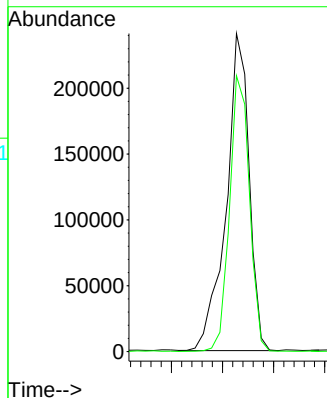
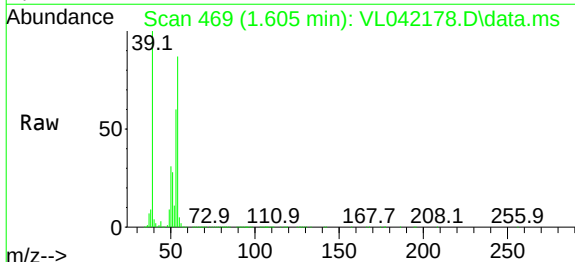
Manual Integrations
APPROVED

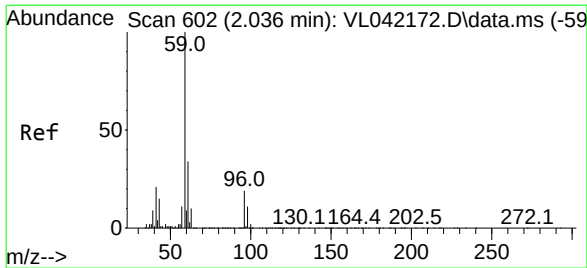
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#16
1,3-Butadiene
Concen: 13.766 ppbv
RT: 1.605 min Scan# 469
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 39 Resp: 150122
Ion Ratio Lower Upper
39 100
54 76.3 60.7 91.1





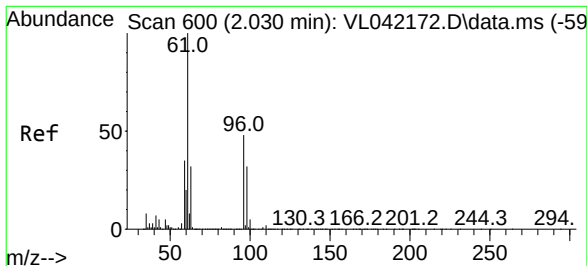
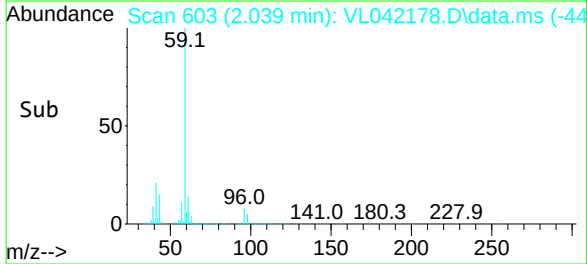
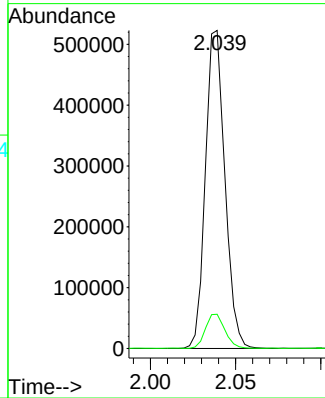
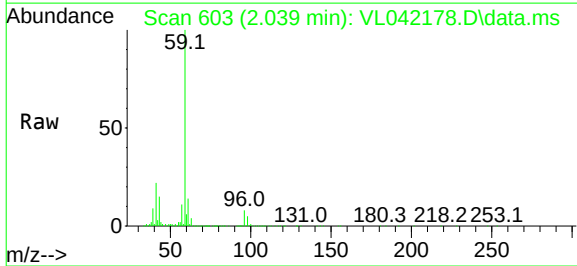
#17
tert-Butyl alcohol
Concen: 13.787 ppbv
RT: 2.039 min Scan# 602
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 59 Resp: 416362
Ion Ratio Lower Upper
59 100
57 10.8 8.9 13.3

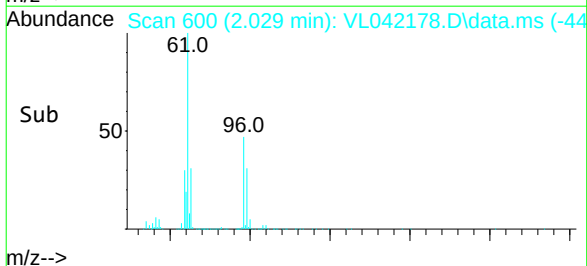
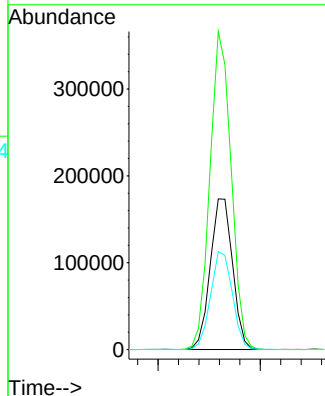
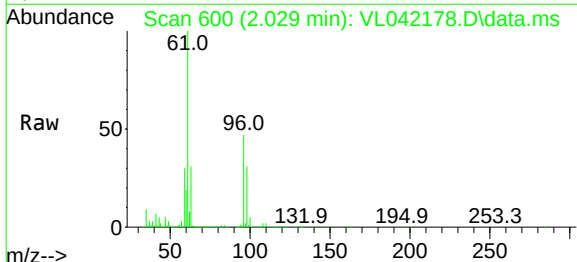
Manual Integrations
APPROVED

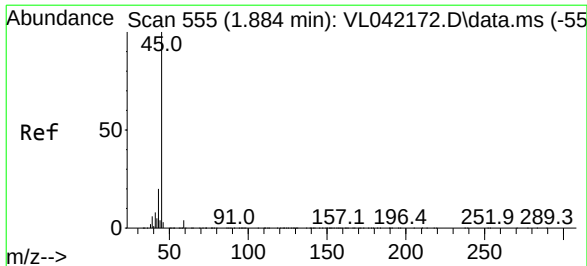
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#18
1,1-Dichloroethene
Concen: 13.762 ppbv
RT: 2.029 min Scan# 600
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 96 Resp: 131720
Ion Ratio Lower Upper
96 100
61 211.1 167.6 251.4
98 64.9 53.5 80.3





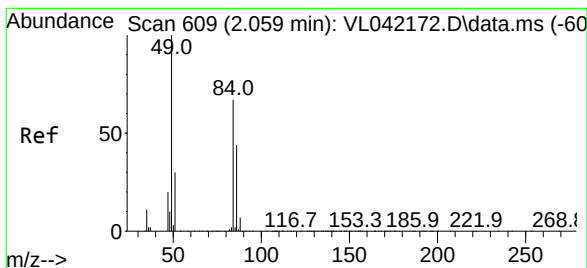
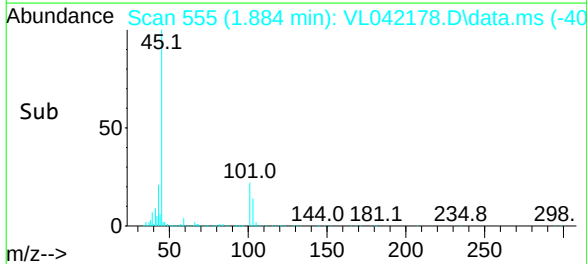
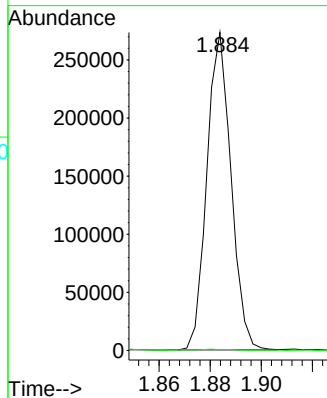
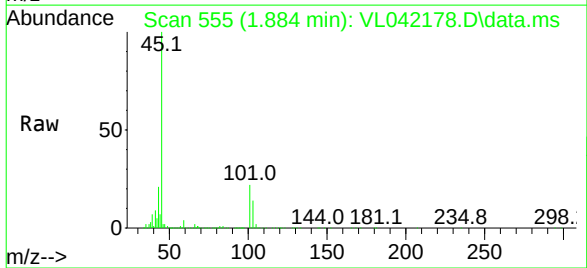
#19
Isopropyl Alcohol
Concen: 13.093 ppbv
RT: 1.884 min Scan# 555
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 45 Resp: 179117
Ion Ratio Lower Upper
45 100
58 46.4 36.9 55.3

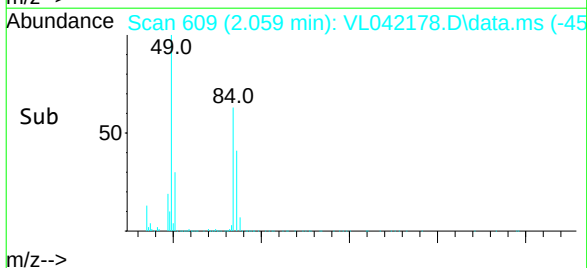
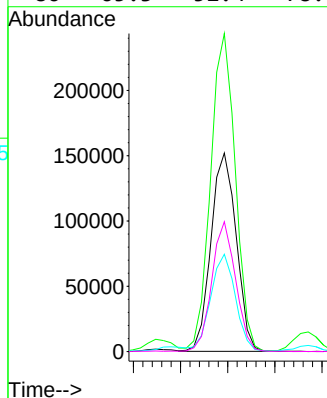
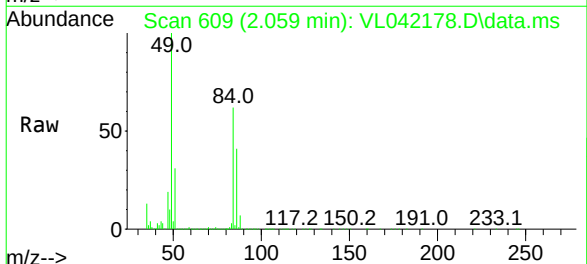
Manual Integrations
APPROVED

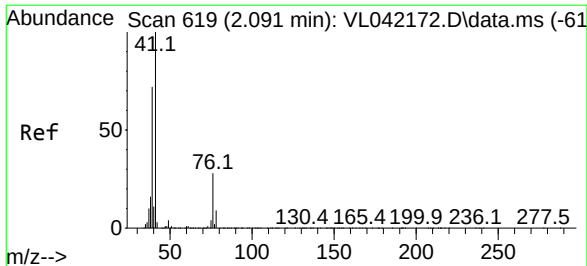
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#20
Methylene Chloride
Concen: 12.533 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 84 Resp: 113183
Ion Ratio Lower Upper
84 100
49 159.7 120.2 180.4
51 48.7 37.4 56.0
86 65.3 52.4 78.6





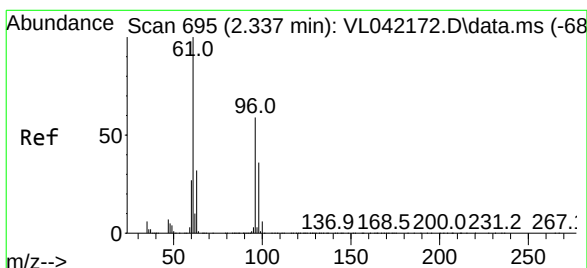
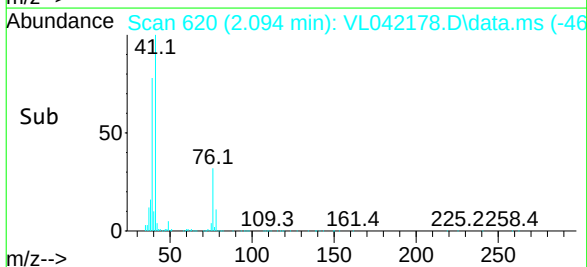
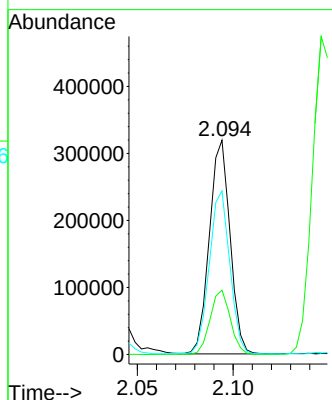
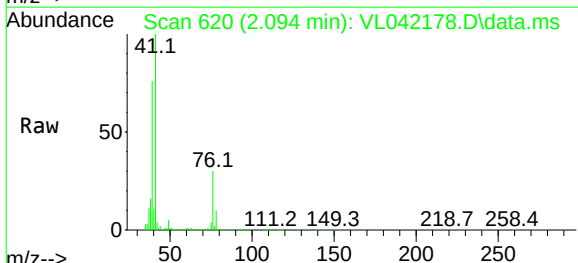
#21
Allyl Chloride
Concen: 14.002 ppbv
RT: 2.094 min Scan# 621
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 41 Resp: 239446
Ion Ratio Lower Upper
41 100
76 29.5 24.1 36.1
39 76.1 61.1 91.7

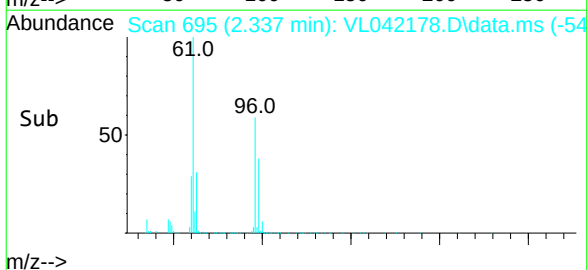
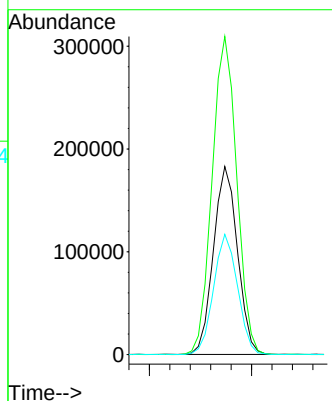
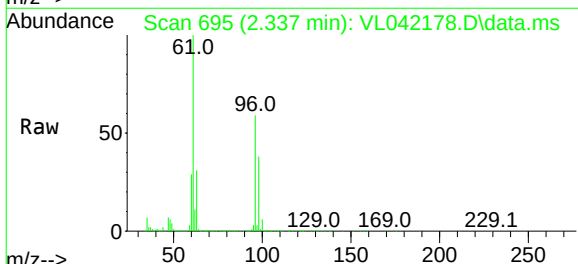
Manual Integrations
APPROVED

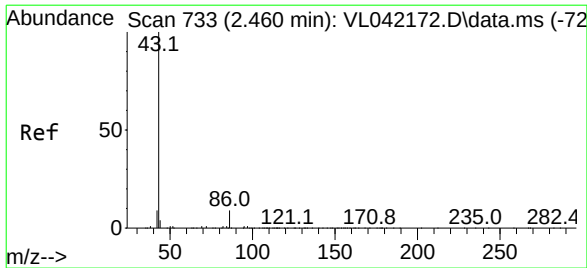
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#22
trans-1,2-Dichloroethene
Concen: 13.362 ppbv
RT: 2.337 min Scan# 695
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

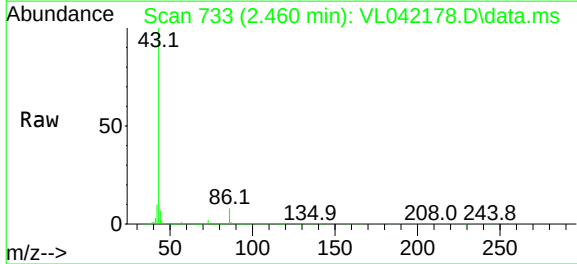
Tgt Ion: 96 Resp: 149455
Ion Ratio Lower Upper
96 100
61 169.2 136.6 204.8
98 63.9 49.4 74.2





#23
 Vinyl Acetate
 Concen: 13.736 ppbv
 RT: 2.460 min Scan# 733
 Delta R.T. -0.000 min
 Lab File: VL042178.D
 Acq: 27 Mar 2025 11:36

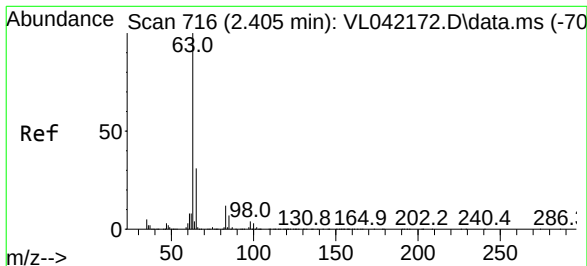
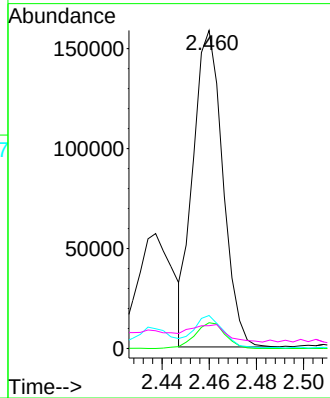
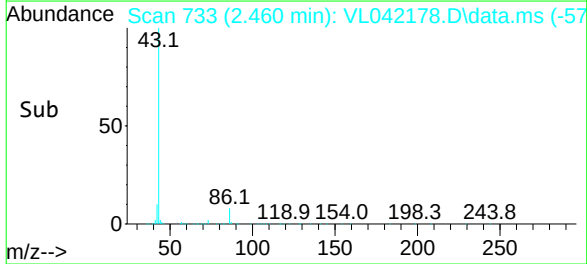
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC015



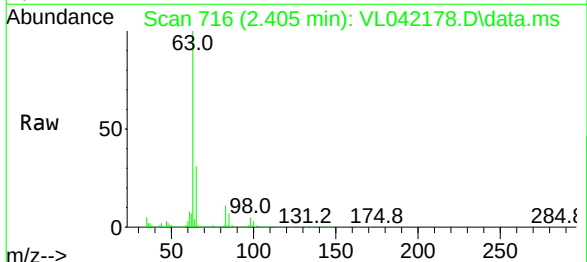
Tgt Ion:	43	Resp:	138419
Ion	Ratio	Lower	Upper
43	100		
86	8.1	5.5	8.3
42	10.1	8.6	13.0
44	5.0	6.2	9.4

Manual Integrations
 APPROVED

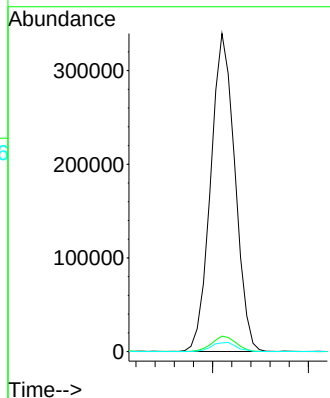
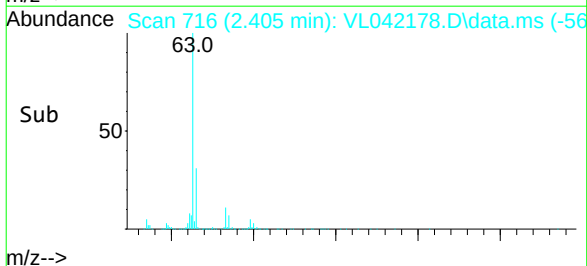
Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025

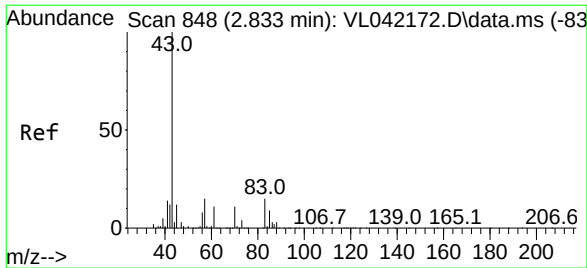


#24
 1,1-Dichloroethane
 Concen: 14.570 ppbv
 RT: 2.405 min Scan# 716
 Delta R.T. -0.000 min
 Lab File: VL042178.D
 Acq: 27 Mar 2025 11:36



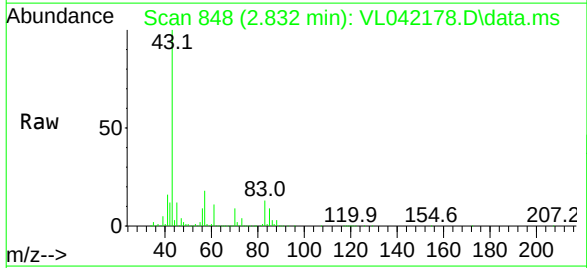
Tgt Ion:	63	Resp:	298760
Ion	Ratio	Lower	Upper
63	100		
98	4.9	2.3	6.8
100	2.7	1.6	4.7





#25
Ethyl Acetate
Concen: 13.855 ppbv
RT: 2.832 min Scan# 848
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

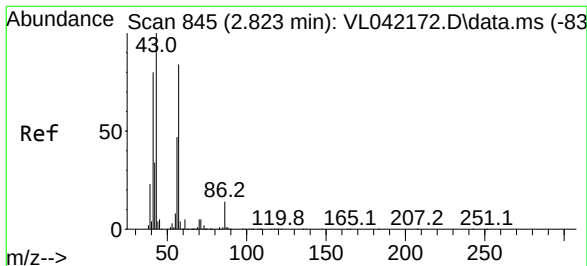
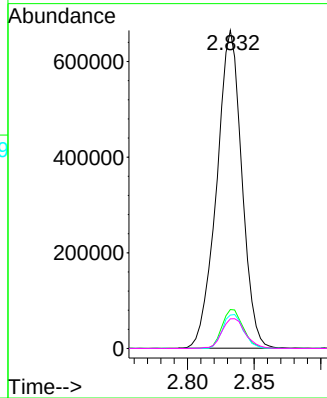
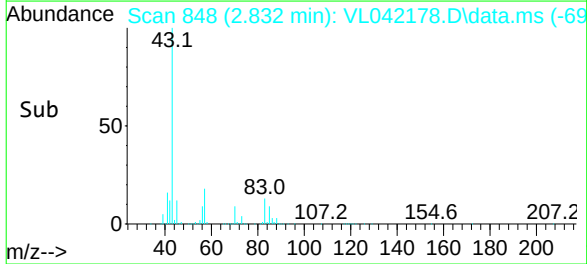
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



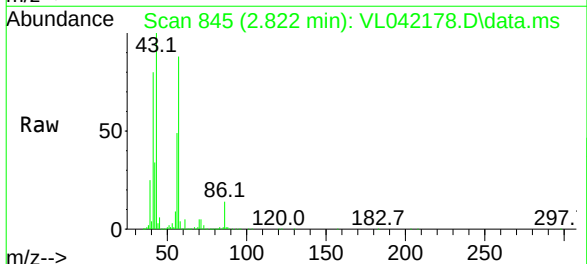
Tgt Ion: 43	Resp: 871882
Ion Ratio	Lower Upper
43 100	
45 10.3	8.2 12.2
61 9.0	7.3 10.9
70 8.8	7.2 10.8

Manual Integrations
APPROVED

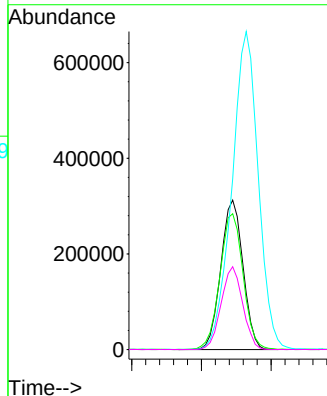
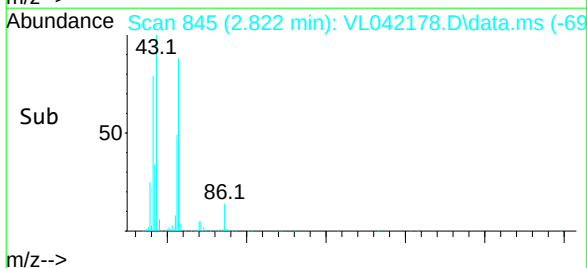
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

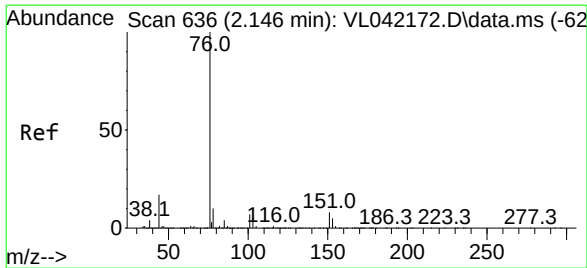


#26
Hexane
Concen: 14.178 ppbv
RT: 2.822 min Scan# 845
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36



Tgt Ion: 57	Resp: 344636
Ion Ratio	Lower Upper
57 100	
41 96.1	76.6 114.8
43 254.0	207.8 311.8
56 53.9	43.6 65.4





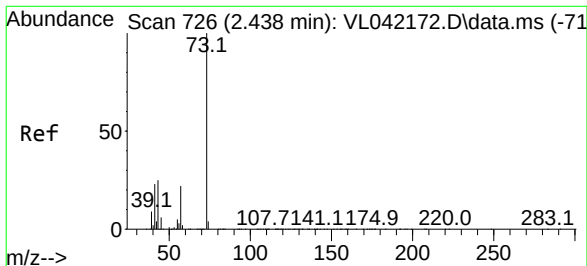
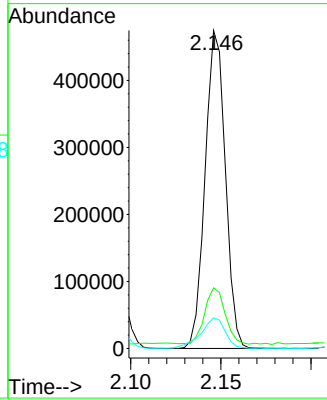
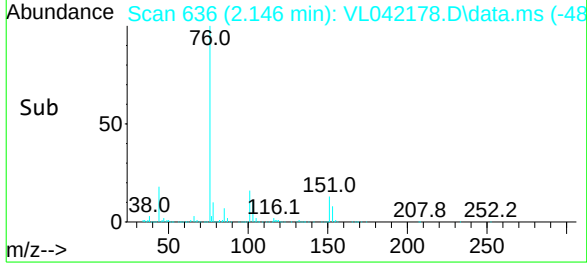
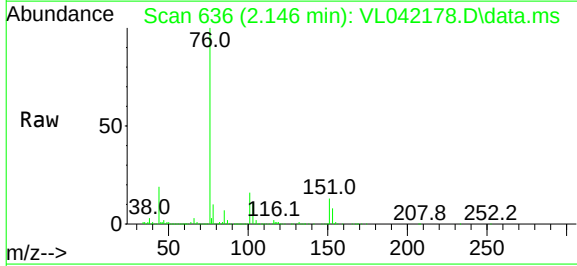
#27
Carbon Disulfide
Concen: 14.196 ppbv
RT: 2.146 min Scan# 636
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Instrument : MSVOA_L
ClientSampleId : VSTDIC015

Tgt Ion:	76	Resp:	370022
Ion	Ratio	Lower	Upper
76	100		
44	20.3	14.7	22.1
78	11.7	9.3	13.9

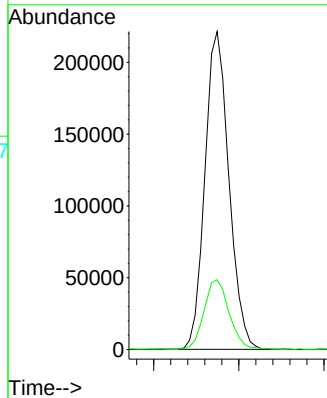
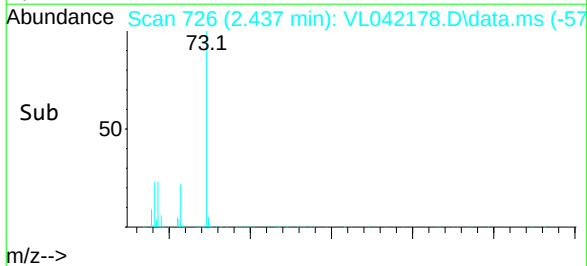
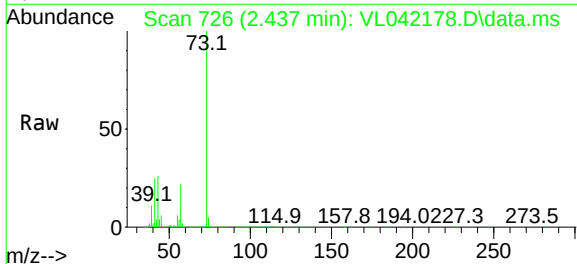
Manual Integrations
APPROVED

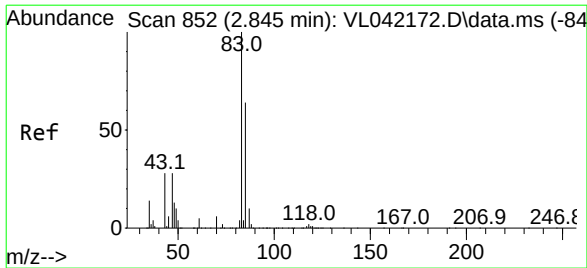
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#28
Methyl tert-Butyl Ether
Concen: 14.303 ppbv
RT: 2.437 min Scan# 726
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

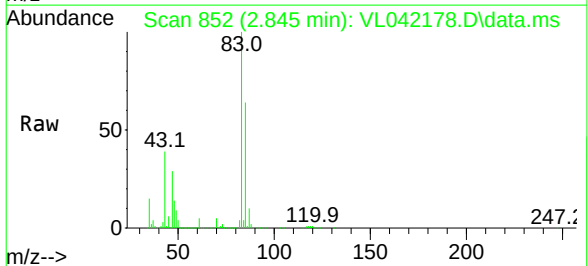
Tgt Ion:	73	Resp:	216463
Ion	Ratio	Lower	Upper
73	100		
57	23.2	20.5	30.7





#29
Chloroform
Concen: 14.297 ppbv
RT: 2.845 min Scan# 85
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

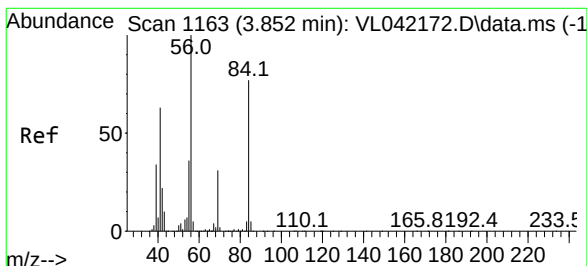
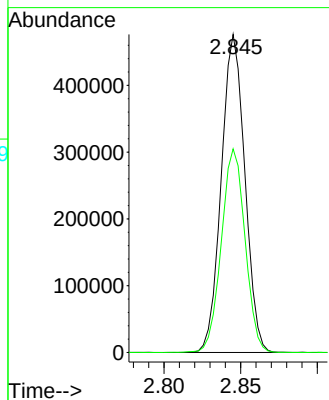
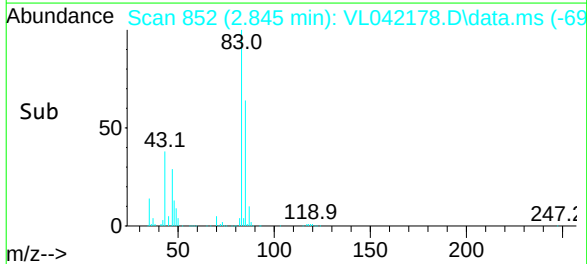
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



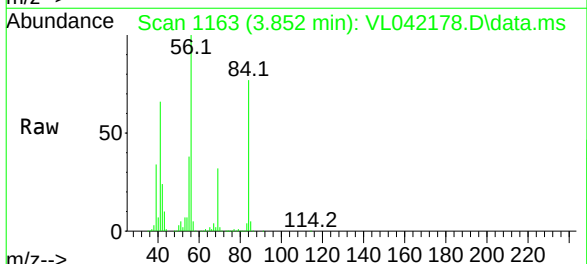
Tgt Ion: 83 Resp: 508614
Ion Ratio Lower Upper
83 100
85 64.0 51.4 77.2

Manual Integrations
APPROVED

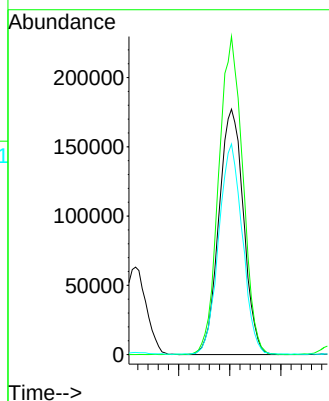
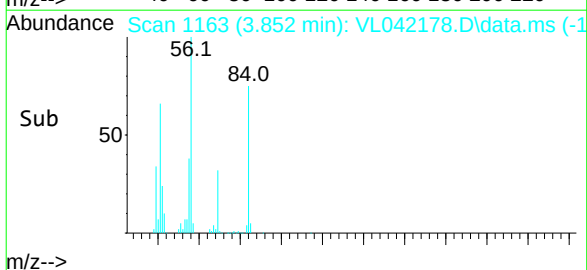
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

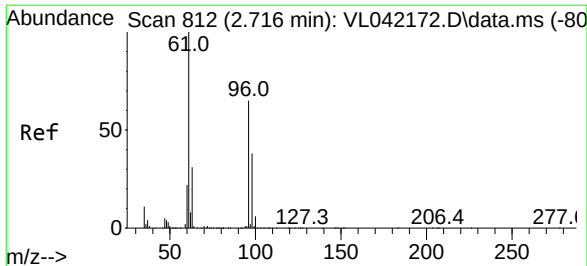


#30
Cyclohexane
Concen: 14.040 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36



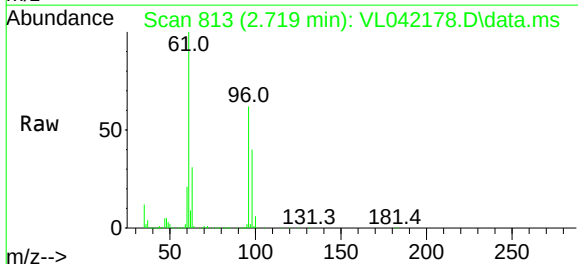
Tgt Ion: 84 Resp: 296458
Ion Ratio Lower Upper
84 100
56 126.7 102.8 154.2
41 82.6 66.5 99.7





#31
cis-1,2-Dichloroethene
Concen: 14.262 ppbv
RT: 2.719 min Scan# 812
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

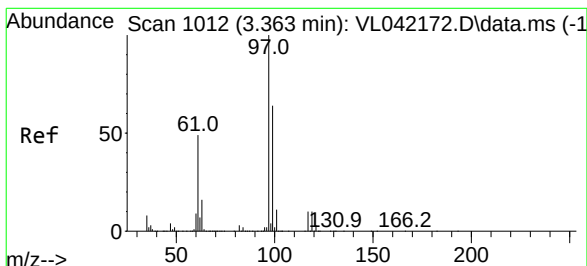
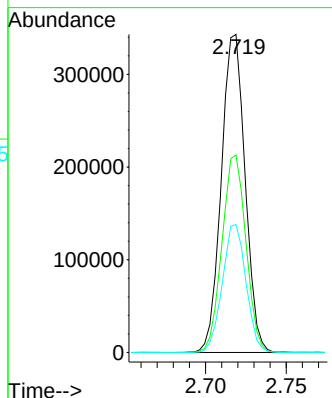
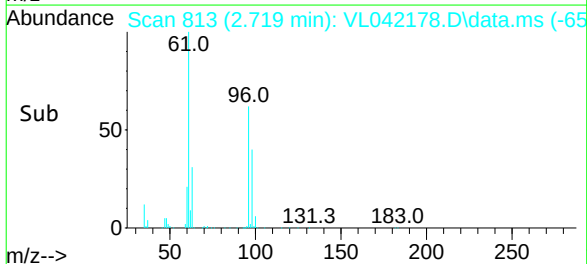
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



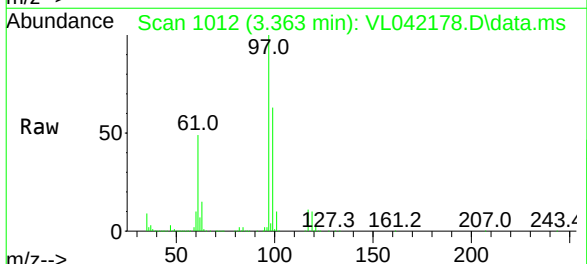
Tgt Ion: 61 Resp: 351945
Ion Ratio Lower Upper
61 100
96 62.1 51.8 77.8
98 40.2 30.6 46.0

Manual Integrations
APPROVED

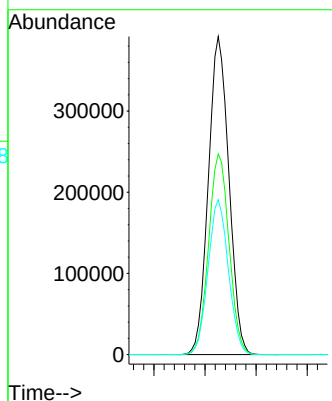
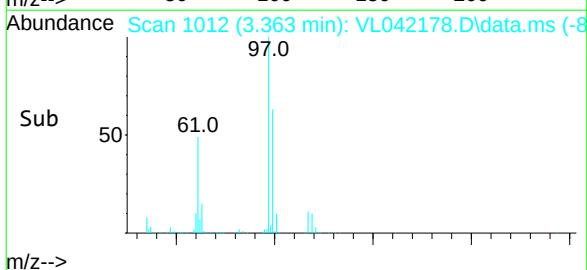
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

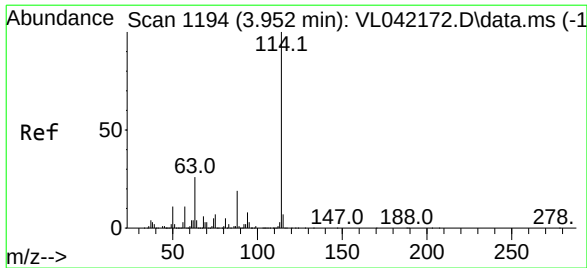


#32
1,1,1-Trichloroethane
Concen: 13.448 ppbv
RT: 3.363 min Scan# 1012
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36



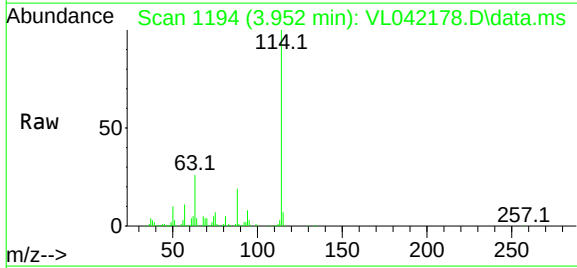
Tgt Ion: 97 Resp: 547329
Ion Ratio Lower Upper
97 100
99 62.8 51.5 77.3
61 48.4 38.7 58.1





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

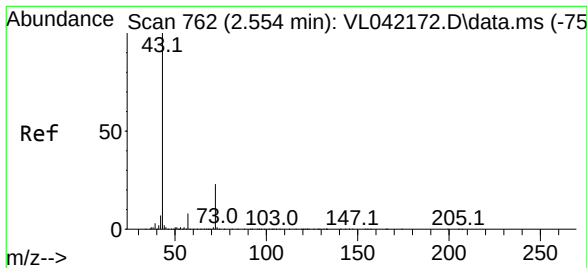
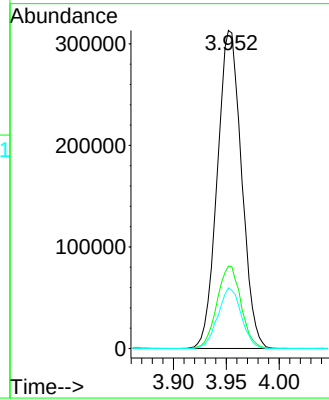
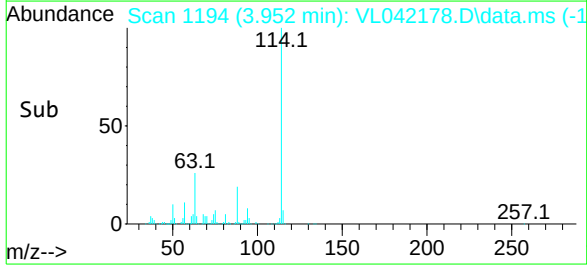
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



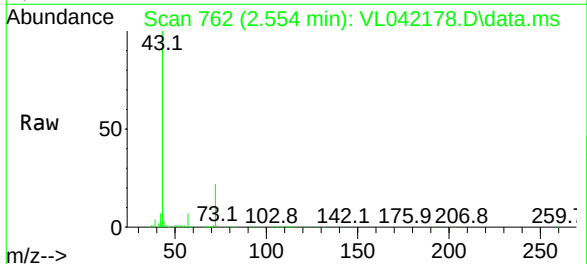
Tgt Ion: 114 Resp: 499360
Ion Ratio Lower Upper
114 100
63 25.7 20.7 31.1
88 18.4 15.0 22.4

Manual Integrations
APPROVED

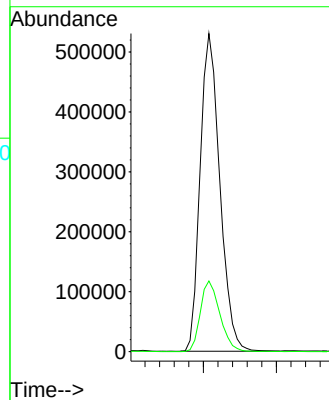
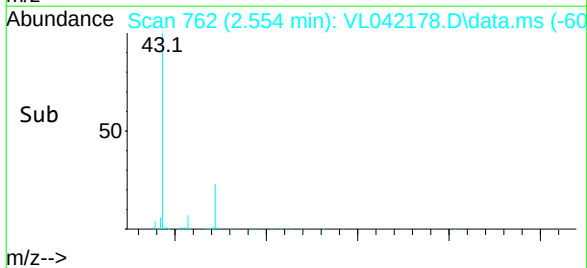
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

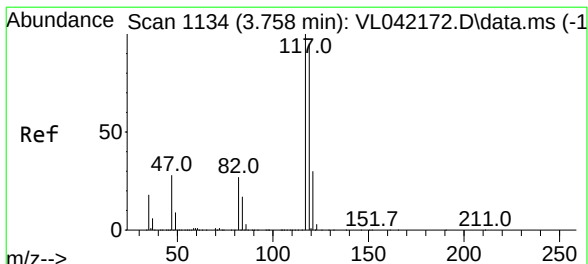


#34
2-Butanone
Concen: 13.726 ppbv
RT: 2.554 min Scan# 762
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36



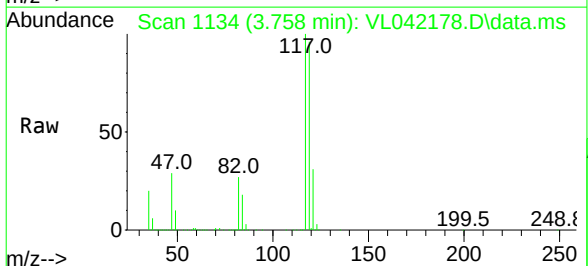
Tgt Ion: 43 Resp: 497020
Ion Ratio Lower Upper
43 100
72 22.0 18.2 27.2





#35
Carbon Tetrachloride
Concen: 14.140 ppbv
RT: 3.758 min Scan# 111
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

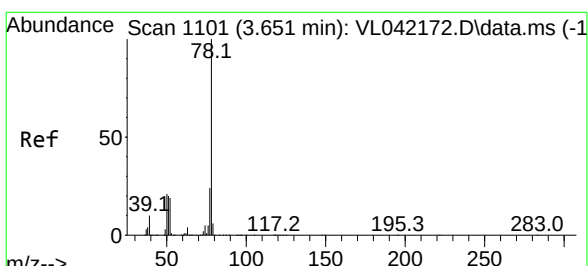
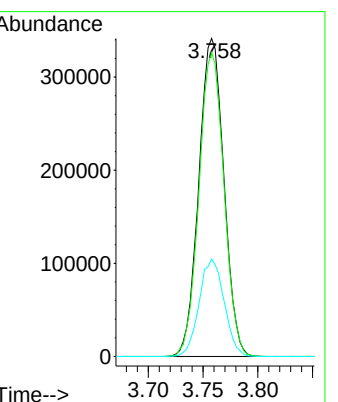
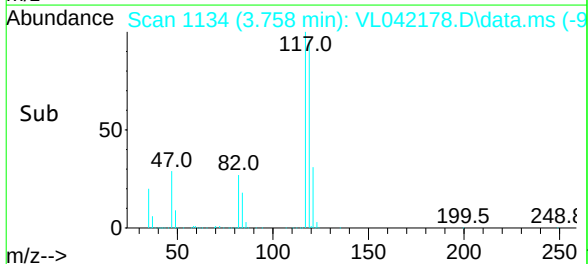
Instrument : MSVOA_L
ClientSampleId : VSTDIC015



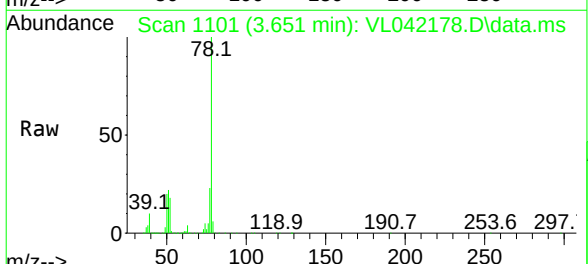
Tgt Ion: 117 Resp: 543385

Ion	Ratio	Lower	Upper
117	100		
119	95.5	76.2	114.2
121	30.6	24.2	36.4

Manual Integrations
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Reviewed By : Semsettin Yesilyurt 03/31/2025
Supervised By : Mahesh Dadoda 04/03/2025

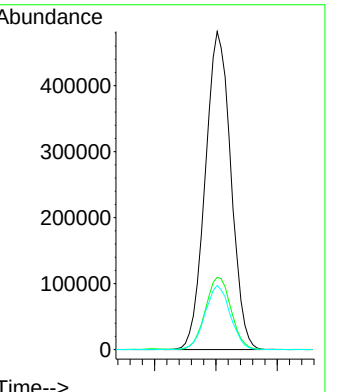
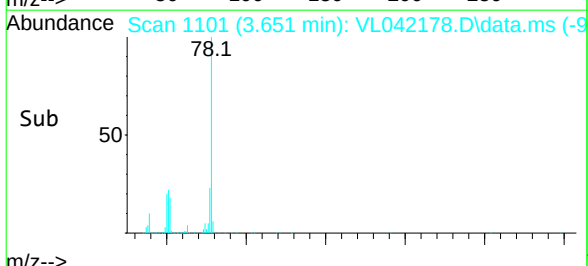


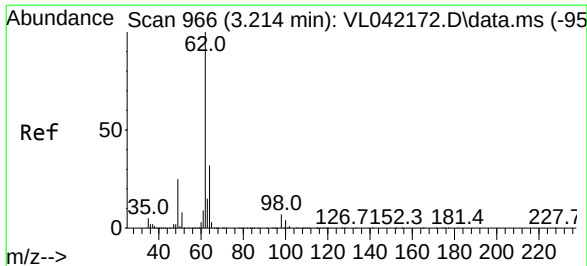
#36
Benzene
Concen: 14.131 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36



Tgt Ion: 78 Resp: 699549

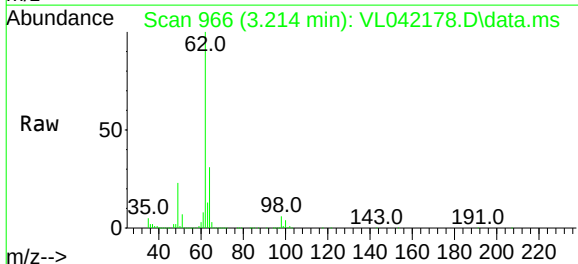
Ion	Ratio	Lower	Upper
78	100		
77	22.7	19.1	28.7
50	20.1	16.6	24.8





#37
1,2-Dichloroethane
Concen: 14.697 ppbv
RT: 3.214 min Scan# 96
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

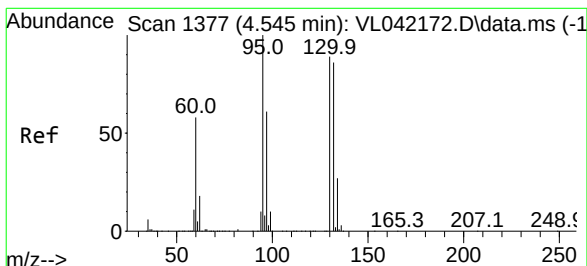
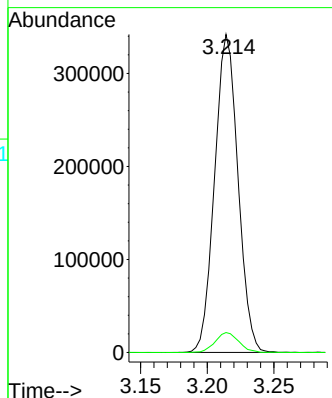
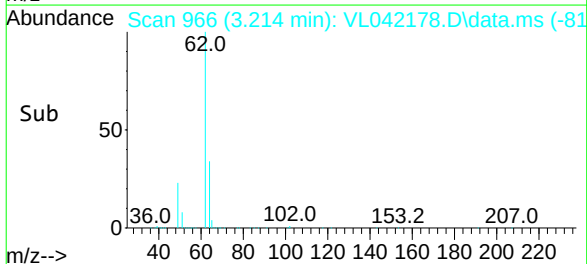
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



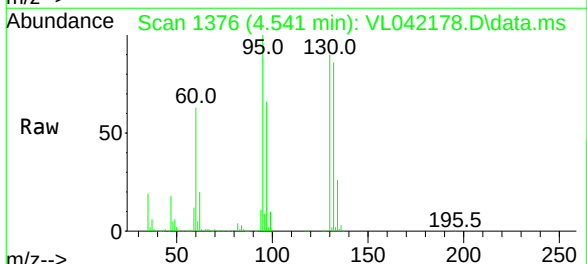
Tgt Ion: 62 Resp: 416544
Ion Ratio Lower Upper
62 100
98 6.4 5.4 8.2

Manual Integrations
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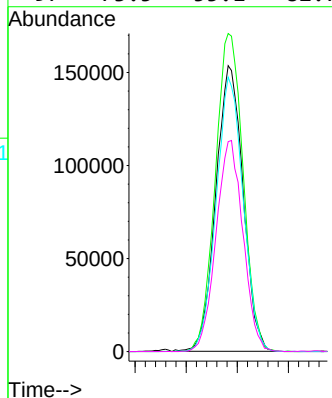
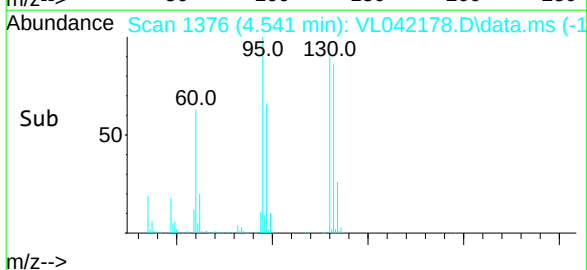
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

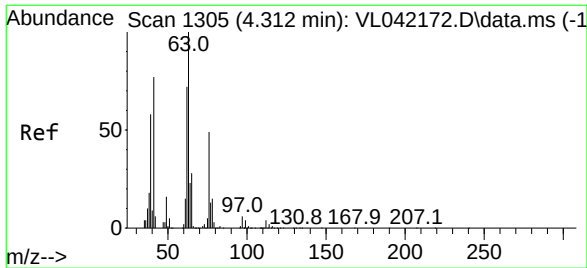


#38
Trichloroethene
Concen: 13.715 ppbv
RT: 4.541 min Scan# 1376
Delta R.T. -0.004 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36



Tgt Ion:130 Resp: 283430
Ion Ratio Lower Upper
130 100
95 111.3 89.8 134.8
132 96.0 77.4 116.2
97 73.5 55.1 82.7





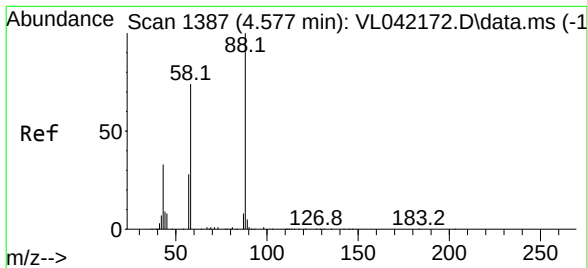
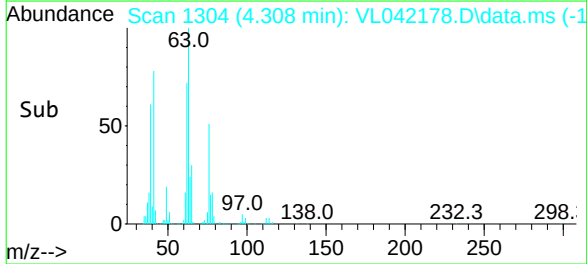
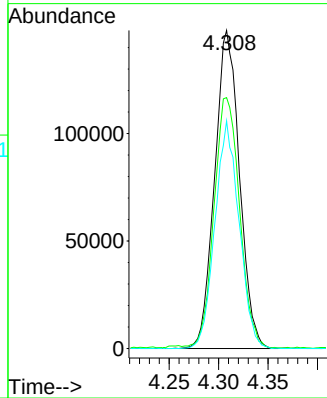
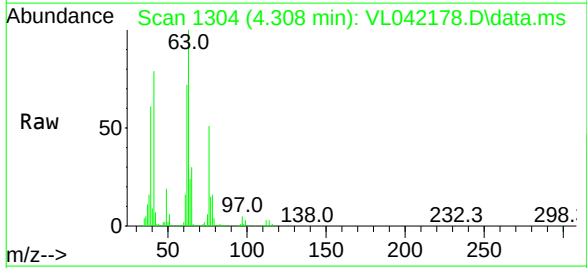
#39
1,2-Dichloropropane
Concen: 14.304 ppbv
RT: 4.308 min Scan# 1304
Delta R.T. -0.004 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:	63	Resp:	257891
Ion	Ratio	Lower	Upper
63	100		
41	78.7	61.7	92.5
62	71.6	57.6	86.4

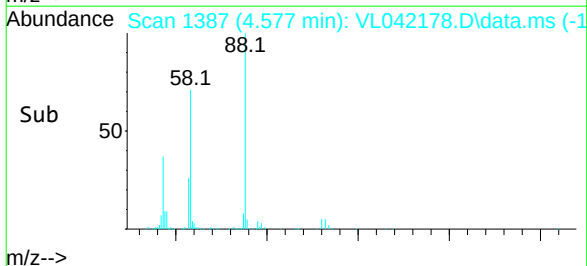
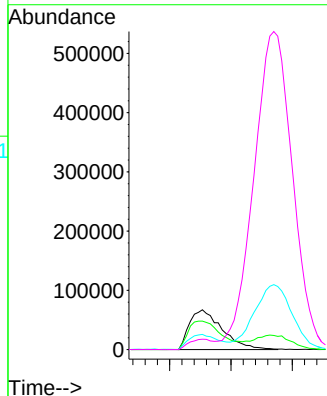
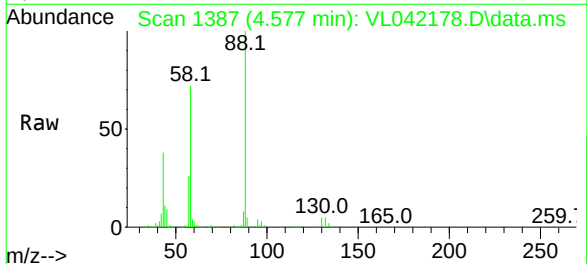
Manual Integrations
APPROVED

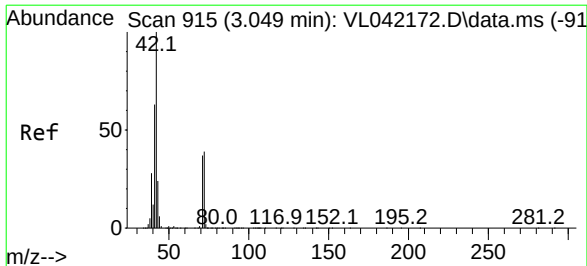
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#40
1,4-Dioxane
Concen: 13.354 ppbv
RT: 4.577 min Scan# 1387
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion:	88	Resp:	124925
Ion	Ratio	Lower	Upper
88	100		
58	69.6	62.7	94.1
43	31.6	23.0	34.4
57	0.0	0.0	0.0





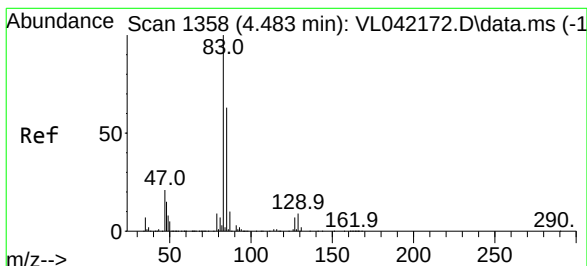
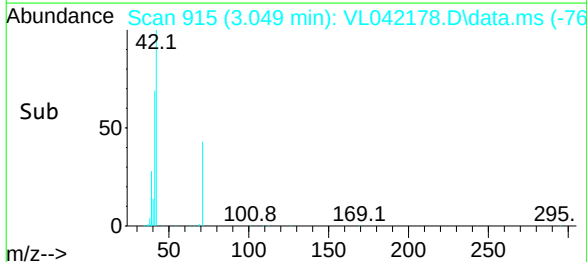
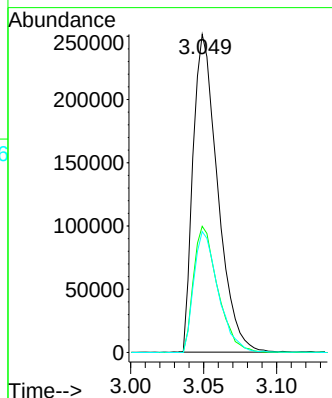
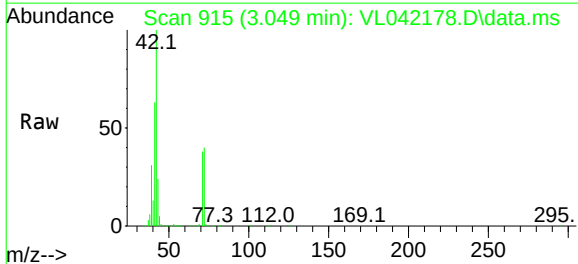
#41
Tetrahydrofuran
Concen: 14.301 ppbv
RT: 3.049 min Scan# 915
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 42 Resp: 294634
Ion Ratio Lower Upper
42 100
72 39.0 31.4 47.0
71 37.9 30.2 45.4

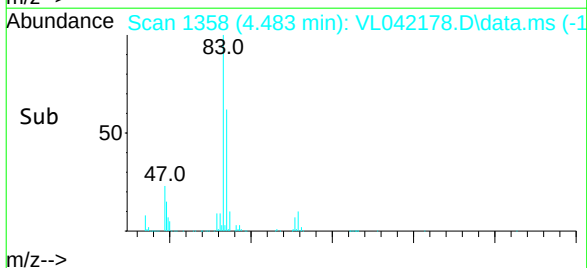
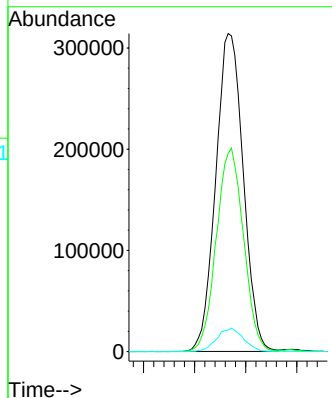
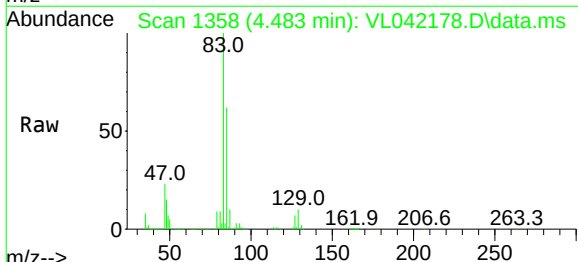
Manual Integrations
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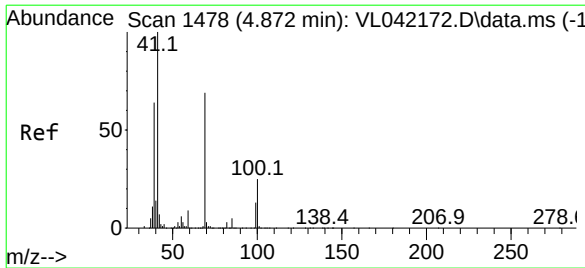
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#42
Bromodichloromethane
Concen: 15.043 ppbv
RT: 4.483 min Scan# 1358
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 83 Resp: 587772
Ion Ratio Lower Upper
83 100
85 62.4 50.5 75.7
127 6.8 5.9 8.9





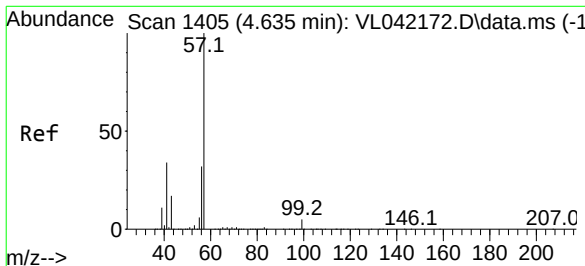
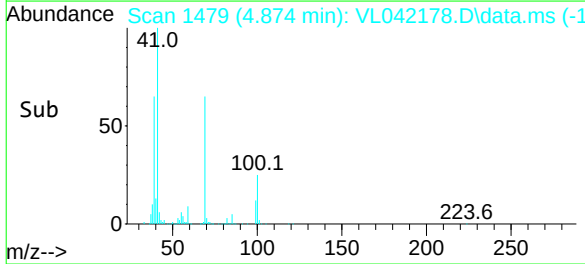
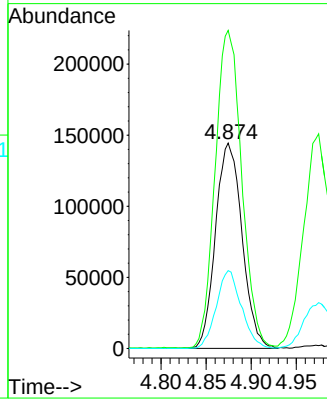
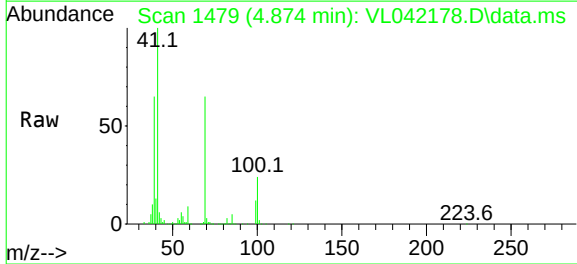
#43
Methyl Methacrylate
Concen: 14.130 ppbv
RT: 4.874 min Scan# 1478
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 69 Resp: 295300
Ion Ratio Lower Upper
69 100
41 155.4 123.8 185.6
100 36.0 28.4 42.6

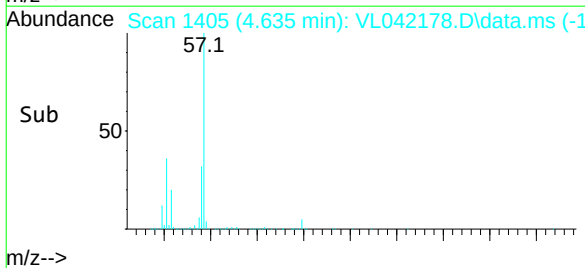
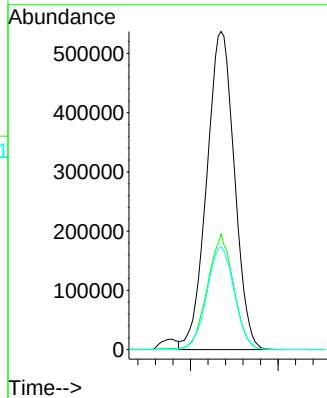
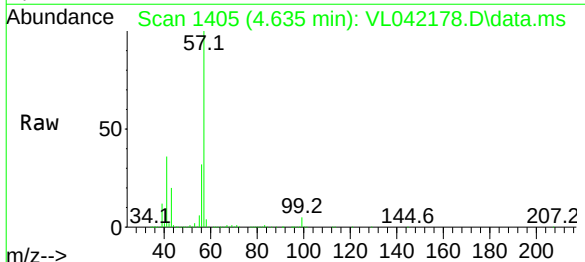
Manual Integrations
APPROVED

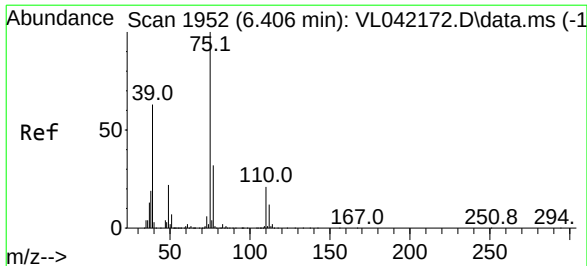
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#44
2,2,4-Trimethylpentane
Concen: 14.108 ppbv
RT: 4.635 min Scan# 1405
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 57 Resp: 1180275
Ion Ratio Lower Upper
57 100
41 34.2 26.8 40.2
56 31.9 25.6 38.4





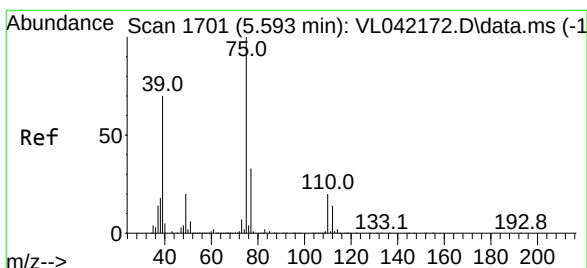
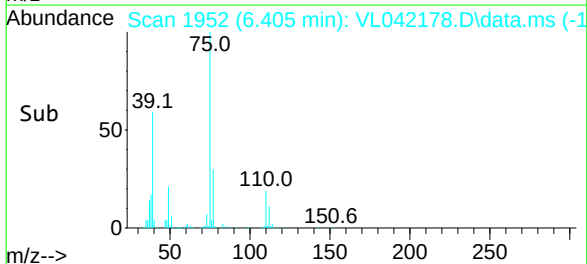
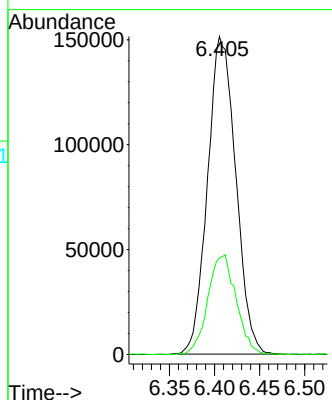
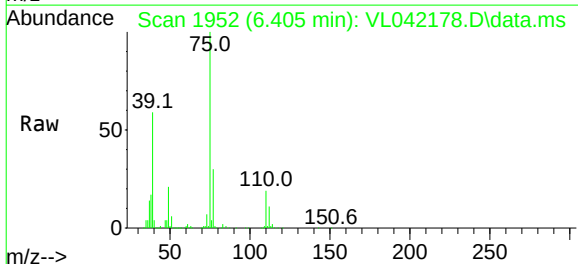
#45
t-1,3-Dichloropropene
Concen: 14.649 ppbv
RT: 6.405 min Scan# 1952
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 75 Resp: 329360
Ion Ratio Lower Upper
75 100
77 30.4 26.0 39.0

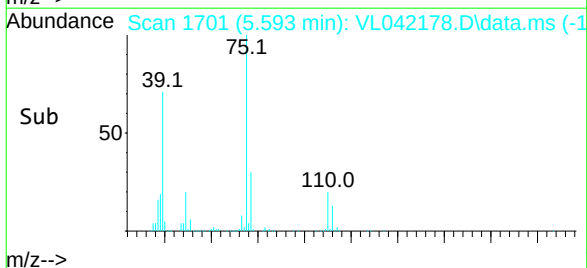
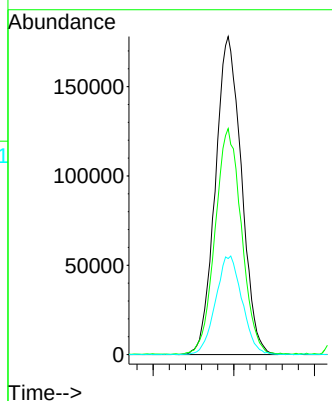
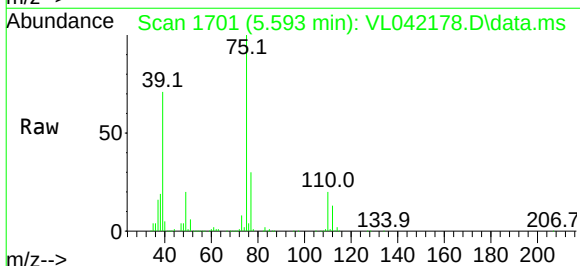
Manual Integrations
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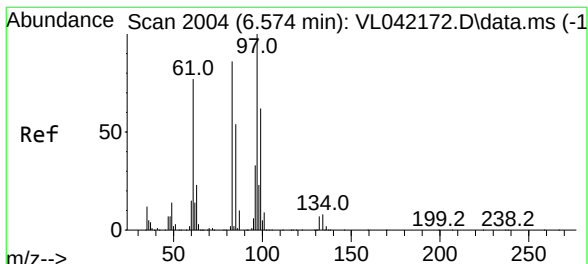
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#46
cis-1,3-Dichloropropene
Concen: 14.542 ppbv
RT: 5.593 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 75 Resp: 400813
Ion Ratio Lower Upper
75 100
39 70.9 55.8 83.6
77 30.2 26.0 39.0





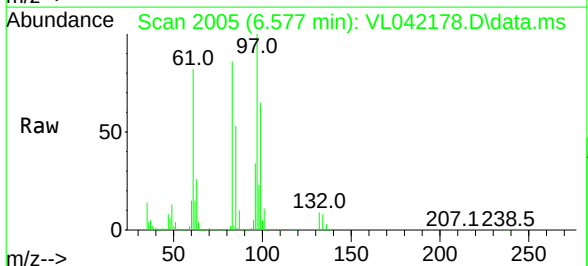
#47
 1,1,2-Trichloroethane
 Concen: 14.331 ppbv
 RT: 6.577 min Scan# 2005
 Delta R.T. 0.003 min
 Lab File: VL042178.D
 Acq: 27 Mar 2025 11:36

Instrument :

MSVOA_L

ClientSampleId :

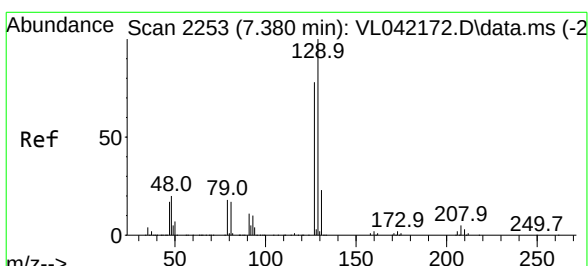
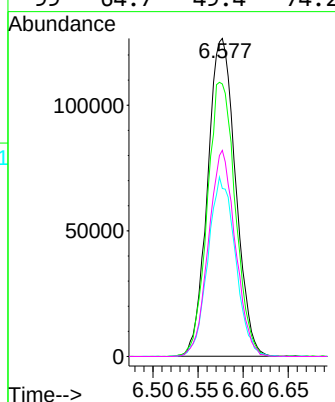
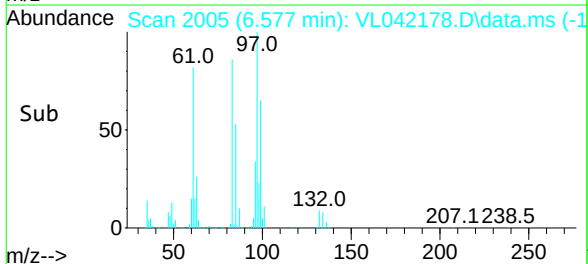
VSTDIC015



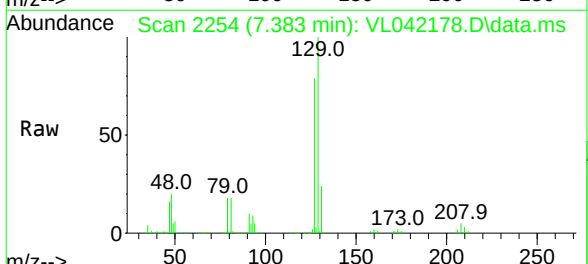
Tgt Ion	Ratio	Lower	Upper
97	100		
83	85.7	69.2	103.8
85	52.7	43.1	64.7
99	64.7	49.4	74.2

Manual Integrations
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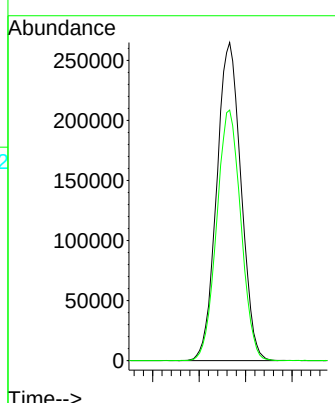
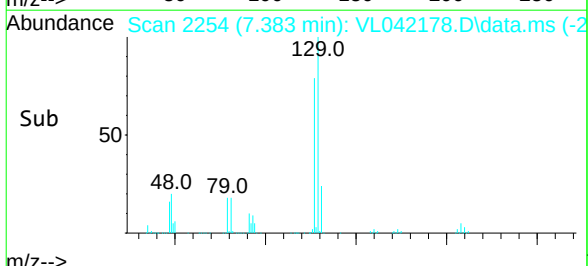
Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025

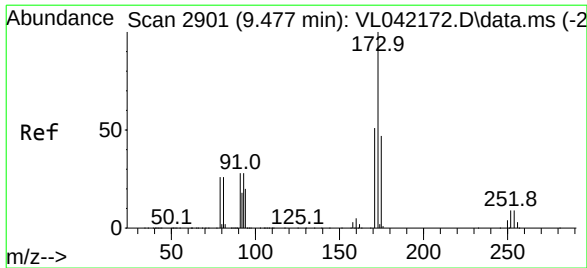


#48
 Dibromochloromethane
 Concen: 14.936 ppbv
 RT: 7.383 min Scan# 2254
 Delta R.T. 0.003 min
 Lab File: VL042178.D
 Acq: 27 Mar 2025 11:36



Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.4	39.1	117.2





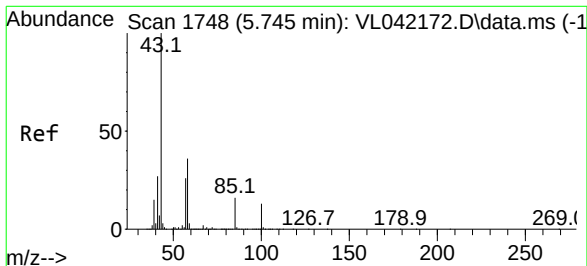
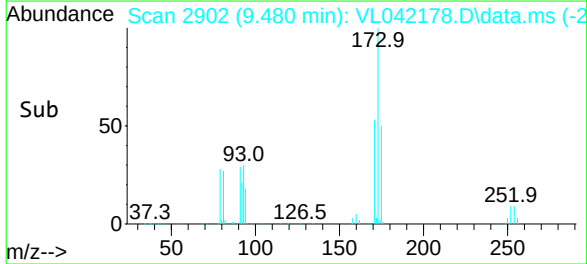
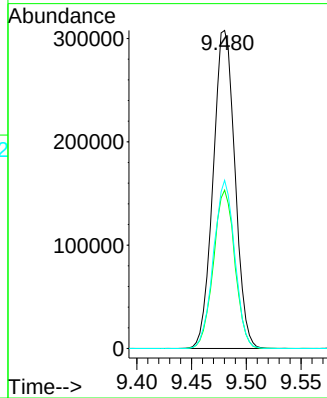
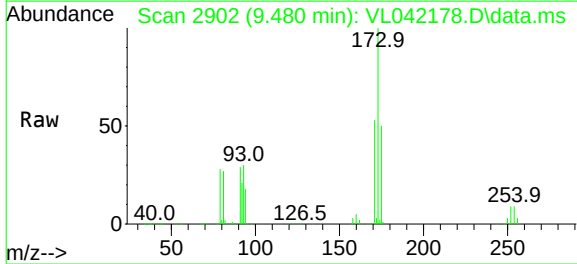
#49
Bromoform
Concen: 14.730 ppbv
RT: 9.480 min Scan# 2901
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 173 Resp: 427143
Ion Ratio Lower Upper
173 100
175 48.9 38.6 57.8
171 51.5 41.8 62.6

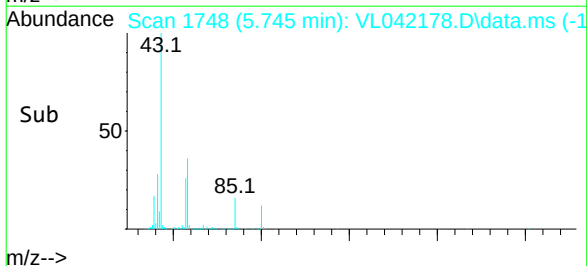
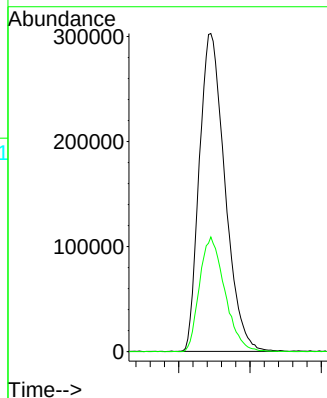
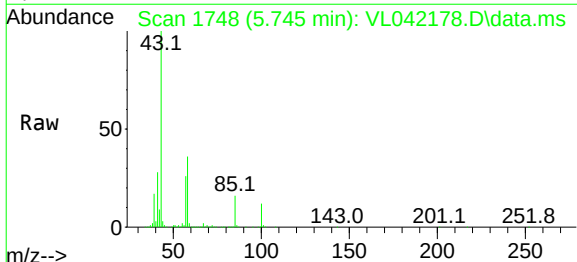
Manual Integrations
APPROVED

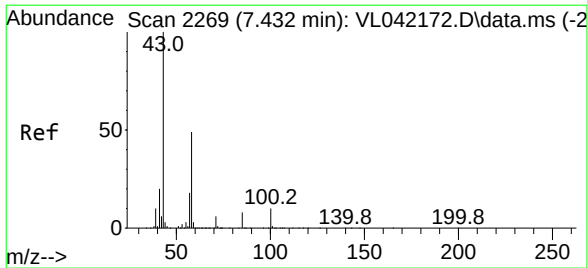
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#50
4-Methyl-2-Pentanone
Concen: 13.155 ppbv
RT: 5.745 min Scan# 1748
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 43 Resp: 755146
Ion Ratio Lower Upper
43 100
58 35.5 29.0 43.6





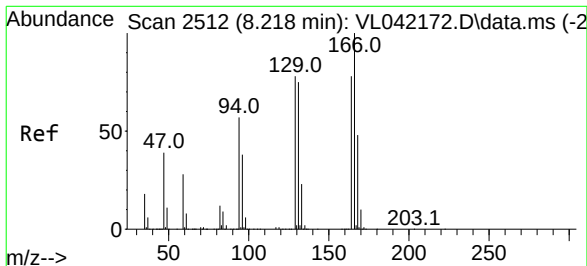
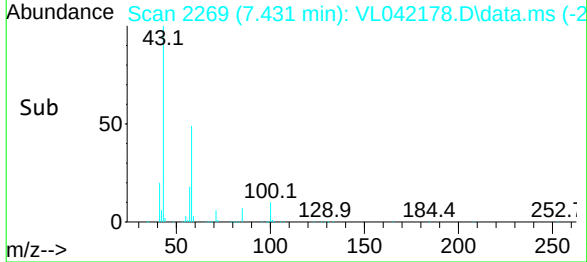
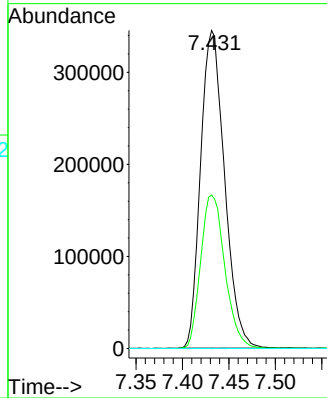
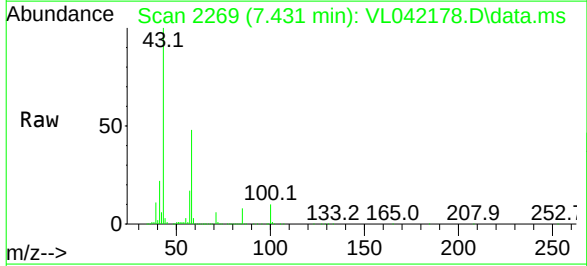
#51
2-Hexanone
Concen: 13.005 ppbv
RT: 7.431 min Scan# 2269
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 43 Resp: 619419
Ion Ratio Lower Upper
43 100
58 49.0 39.7 59.5
98 0.0 0.1 0.1#

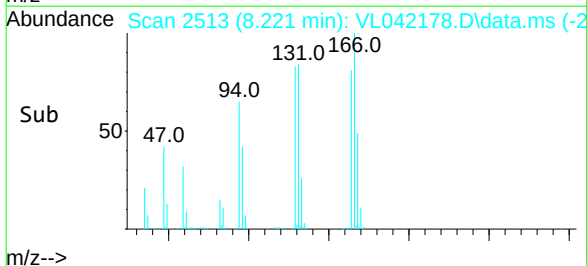
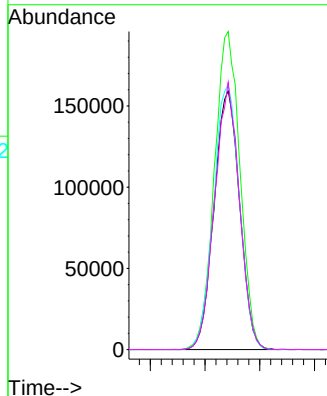
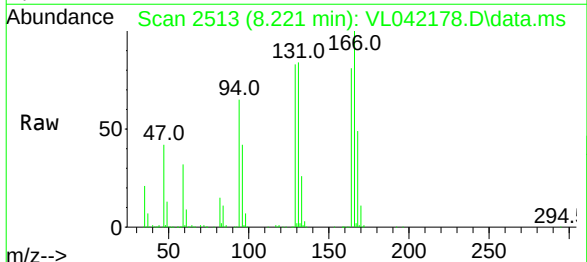
Manual Integrations
APPROVED

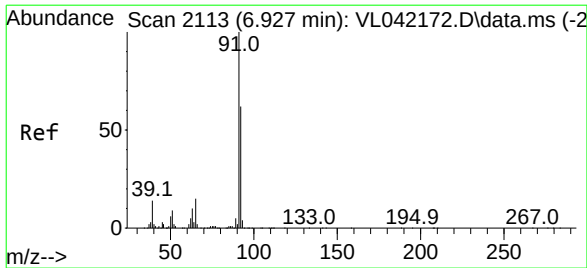
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#52
Tetrachloroethene
Concen: 13.159 ppbv
RT: 8.221 min Scan# 2513
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

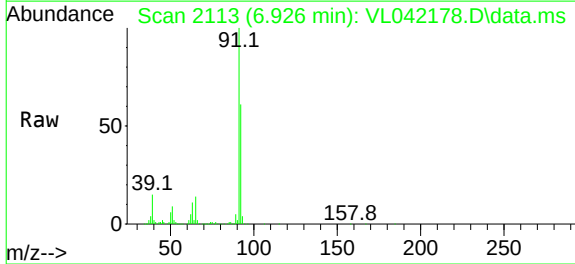
Tgt Ion:164 Resp: 258356
Ion Ratio Lower Upper
164 100
166 123.0 102.5 153.7
129 102.5 79.8 119.8
131 103.3 76.6 114.8





#53
Toluene
Concen: 14.137 ppbv
RT: 6.926 min Scan# 2113
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

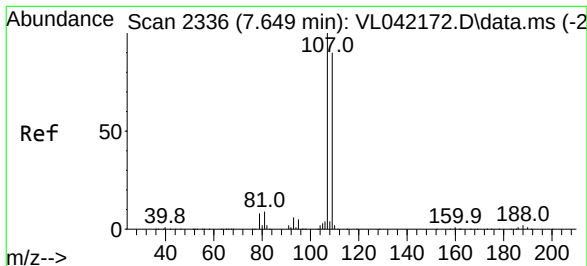
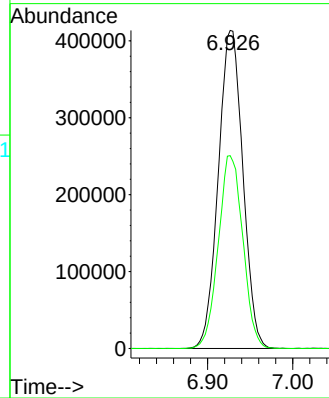
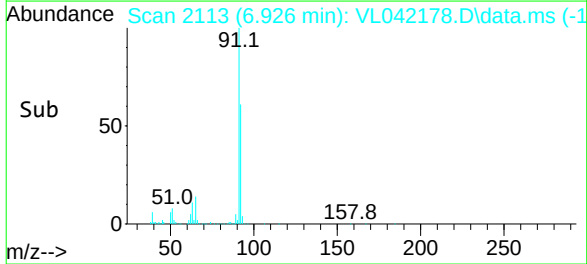
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



Tgt Ion: 91 Resp: 829648
Ion Ratio Lower Upper
91 100
92 60.6 48.4 72.6

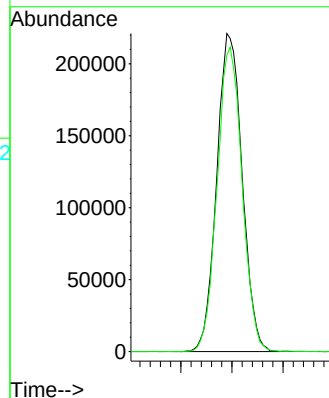
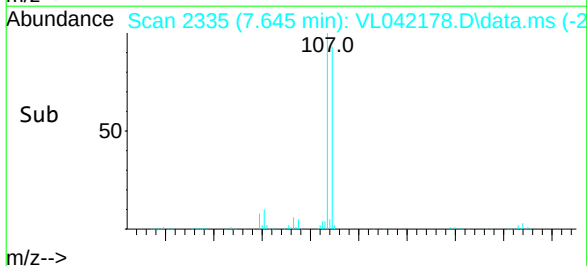
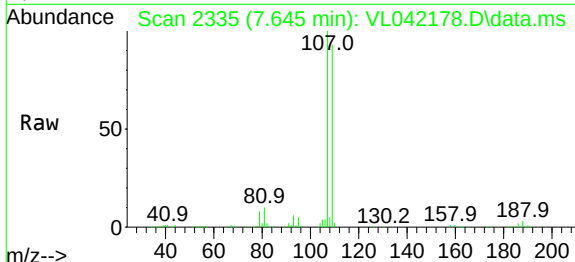
Manual Integrations
APPROVED

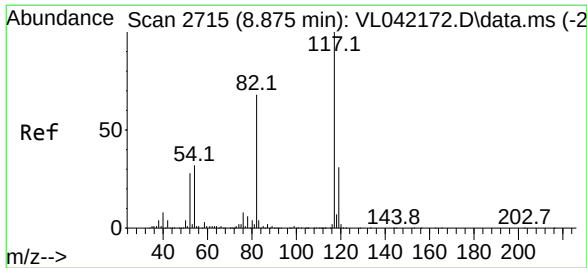
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#54
1,2-Dibromoethane
Concen: 14.359 ppbv
RT: 7.645 min Scan# 2335
Delta R.T. -0.004 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

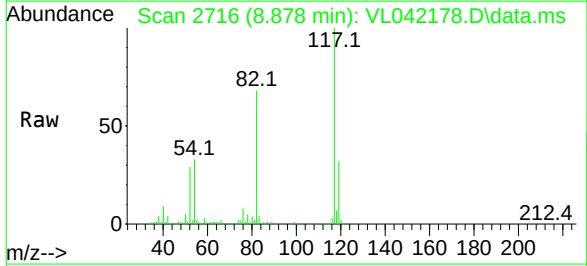
Tgt Ion:107 Resp: 381823
Ion Ratio Lower Upper
107 100
109 93.2 72.2 108.4





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2715
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

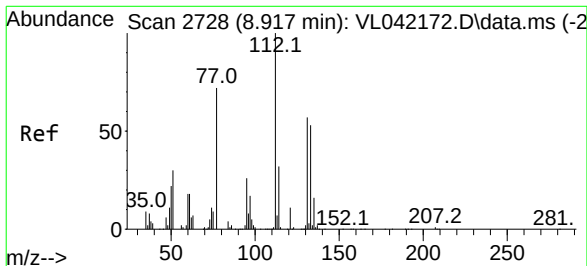
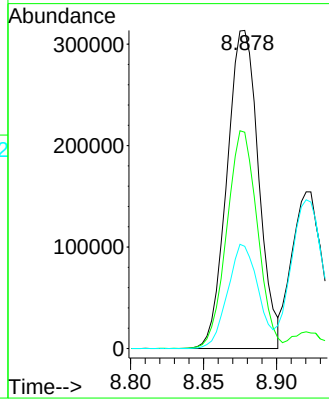
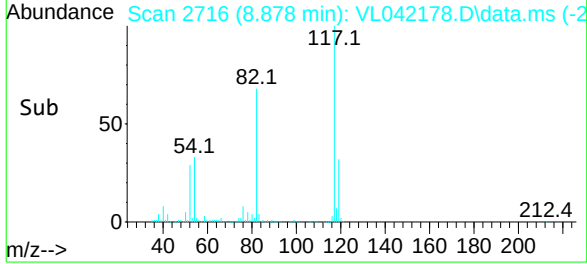
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



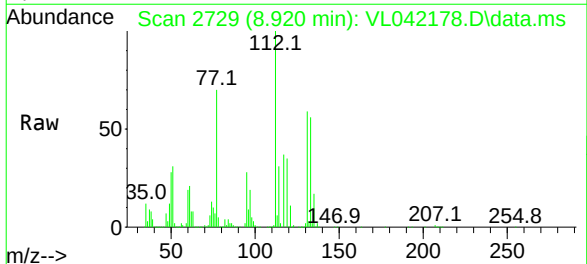
Tgt Ion:117 Resp: 473077
Ion Ratio Lower Upper
117 100
82 71.4 55.8 83.6
119 31.7 25.5 38.3

Manual Integrations
APPROVED

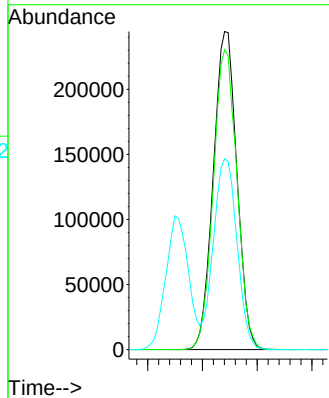
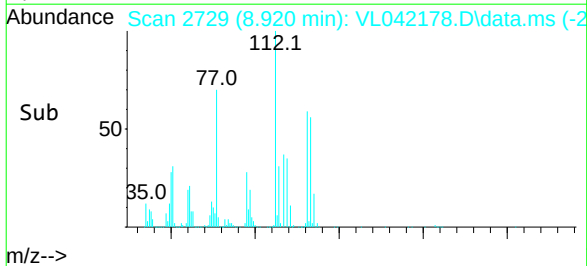
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

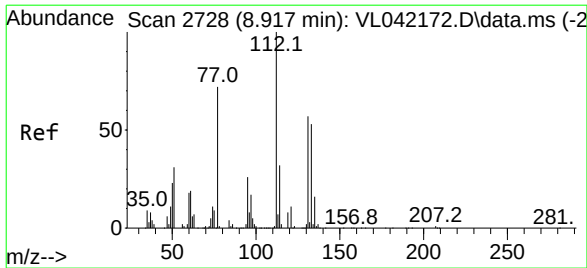


#56
1,1,1,2-Tetrachloroethane
Concen: 14.032 ppbv
RT: 8.920 min Scan# 2729
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36



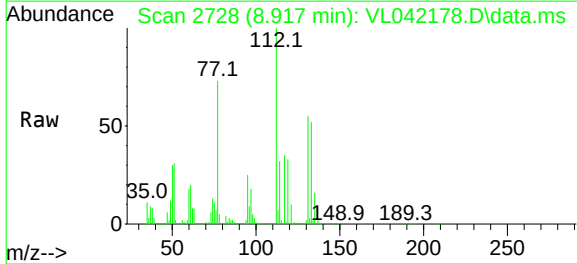
Tgt Ion:131 Resp: 365410
Ion Ratio Lower Upper
131 100
133 94.5 76.6 114.8
119 61.2 49.8 74.6





#57
Chlorobenzene
Concen: 13.777 ppbv
RT: 8.917 min Scan# 2728
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

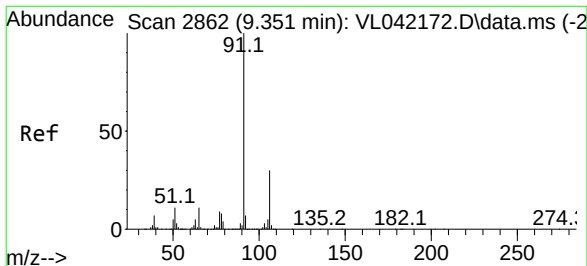
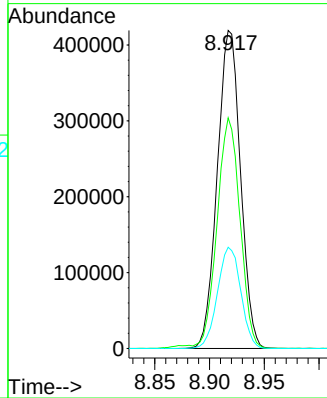
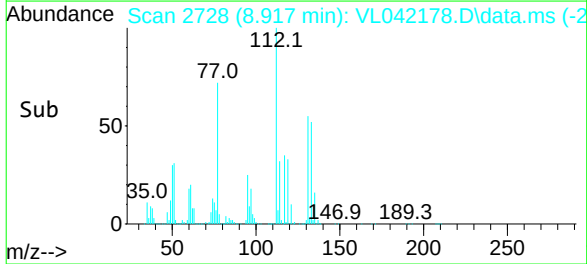
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



Tgt Ion: 112 Resp: 618201
Ion Ratio Lower Upper
112 100
77 72.5 58.2 87.2
114 31.8 29.1 35.5

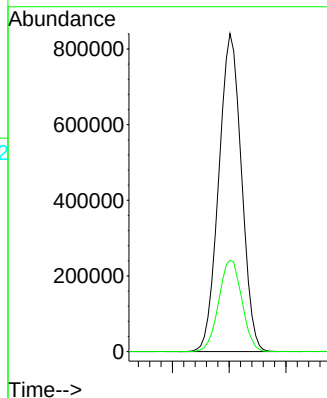
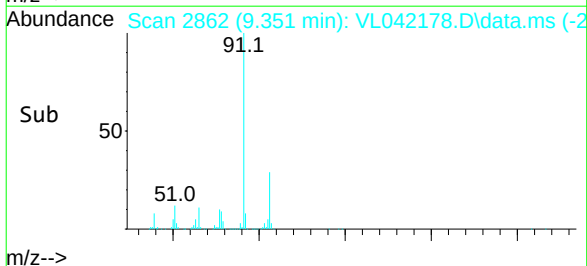
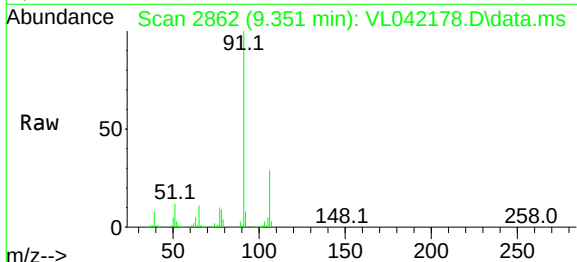
Manual Integrations
APPROVED

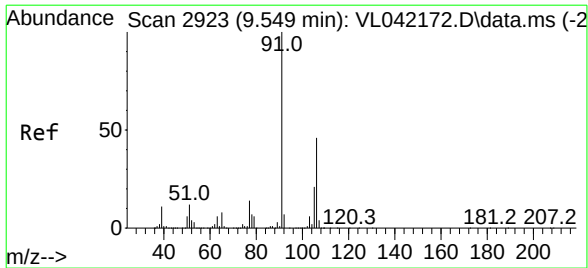
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#58
Ethyl Benzene
Concen: 13.889 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

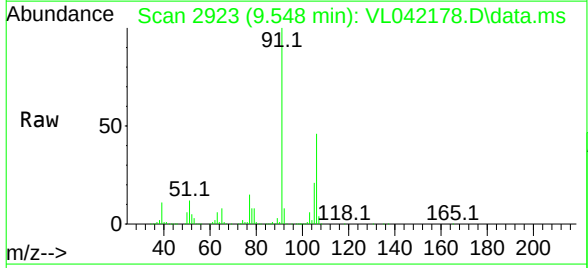
Tgt Ion: 91 Resp: 1167096
Ion Ratio Lower Upper
91 100
106 28.7 24.2 36.2





#59
m/p-Xylene
Concen: 27.651 ppbv m
RT: 9.548 min Scan# 29
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

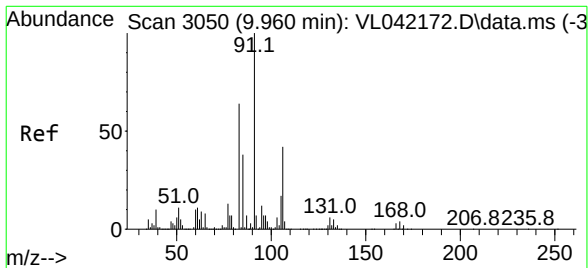
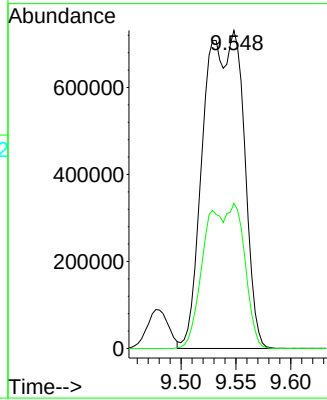
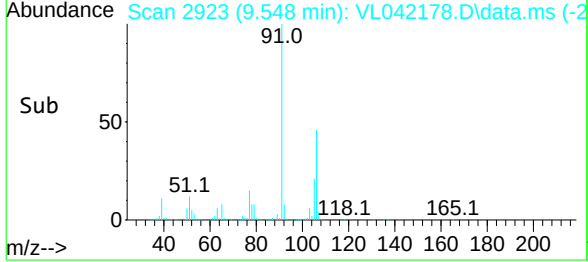
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



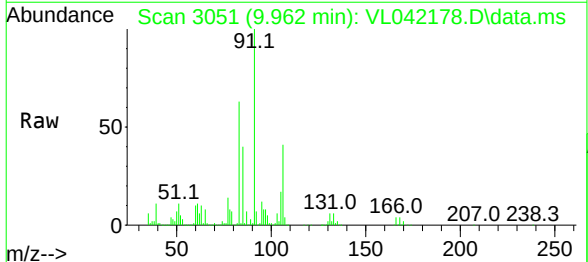
Tgt Ion: 91 Resp: 1857561
Ion Ratio Lower Upper
91 100
106 45.2 36.4 54.6

Manual Integrations
APPROVED

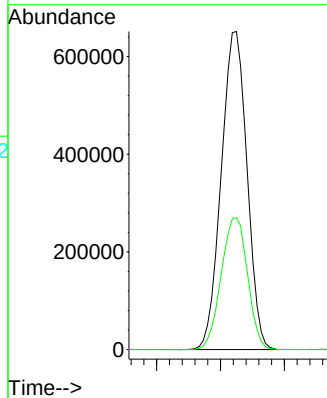
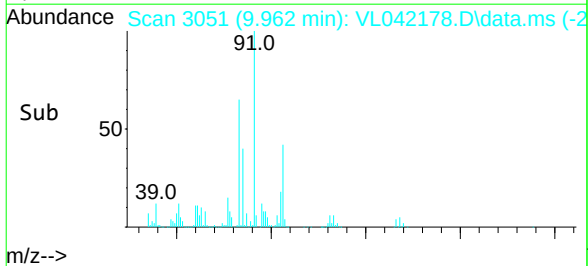
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

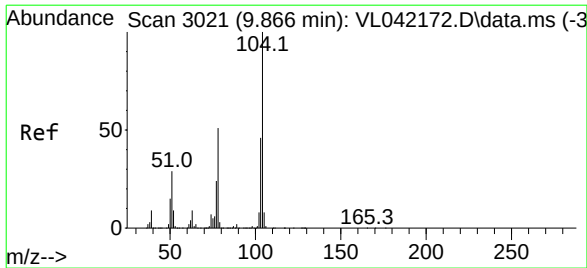


#60
o-Xylene
Concen: 13.577 ppbv
RT: 9.962 min Scan# 3051
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36



Tgt Ion: 91 Resp: 913234
Ion Ratio Lower Upper
91 100
106 42.4 20.8 62.5





#61
Styrene
 Concen: 14.250 ppbv
 RT: 9.865 min Scan# 3021
 Delta R.T. -0.000 min
 Lab File: VL042178.D
 Acq: 27 Mar 2025 11:36

Instrument :

MSVOA_L

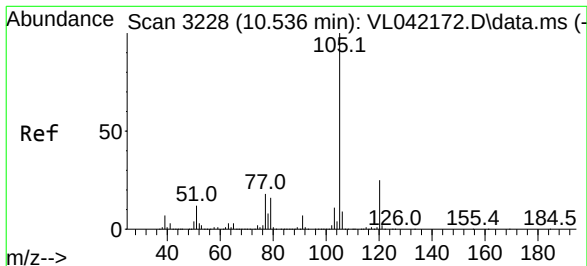
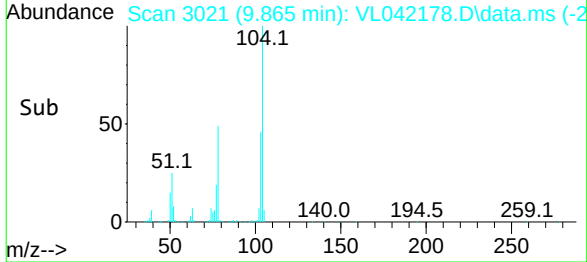
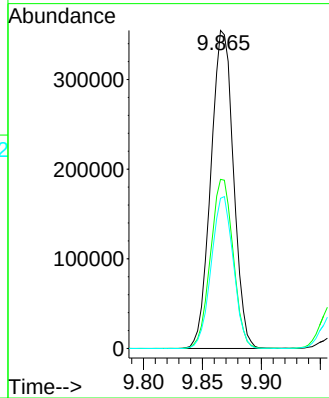
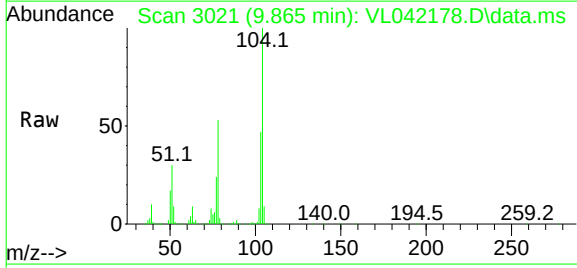
ClientSampleId :

VSTDICC015

Tgt Ion:104 Resp: 474195
 Ion Ratio Lower Upper
 104 100
 78 53.0 41.8 62.6
 103 46.7 37.0 55.4

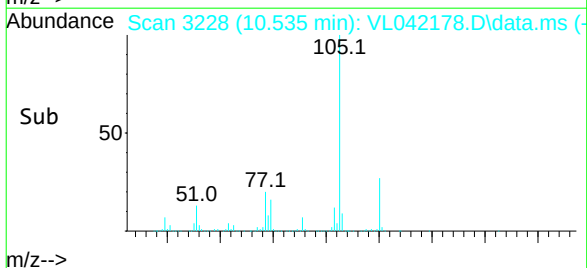
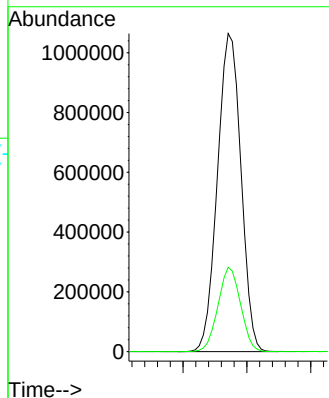
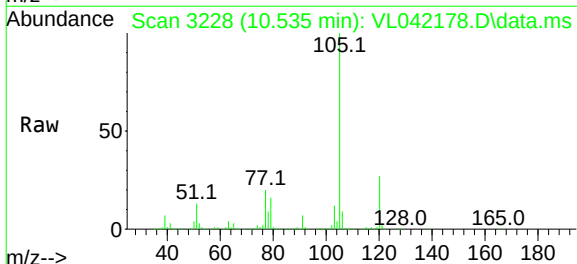
Manual Integrations
APPROVED

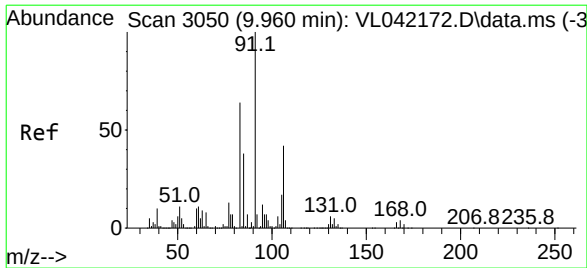
Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025



#62
Isopropylbenzene
 Concen: 13.544 ppbv
 RT: 10.535 min Scan# 3228
 Delta R.T. -0.000 min
 Lab File: VL042178.D
 Acq: 27 Mar 2025 11:36

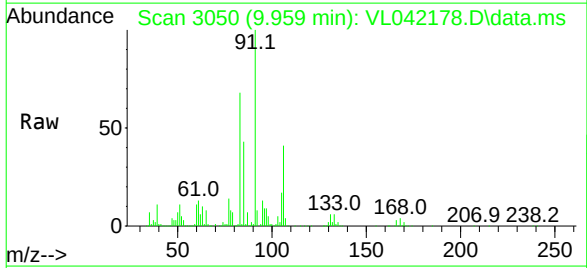
Tgt Ion:105 Resp: 1362416
 Ion Ratio Lower Upper
 105 100
 120 25.3 19.9 29.9





#63
1,1,2,2-Tetrachloroethane
Concen: 13.491 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

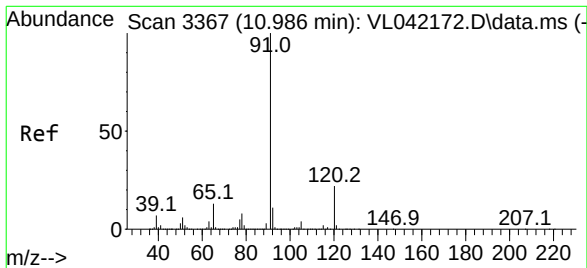
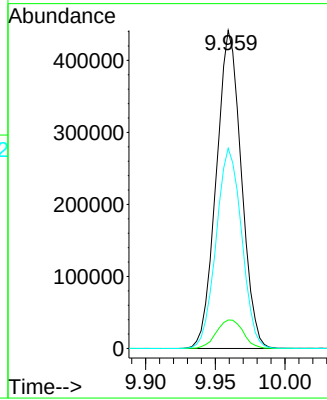
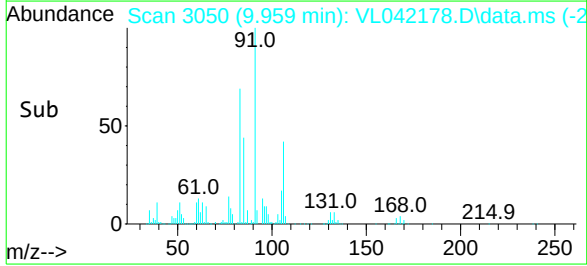
Instrument : MSVOA_1
ClientSampleId : VSTDIC015



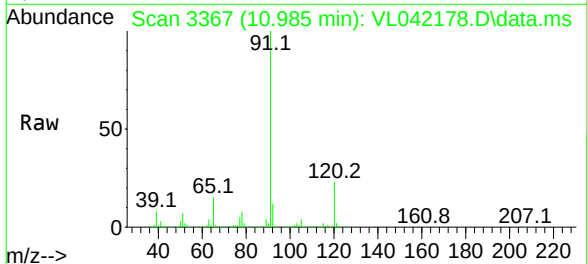
Tgt Ion: 83 Resp: 551386
Ion Ratio Lower Upper
83 100
131 9.6 4.8 14.4
85 64.2 32.5 97.5

Manual Integrations
APPROVED

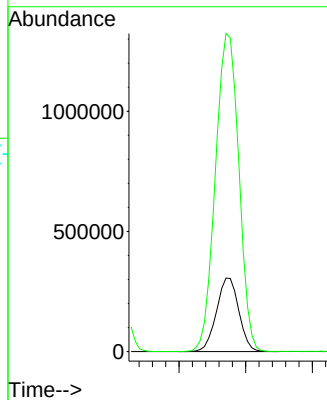
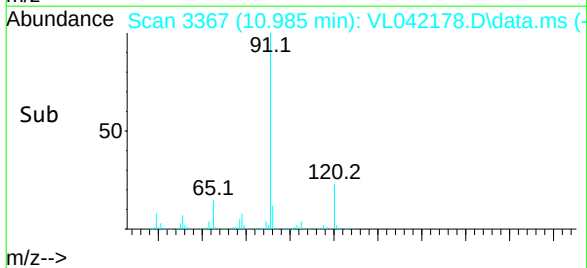
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

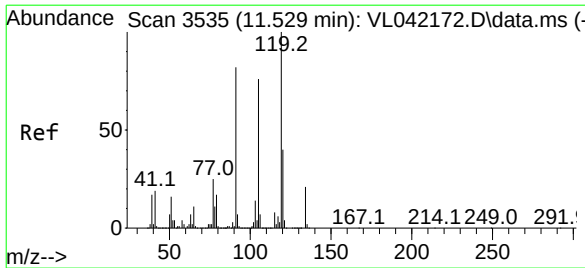


#64
n-propylbenzene
Concen: 13.753 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36



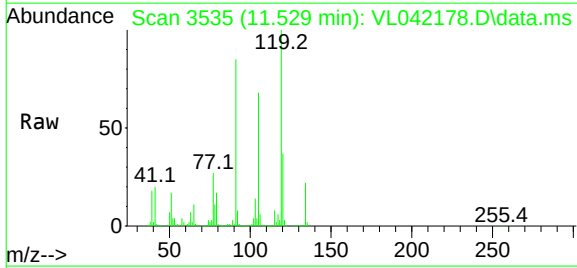
Tgt Ion:120 Resp: 356118
Ion Ratio Lower Upper
120 100
91 455.4 376.9 565.3





#65
tert-Butylbenzene
Concen: 12.901 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

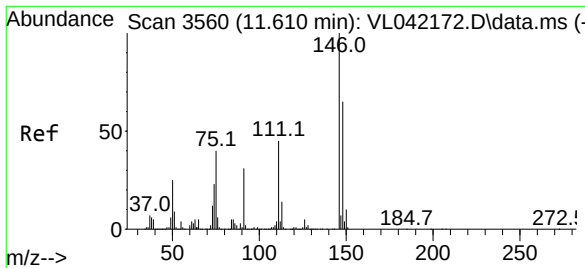
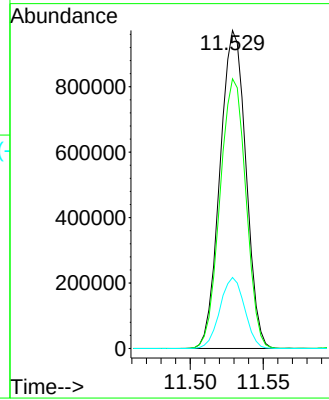
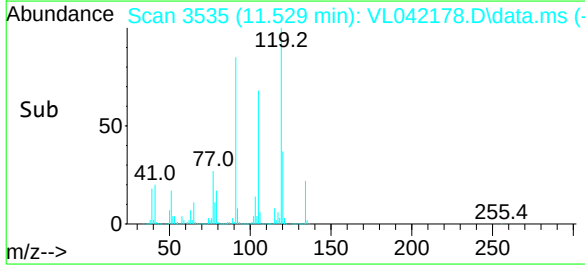
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



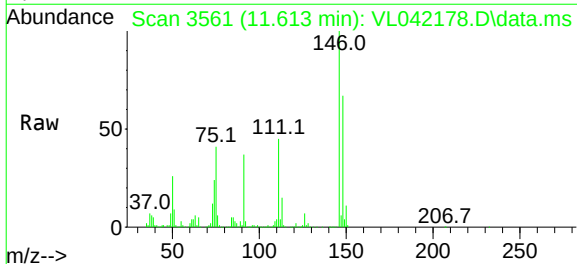
Tgt Ion: 119 Resp: 1200149
Ion Ratio Lower Upper
119 100
91 84.6 66.0 99.0
134 21.2 16.7 25.1

Manual Integrations
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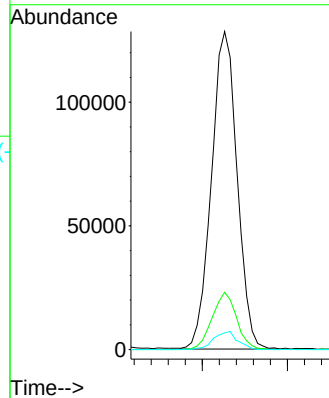
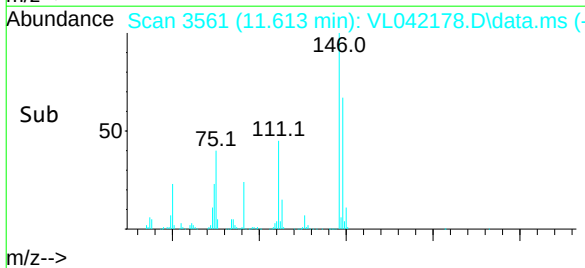
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

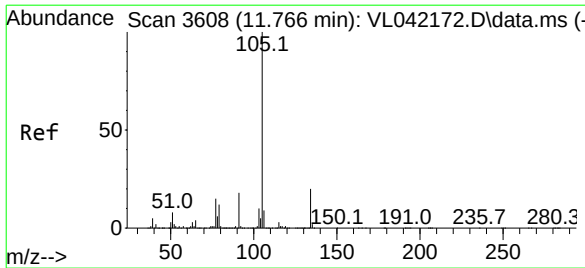


#66
Benzyl Chloride
Concen: 13.615 ppbv
RT: 11.613 min Scan# 3561
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36



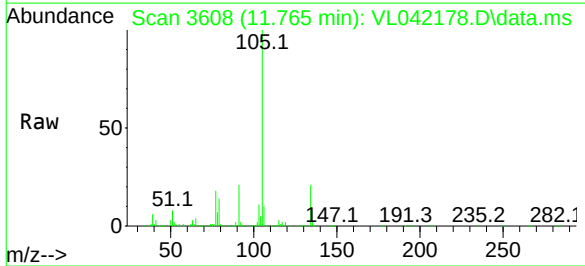
Tgt Ion: 91 Resp: 134397
Ion Ratio Lower Upper
91 100
126 17.3 13.8 20.6
128 5.4 4.5 6.7





#67
 sec-Butylbenzene
 Concen: 12.711 ppbv
 RT: 11.765 min Scan# 3608
 Delta R.T. -0.000 min
 Lab File: VL042178.D
 Acq: 27 Mar 2025 11:36

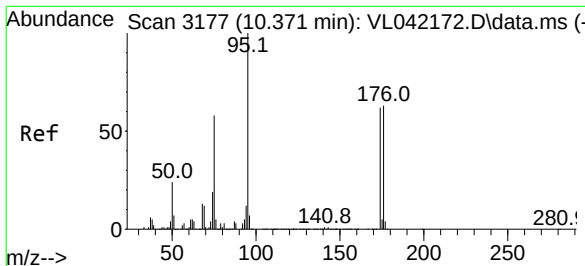
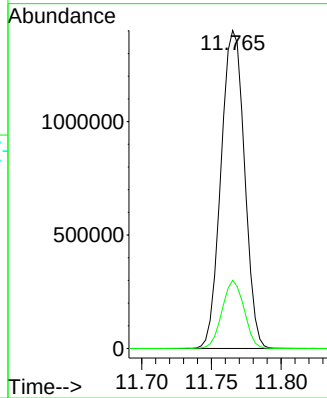
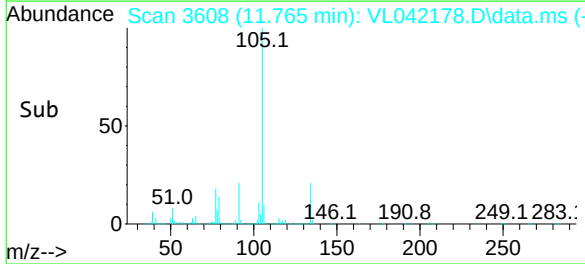
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC015



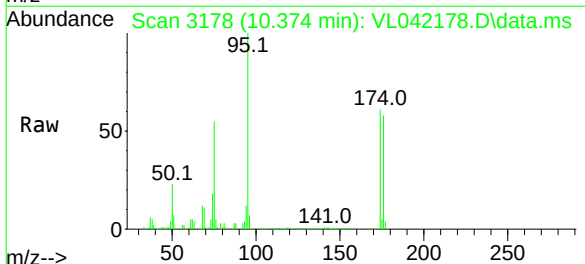
Tgt Ion: 105 Resp: 1643629
 Ion Ratio Lower Upper
 105 100
 134 20.0 15.5 23.3

Manual Integrations
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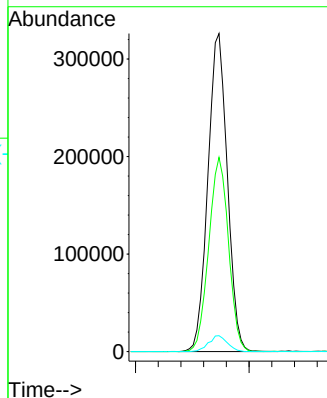
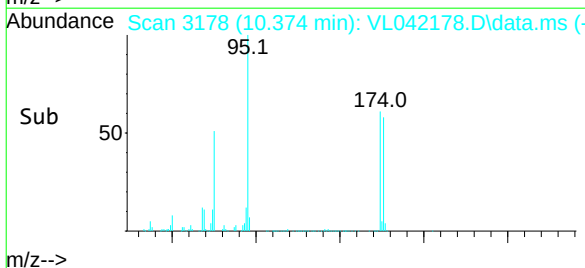
Reviewed By : Semsettin Yesilyurt 03/31/2025
 Supervised By : Mahesh Dadoda 04/03/2025

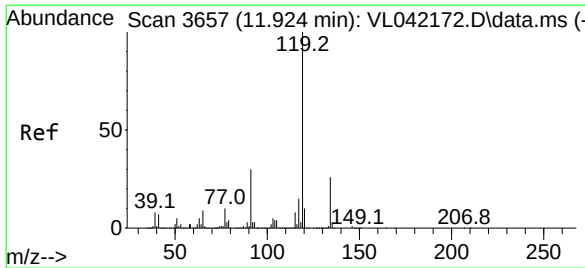


#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.981 ppbv
 RT: 10.374 min Scan# 3178
 Delta R.T. 0.003 min
 Lab File: VL042178.D
 Acq: 27 Mar 2025 11:36



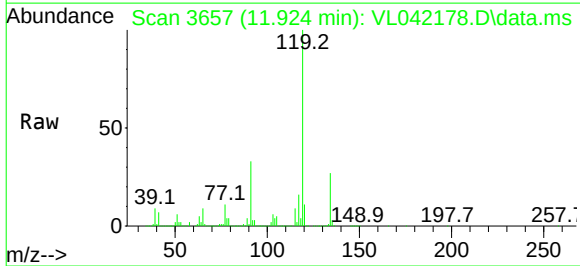
Tgt Ion: 95 Resp: 387777
 Ion Ratio Lower Upper
 95 100
 174 62.1 50.6 76.0
 175 4.8 3.8 5.6





#69
p-Isopropyltoluene
Concen: 12.906 ppbv
RT: 11.924 min Scan# 3657
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

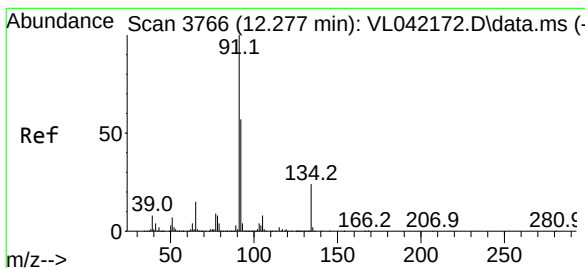
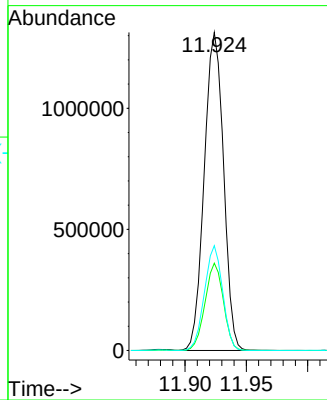
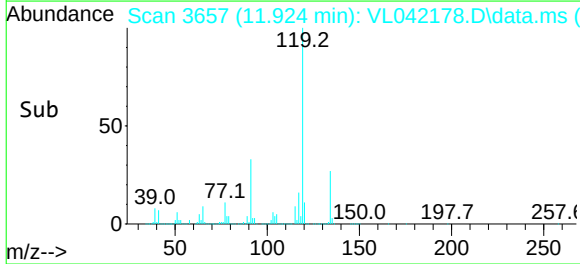
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



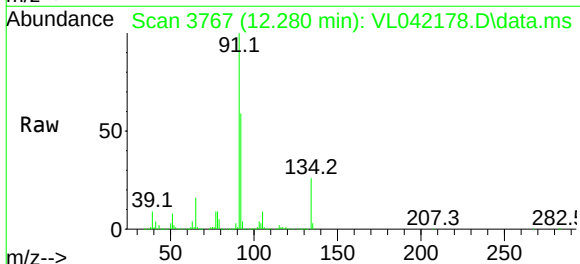
Tgt Ion: 119 Resp: 1437016
Ion Ratio Lower Upper
119 100
134 26.2 20.4 30.6
91 31.2 23.7 35.5

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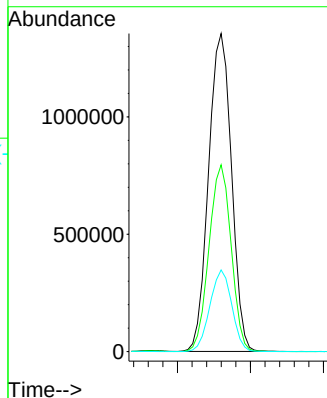
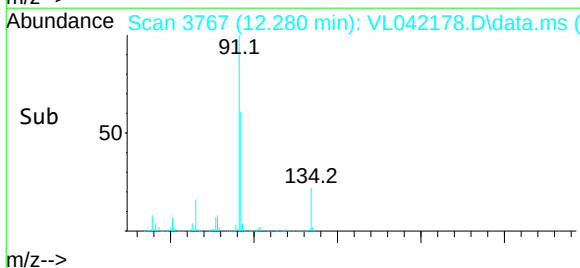
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

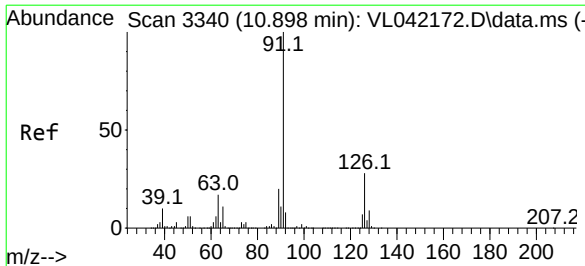


#70
n-Butylbenzene
Concen: 12.975 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36



Tgt Ion: 91 Resp: 1477443
Ion Ratio Lower Upper
91 100
92 57.0 44.9 67.3
134 24.6 19.2 28.8





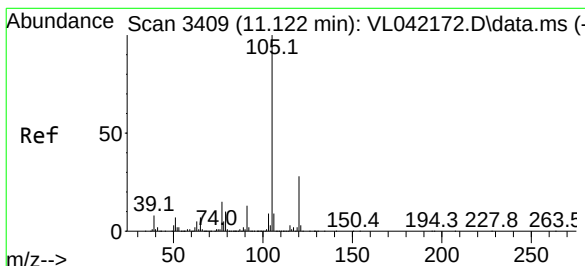
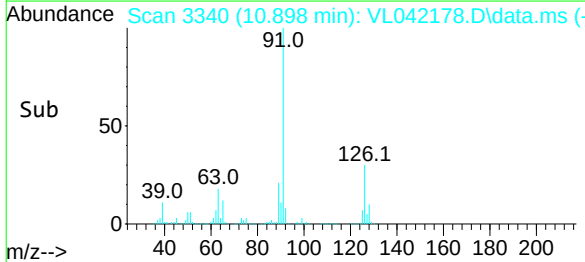
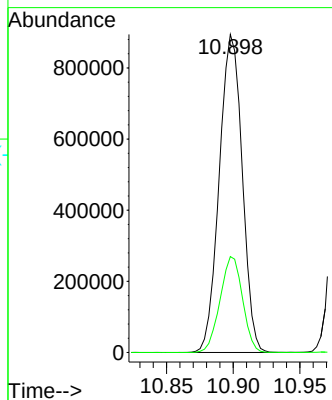
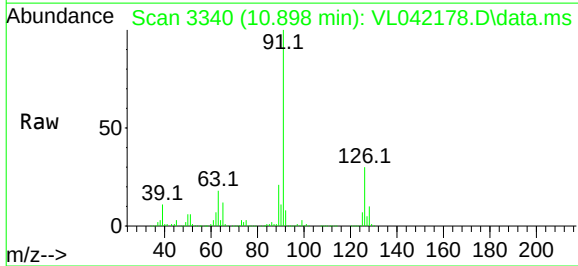
#71
2-Chlorotoluene
Concen: 13.724 ppbv
RT: 10.898 min Scan# 3340
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 91 Resp: 1071432
Ion Ratio Lower Upper
91 100
126 29.5 11.6 46.4

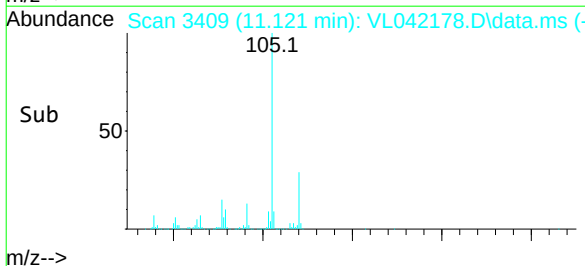
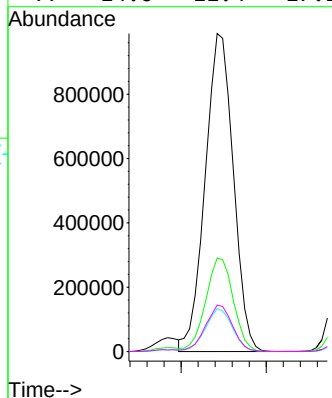
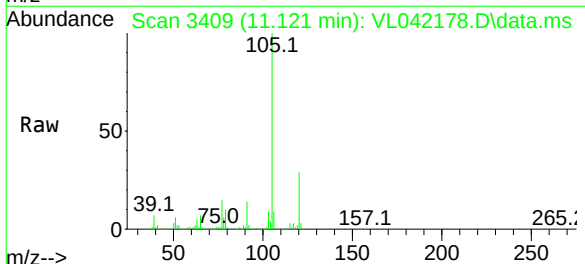
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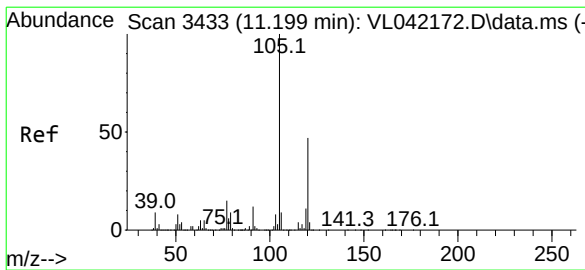
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#72
4-Ethyltoluene
Concen: 13.569 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion:105 Resp: 1136415
Ion Ratio Lower Upper
105 100
120 30.1 23.4 35.0
91 13.5 10.3 15.5
77 14.6 11.4 17.2





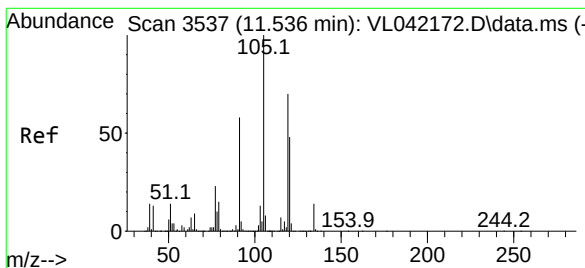
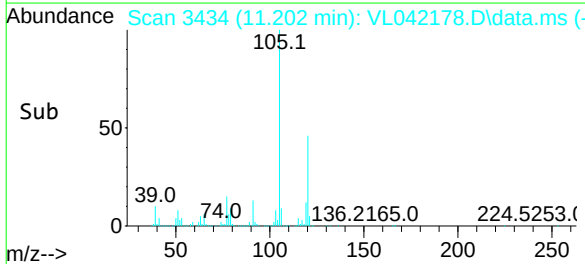
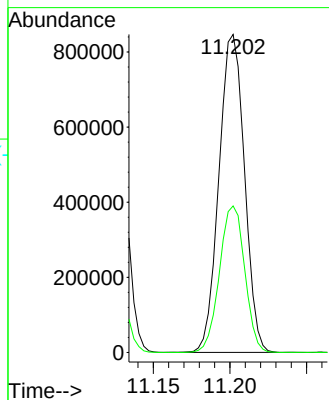
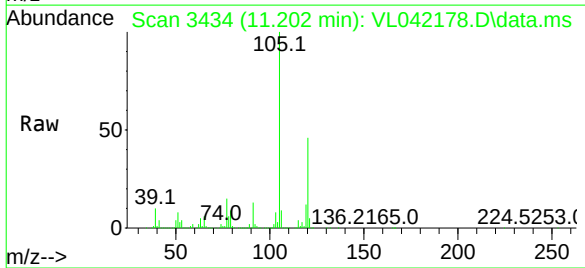
#73
1,3,5-Trimethylbenzene
Concen: 13.395 ppbv
RT: 11.202 min Scan# 3433
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion:105 Resp: 979783
Ion Ratio Lower Upper
105 100
120 46.1 37.4 56.0

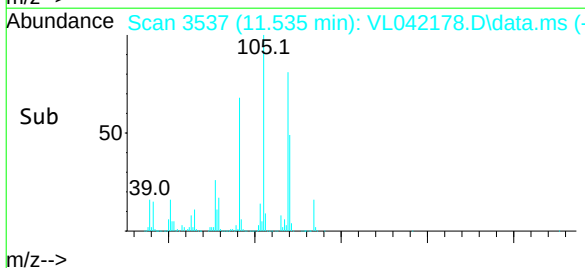
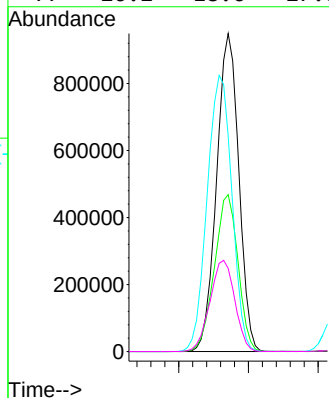
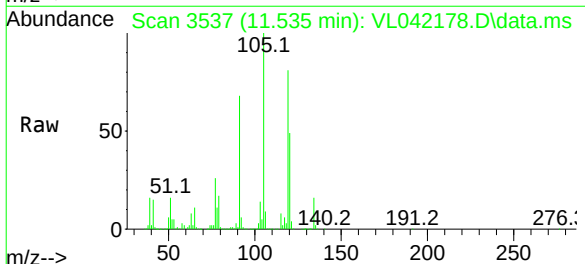
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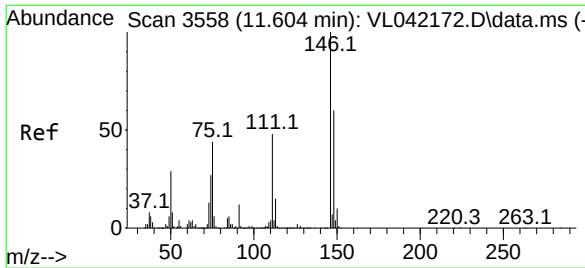
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#74
1,2,4-Trimethylbenzene
Concen: 12.447 ppbv
RT: 11.535 min Scan# 3537
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion:105 Resp: 1048874
Ion Ratio Lower Upper
105 100
120 49.3 38.6 58.0
91 67.8 46.2 69.2
77 26.2 18.6 27.8





#75

1,3-Dichlorobenzene

Concen: 13.545 ppbv

RT: 11.607 min Scan# 3558

Delta R.T. 0.003 min

Lab File: VL042178.D

Acq: 27 Mar 2025 11:36

Instrument :

MSVOA_L

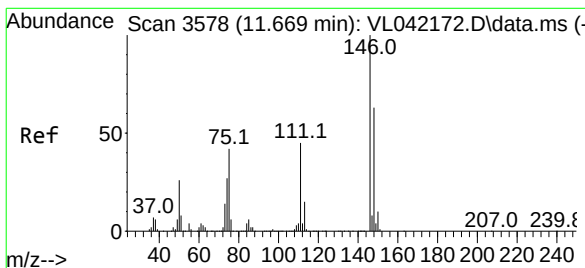
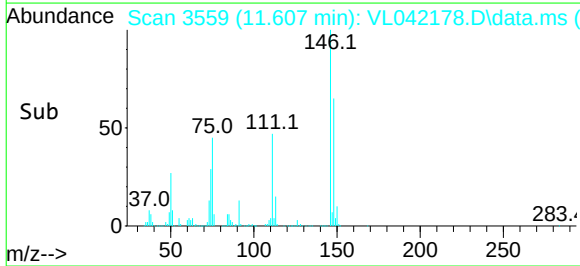
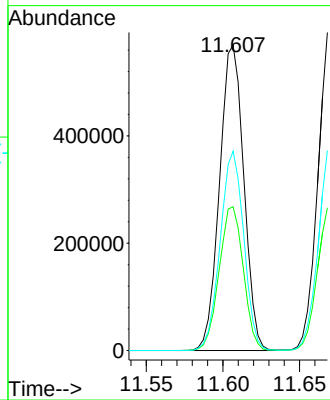
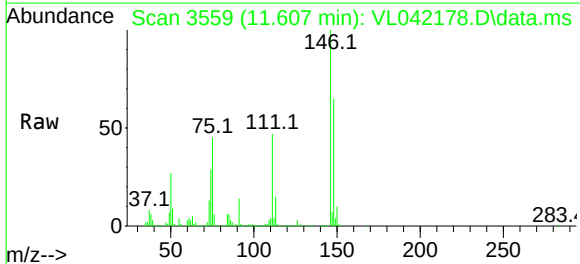
ClientSampleId :

VSTDICC015

Tgt Ion:	146	Resp:	626015
Ion	Ratio	Lower	Upper
146	100		
111	47.0	23.8	71.2
148	63.5	31.9	95.9

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Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#76

1,4-Dichlorobenzene

Concen: 13.668 ppbv

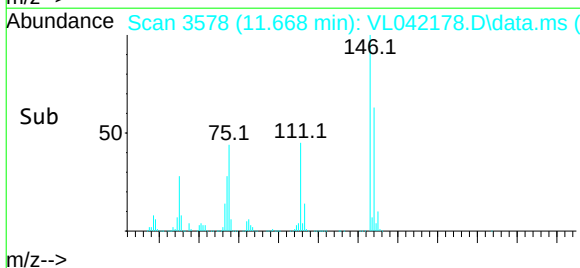
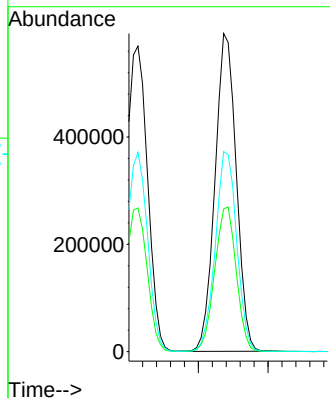
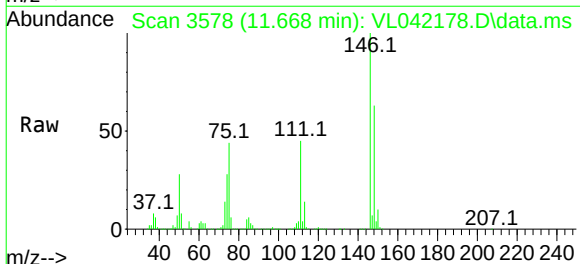
RT: 11.668 min Scan# 3578

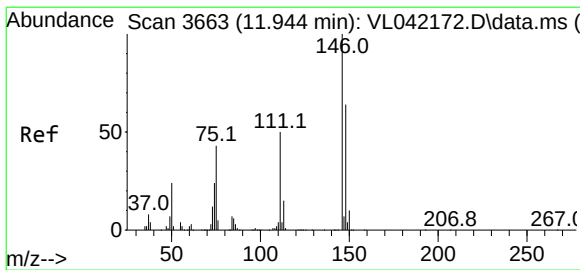
Delta R.T. -0.000 min

Lab File: VL042178.D

Acq: 27 Mar 2025 11:36

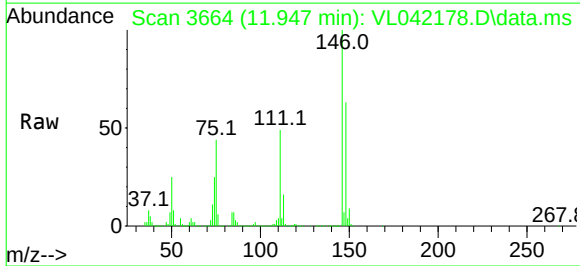
Tgt Ion:	146	Resp:	628694
Ion	Ratio	Lower	Upper
146	100		
111	46.1	23.0	69.0
148	63.6	31.9	95.7





#77
1,2-Dichlorobenzene
Concen: 13.396 ppbv
RT: 11.947 min Scan# 3664
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

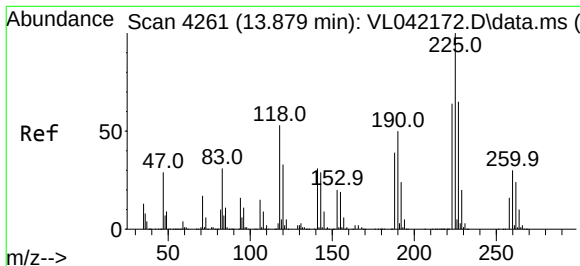
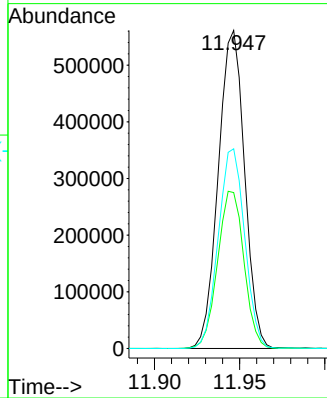
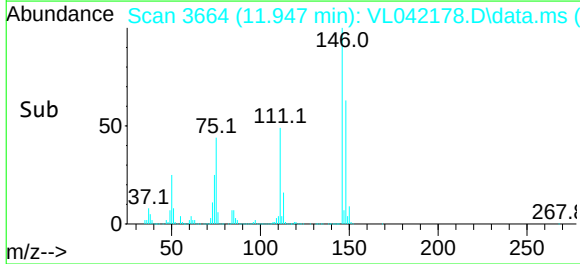
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



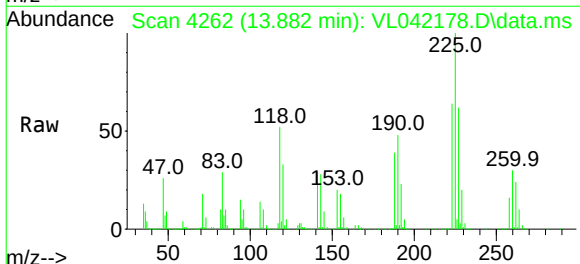
Tgt Ion:146 Resp: 602844
Ion Ratio Lower Upper
146 100
111 49.7 24.8 74.3
148 63.3 31.6 94.8

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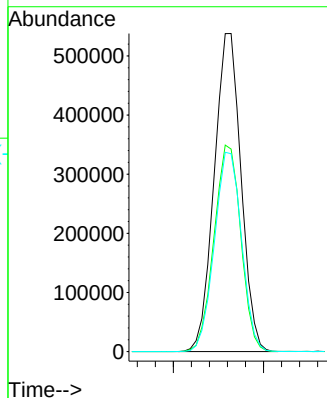
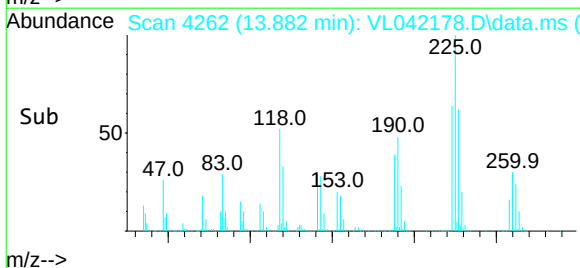
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

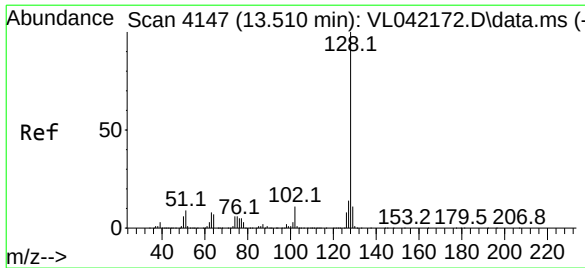


#78
Hexachloro-1,3-Butadiene
Concen: 12.147 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36



Tgt Ion:225 Resp: 556392
Ion Ratio Lower Upper
225 100
223 64.7 50.6 76.0
227 63.3 51.2 76.8





#79

Naphthalene

Concen: 13.653 ppbv

RT: 13.513 min Scan# 4147

Delta R.T. 0.003 min

Lab File: VL042178.D

Acq: 27 Mar 2025 11:36

Instrument :

MSVOA_L

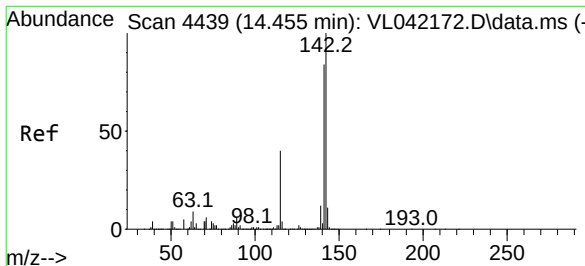
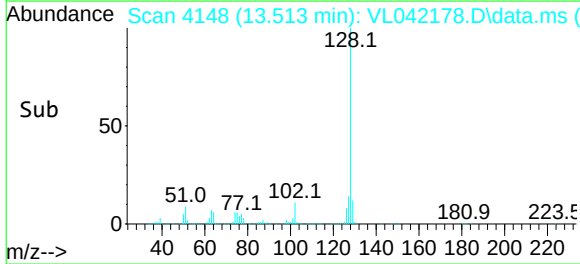
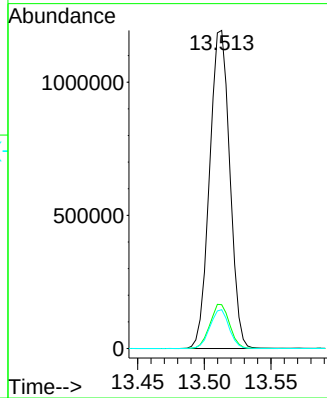
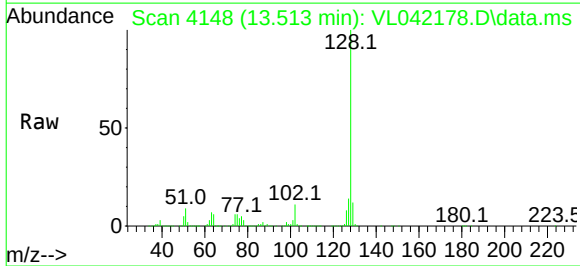
ClientSampleId :

VSTDICC015

Tgt Ion:	128	Resp:	1258479
Ion	Ratio	Lower	Upper
128	100		
127	13.8	10.8	16.2
129	12.2	9.0	13.4

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#80

Naphthalene, 2-methyl-

Concen: 16.018 ppbv

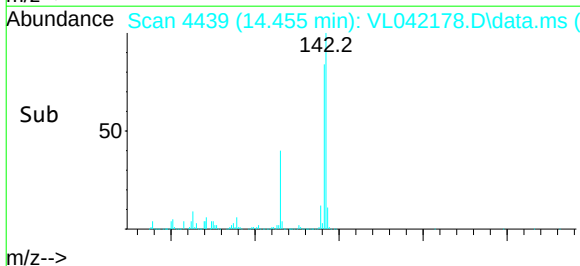
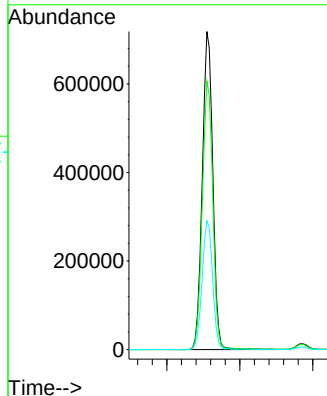
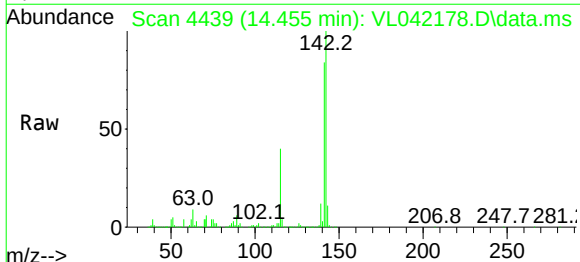
RT: 14.455 min Scan# 4439

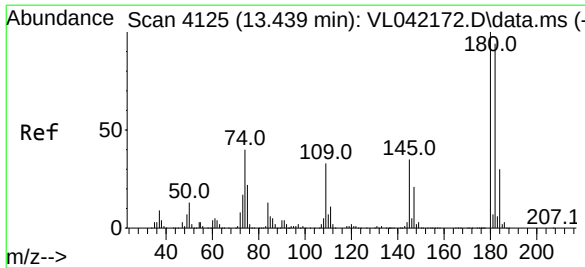
Delta R.T. -0.000 min

Lab File: VL042178.D

Acq: 27 Mar 2025 11:36

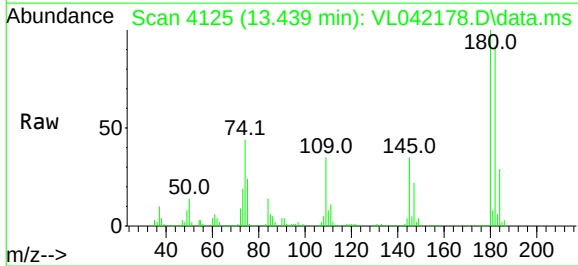
Tgt Ion:	142	Resp:	718900
Ion	Ratio	Lower	Upper
142	100		
141	84.3	66.3	99.5
115	40.6	31.6	47.4





#81
 1,2,4-Trichlorobenzene
 Concen: 14.075 ppbv
 RT: 13.439 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VL042178.D
 Acq: 27 Mar 2025 11:36

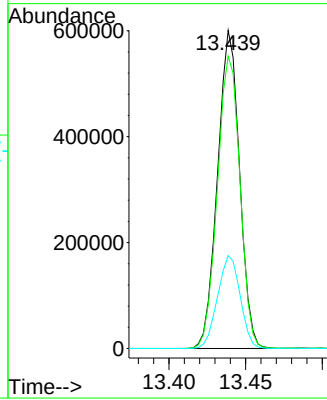
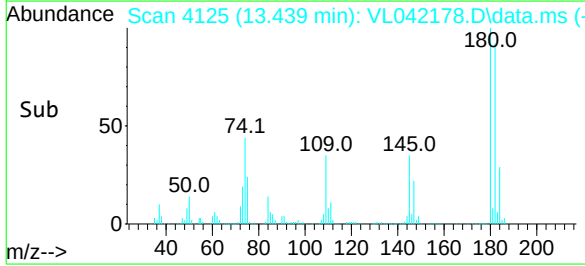
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



Tgt Ion:180 Resp: 598416
 Ion Ratio Lower Upper
 180 100
 182 94.7 75.1 112.7
 184 30.1 24.4 36.6

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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 : 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 2

QLast Update : Fri Mar 28 02:00:52 2025

Response via : Initial Calibration

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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	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
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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

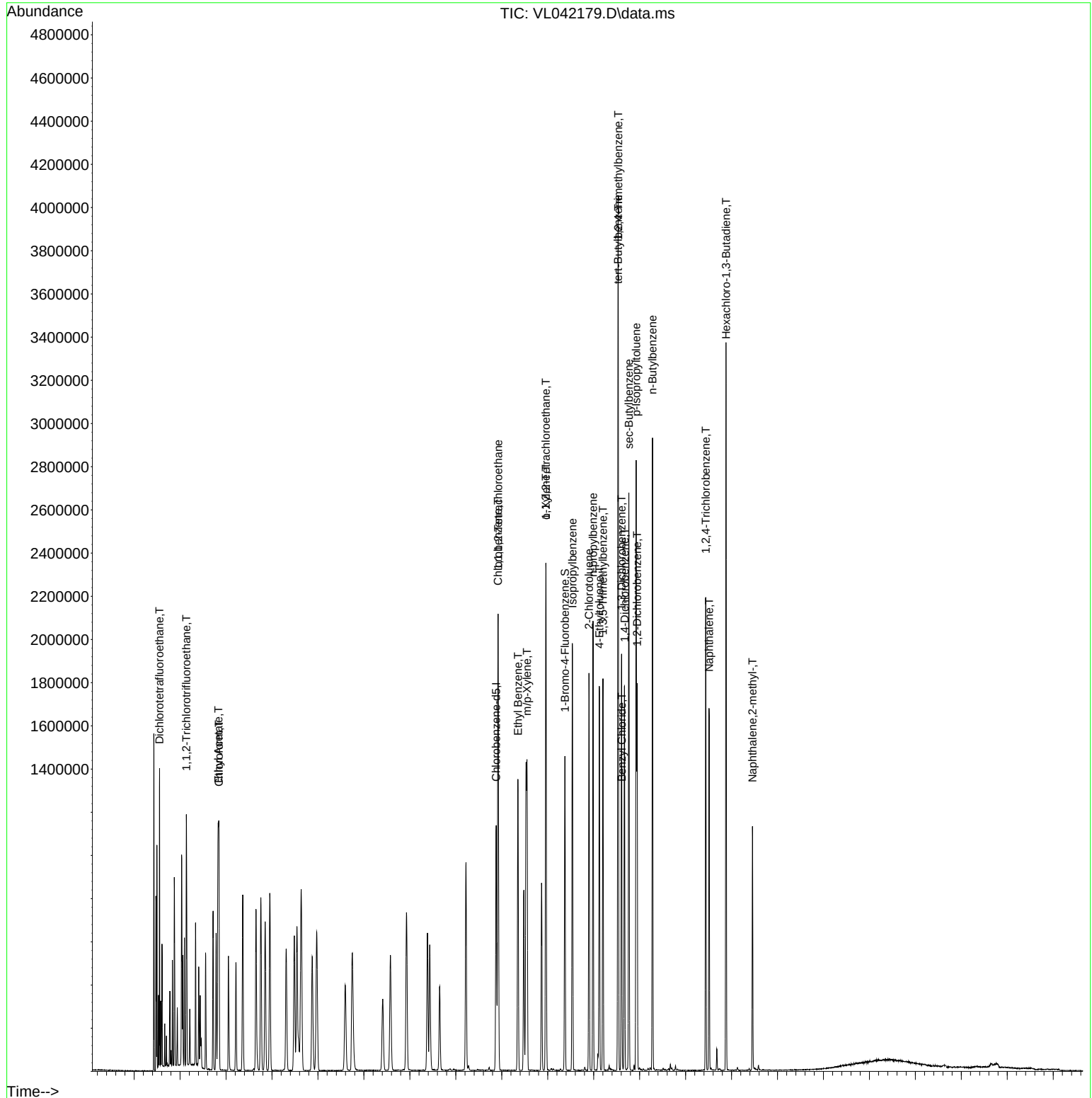
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042179.D
Acq On : 27 Mar 2025 12:23
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

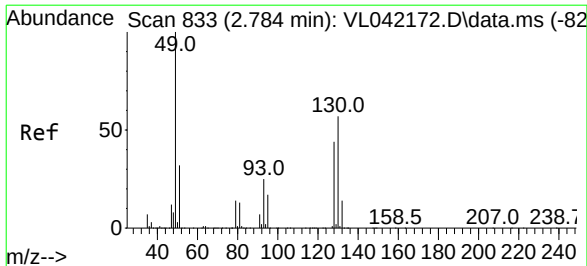
Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725

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

Manual Integrations
APPROVED

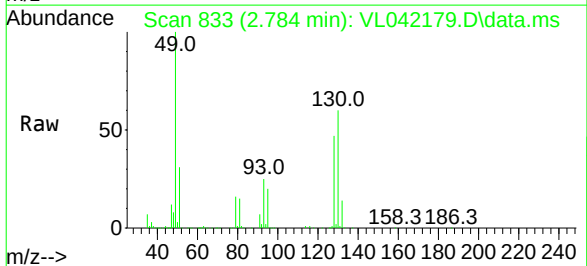
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 833
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

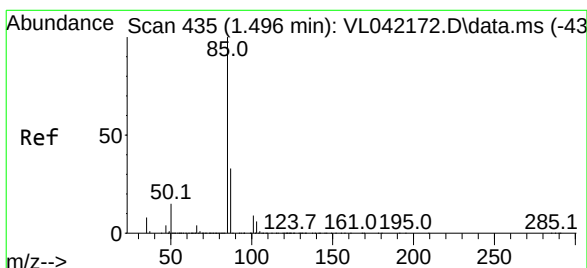
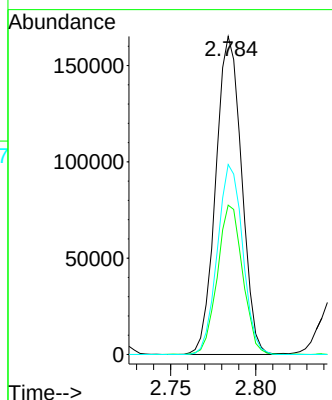
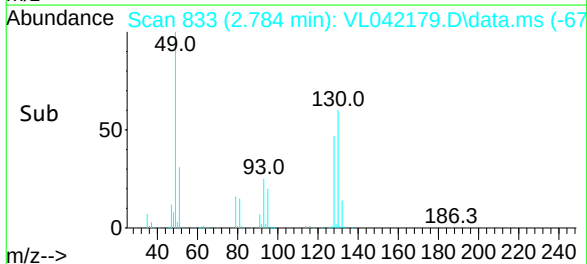
Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725



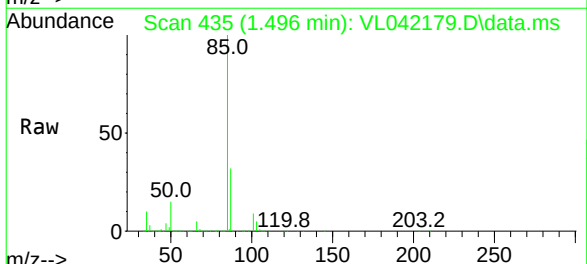
Tgt Ion: 49 Resp: 174356
Ion Ratio Lower Upper
49 100
128 45.8 22.9 68.5
130 58.4 28.8 86.4

Manual Integrations
APPROVED

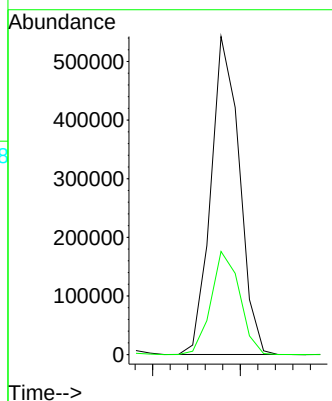
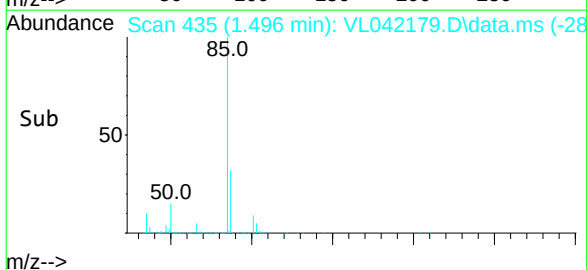
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

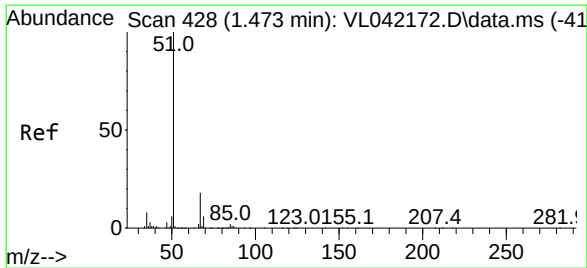


#2
Dichlorodifluoromethane
Concen: 9.545 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23



Tgt Ion: 85 Resp: 245714
Ion Ratio Lower Upper
85 100
87 32.4 26.1 39.1





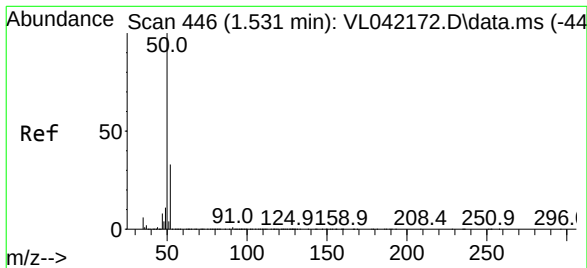
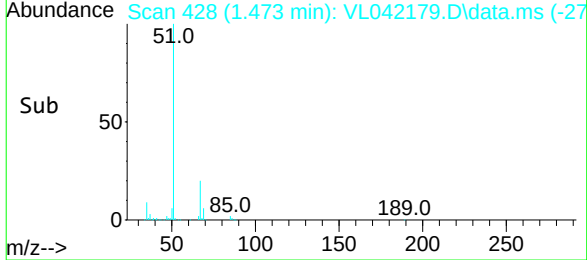
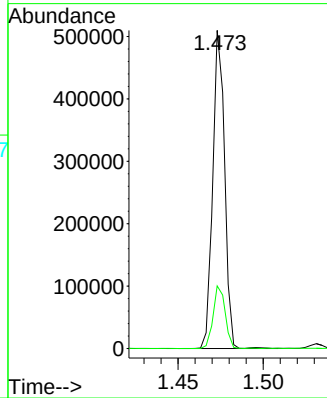
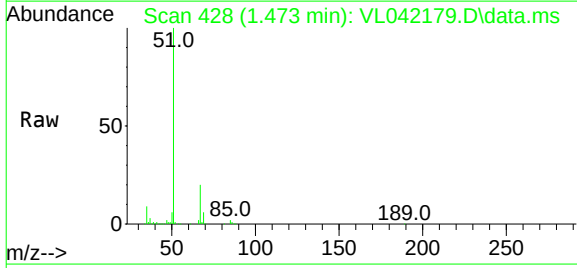
#3
Chlorodifluoromethane
Concen: 9.394 ppbv
RT: 1.473 min Scan# 428
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Instrument : MSVOA_L
ClientSampleId : ICVVL032725

Tgt Ion: 51 Resp: 247046
Ion Ratio Lower Upper
51 100
67 20.1 15.0 22.6

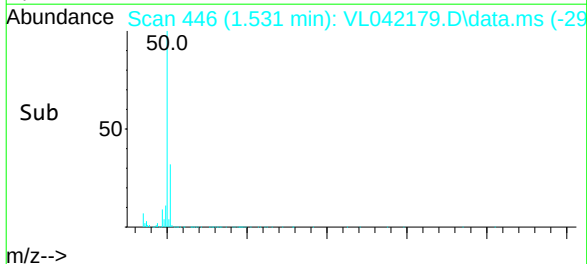
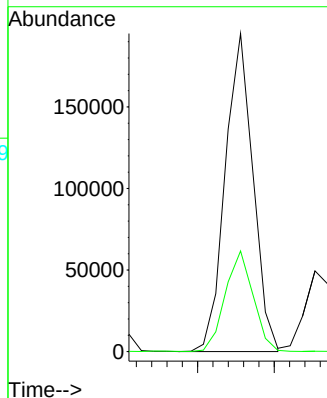
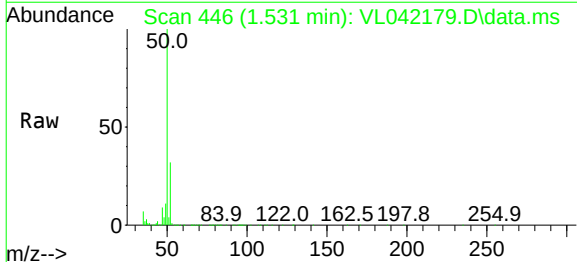
Manual Integrations
APPROVED

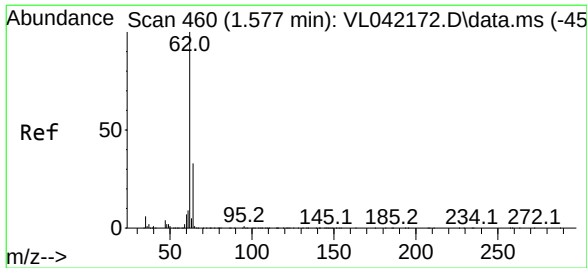
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#4
Chloromethane
Concen: 9.365 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 50 Resp: 98527
Ion Ratio Lower Upper
50 100
52 31.6 26.1 39.1





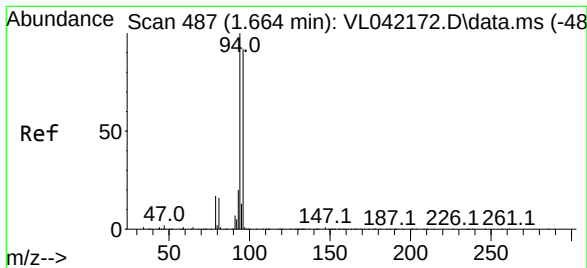
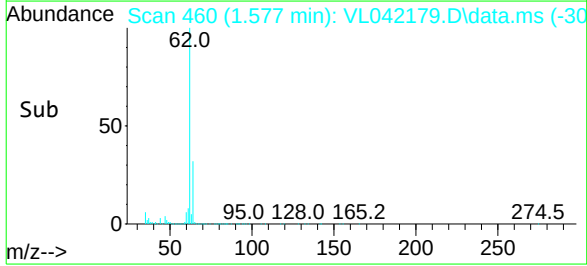
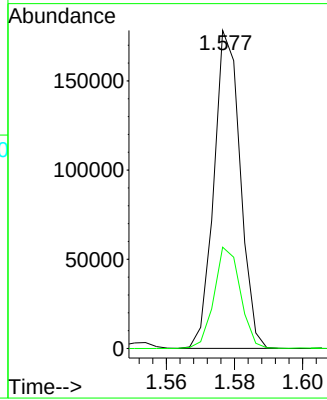
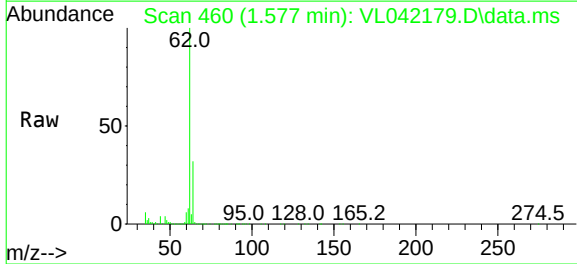
#5
 Vinyl Chloride
 Concen: 8.573 ppbv
 RT: 1.577 min Scan# 460
 Delta R.T. -0.000 min
 Lab File: VL042179.D
 Acq: 27 Mar 2025 12:23

Instrument : MSVOA_1
 ClientSampleId : ICVVL032725

Tgt Ion: 62 Resp: 95578
 Ion Ratio Lower Upper
 62 100
 64 31.8 26.6 40.0

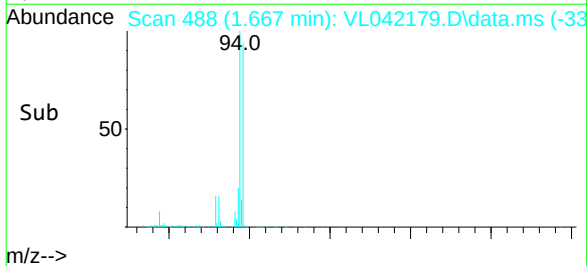
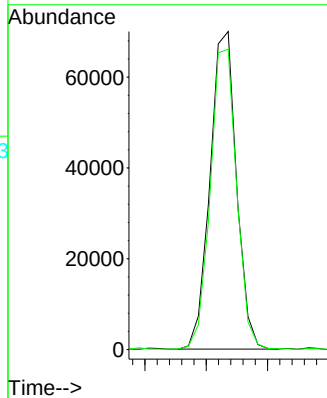
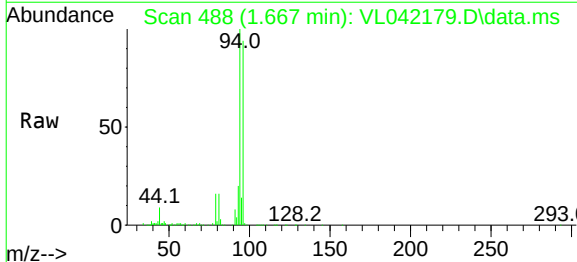
Manual Integrations
 APPROVED

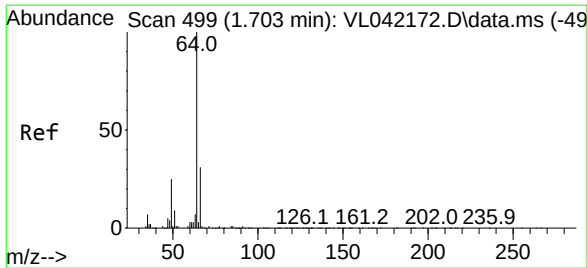
Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025



#6
 Bromomethane
 Concen: 8.799 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. 0.003 min
 Lab File: VL042179.D
 Acq: 27 Mar 2025 12:23

Tgt Ion: 94 Resp: 41950
 Ion Ratio Lower Upper
 94 100
 96 94.4 73.1 109.7





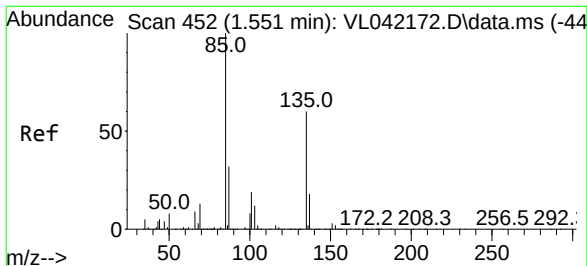
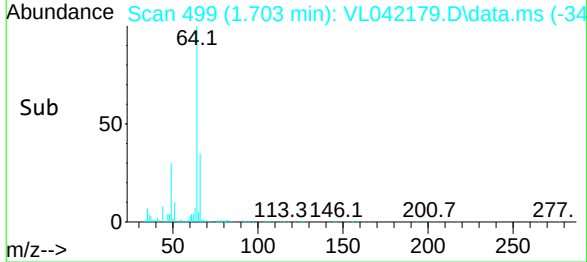
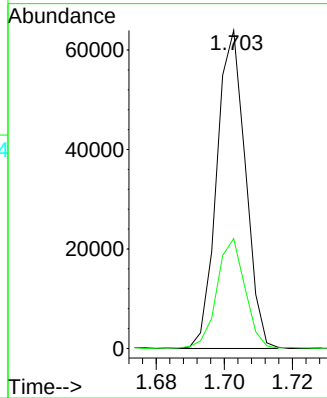
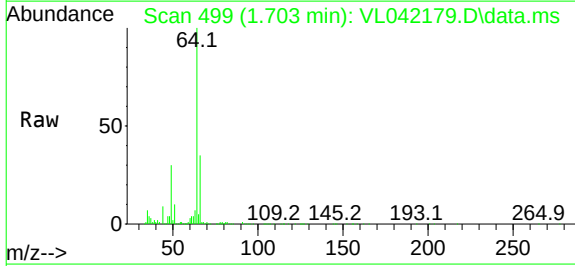
#7
Chloroethane
Concen: 8.856 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Instrument : MSVOA_L
ClientSampleId : ICVVL032725

Tgt Ion: 64 Resp: 37400
Ion Ratio Lower Upper
64 100
66 34.5 25.2 37.8

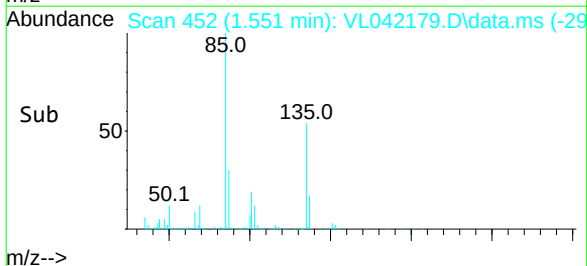
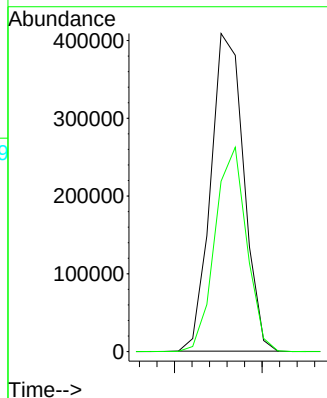
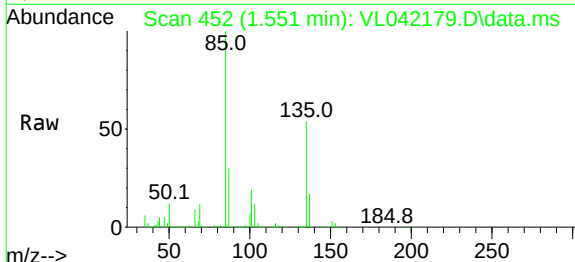
Manual Integrations
APPROVED

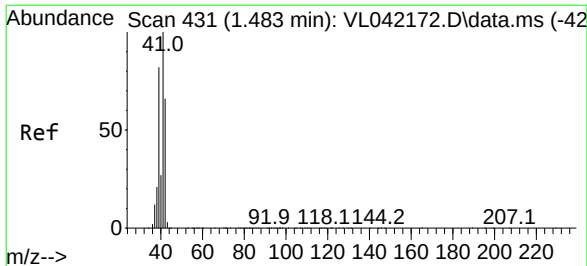
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#8
Dichlorotetrafluoroethane
Concen: 9.753 ppbv
RT: 1.551 min Scan# 452
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

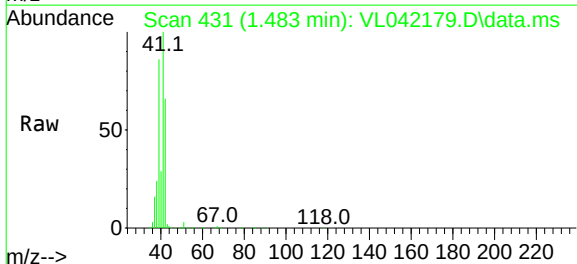
Tgt Ion: 85 Resp: 213819
Ion Ratio Lower Upper
85 100
135 61.9 52.4 78.6





#9
Propene
Concen: 8.739 ppbv
RT: 1.483 min Scan# 431
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

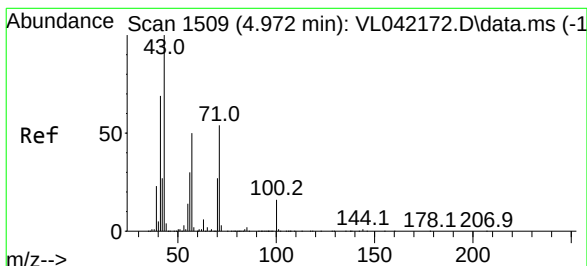
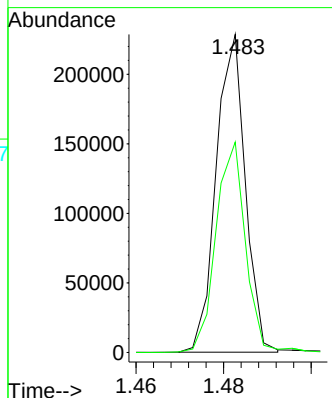
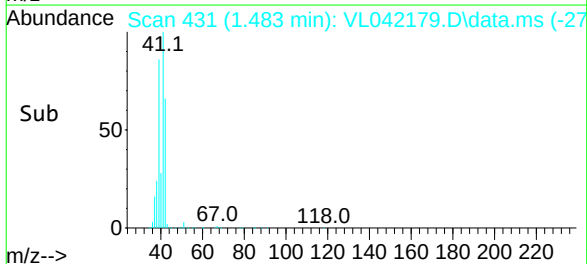
Instrument : MSVOA_L
ClientSampleId : ICVVL032725



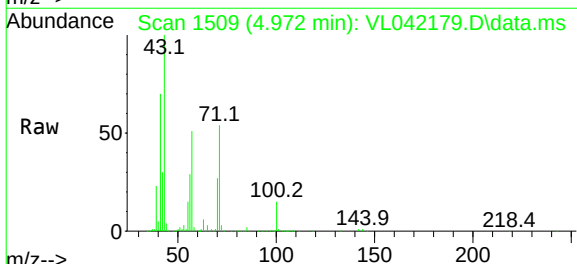
Tgt Ion: 41 Resp: 105338
Ion Ratio Lower Upper
41 100
42 68.1 55.4 83.2

Manual Integrations
APPROVED

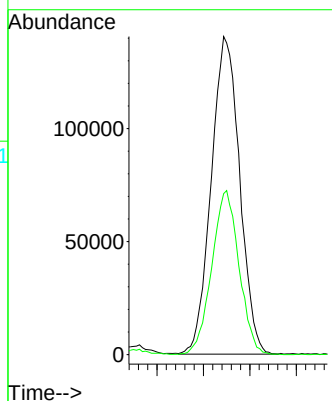
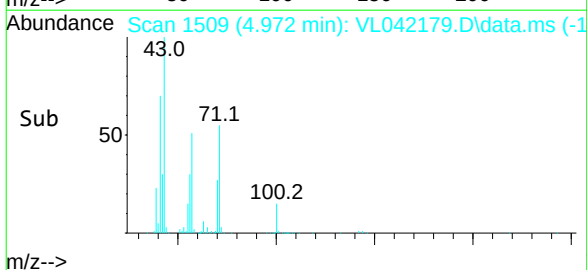
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

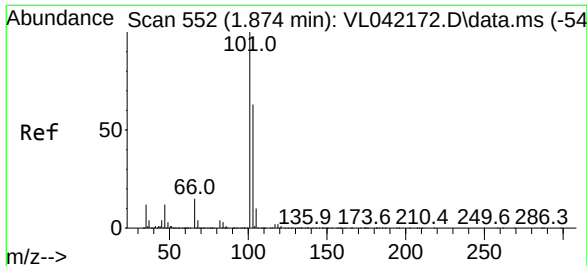


#10
Heptane
Concen: 9.318 ppbv
RT: 4.972 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23



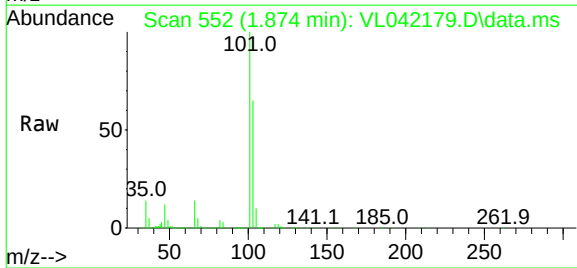
Tgt Ion: 43 Resp: 298768
Ion Ratio Lower Upper
43 100
57 49.5 39.4 59.2





#11
Trichlorofluoromethane
Concen: 9.453 ppbv
RT: 1.874 min Scan# 552
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

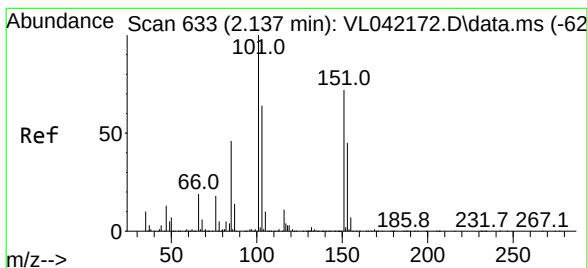
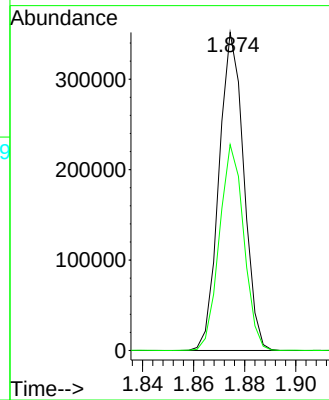
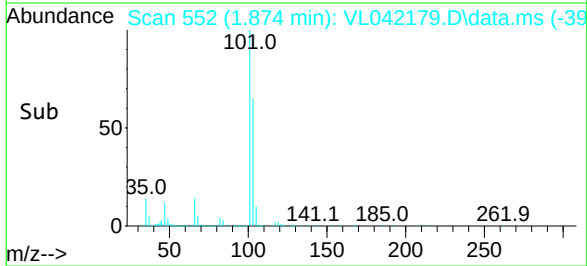
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MSVOA_L
ClientSampleId :
ICVVL032725



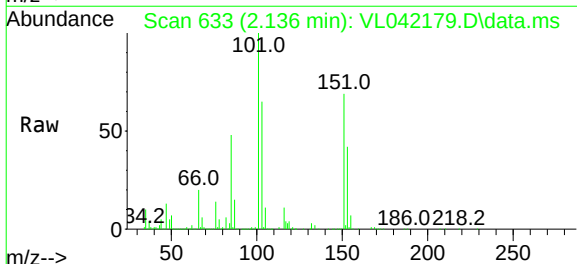
Tgt Ion:101 Resp: 236793
Ion Ratio Lower Upper
101 100
103 64.7 50.2 75.2

Manual Integrations
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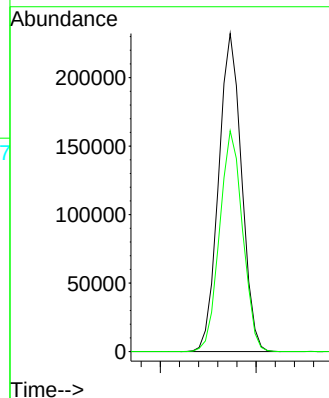
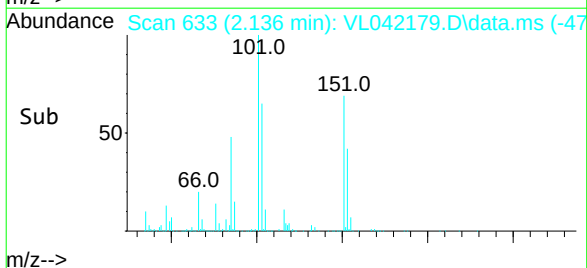
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

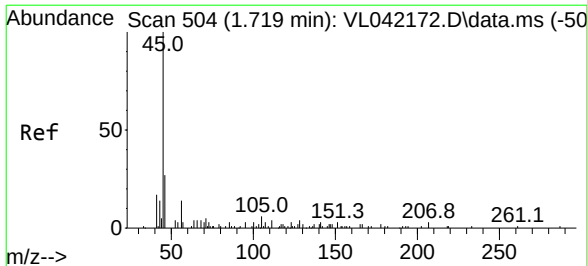


#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.421 ppbv
RT: 2.136 min Scan# 633
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23



Tgt Ion:101 Resp: 193965
Ion Ratio Lower Upper
101 100
151 69.6 57.1 85.7





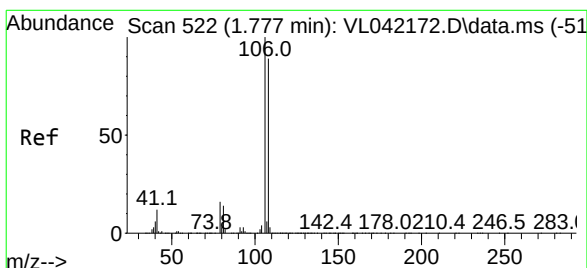
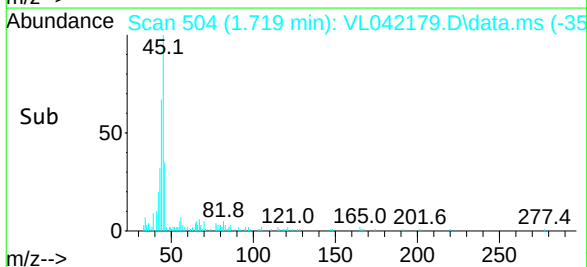
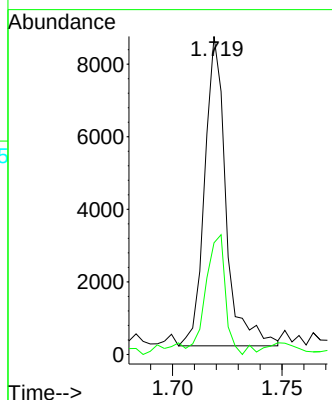
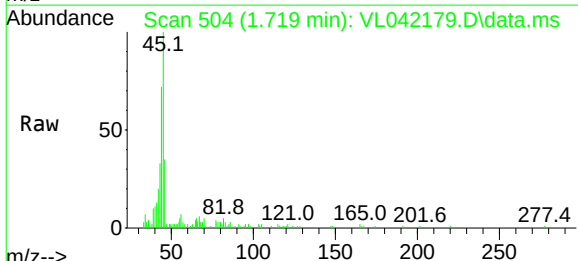
#13
Ethanol
Concen: 5.066 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725

Tgt Ion: 45 Resp: 5773
Ion Ratio Lower Upper
45 100
46 48.5 20.2 80.8

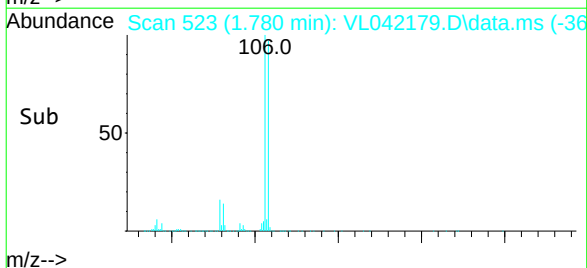
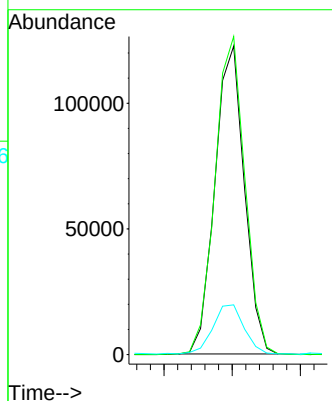
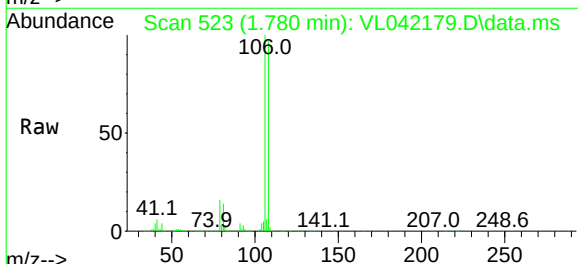
Manual Integrations
APPROVED

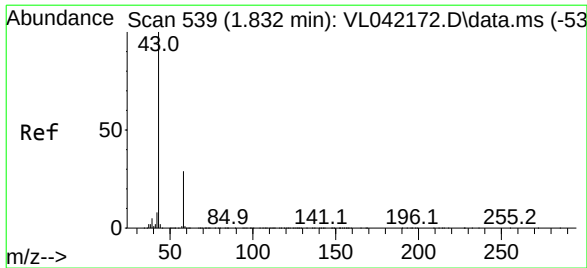
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#14
Bromoethene
Concen: 9.328 ppbv
RT: 1.780 min Scan# 523
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion:108 Resp: 73572
Ion Ratio Lower Upper
108 100
106 105.0 86.8 130.2
79 18.8 15.0 22.6





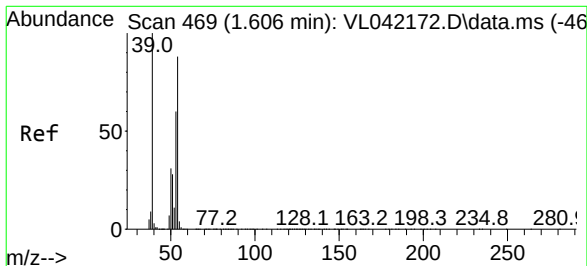
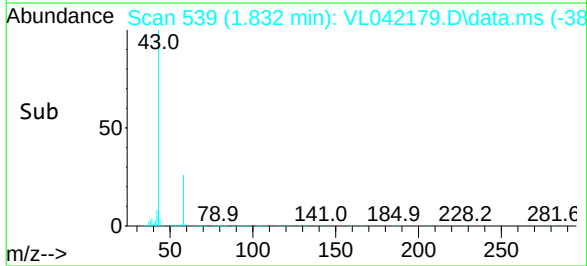
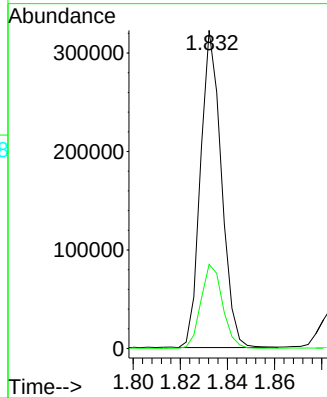
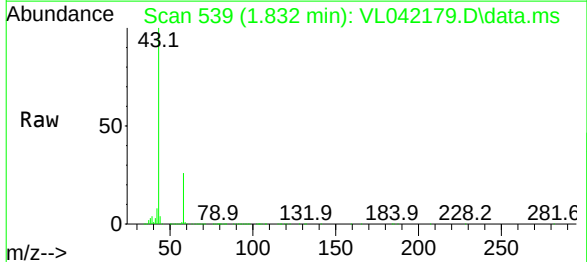
#15
Acetone
Concen: 8.132 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Instrument : MSVOA_L
ClientSampleId : ICVVL032725

Tgt Ion: 43 Resp: 198300
Ion Ratio Lower Upper
43 100
58 27.7 23.2 34.8

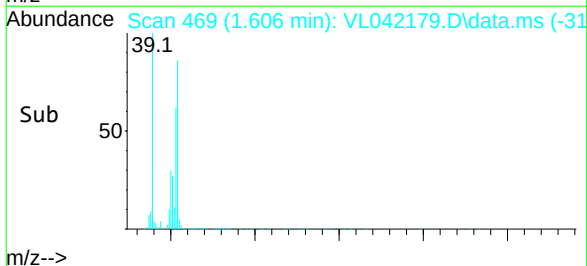
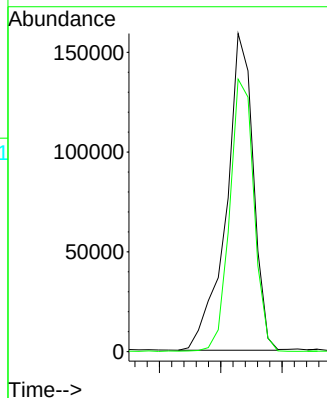
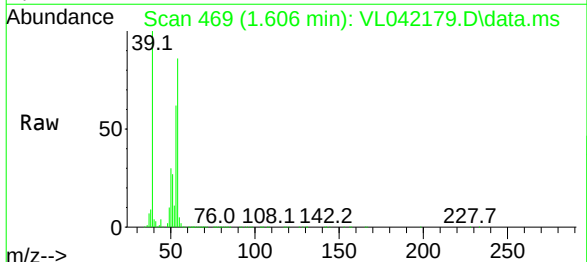
Manual Integrations
APPROVED

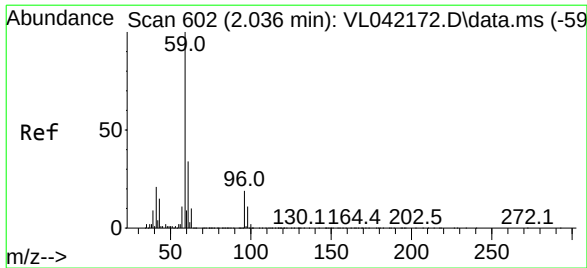
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#16
1,3-Butadiene
Concen: 8.216 ppbv
RT: 1.606 min Scan# 469
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 39 Resp: 97840
Ion Ratio Lower Upper
39 100
54 76.9 60.7 91.1





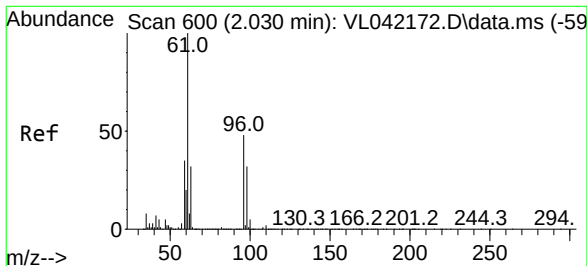
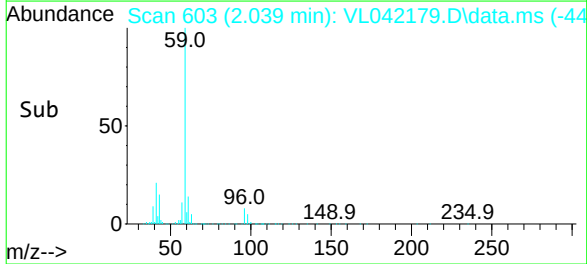
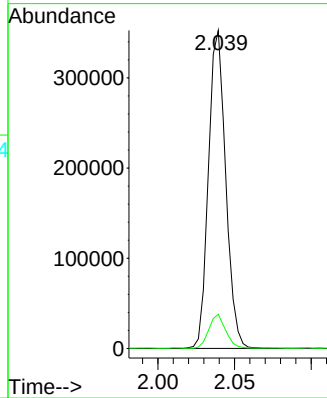
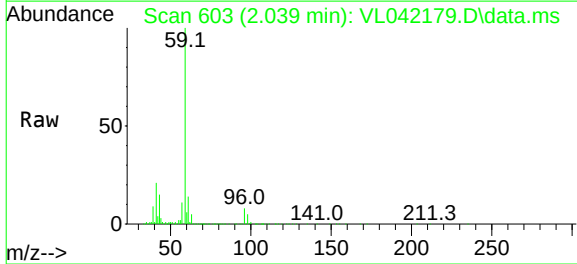
#17
tert-Butyl alcohol
Concen: 9.094 ppbv
RT: 2.039 min Scan# 601
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725

Tgt Ion: 59 Resp: 276195
Ion Ratio Lower Upper
59 100
57 10.6 8.9 13.3

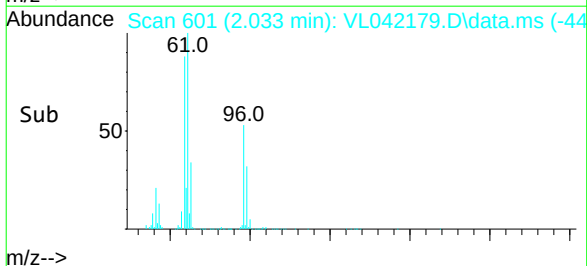
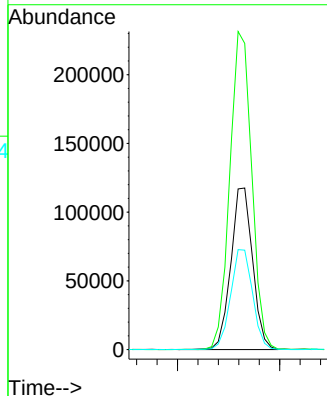
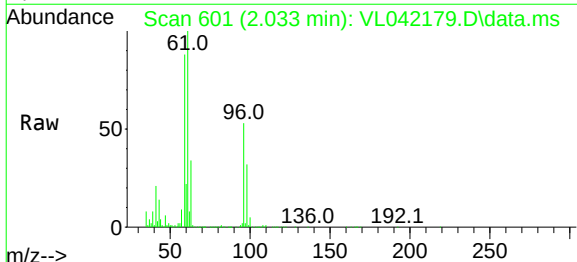
Manual Integrations
APPROVED

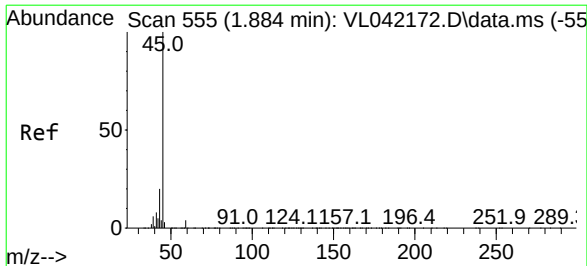
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#18
1,1-Dichloroethene
Concen: 9.053 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 96 Resp: 87137
Ion Ratio Lower Upper
96 100
61 189.6 167.6 251.4
98 61.5 53.5 80.3





#19
Isopropyl Alcohol
Concen: 8.923 ppbv
RT: 1.884 min Scan# 555
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Instrument :

MSVOA_L

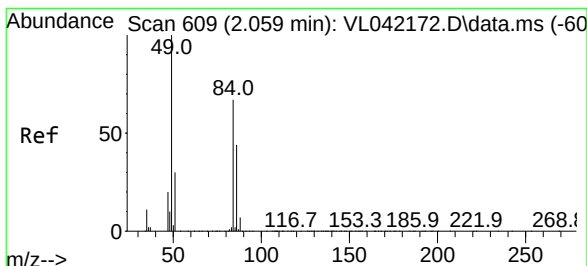
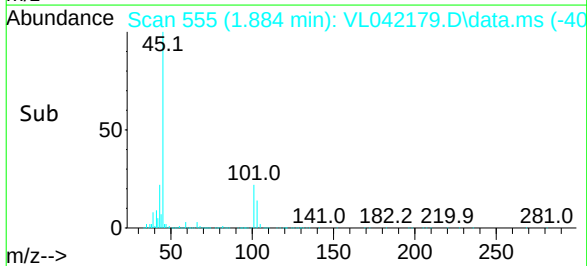
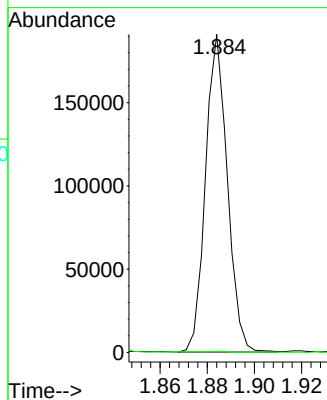
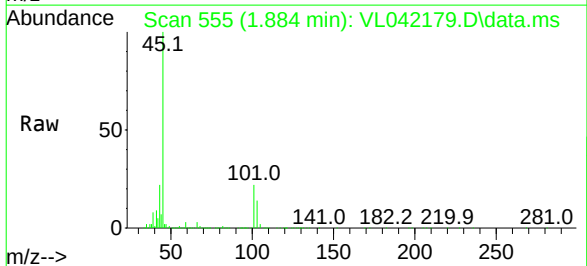
ClientSampleId :

ICVVL032725

Tgt Ion: 45 Resp: 122768
Ion Ratio Lower Upper
45 100
58 44.9 36.9 55.3

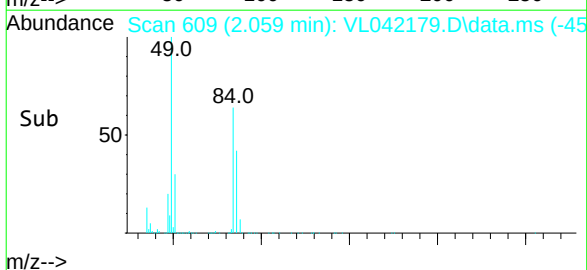
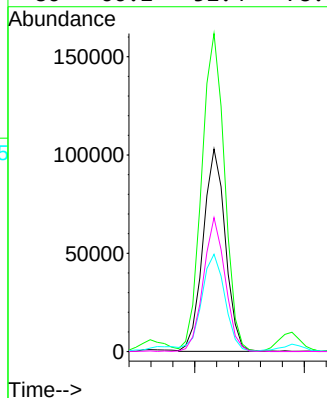
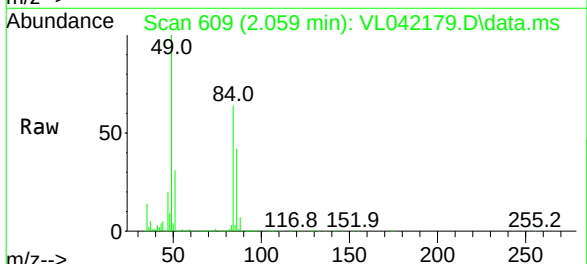
Manual Integrations
APPROVED

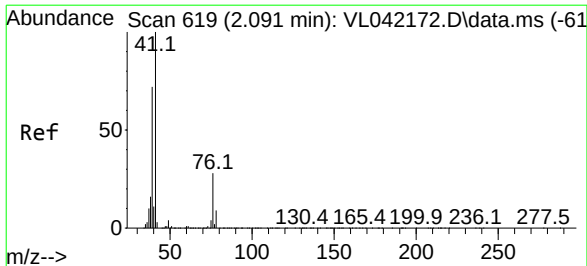
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#20
Methylene Chloride
Concen: 8.018 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 84 Resp: 72813
Ion Ratio Lower Upper
84 100
49 155.8 120.2 180.4
51 46.4 37.4 56.0
86 66.2 52.4 78.6





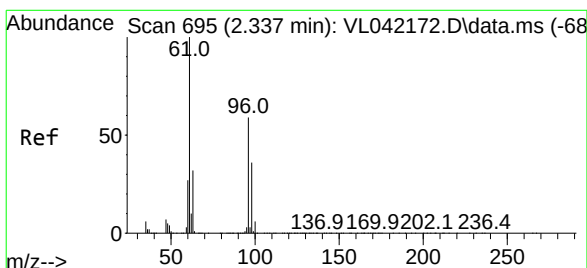
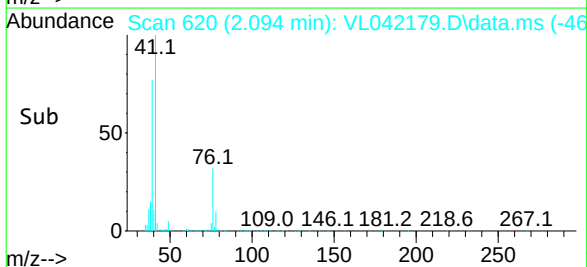
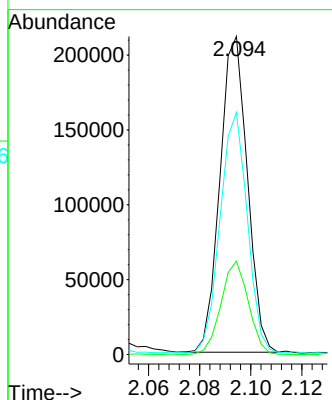
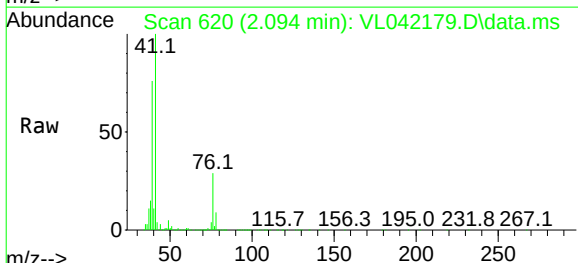
#21
Allyl Chloride
Concen: 9.154 ppbv
RT: 2.094 min Scan# 621
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725

Tgt Ion: 41 Resp: 157418
Ion Ratio Lower Upper
41 100
76 29.6 24.1 36.1
39 75.5 61.1 91.7

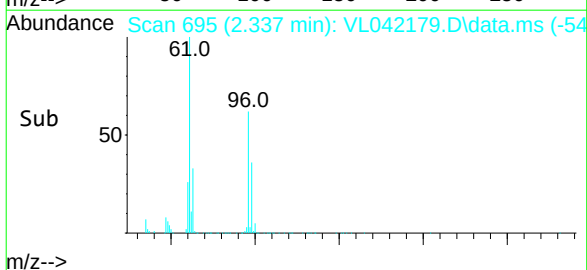
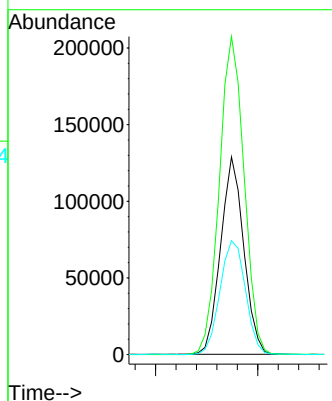
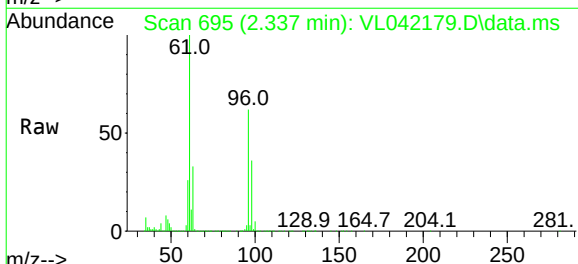
Manual Integrations
APPROVED

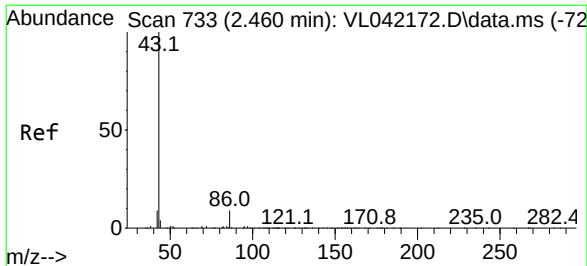
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#22
trans-1,2-Dichloroethene
Concen: 9.092 ppbv
RT: 2.337 min Scan# 695
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 96 Resp: 101141
Ion Ratio Lower Upper
96 100
61 161.2 136.6 204.8
98 57.7 49.4 74.2





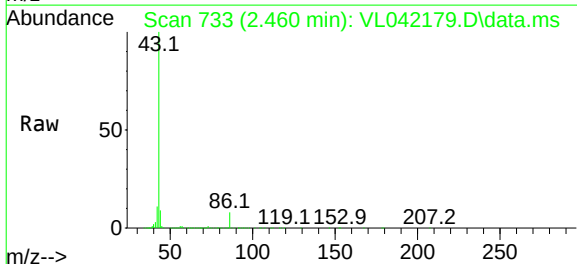
#23
 Vinyl Acetate
 Concen: 8.553 ppbv
 RT: 2.460 min Scan# 733
 Delta R.T. -0.000 min
 Lab File: VL042179.D
 Acq: 27 Mar 2025 12:23

Instrument :

MSVOA_L

ClientSampleId :

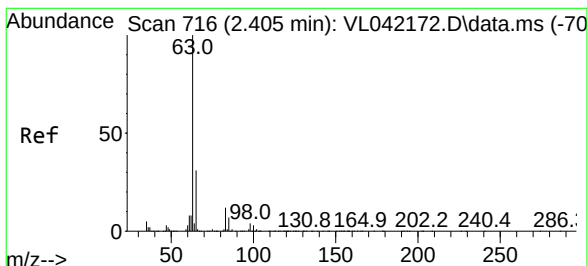
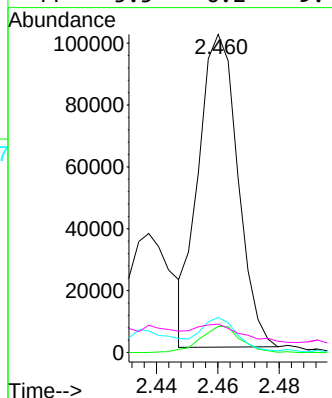
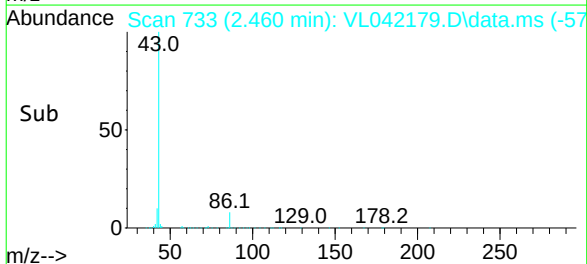
ICVVL032725



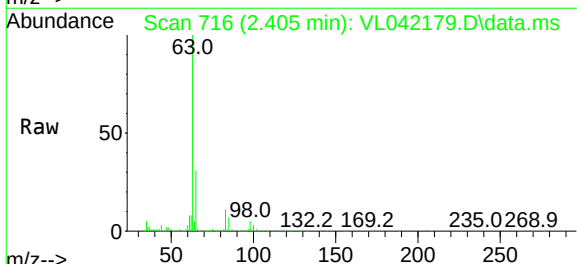
Tgt Ion:	43	Resp:	90260
Ion	Ratio	Lower	Upper
43	100		
86	8.3	5.5	8.3#
42	10.7	8.6	13.0#
44	5.5	6.2	9.4#

Manual Integrations
 APPROVED

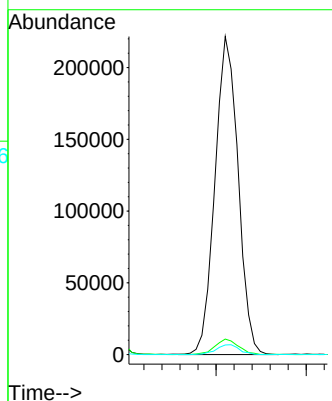
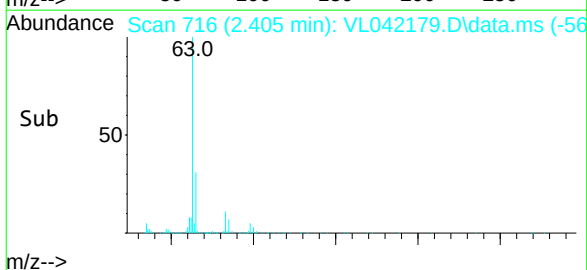
Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025

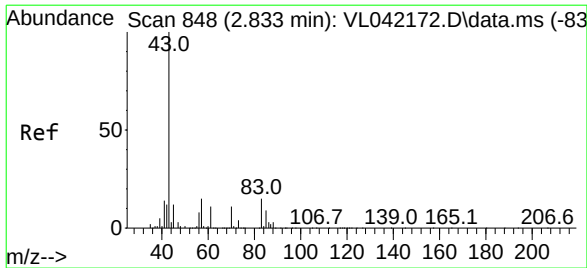


#24
 1,1-Dichloroethane
 Concen: 9.600 ppbv
 RT: 2.405 min Scan# 716
 Delta R.T. -0.000 min
 Lab File: VL042179.D
 Acq: 27 Mar 2025 12:23



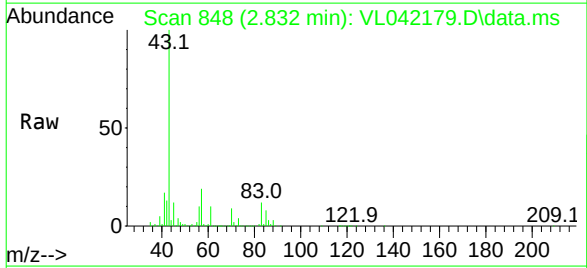
Tgt Ion:	63	Resp:	197968
Ion	Ratio	Lower	Upper
63	100		
98	4.8	2.3	6.8
100	3.0	1.6	4.7





#25
Ethyl Acetate
Concen: 9.364 ppbv
RT: 2.832 min Scan# 84
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

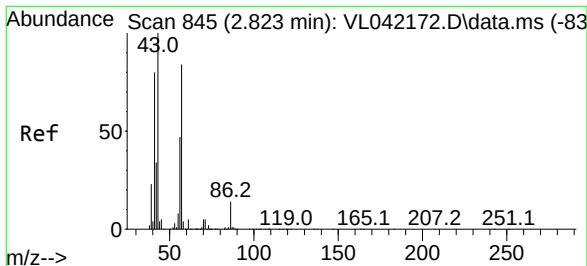
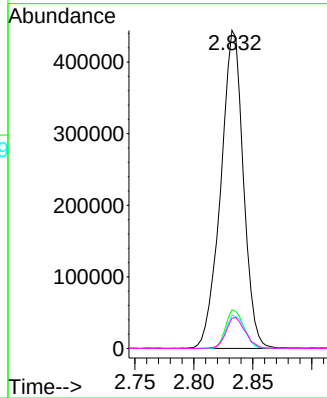
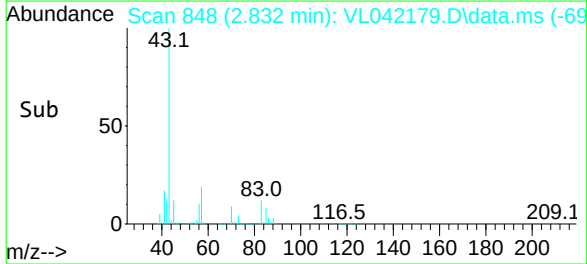
Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725



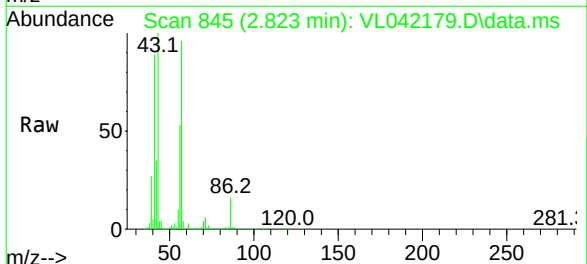
Tgt Ion:	43	Resp:	592585
Ion	Ratio	Lower	Upper
43	100		
45	9.9	8.2	12.2
61	8.7	7.3	10.9
70	8.4	7.2	10.8

Manual Integrations
APPROVED

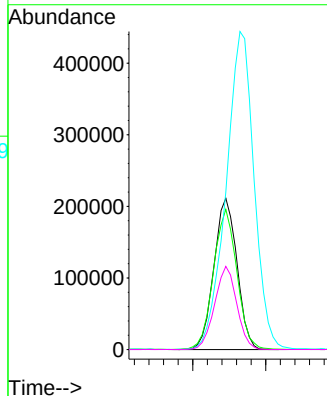
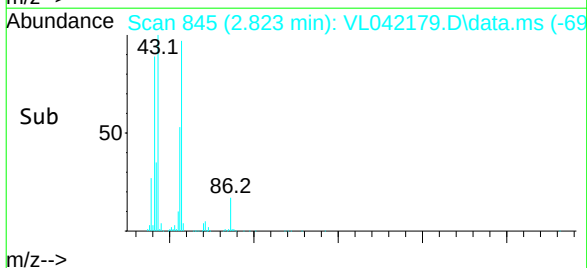
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

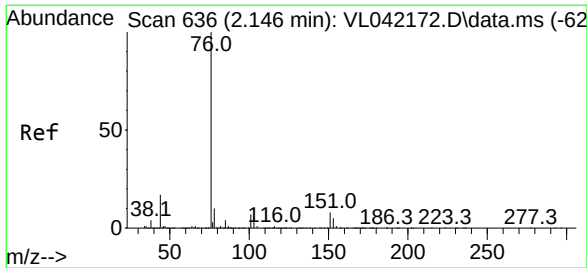


#26
Hexane
Concen: 9.455 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23



Tgt Ion:	57	Resp:	231125
Ion	Ratio	Lower	Upper
57	100		
41	95.2	76.6	114.8
43	256.8	207.8	311.8
56	53.0	43.6	65.4





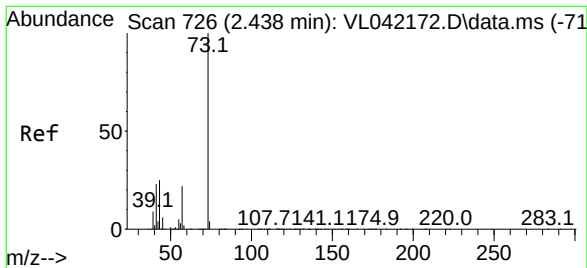
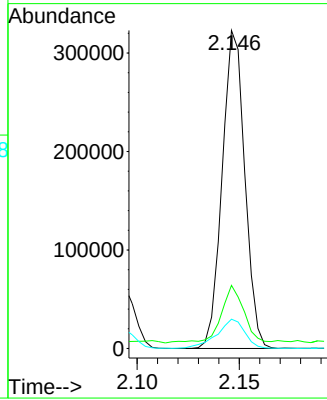
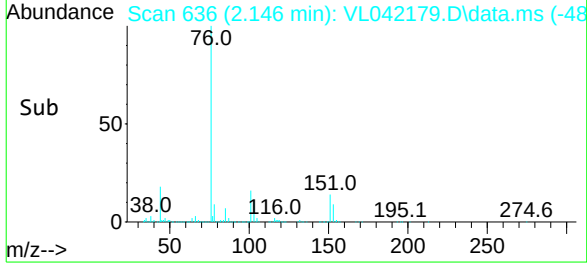
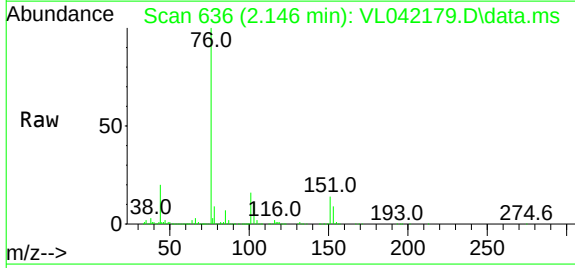
#27
Carbon Disulfide
Concen: 9.493 ppbv
RT: 2.146 min Scan# 636
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Instrument : MSVOA_L
ClientSampleId : ICVVL032725

Tgt Ion:	76	Resp:	248834
Ion	Ratio	Lower	Upper
76	100		
44	20.1	14.7	22.1
78	11.3	9.3	13.9

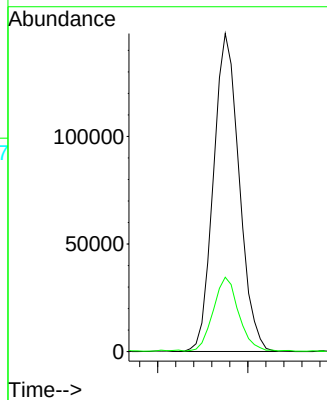
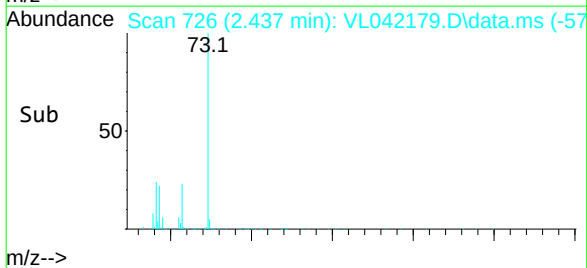
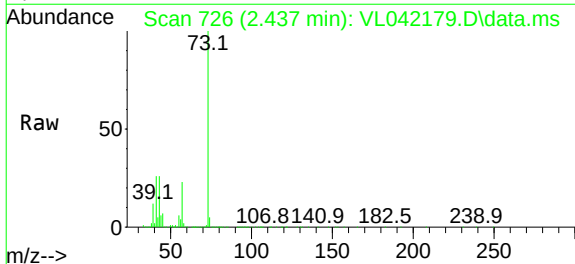
Manual Integrations APPROVED

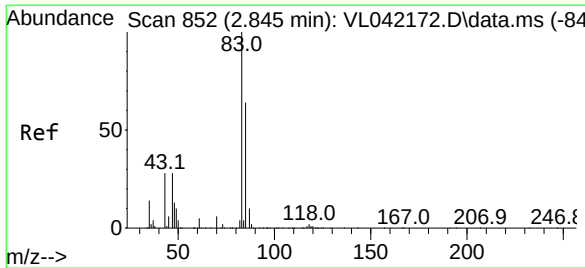
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#28
Methyl tert-Butyl Ether
Concen: 9.624 ppbv
RT: 2.437 min Scan# 726
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion:	73	Resp:	146470
Ion	Ratio	Lower	Upper
73	100		
57	23.3	20.5	30.7





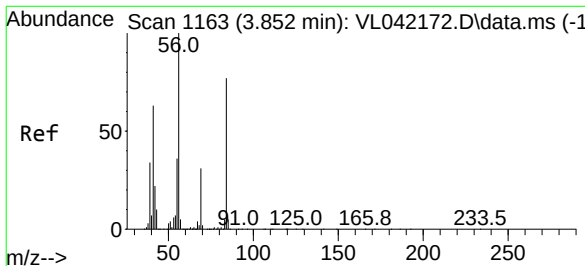
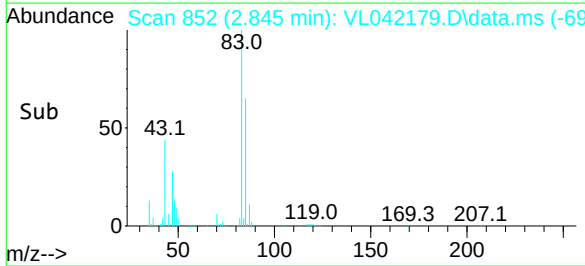
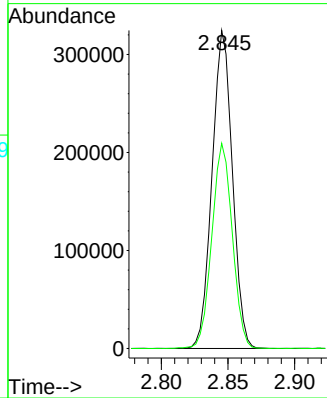
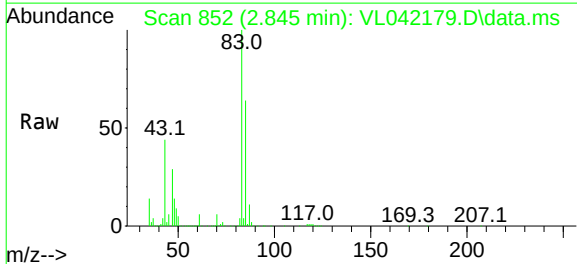
#29
Chloroform
Concen: 9.619 ppbv
RT: 2.845 min Scan# 85
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725

Tgt Ion: 83 Resp: 344106
Ion Ratio Lower Upper
83 100
85 64.5 51.4 77.2

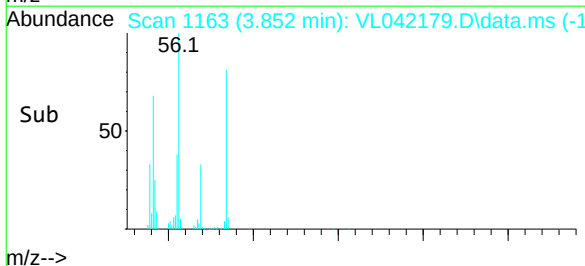
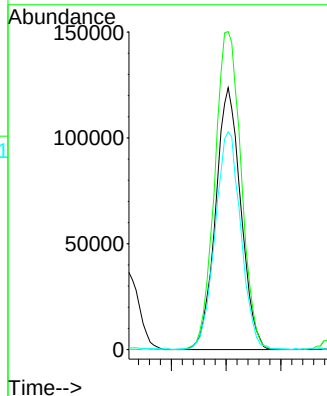
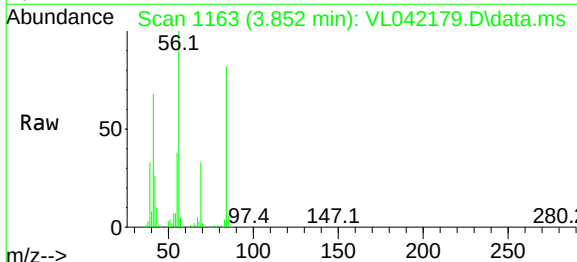
Manual Integrations
APPROVED

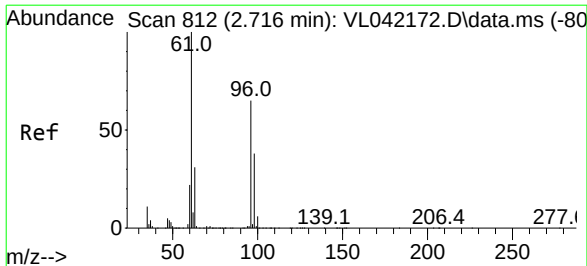
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#30
Cyclohexane
Concen: 9.323 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 84 Resp: 197897
Ion Ratio Lower Upper
84 100
56 126.8 102.8 154.2
41 84.6 66.5 99.7





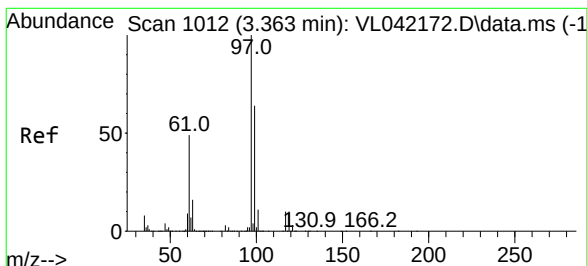
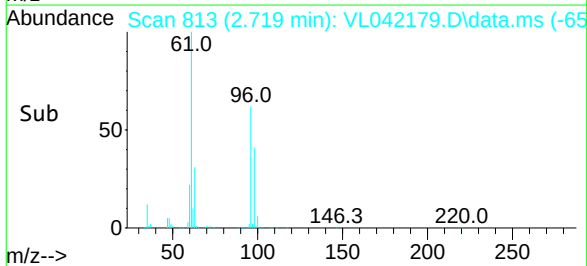
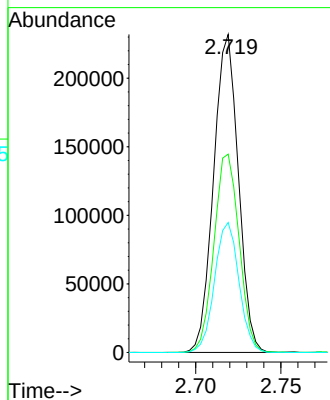
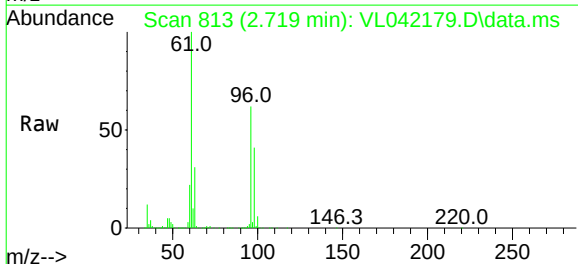
#31
cis-1,2-Dichloroethene
Concen: 9.449 ppbv
RT: 2.719 min Scan# 812
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725

Tgt Ion: 61 Resp: 234487
Ion Ratio Lower Upper
61 100
96 62.3 51.8 77.8
98 40.9 30.6 46.0

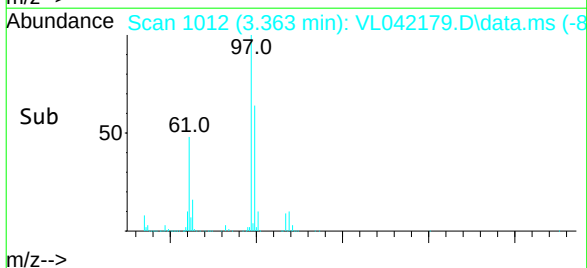
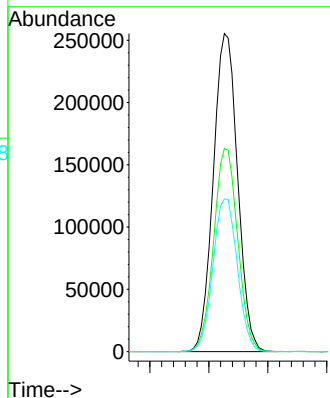
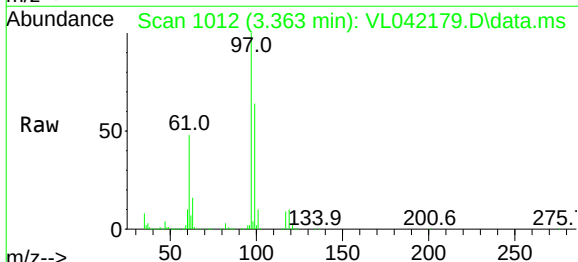
Manual Integrations
APPROVED

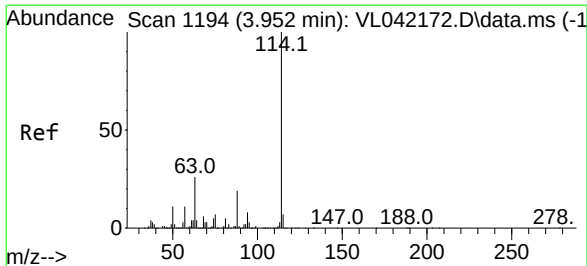
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#32
1,1,1-Trichloroethane
Concen: 8.921 ppbv
RT: 3.363 min Scan# 1012
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

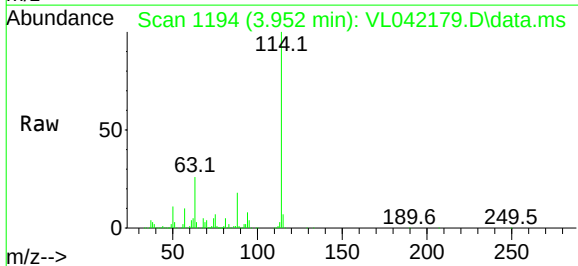
Tgt Ion: 97 Resp: 365364
Ion Ratio Lower Upper
97 100
99 63.4 51.5 77.3
61 48.4 38.7 58.1





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

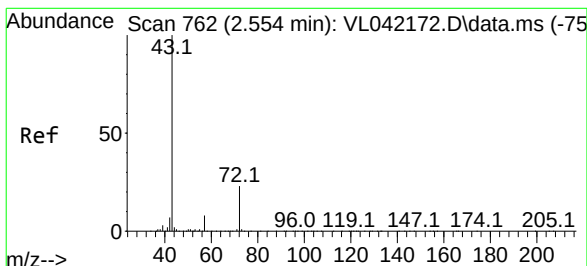
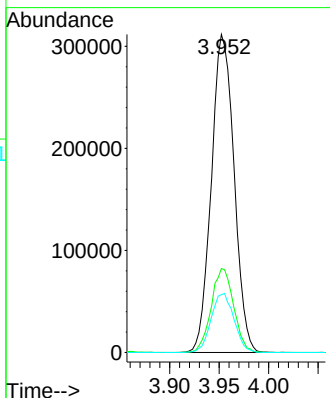
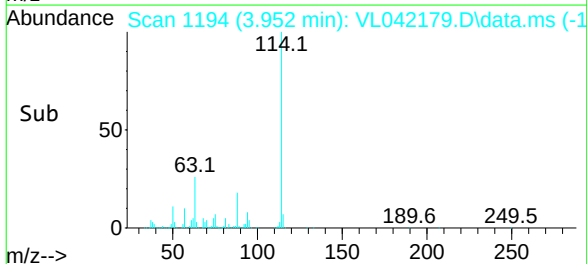
Instrument : MSVOA_L
ClientSampleId : ICVVL032725



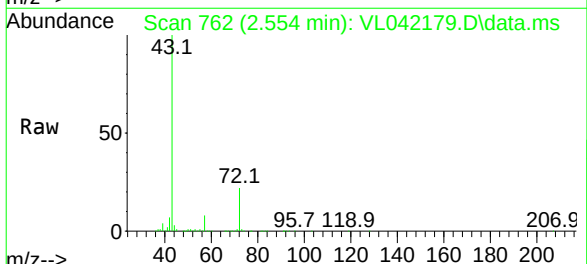
Tgt Ion: 114 Resp: 498105
Ion Ratio Lower Upper
114 100
63 26.1 20.7 31.1
88 18.7 15.0 22.4

Manual Integrations
APPROVED

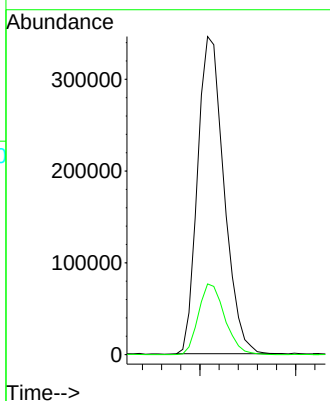
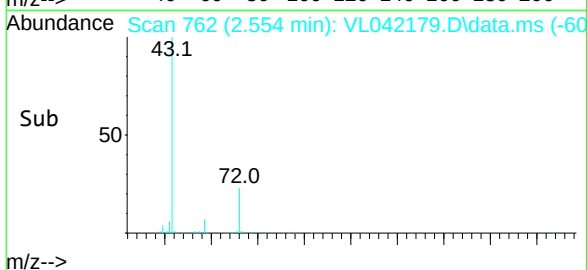
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

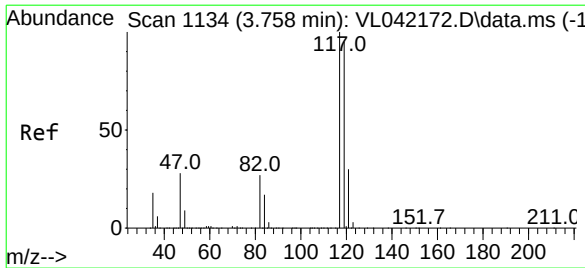


#34
2-Butanone
Concen: 9.171 ppbv
RT: 2.554 min Scan# 762
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23



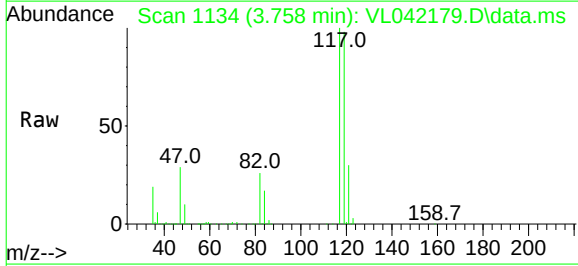
Tgt Ion: 43 Resp: 331236
Ion Ratio Lower Upper
43 100
72 22.2 18.2 27.2





#35
Carbon Tetrachloride
Concen: 9.339 ppbv
RT: 3.758 min Scan# 111
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

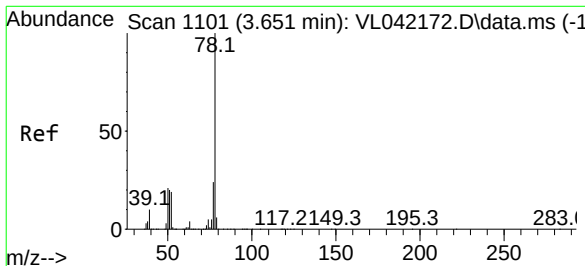
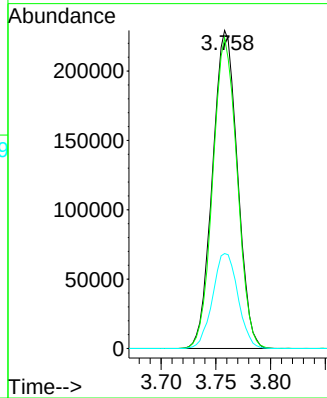
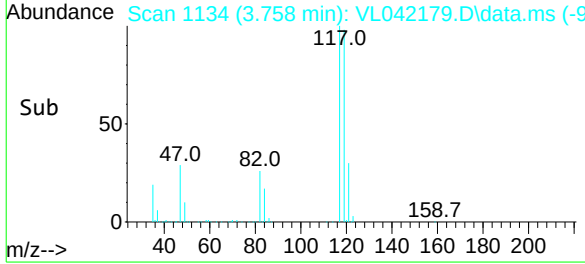
Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725



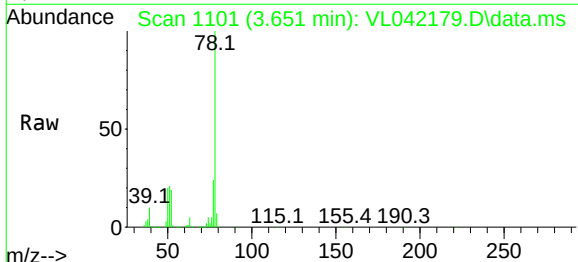
Tgt Ion: 117 Resp: 363392
Ion Ratio Lower Upper
117 100
119 97.7 76.2 114.2
121 29.9 24.2 36.4

Manual Integrations
APPROVED

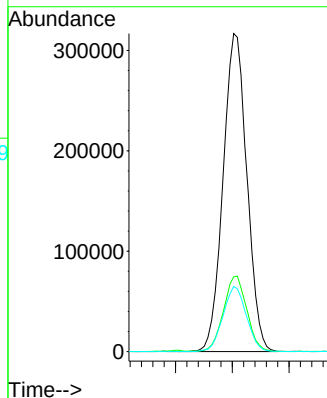
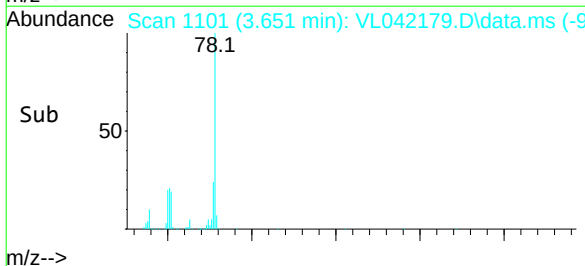
Reviewed By : Semsettin Yesilyurt 03/31/2025
Supervised By : Mahesh Dadoda 04/03/2025

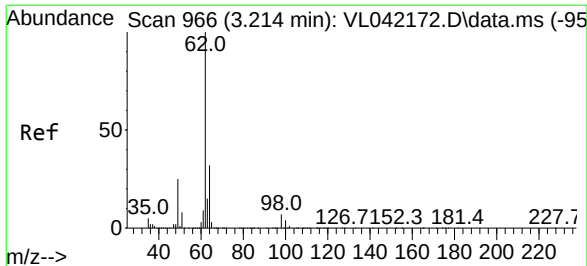


#36
Benzene
Concen: 9.341 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23



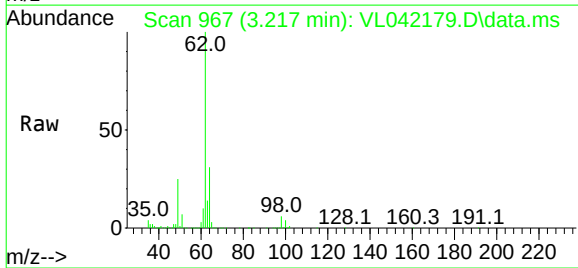
Tgt Ion: 78 Resp: 461261
Ion Ratio Lower Upper
78 100
77 23.5 19.1 28.7
50 20.4 16.6 24.8





#37
1,2-Dichloroethane
Concen: 9.676 ppbv
RT: 3.217 min Scan# 96
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

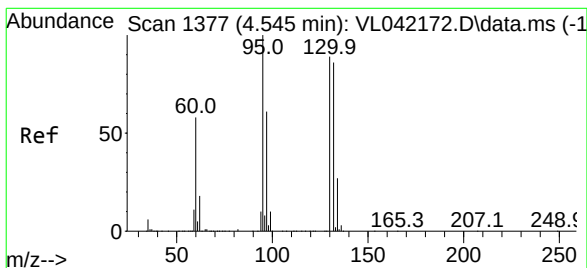
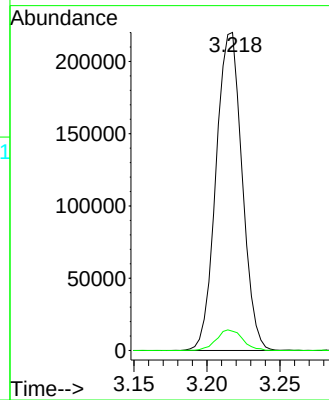
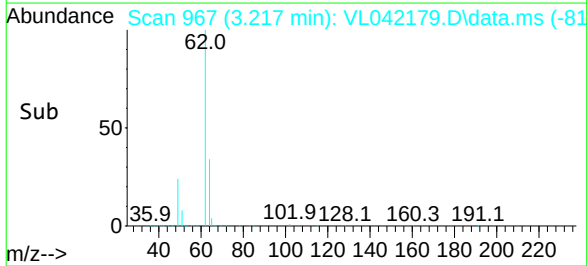
Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725



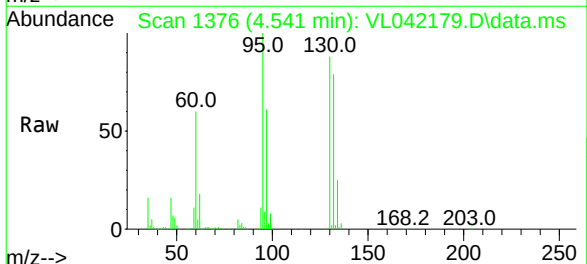
Tgt Ion: 62 Resp: 273559
Ion Ratio Lower Upper
62 100
98 6.6 5.4 8.2

Manual Integrations
APPROVED

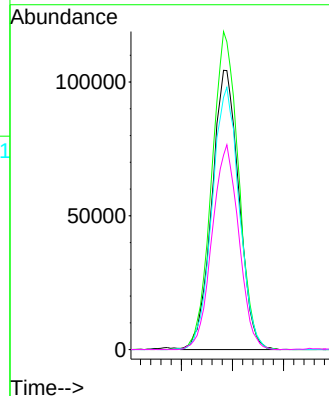
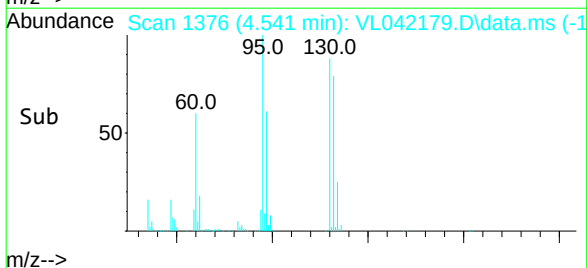
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

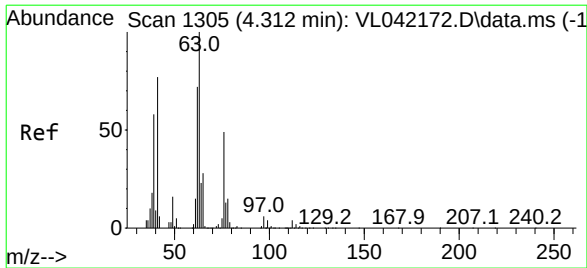


#38
Trichloroethene
Concen: 9.306 ppbv
RT: 4.541 min Scan# 1376
Delta R.T. -0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23



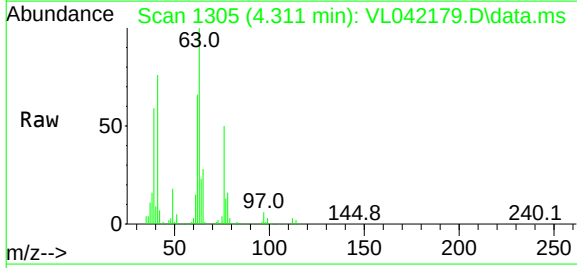
Tgt Ion:130 Resp: 191746
Ion Ratio Lower Upper
130 100
95 113.9 89.8 134.8
132 90.3 77.4 116.2
97 69.6 55.1 82.7





#39
1,2-Dichloropropane
Concen: 9.500 ppbv
RT: 4.311 min Scan# 1305
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

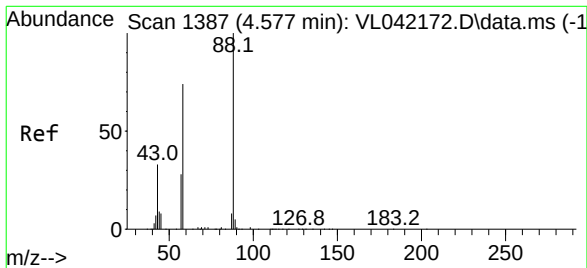
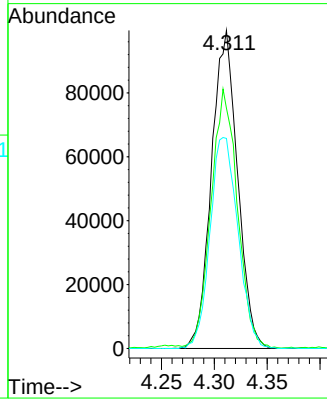
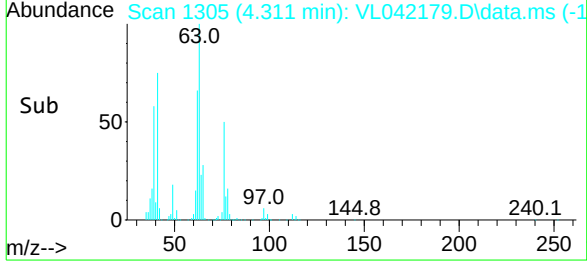
Instrument : MSVOA_L
ClientSampleId : ICVVL032725



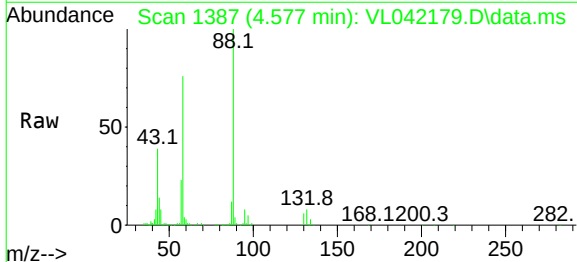
Tgt Ion: 63 Resp: 170839
Ion Ratio Lower Upper
63 100
41 75.3 61.7 92.5
62 66.0 57.6 86.4

Manual Integrations
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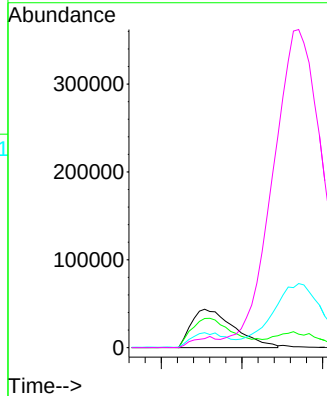
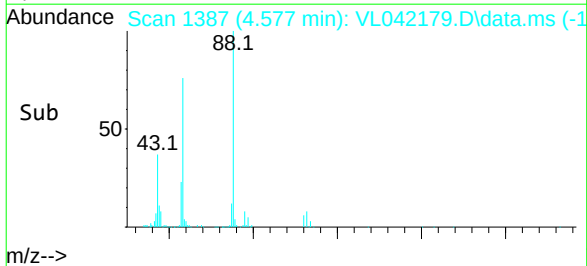
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

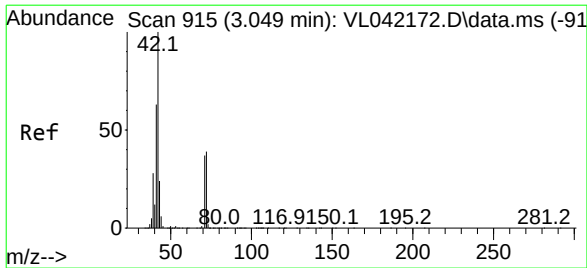


#40
1,4-Dioxane
Concen: 8.443 ppbv
RT: 4.577 min Scan# 1387
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23



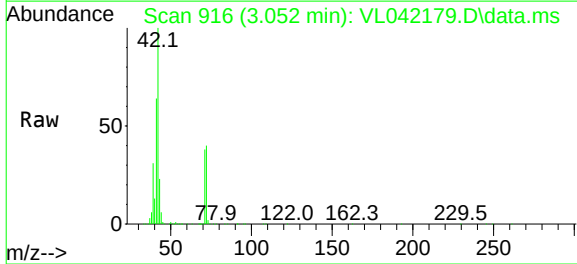
Tgt Ion: 88 Resp: 80592
Ion Ratio Lower Upper
88 100
58 76.2 62.7 94.1
43 31.4 23.0 34.4
57 0.0 0.0 0.0





#41
Tetrahydrofuran
Concen: 9.431 ppbv
RT: 3.052 min Scan# 91
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

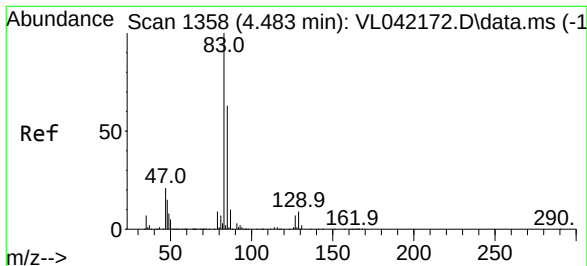
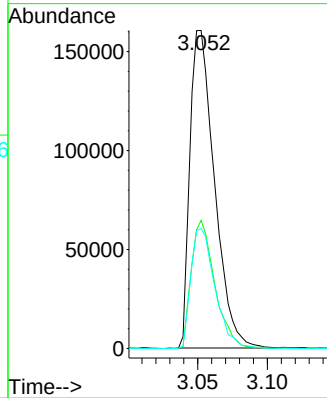
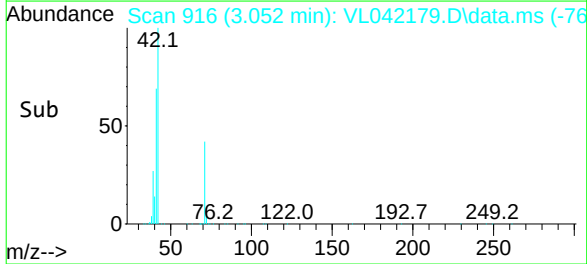
Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725



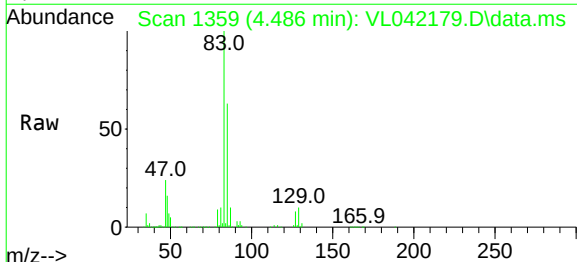
Tgt Ion: 42 Resp: 196163
Ion Ratio Lower Upper
42 100
72 38.9 31.4 47.0
71 37.2 30.2 45.4

Manual Integrations
APPROVED

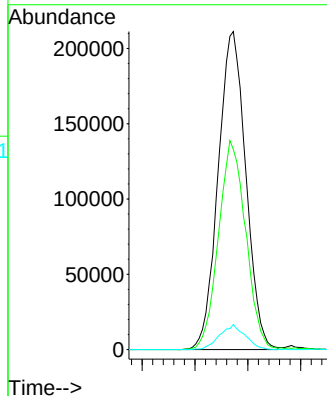
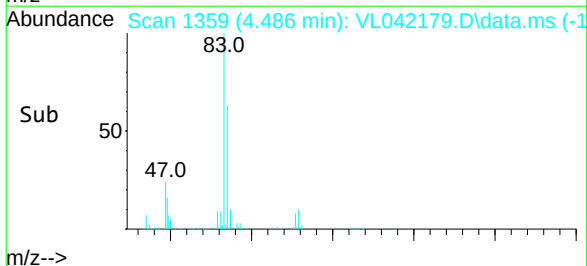
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

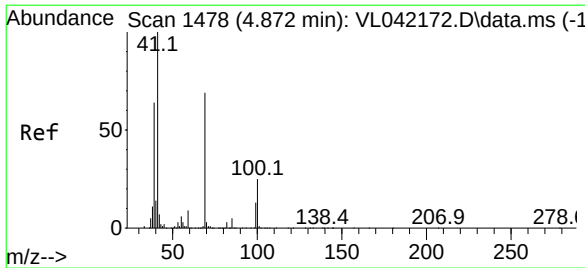


#42
Bromodichloromethane
Concen: 9.853 ppbv
RT: 4.486 min Scan# 1359
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23



Tgt Ion: 83 Resp: 384006
Ion Ratio Lower Upper
83 100
85 63.0 50.5 75.7
127 7.9 5.9 8.9





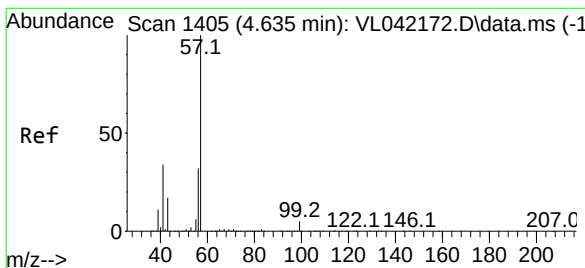
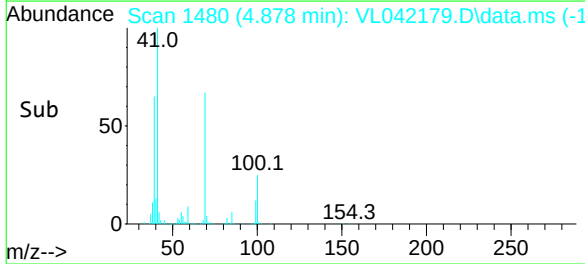
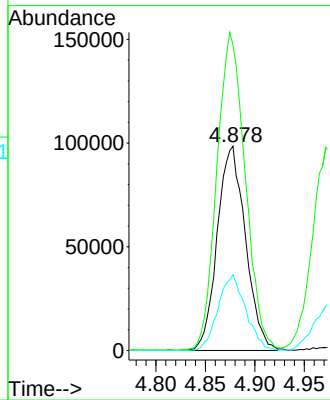
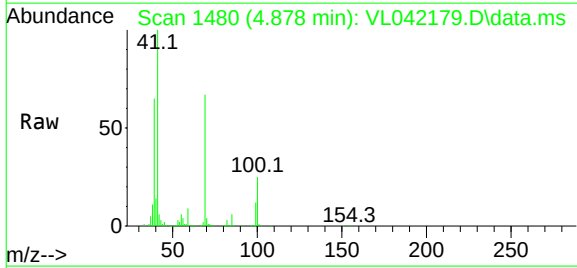
#43
Methyl Methacrylate
Concen: 9.344 ppbv
RT: 4.878 min Scan# 1478
Delta R.T. 0.006 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Instrument : MSVOA_L
ClientSampleId : ICVVL032725

Tgt Ion: 69 Resp: 195339
Ion Ratio Lower Upper
69 100
41 156.4 123.8 185.6
100 36.4 28.4 42.6

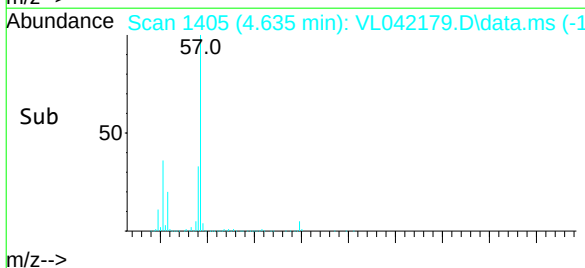
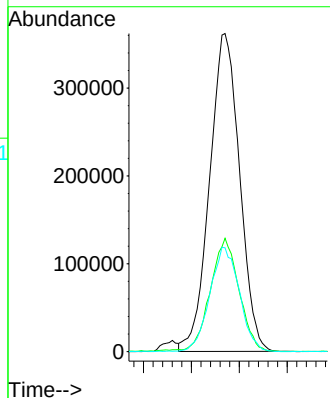
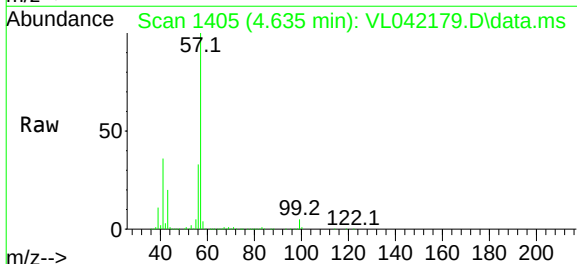
Manual Integrations
APPROVED

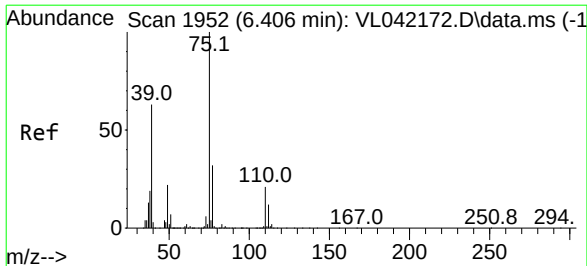
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#44
2,2,4-Trimethylpentane
Concen: 9.436 ppbv
RT: 4.635 min Scan# 1405
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

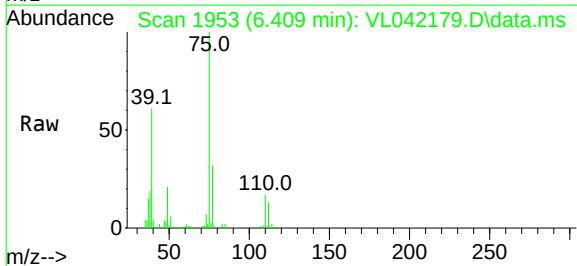
Tgt Ion: 57 Resp: 787400
Ion Ratio Lower Upper
57 100
41 34.3 26.8 40.2
56 32.5 25.6 38.4





#45
t-1,3-Dichloropropene
Concen: 9.467 ppbv
RT: 6.409 min Scan# 1952
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

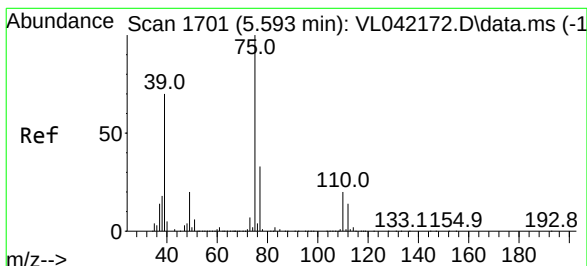
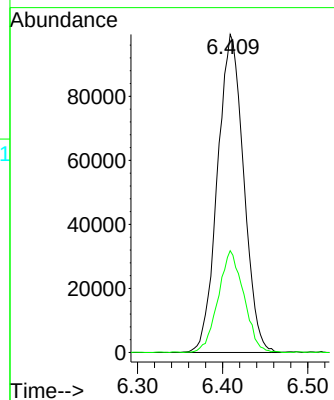
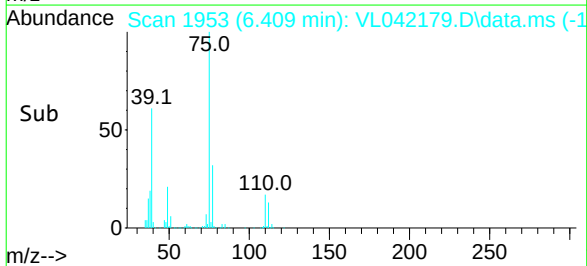
Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725



Tgt Ion: 75 Resp: 212335
Ion Ratio Lower Upper
75 100
77 32.0 26.0 39.0

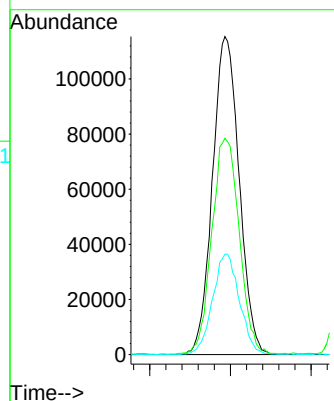
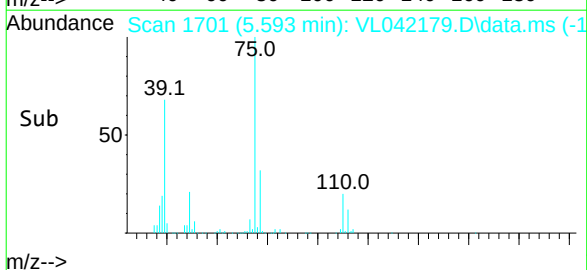
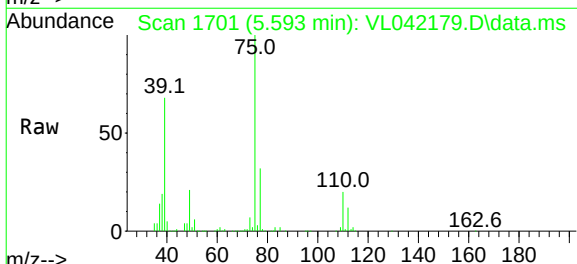
Manual Integrations
APPROVED

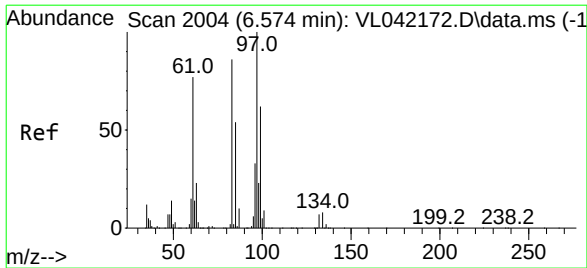
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#46
cis-1,3-Dichloropropene
Concen: 9.643 ppbv
RT: 5.593 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 75 Resp: 265101
Ion Ratio Lower Upper
75 100
39 67.8 55.8 83.6
77 31.6 26.0 39.0





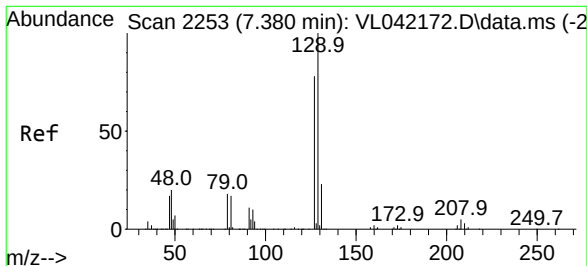
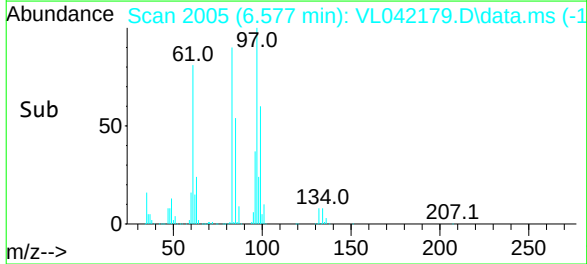
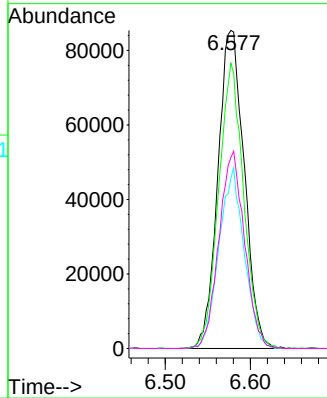
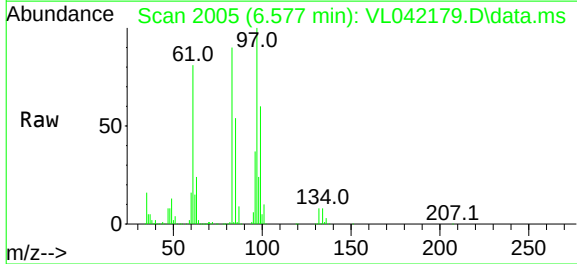
#47
1,1,2-Trichloroethane
Concen: 9.638 ppbv
RT: 6.577 min Scan# 2004
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725

Tgt Ion: 97 Resp: 183228
Ion Ratio Lower Upper
97 100
83 89.7 69.2 103.8
85 53.6 43.1 64.7
99 60.1 49.4 74.2

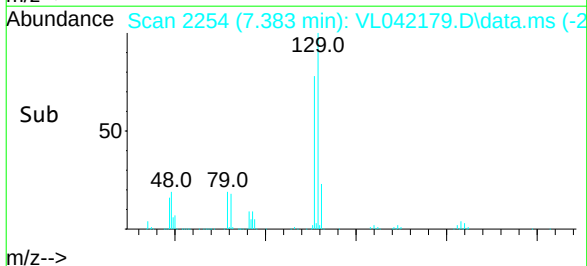
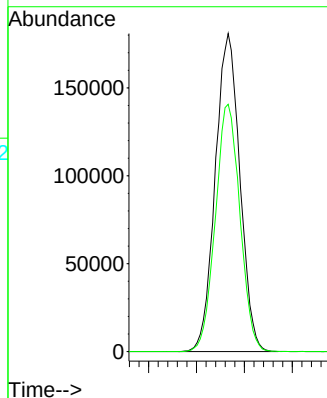
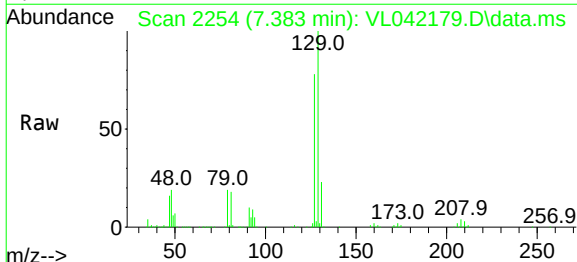
Manual Integrations
APPROVED

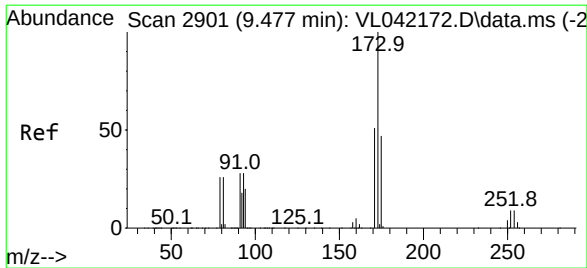
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#48
Dibromochloromethane
Concen: 10.018 ppbv
RT: 7.383 min Scan# 2254
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion:129 Resp: 322766
Ion Ratio Lower Upper
129 100
127 77.7 39.1 117.2





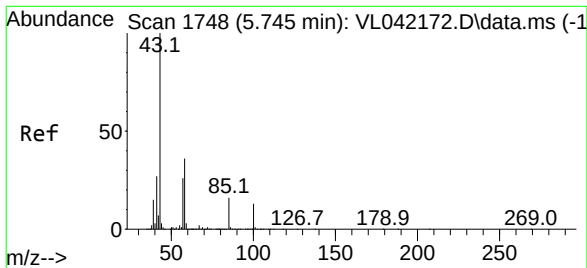
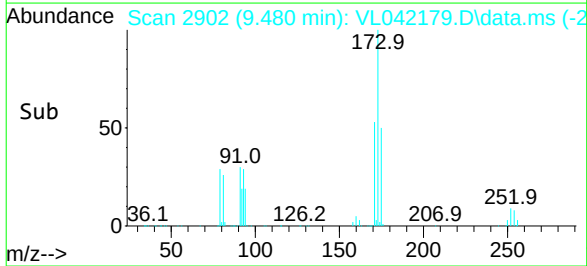
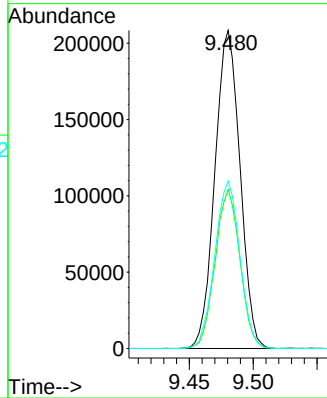
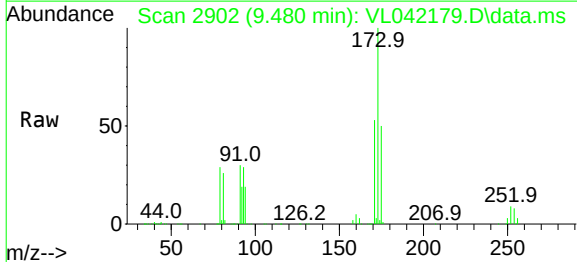
#49
Bromoform
Concen: 9.858 ppbv
RT: 9.480 min Scan# 2901
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725

Tgt Ion: 173 Resp: 285149
Ion Ratio Lower Upper
173 100
175 49.2 38.6 57.8
171 52.4 41.8 62.6

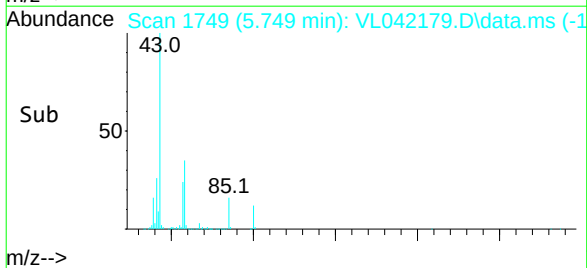
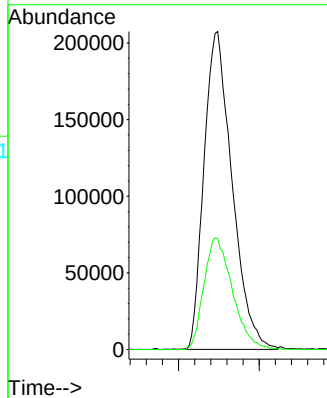
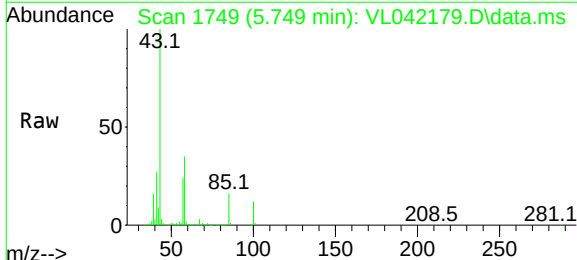
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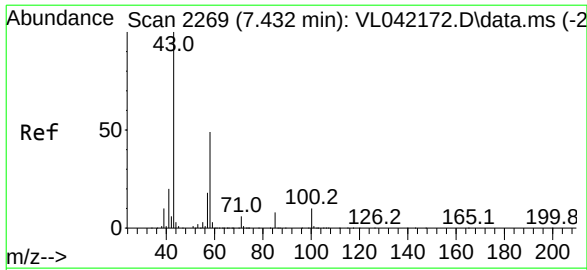
Reviewed By : Semsettin Yesilyurt 03/31/2025
Supervised By : Mahesh Dadoda 04/03/2025



#50
4-Methyl-2-Pentanone
Concen: 8.749 ppbv
RT: 5.749 min Scan# 1749
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

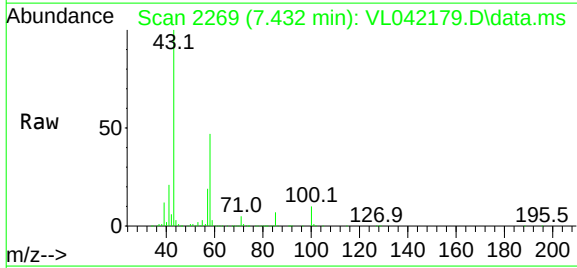
Tgt Ion: 43 Resp: 500791
Ion Ratio Lower Upper
43 100
58 35.8 29.0 43.6





#51
2-Hexanone
Concen: 8.741 ppbv
RT: 7.432 min Scan# 2269
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

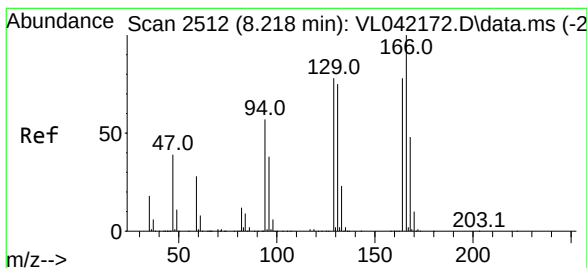
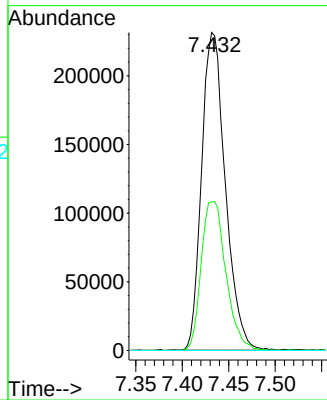
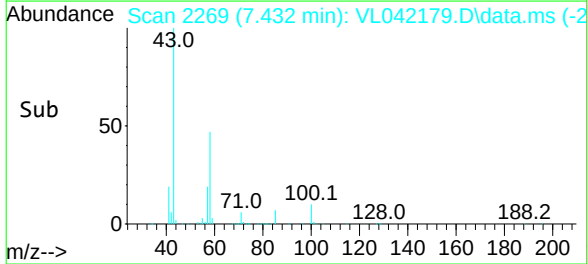
Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725



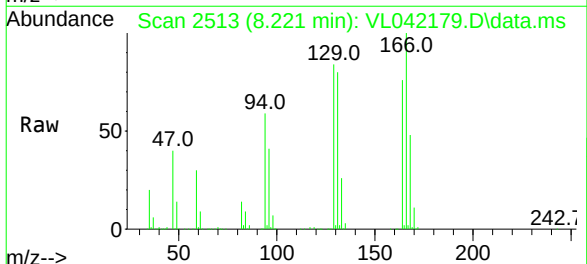
Tgt Ion: 43 Resp: 410889
Ion Ratio Lower Upper
43 100
58 48.9 39.7 59.5
98 0.0 0.1 0.1#

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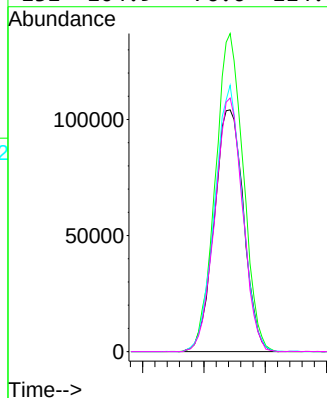
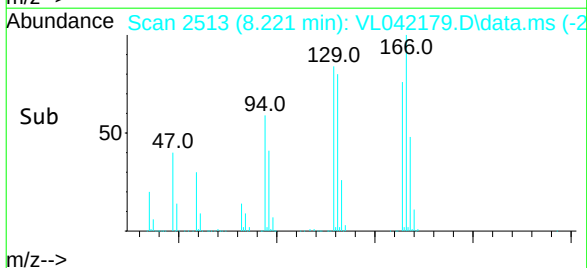
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

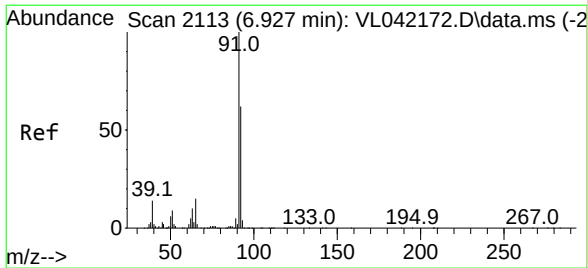


#52
Tetrachloroethene
Concen: 8.855 ppbv
RT: 8.221 min Scan# 2513
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23



Tgt Ion:164 Resp: 173420
Ion Ratio Lower Upper
164 100
166 131.6 102.5 153.7
129 110.1 79.8 119.8
131 104.9 76.6 114.8





#53

Toluene

Concen: 9.514 ppbv

RT: 6.927 min Scan# 2113

Delta R.T. -0.000 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

Instrument :

MSVOA_L

ClientSampleId :

ICVVL032725

Tgt Ion: 91 Resp: 556897

Ion Ratio Lower Upper

91 100

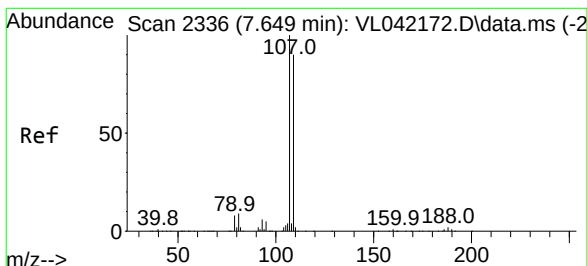
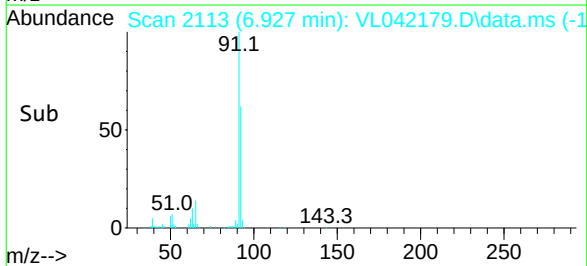
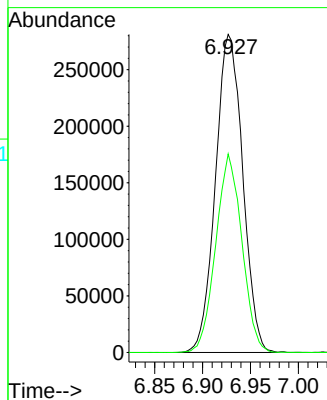
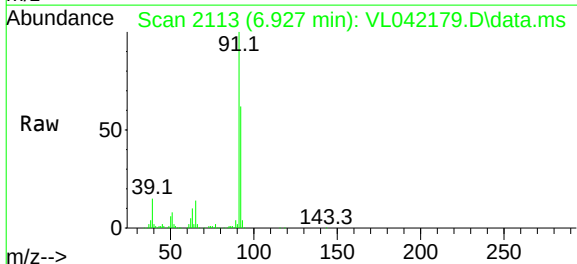
92 59.8 48.4 72.6

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Reviewed By :Semsettin Yesilyurt 03/31/2025

Supervised By :Mahesh Dadoda 04/03/2025



#54

1,2-Dibromoethane

Concen: 9.695 ppbv

RT: 7.645 min Scan# 2335

Delta R.T. -0.003 min

Lab File: VL042179.D

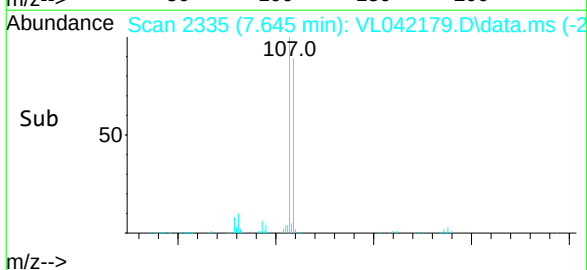
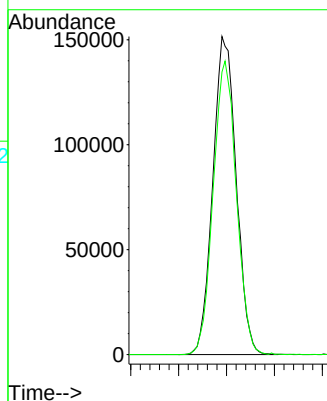
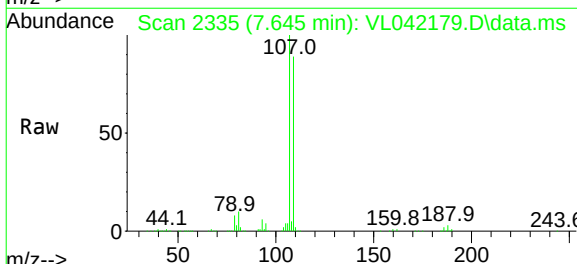
Acq: 27 Mar 2025 12:23

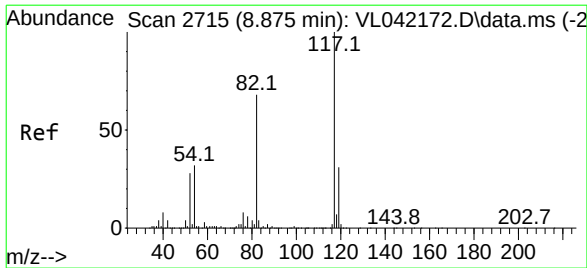
Tgt Ion:107 Resp: 256930

Ion Ratio Lower Upper

107 100

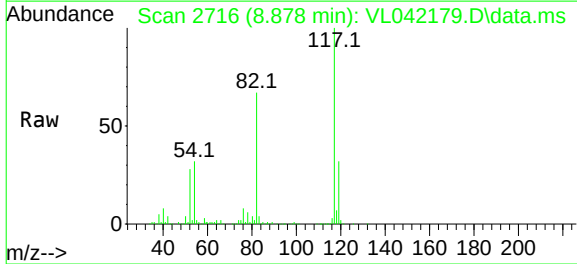
109 88.9 72.2 108.4





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2716
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

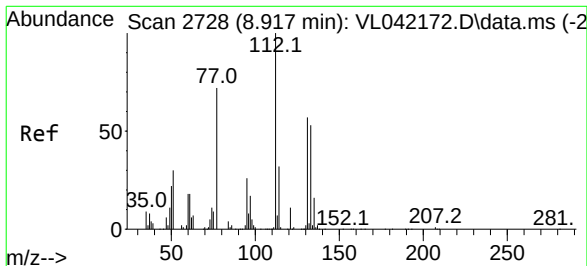
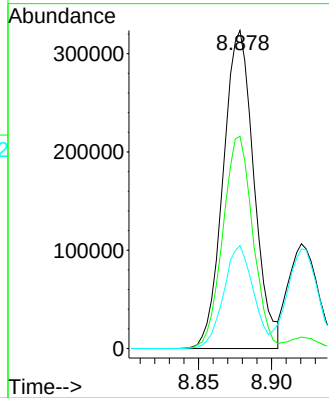
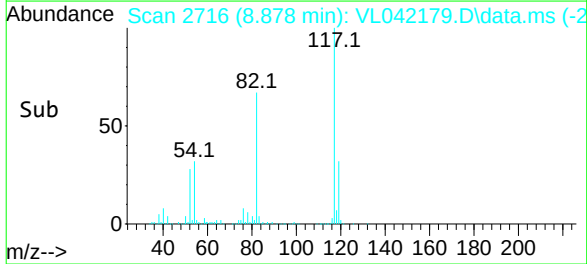
Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725



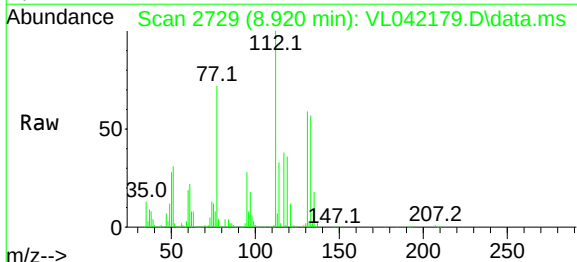
Tgt Ion:117 Resp: 473357
Ion Ratio Lower Upper
117 100
82 68.7 55.8 83.6
119 31.2 25.5 38.3

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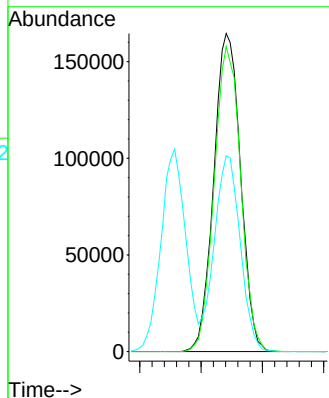
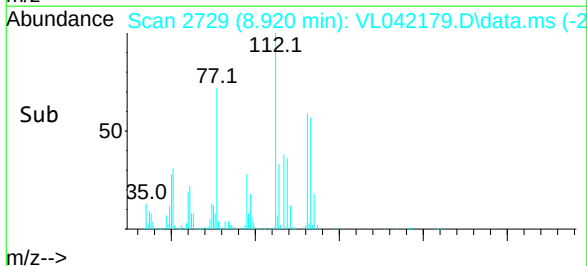
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

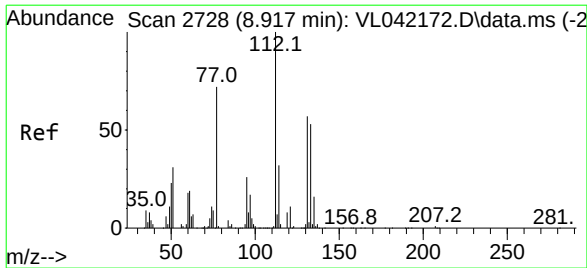


#56
1,1,1,2-Tetrachloroethane
Concen: 9.567 ppbv
RT: 8.920 min Scan# 2729
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23



Tgt Ion:131 Resp: 249270
Ion Ratio Lower Upper
131 100
133 95.0 76.6 114.8
119 61.3 49.8 74.6





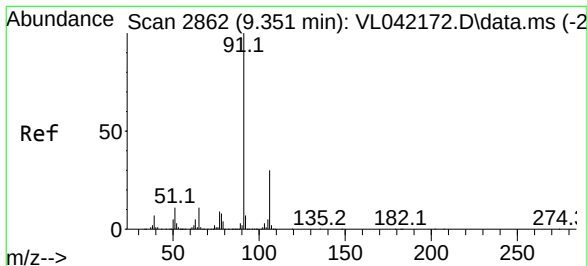
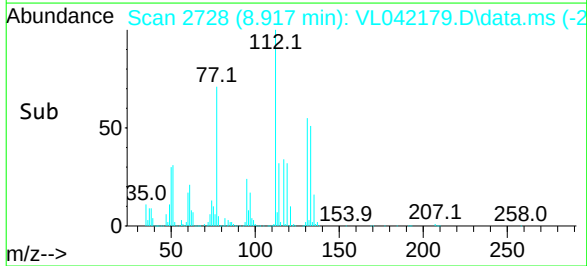
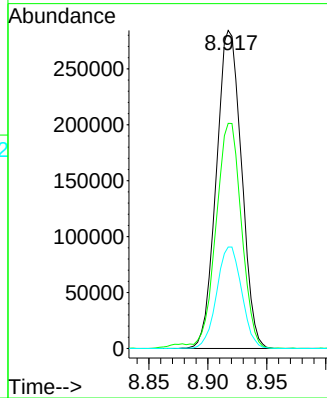
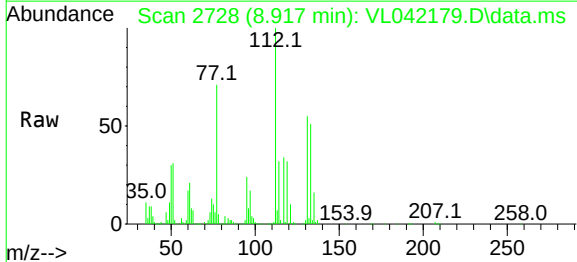
#57
Chlorobenzene
Concen: 9.411 ppbv
RT: 8.917 min Scan# 2728
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Instrument : MSVOA_L
ClientSampleId : ICVVL032725

Tgt Ion: 112 Resp: 422531
Ion Ratio Lower Upper
112 100
77 70.6 58.2 87.2
114 31.9 29.1 35.5

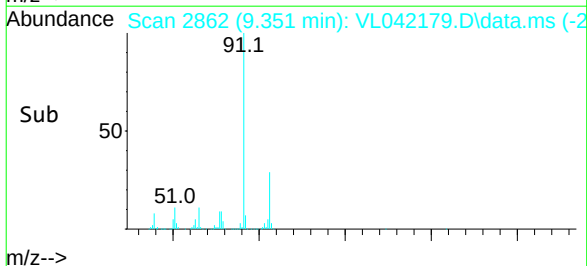
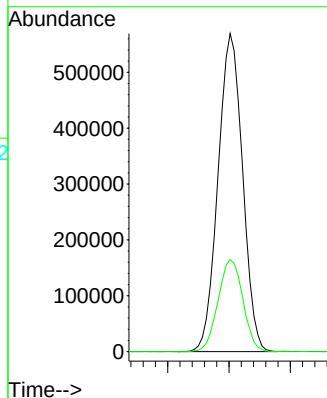
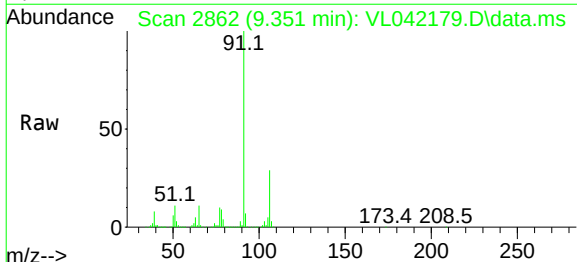
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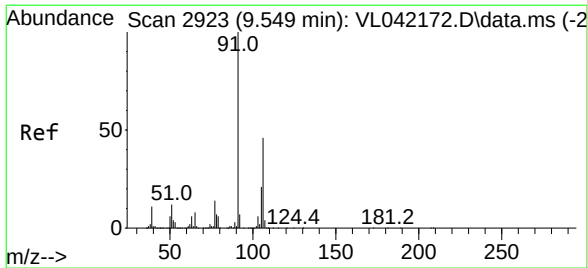
Reviewed By : Semsettin Yesilyurt 03/31/2025
Supervised By : Mahesh Dadoda 04/03/2025



#58
Ethyl Benzene
Concen: 9.412 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 91 Resp: 791360
Ion Ratio Lower Upper
91 100
106 28.9 24.2 36.2





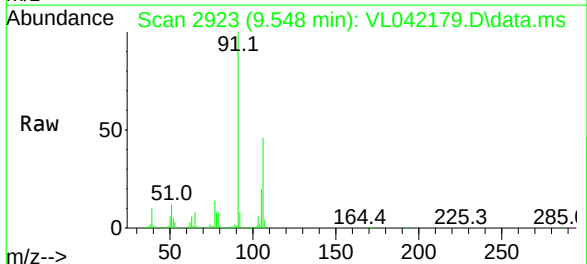
#59
m/p-Xylene
Concen: 18.772 ppbv m
RT: 9.548 min Scan# 29
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Instrument :

MSVOA_L

ClientSampleId :

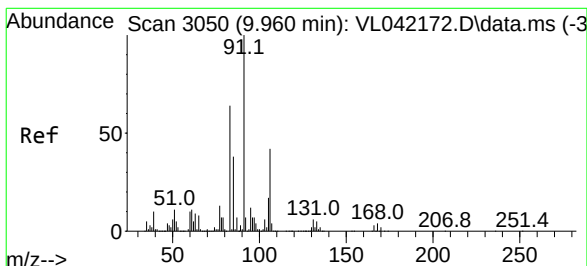
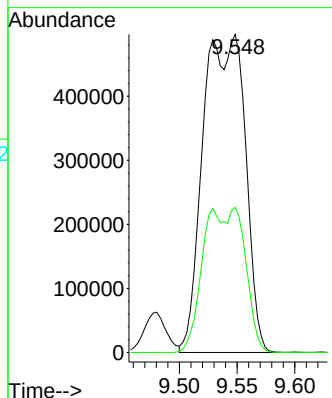
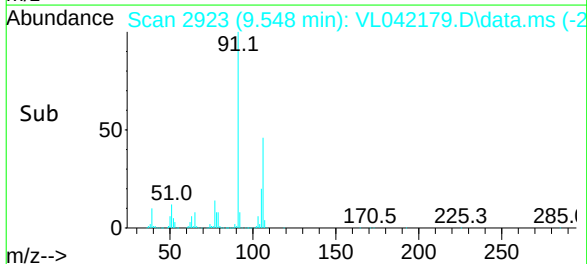
ICVVL032725



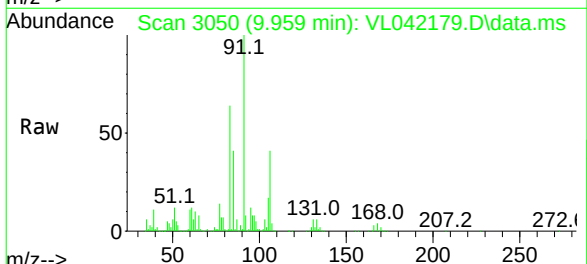
Tgt Ion: 91 Resp: 1260340
Ion Ratio Lower Upper
91 100
106 45.3 36.4 54.6

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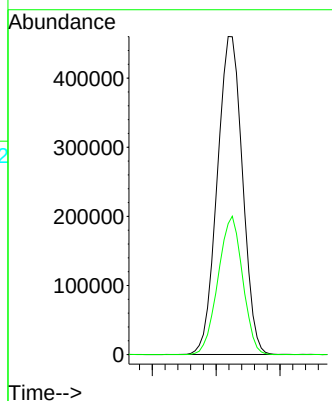
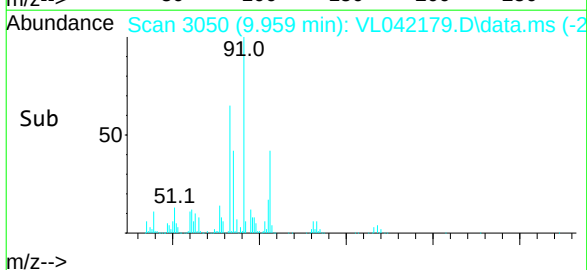
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

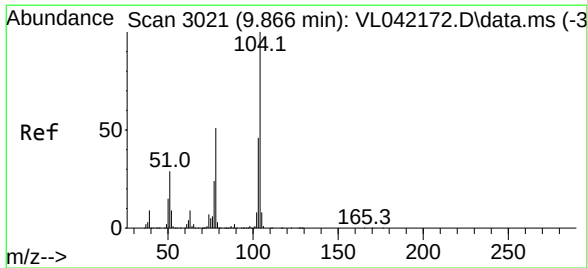


#60
o-Xylene
Concen: 9.404 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23



Tgt Ion: 91 Resp: 632918
Ion Ratio Lower Upper
91 100
106 42.2 20.8 62.5





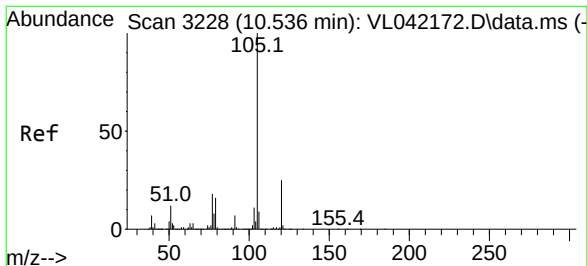
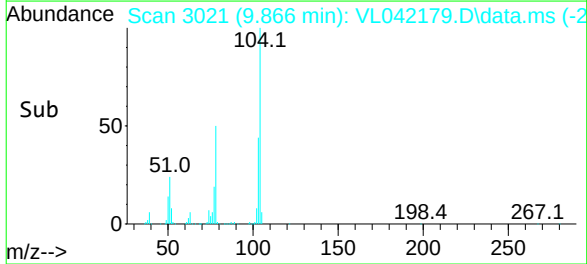
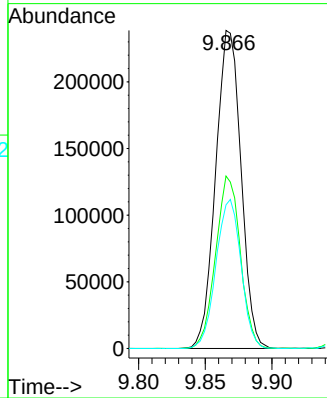
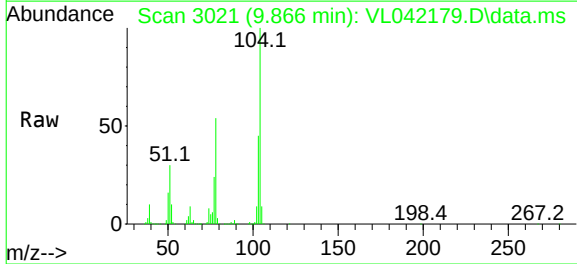
#61
Styrene
Concen: 9.488 ppbv
RT: 9.866 min Scan# 3021
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Instrument : MSVOA_L
ClientSampleId : ICVVL032725

Tgt Ion:104 Resp: 315910
Ion Ratio Lower Upper
104 100
78 52.8 41.8 62.6
103 46.3 37.0 55.4

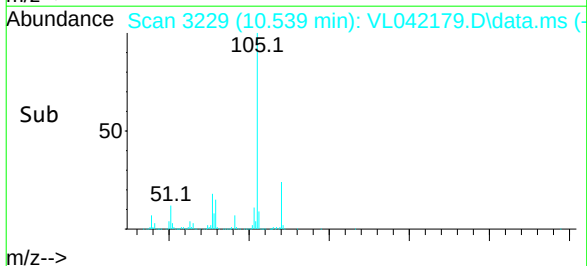
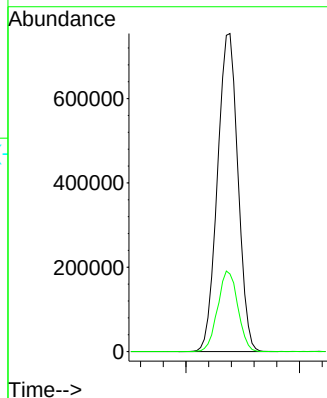
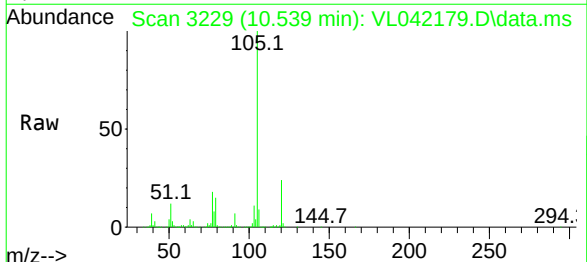
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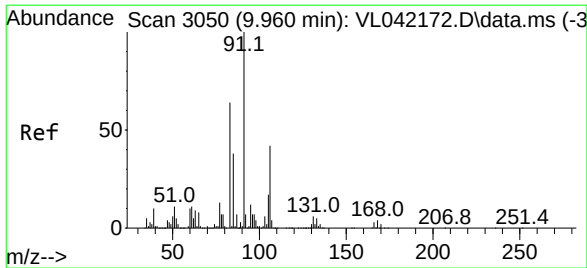
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#62
Isopropylbenzene
Concen: 9.388 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion:105 Resp: 944938
Ion Ratio Lower Upper
105 100
120 24.9 19.9 29.9





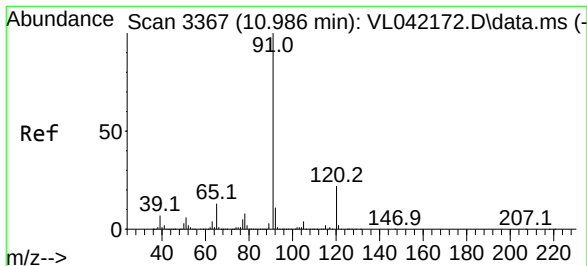
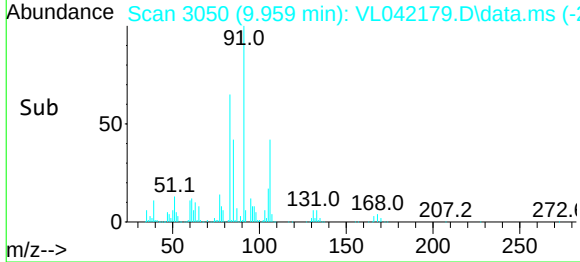
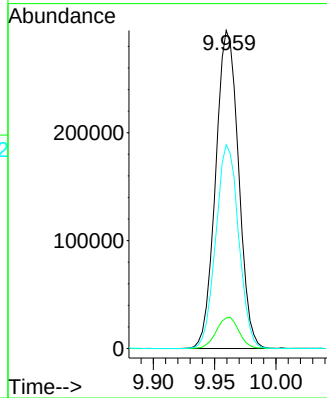
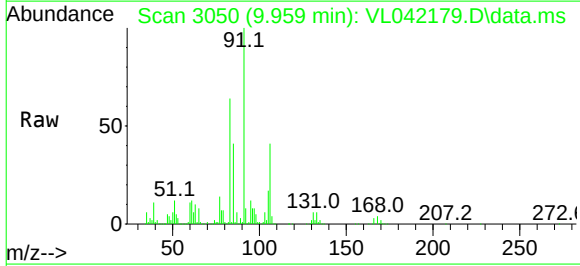
#63
1,1,2,2-Tetrachloroethane
Concen: 9.357 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Instrument : MSVOA_L
ClientSampleId : ICVVL032725

Tgt Ion:	83	Resp:	382635
Ion	Ratio	Lower	Upper
83	100		
131	9.7	4.8	14.4
85	63.9	32.5	97.5

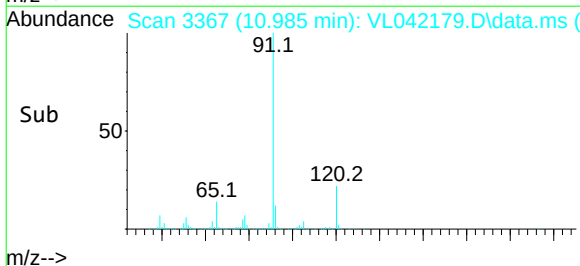
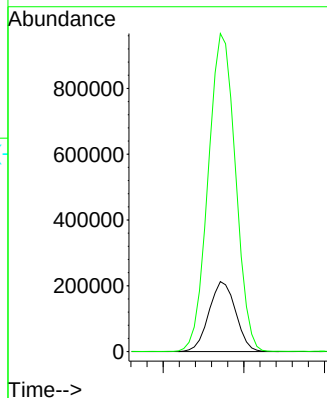
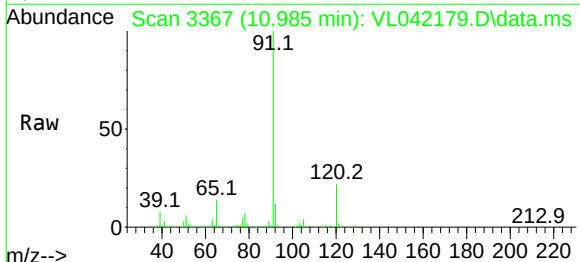
Manual Integrations
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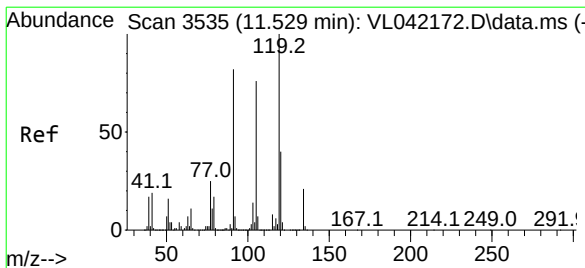
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#64
n-propylbenzene
Concen: 9.439 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

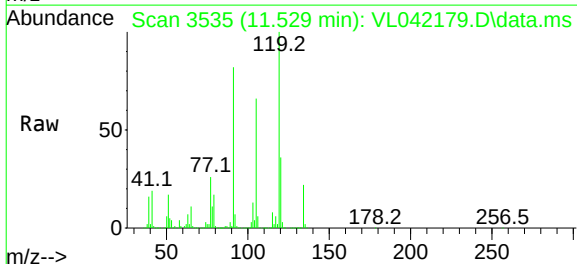
Tgt Ion:	120	Resp:	244547
Ion	Ratio	Lower	Upper
120	100		
91	465.9	376.9	565.3





#65
tert-Butylbenzene
Concen: 9.065 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

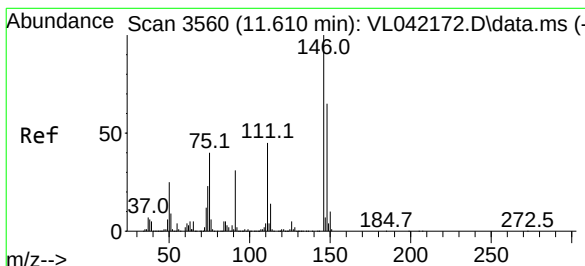
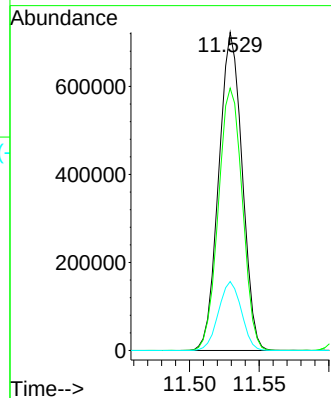
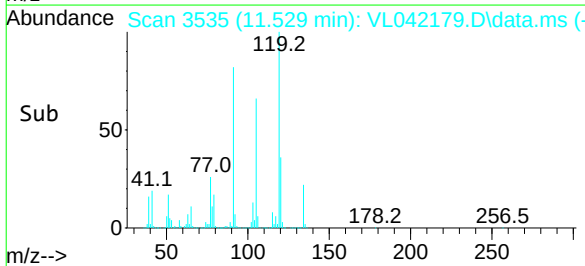
Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725



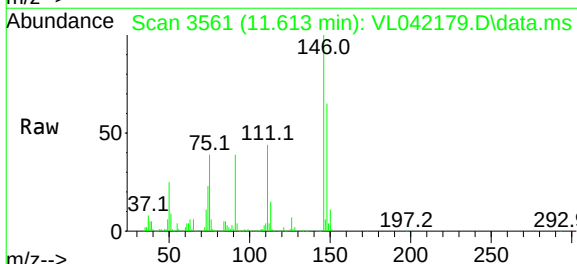
Tgt Ion: 119 Resp: 843828
Ion Ratio Lower Upper
119 100
91 84.3 66.0 99.0
134 21.2 16.7 25.1

Manual Integrations
APPROVED

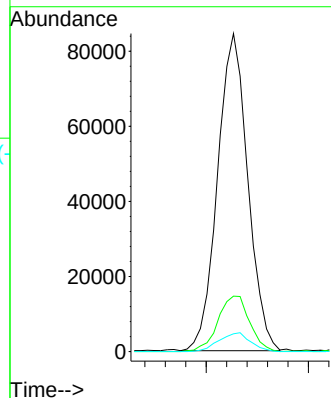
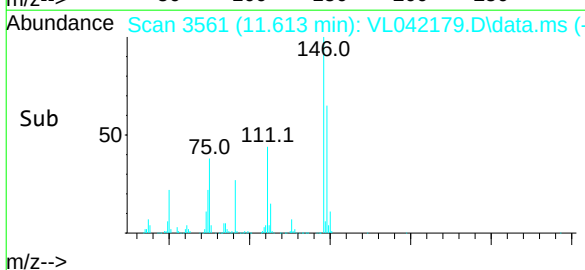
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

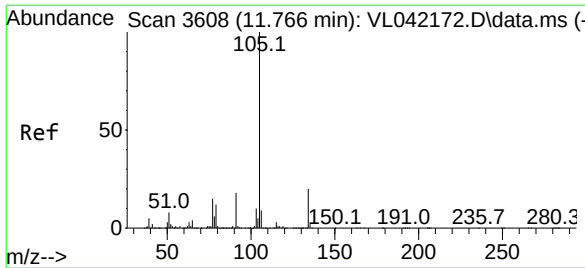


#66
Benzyl Chloride
Concen: 8.789 ppbv
RT: 11.613 min Scan# 3561
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23



Tgt Ion: 91 Resp: 86804
Ion Ratio Lower Upper
91 100
126 18.5 13.8 20.6
128 6.2 4.5 6.7





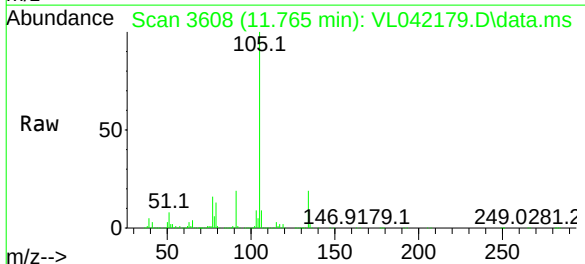
#67
 sec-Butylbenzene
 Concen: 9.063 ppbv
 RT: 11.765 min Scan# 3608
 Delta R.T. -0.000 min
 Lab File: VL042179.D
 Acq: 27 Mar 2025 12:23

Instrument :

MSVOA_L

ClientSampleId :

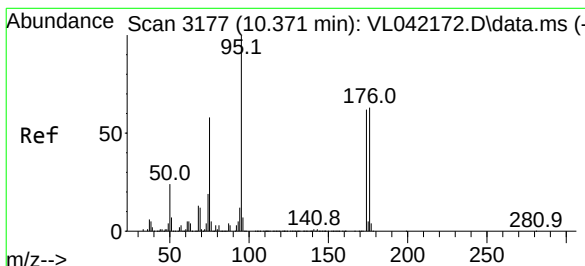
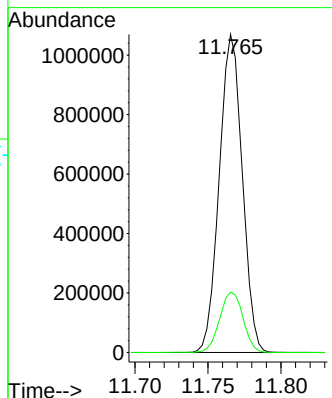
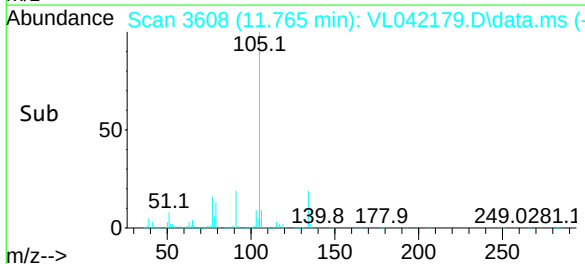
ICVVL032725



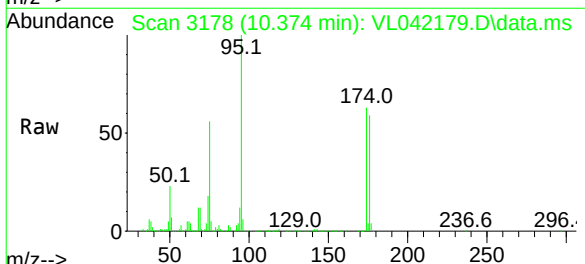
Tgt Ion: 105 Resp: 1172636
 Ion Ratio Lower Upper
 105 100
 134 19.4 15.5 23.3

Manual Integrations
 APPROVED

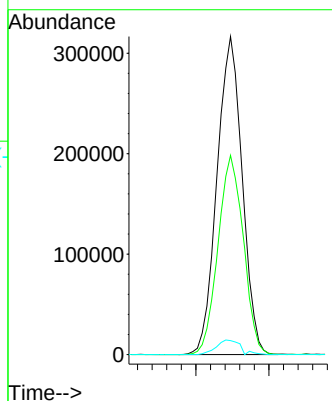
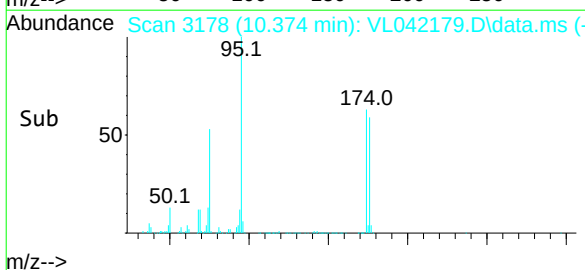
Reviewed By : Semsettin Yesilyurt 03/31/2025
 Supervised By : Mahesh Dadoda 04/03/2025

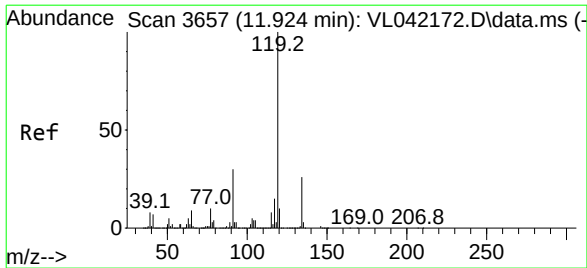


#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.774 ppbv
 RT: 10.374 min Scan# 3178
 Delta R.T. 0.003 min
 Lab File: VL042179.D
 Acq: 27 Mar 2025 12:23



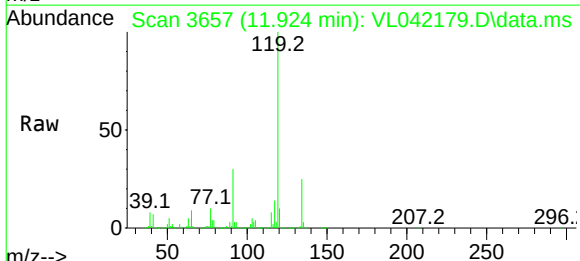
Tgt Ion: 95 Resp: 379929
 Ion Ratio Lower Upper
 95 100
 174 63.0 50.6 76.0
 175 4.4 3.8 5.6





#69
p-Isopropyltoluene
Concen: 9.153 ppbv
RT: 11.924 min Scan# 3657
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

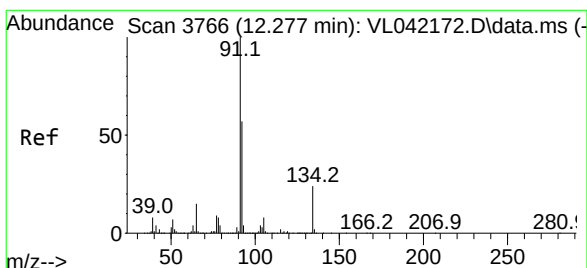
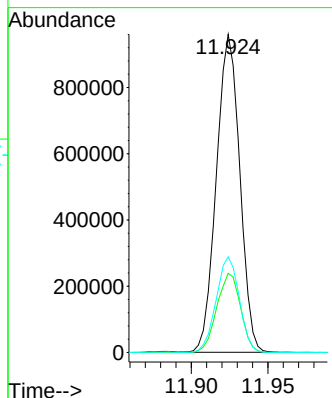
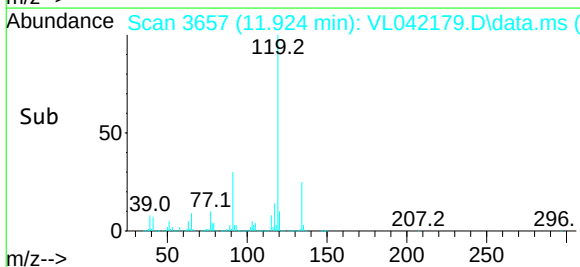
Instrument : MSVOA_L
ClientSampleId : ICVVL032725



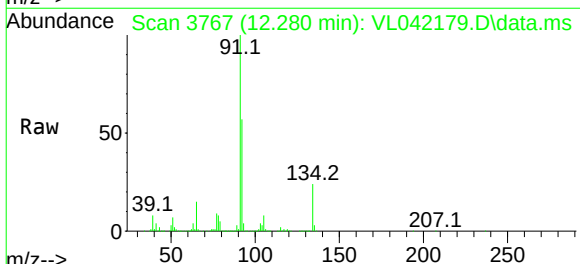
Tgt Ion:	119	Resp:	1019694
Ion	Ratio	Lower	Upper
119	100		
134	25.3	20.4	30.6
91	29.9	23.7	35.5

Manual Integrations APPROVED

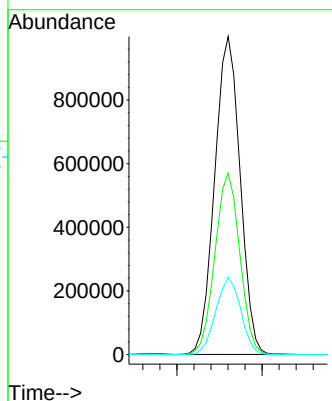
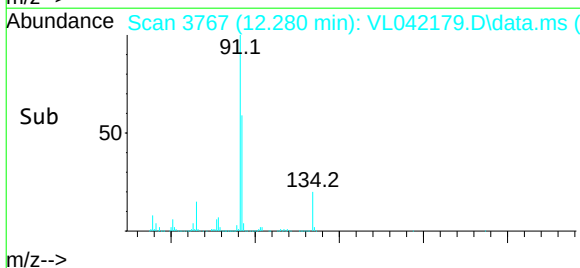
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

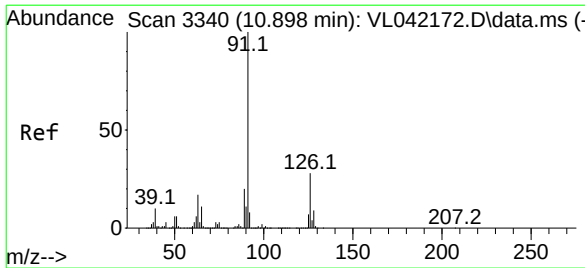


#70
n-Butylbenzene
Concen: 9.115 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23



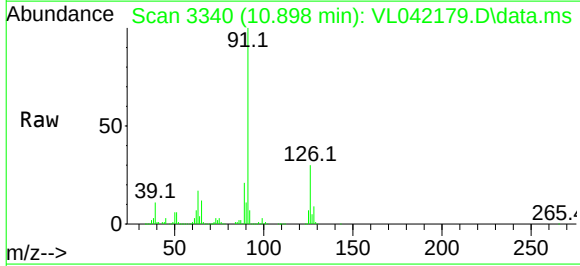
Tgt Ion:	91	Resp:	1038548
Ion	Ratio	Lower	Upper
91	100		
92	56.0	44.9	67.3
134	23.8	19.2	28.8





#71
2-Chlorotoluene
Concen: 9.382 ppbv
RT: 10.898 min Scan# 3340
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

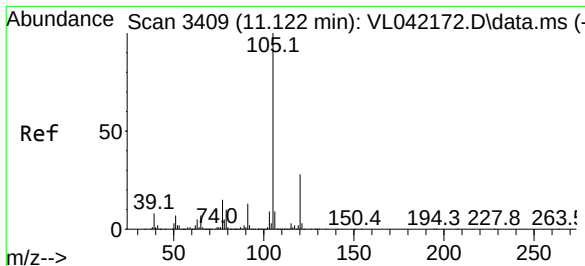
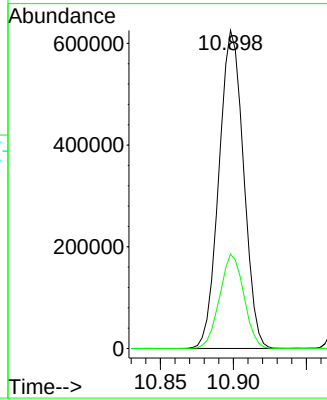
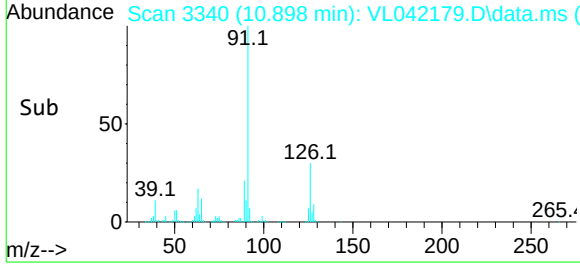
Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725



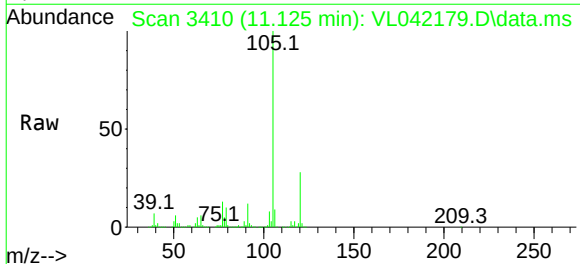
Tgt Ion: 91 Resp: 732874
Ion Ratio Lower Upper
91 100
126 29.2 11.6 46.4

Manual Integrations
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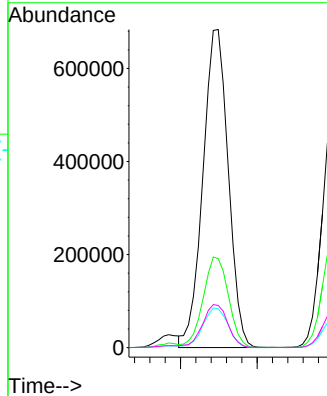
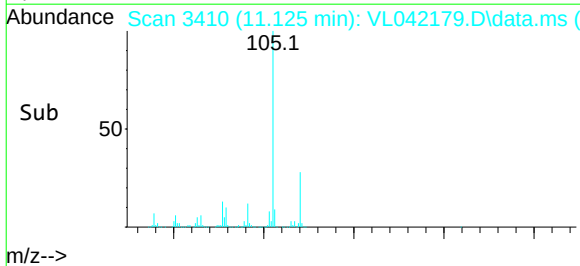
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

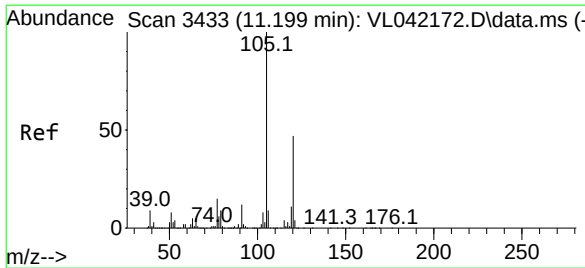


#72
4-Ethyltoluene
Concen: 9.370 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23



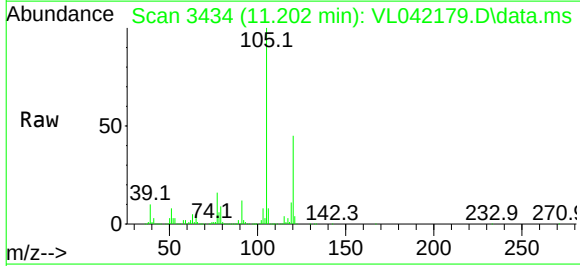
Tgt Ion:105 Resp: 785185
Ion Ratio Lower Upper
105 100
120 29.6 23.4 35.0
91 12.9 10.3 15.5
77 14.1 11.4 17.2





#73
1,3,5-Trimethylbenzene
Concen: 9.203 ppbv
RT: 11.202 min Scan# 3433
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

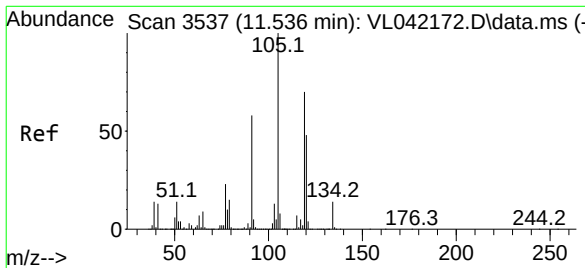
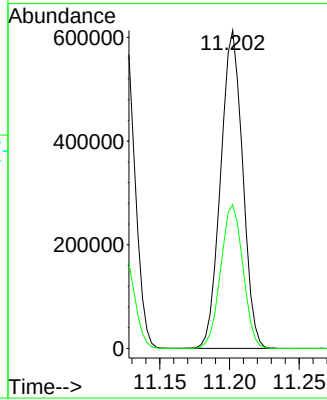
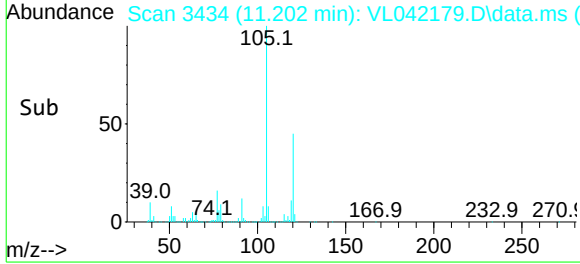
Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725



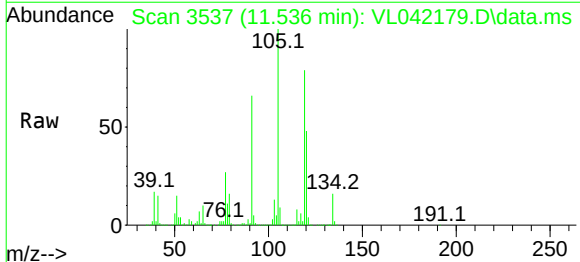
Tgt Ion:105 Resp: 673541
Ion Ratio Lower Upper
105 100
120 45.2 37.4 56.0

Manual Integrations
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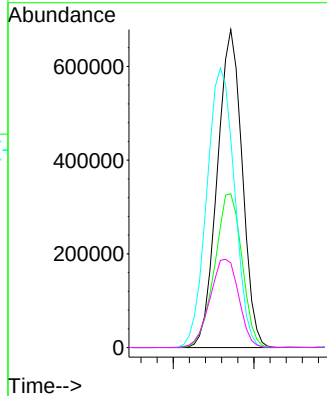
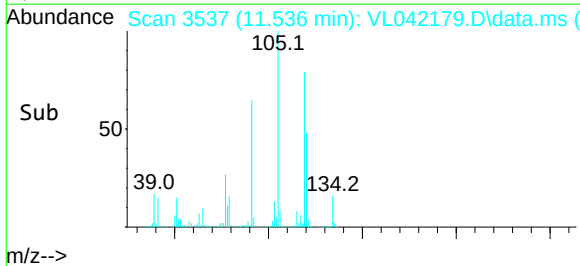
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

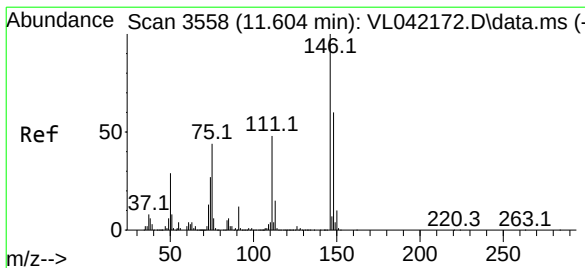


#74
1,2,4-Trimethylbenzene
Concen: 8.648 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23



Tgt Ion:105 Resp: 729155
Ion Ratio Lower Upper
105 100
120 48.4 38.6 58.0
91 65.6 46.2 69.2
77 26.6 18.6 27.8





#75

1,3-Dichlorobenzene

Concen: 9.224 ppbv

RT: 11.607 min Scan# 3558

Delta R.T. 0.003 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

Instrument :

MSVOA_L

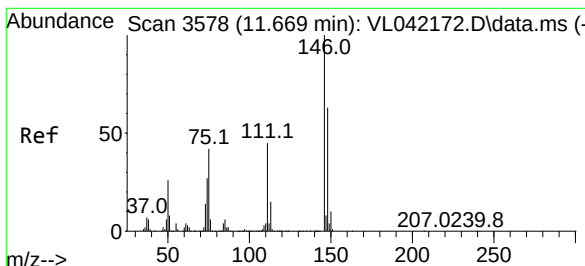
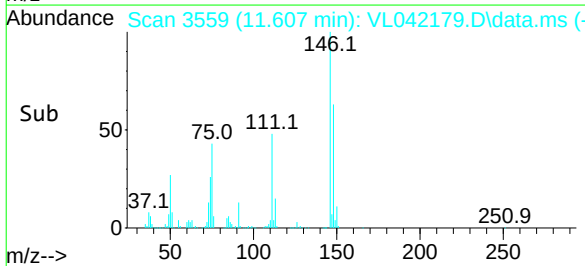
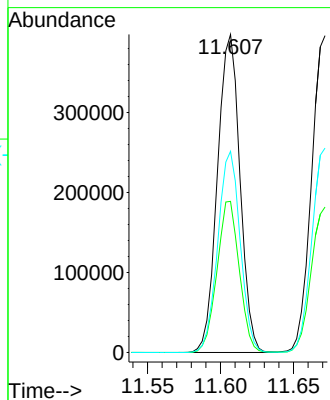
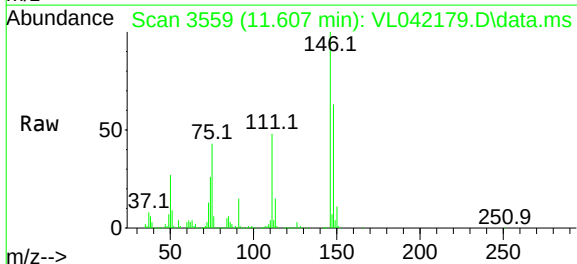
ClientSampleId :

ICVVL032725

Tgt Ion:	146	Resp:	426573
Ion Ratio	Lower	Upper	
146	100		
111	47.2	23.8	71.2
148	62.9	31.9	95.9

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#76

1,4-Dichlorobenzene

Concen: 9.263 ppbv

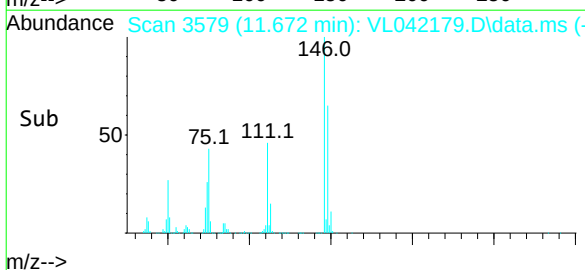
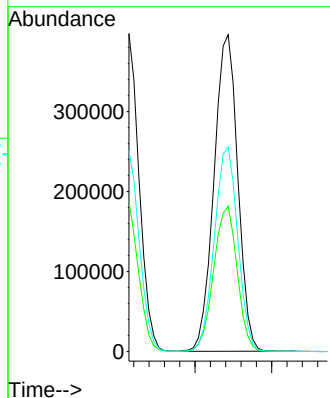
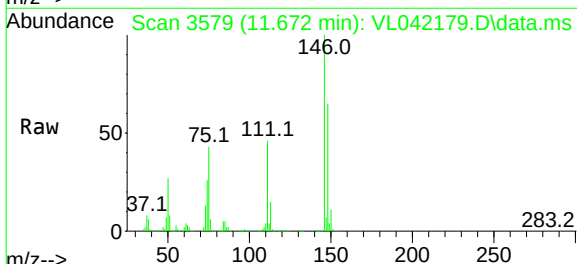
RT: 11.672 min Scan# 3579

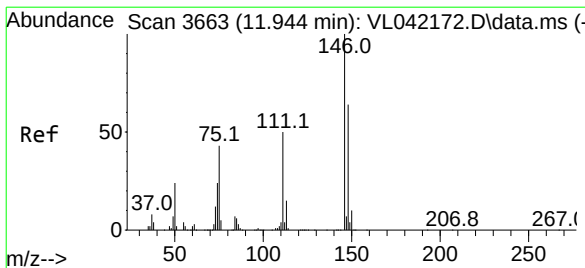
Delta R.T. 0.003 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

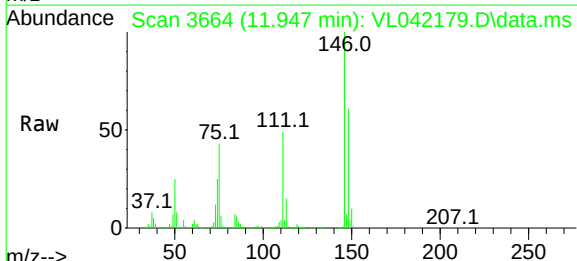
Tgt Ion:	146	Resp:	426318
Ion Ratio	Lower	Upper	
146	100		
111	45.6	23.0	69.0
148	64.1	31.9	95.7





#77
1,2-Dichlorobenzene
Concen: 9.154 ppbv
RT: 11.947 min Scan# 3663
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

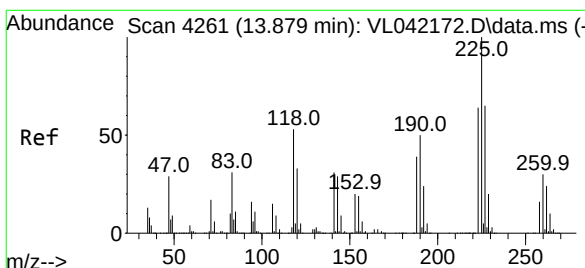
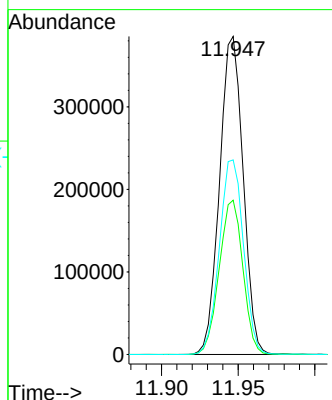
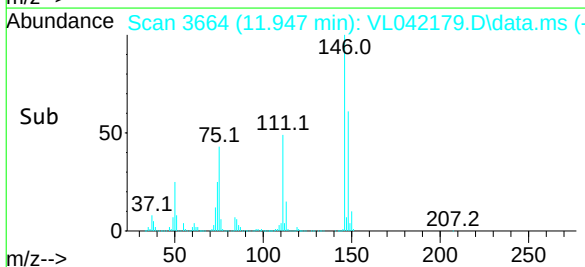
Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725



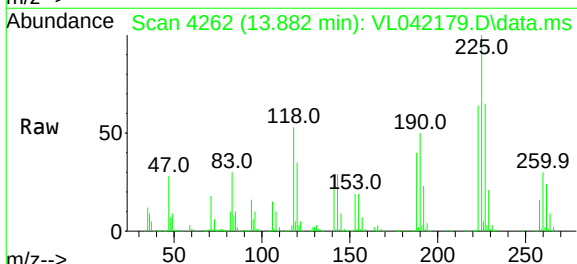
Tgt Ion:146 Resp: 412180
Ion Ratio Lower Upper
146 100
111 48.8 24.8 74.3
148 62.8 31.6 94.8

Manual Integrations
APPROVED

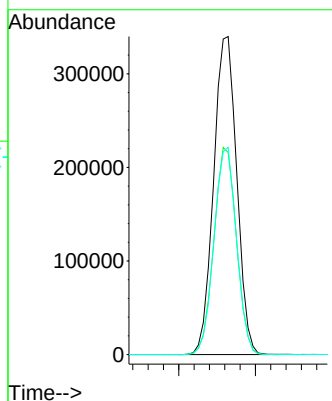
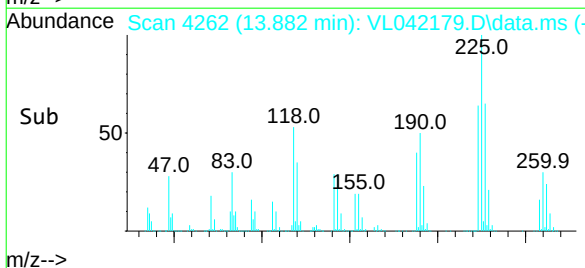
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

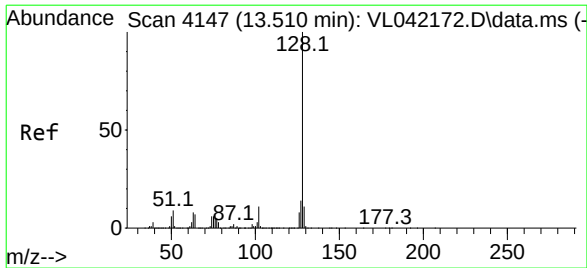


#78
Hexachloro-1,3-Butadiene
Concen: 7.776 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23



Tgt Ion:225 Resp: 356386
Ion Ratio Lower Upper
225 100
223 63.4 50.6 76.0
227 63.4 51.2 76.8





#79

Naphthalene

Concen: 8.385 ppbv

RT: 13.513 min Scan# 4147

Delta R.T. 0.003 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

Instrument :

MSVOA_L

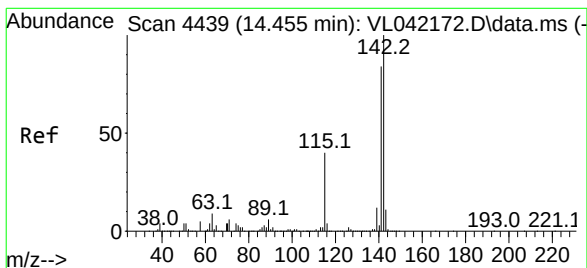
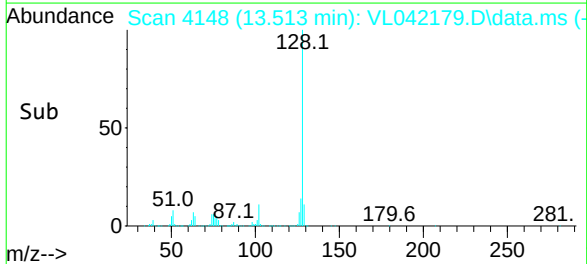
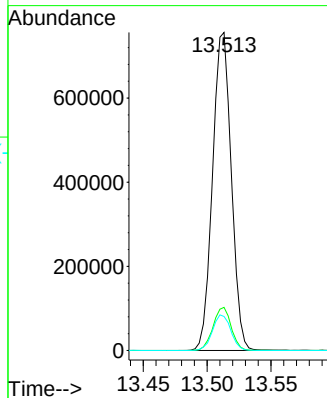
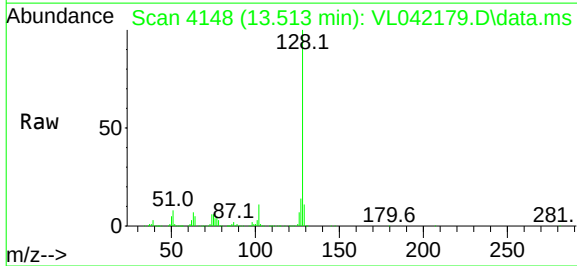
ClientSampleId :

ICVVL032725

Tgt Ion:	128	Resp:	773311
Ion Ratio	Lower	Upper	
128	100		
127	13.6	10.8	16.2
129	10.7	9.0	13.4

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#80

Naphthalene, 2-methyl-

Concen: 7.151 ppbv

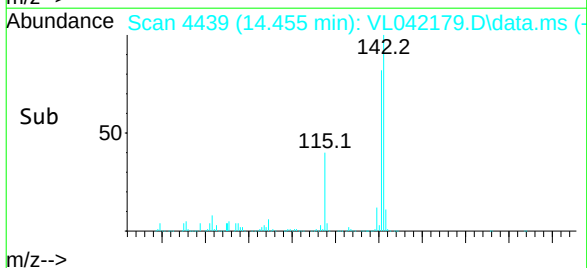
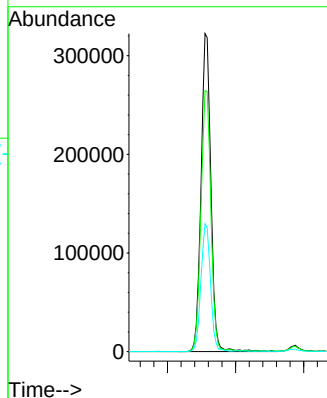
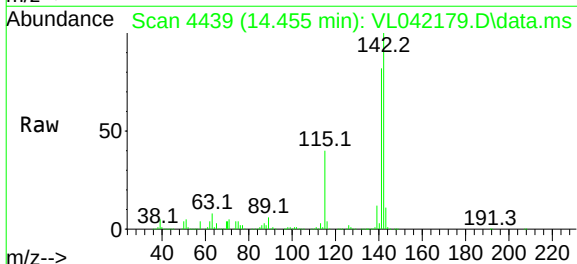
RT: 14.455 min Scan# 4439

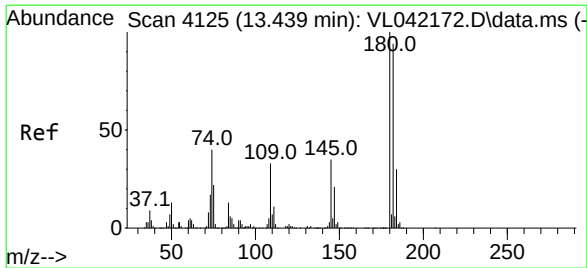
Delta R.T. -0.000 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

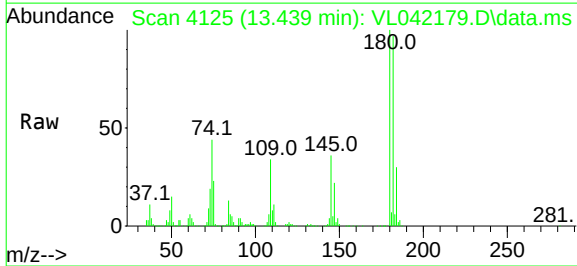
Tgt Ion:	142	Resp:	323443
Ion Ratio	Lower	Upper	
142	100		
141	83.5	66.3	99.5
115	39.8	31.6	47.4





#81
 1,2,4-Trichlorobenzene
 Concen: 8.553 ppbv
 RT: 13.439 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VL042179.D
 Acq: 27 Mar 2025 12:23

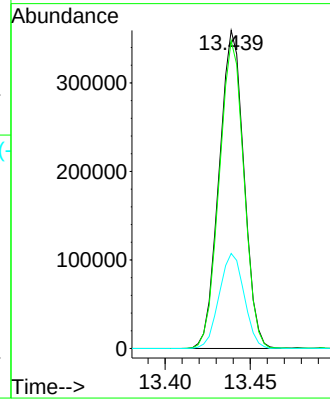
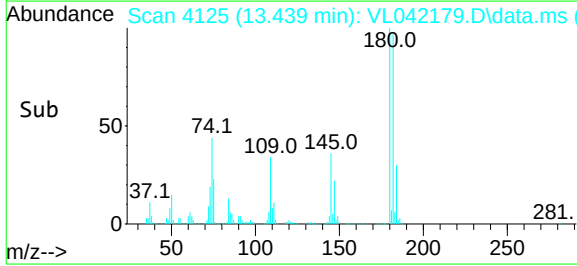
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL032725



Tgt Ion:	180	Resp:	363863
Ion Ratio	Lower	Upper	
180	100		
182	96.2	75.1	112.7
184	30.1	24.4	36.6

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 : 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)
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

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\

Method File : VL041725AIR.M

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

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

Response Via : Initial Calibration

Calibration Files

0.03=VL042354.D 0.1 =VL042353.D 0.5 =VL042352.D 1 =VL042351.D 2 =VL042350.D 10 =VL042349.D 15 =VL042355.D

Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD

1) I Bromochloromethane	-----ISTD-----								
2) T Dichlorodifluo...			1.831	1.837	1.827	1.658	1.682	1.767	5.05
3) Chlorodifluoro...			1.876	1.657	1.698	1.573	1.608	1.682	7.01
4) Chloromethane			0.752	0.725	0.701	0.652	0.665	0.699	5.93
5) T Vinyl Chloride	1.002	0.911	0.731	0.709	0.689	0.638	0.647	0.761	18.39
6) T Bromomethane			0.397	0.330	0.300	0.304	0.303	0.327	12.56
7) Chloroethane			0.303	0.287	0.280	0.253	0.255	0.275	7.76
8) T Dichlorotetra...			1.556	1.550	1.581	1.432	1.465	1.517	4.25
9) T Propene			0.880	0.797	0.758	0.690	0.707	0.766	9.95
10) T Heptane			2.444	2.296	2.209	1.884	1.931	2.153	11.14
11) T Trichlorofluor...			1.684	1.806	1.746	1.567	1.597	1.680	5.95
12) T 1,1,2-Trichlor...			1.389	1.439	1.437	1.281	1.323	1.374	5.11
13) Ethanol			0.275	0.139	0.123	0.035	0.036	0.122	80.54
14) T Bromoethene			0.537	0.545	0.530	0.490	0.487	0.518	5.24
15) T Acetone			1.968	1.895	1.743	1.263	1.316	1.637	20.03
16) T 1,3-Butadiene			1.015	0.836	0.735	0.651	0.678	0.783	18.90
17) tert-Butyl alc...			2.263	2.132	2.103	1.804	1.841	2.029	9.76
18) T 1,1-Dichloroet...			0.735	0.635	0.637	0.583	0.618	0.642	8.79
19) T Isopropyl Alcohol			1.050	0.980	0.897	0.821	0.798	0.909	11.66
20) T Methylene Chlo...			0.875	0.728	0.582	0.498	0.523	0.641	24.71
21) T Allyl Chloride			1.276	1.213	1.110	0.973	1.080	1.130	10.44
22) T trans-1,2-Dich...			0.814	0.759	0.736	0.664	0.681	0.731	8.32
23) T Vinyl Acetate			0.656	0.744	0.749	0.555	0.610	0.663	12.72
24) T 1,1-Dichloroet...			1.452	1.469	1.383	1.284	1.352	1.388	5.43
25) T Ethyl Acetate			4.428	4.147	4.118	3.677	3.812	4.036	7.34
26) T Hexane			1.899	1.719	1.625	1.424	1.499	1.633	11.45
27) T Carbon Disulfide			1.903	1.670	1.785	1.668	1.718	1.749	5.63
28) T Methyl tert-Bu...			1.134	1.141	1.132	0.940	1.004	1.070	8.64
29) T Chloroform			2.458	2.333	2.392	2.145	2.215	2.309	5.54
30) T Cyclohexane			1.422	1.333	1.347	1.252	1.249	1.320	5.50
31) T cis-1,2-Dichlo...			1.588	1.603	1.593	1.459	1.522	1.553	3.95
32) T 1,1,1-Trichlor...	3.110	2.840	2.557	2.549	2.493	2.274	2.369	2.599	11.03

33) I 1,4-Difluorobenzene	-----ISTD-----								
34) T 2-Butanone			0.886	0.826	0.818	0.687	0.737	0.791	9.94
35) T Carbon Tetrach...	1.319	0.914	0.832	0.830	0.847	0.770	0.823	0.905	20.70
36) T Benzene			1.146	1.075	1.121	1.002	1.048	1.079	5.31
37) T 1,2-Dichloroet...			0.691	0.647	0.666	0.592	0.641	0.647	5.63
38) T Trichloroethene	0.643	0.505	0.443	0.448	0.447	0.395	0.419	0.471	17.59
39) T 1,2-Dichloropr...			0.441	0.413	0.405	0.370	0.381	0.402	6.97

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\										
Method File : VL041725AIR.M										
40) T	1,4-Dioxane			0.263	0.243	0.232	0.182	0.185	0.221	16.27
41) T	Tetrahydrofuran			0.518	0.480	0.468	0.409	0.432	0.461	9.20
42) T	Bromodichlorom...			0.943	0.909	0.912	0.852	0.889	0.901	3.71
43) T	Methyl Methacr...			0.545	0.520	0.495	0.430	0.441	0.486	10.21
44) T	2,2,4-Trimethy...			1.935	1.916	1.962	1.708	1.794	1.863	5.79
45) T	t-1,3-Dichloro...			0.514	0.510	0.509	0.459	0.491	0.497	4.60
46) T	cis-1,3-Dichlo...			0.613	0.617	0.637	0.570	0.603	0.608	4.05
47) T	1,1,2-Trichlor...			0.423	0.429	0.420	0.376	0.399	0.410	5.32
48) T	Dibromochlorom...			0.743	0.721	0.746	0.679	0.729	0.723	3.70
49) T	Bromoform			0.622	0.623	0.675	0.616	0.627	0.633	3.82
50) T	4-Methyl-2-Pen...			1.541	1.382	1.435	1.082	1.132	1.314	15.12
51) T	2-Hexanone			1.341	1.311	1.411	0.893	0.938	1.179	20.69
52) T	Tetrachloroethene	0.543	0.452	0.420	0.393	0.391	0.357	0.363	0.417	15.46
53) T	Toluene			1.371	1.295	1.370	1.193	1.244	1.294	6.03
54) T	1,2-Dibromoethane		0.621	0.582	0.605	0.606	0.539	0.562	0.586	5.27
-----ISTD-----										
55) I	Chlorobenzene-d5									
56) T	1,1,1,2-Tetrac...			0.621	0.640	0.635	0.550	0.581	0.605	6.37
57) T	Chlorobenzene			1.129	1.067	1.068	0.956	0.981	1.040	6.79
58) T	Ethyl Benzene			2.029	2.088	2.068	1.832	1.890	1.981	5.73
59) T	m/p-Xylene			1.685	1.682	1.658	1.456	1.500	1.596	6.86
60) T	o-Xylene			1.740	1.697	1.668	1.442	1.490	1.607	8.25
61) T	Styrene			0.792	0.776	0.808	0.726	0.734	0.767	4.68
62) T	Isopropylbenzene			2.517	2.470	2.439	2.170	2.202	2.360	6.83
63) T	1,1,2,2-Tetrac...	1.407	1.176	0.990	0.985	0.968	0.873	0.892	1.042	18.12
64) T	n-propylbenzene			0.645	0.605	0.610	0.542	0.564	0.593	6.81
65) T	tert-Butylbenzene			2.319	2.358	2.315	1.907	1.945	2.169	10.27
66) T	Benzyl Chloride			0.241	0.239	0.258	0.246	0.208	0.238	7.84
67) T	sec-Butylbenzene			3.242	3.219	3.253	2.662	2.709	3.017	10.05
68) S	1-Bromo-4-Fluo...	0.819	0.814	0.824	0.818	0.822	0.831	0.825	0.822	0.69
69) T	p-Isopropyltol...			2.834	2.818	2.811	2.304	2.338	2.621	10.46
70) T	n-Butylbenzene			2.985	2.926	2.953	2.370	2.414	2.730	11.33
71) T	2-Chlorotoluene			1.972	1.924	1.920	1.695	1.744	1.851	6.65
72) T	4-Ethyltoluene			2.055	2.118	2.054	1.765	1.833	1.965	7.92
73) T	1,3,5-Trimethy...			1.894	1.851	1.841	1.517	1.570	1.735	10.19
74) T	1,2,4-Trimethy...			2.348	2.245	2.168	1.671	1.698	2.026	15.71
75) T	1,3-Dichlorobe...			1.119	1.121	1.119	0.948	0.960	1.053	8.64
76) T	1,4-Dichlorobe...			1.138	1.115	1.122	0.944	0.974	1.059	8.69
77) T	1,2-Dichlorobe...			1.085	1.093	1.114	0.904	0.924	1.024	9.88
78) T	Hexachloro-1,3...			1.163	1.136	1.135	0.863	0.874	1.034	14.66
79) T	Naphthalene		2.433	2.395	2.756	2.909	2.004	2.040	2.423	15.11
80) T	Naphthalene,2-...			1.311	1.534	1.777	1.115	1.168	1.381	19.88
81) T	1,2,4-Trichlor...			1.026	1.117	1.224	0.905	0.929	1.040	12.75

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042349.D
 Acq On : 17 Apr 2025 09:44
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

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

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	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-Trichlorotrifluoro...	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 TO-15 Instrument: MSVOA_L Fri Aug 2025

QLast Update : Fri Apr 18 01:24:29 2025

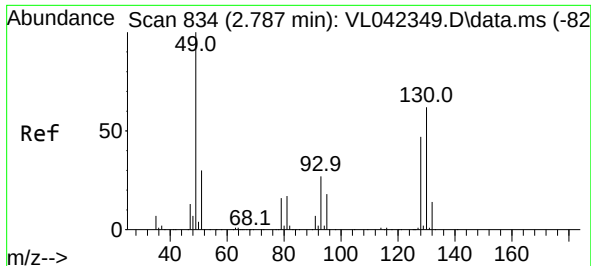
Response via : Initial Calibration

Manual Integrations APPROVED

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

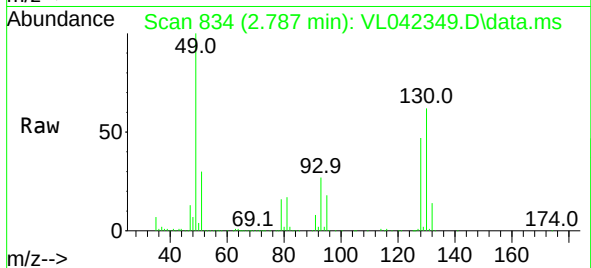
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.600	75	208811	9.377	ppbv	100
47) 1,1,2-Trichloroethane	6.580	97	137898	9.181	ppbv	100
48) Dibromochloromethane	7.386	129	248954	9.388	ppbv	100
49) Bromoform	9.480	173	225706	9.734	ppbv	100
50) 4-Methyl-2-Pentanone	5.752	43	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

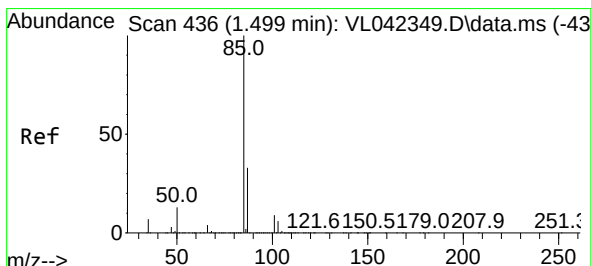
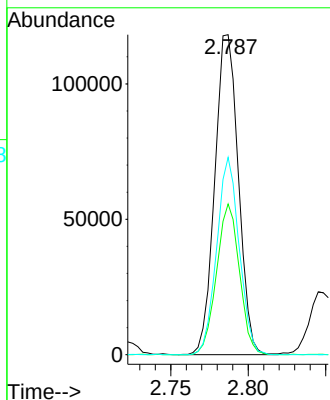
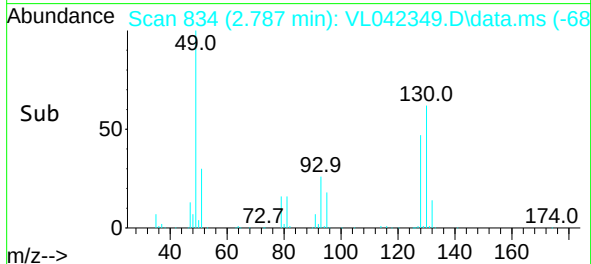
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



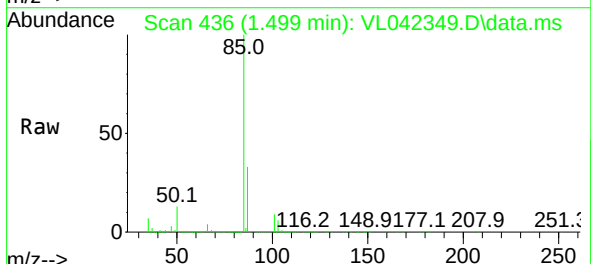
Tgt Ion: 49 Resp: 12545
Ion Ratio Lower Upper
49 100
128 45.6 22.8 68.4
130 58.7 29.3 88.0

Manual Integrations
APPROVED

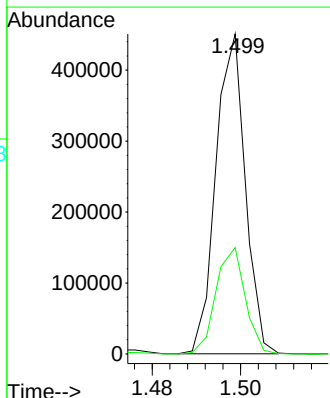
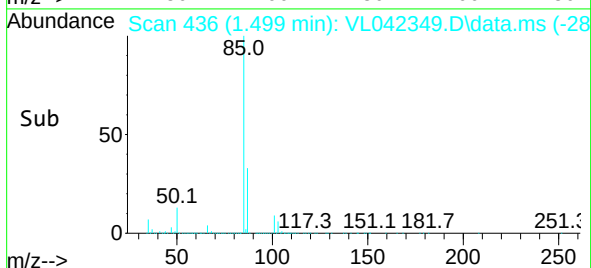
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

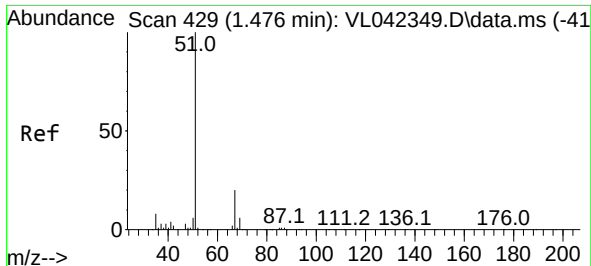


#2
Dichlorodifluoromethane
Concen: 9.382 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44



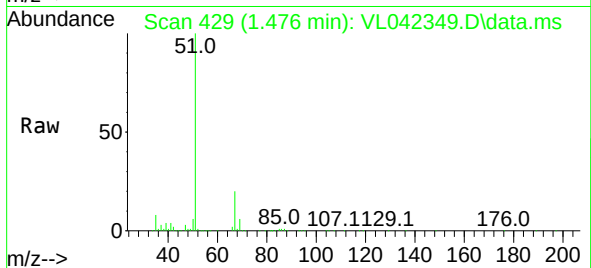
Tgt Ion: 85 Resp: 207962
Ion Ratio Lower Upper
85 100
87 33.2 26.6 39.8





#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

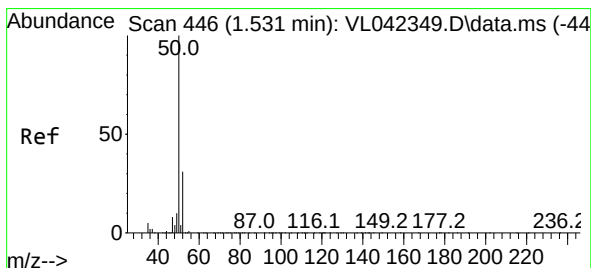
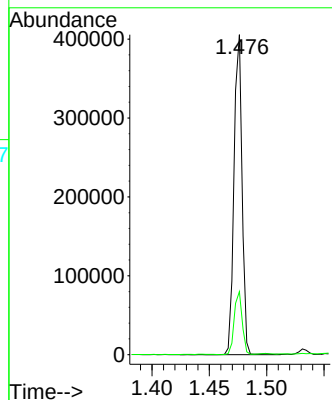
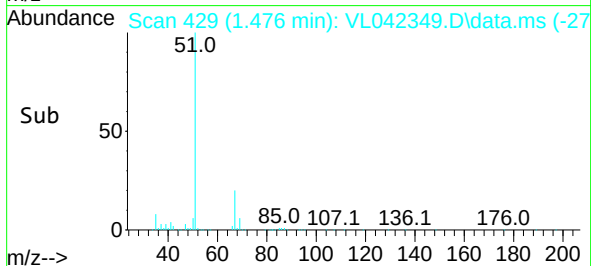
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



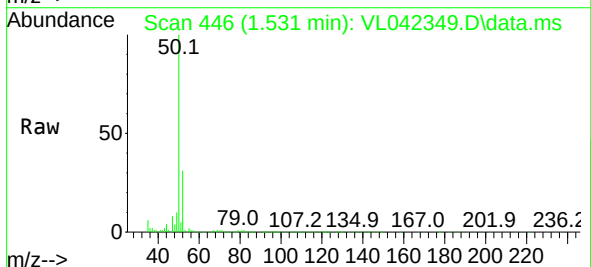
Tgt Ion: 51 Resp: 197334
Ion Ratio Lower Upper
51 100
67 20.3 16.2 24.4

Manual Integrations
APPROVED

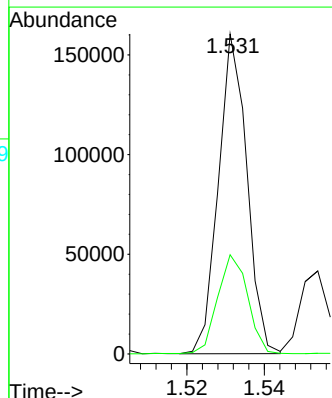
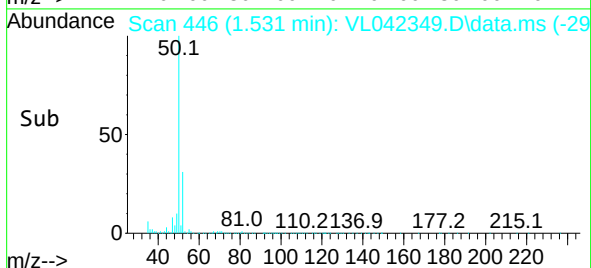
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

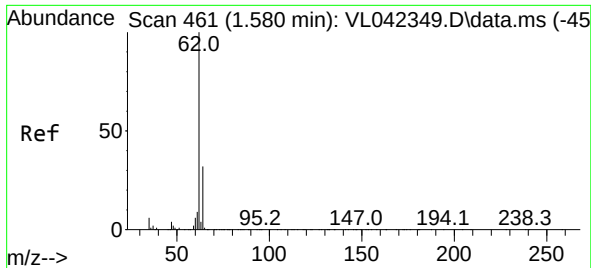


#4
Chloromethane
Concen: 9.330 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44



Tgt Ion: 50 Resp: 81843
Ion Ratio Lower Upper
50 100
52 30.9 24.7 37.1





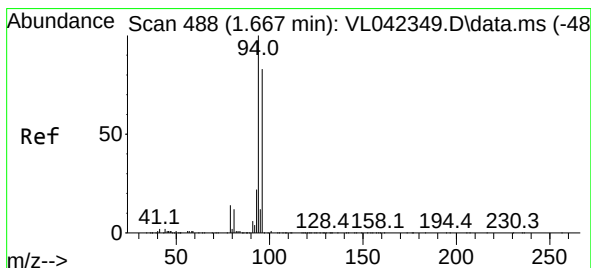
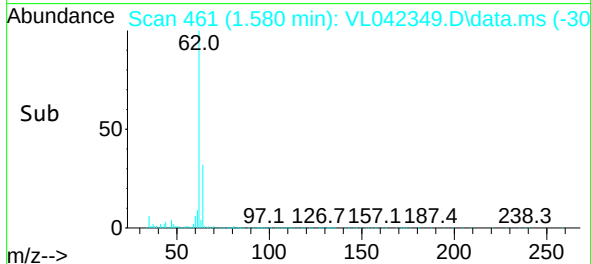
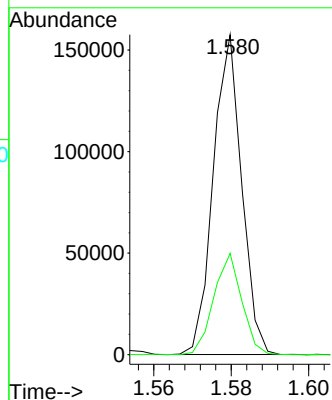
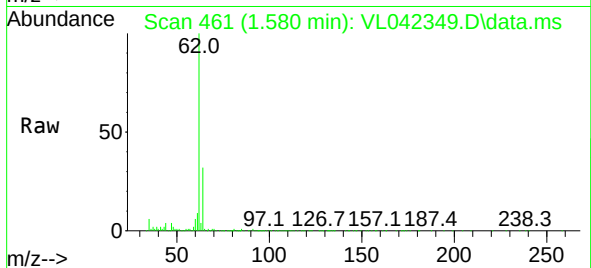
#5
 Vinyl Chloride
 Concen: 8.385 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. 0.000 min
 Lab File: VL042349.D
 Acq: 17 Apr 2025 09:44

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tgt Ion: 62 Resp: 80068
 Ion Ratio Lower Upper
 62 100
 64 31.7 25.4 38.0

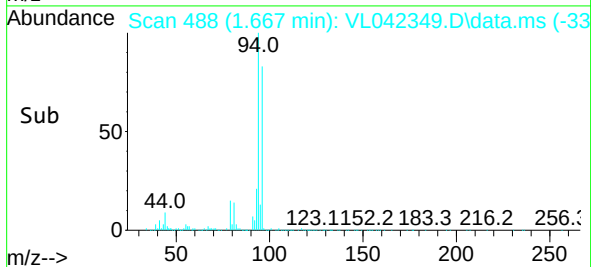
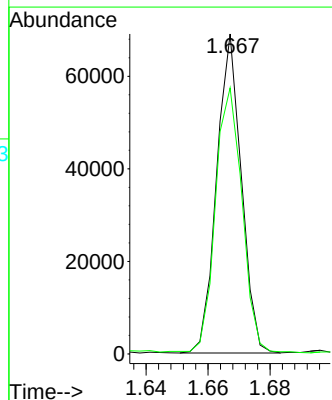
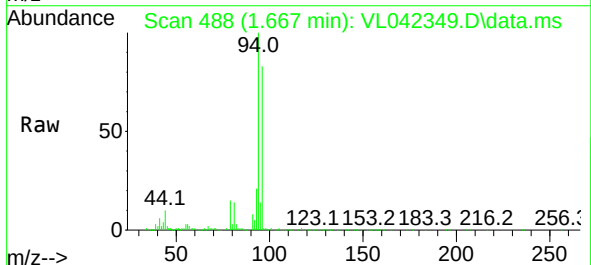
Manual Integrations
 APPROVED

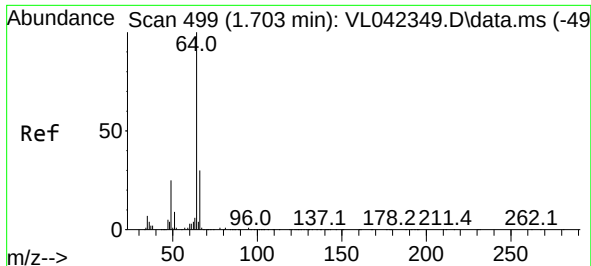
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



#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

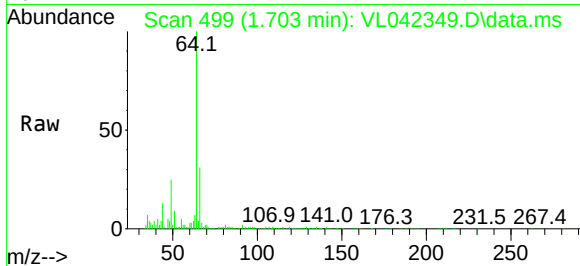
Tgt Ion: 94 Resp: 38128
 Ion Ratio Lower Upper
 94 100
 96 82.7 66.2 99.2





#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

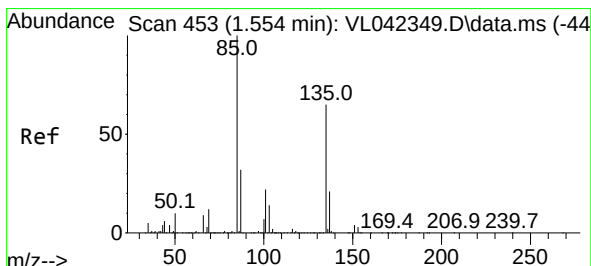
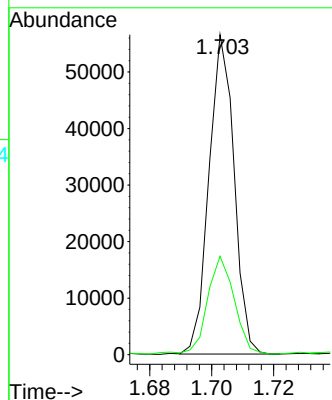
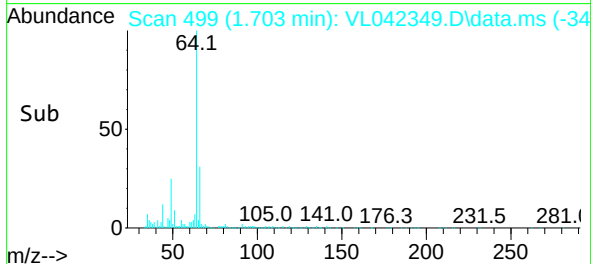
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



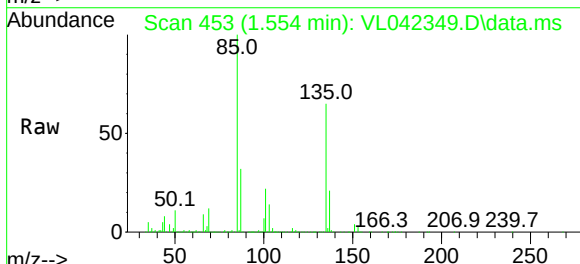
Tgt Ion: 64 Resp: 3170
Ion Ratio Lower Upper
64 100
66 30.8 24.6 37.0

Manual Integrations
APPROVED

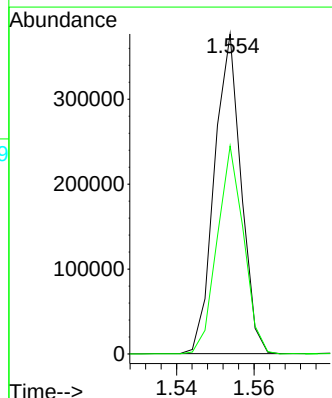
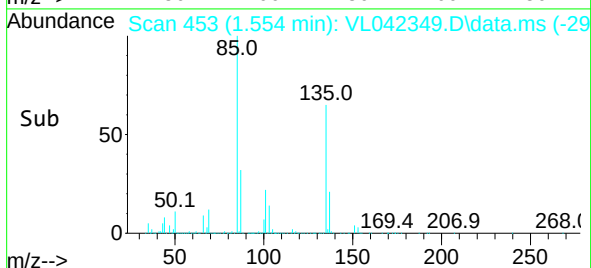
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

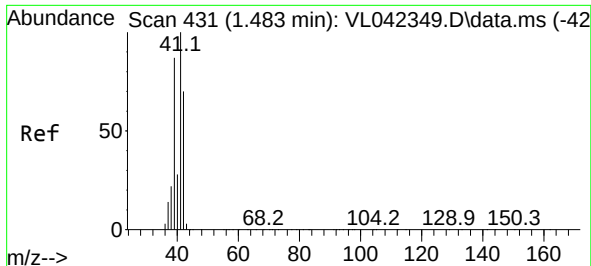


#8
Dichlorotetrafluoroethane
Concen: 9.442 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44



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

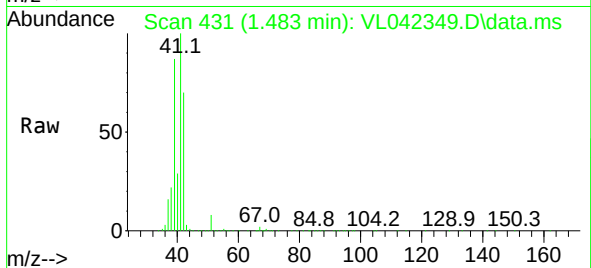
Acq: 17 Apr 2025 09:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010



Tgt Ion: 41 Resp: 86530

Ion Ratio Lower Upper

41 100

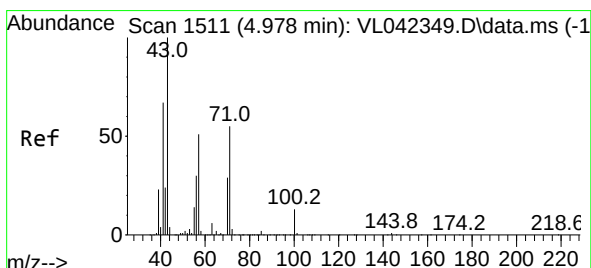
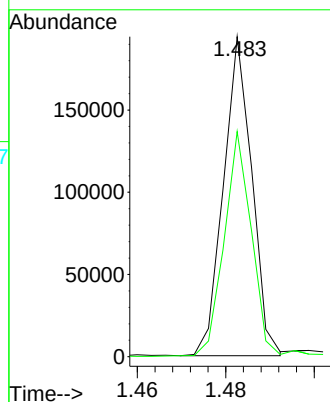
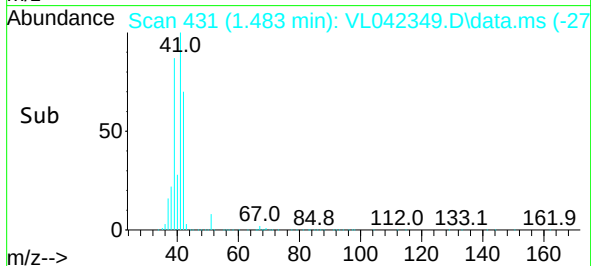
42 70.3 56.2 84.4

Manual Integrations

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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

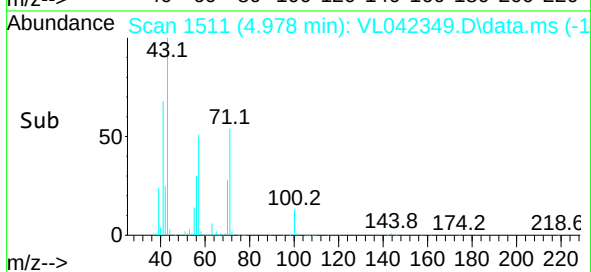
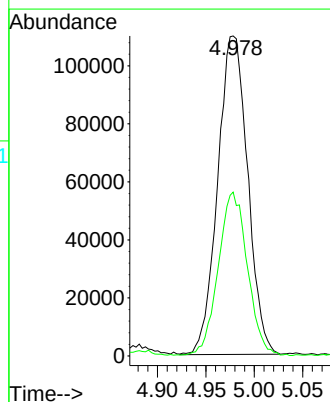
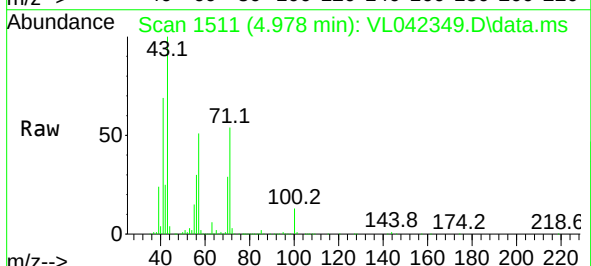
Acq: 17 Apr 2025 09:44

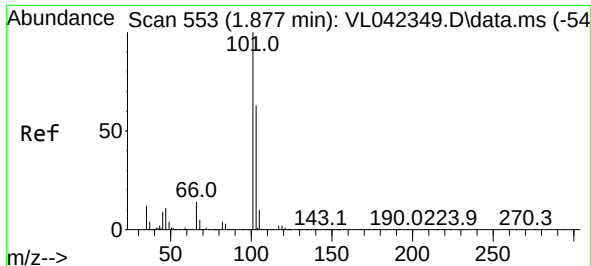
Tgt Ion: 43 Resp: 236341

Ion Ratio Lower Upper

43 100

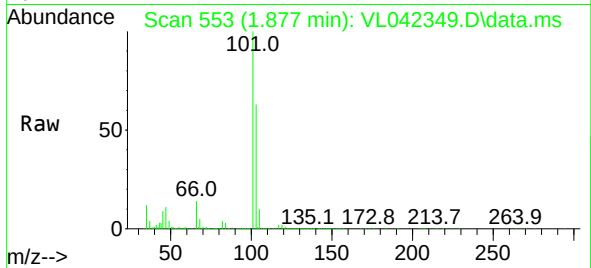
57 49.9 39.9 59.9





#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

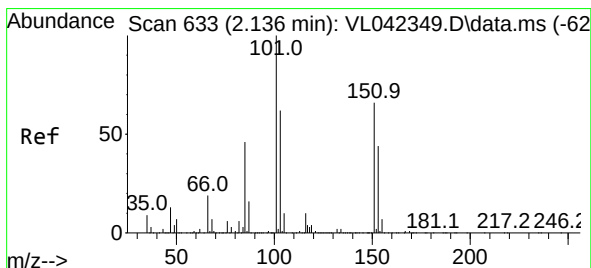
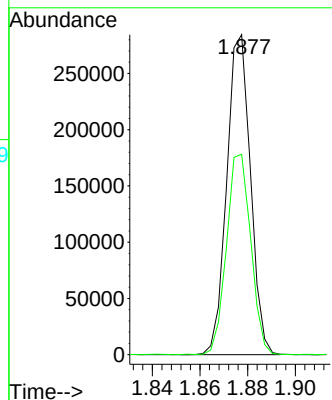
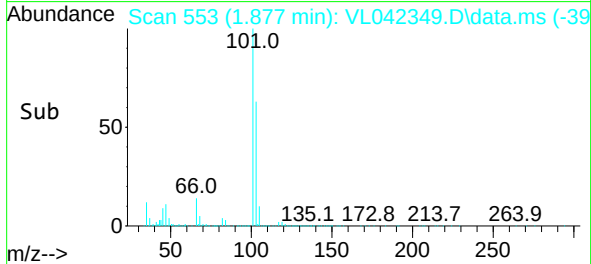
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



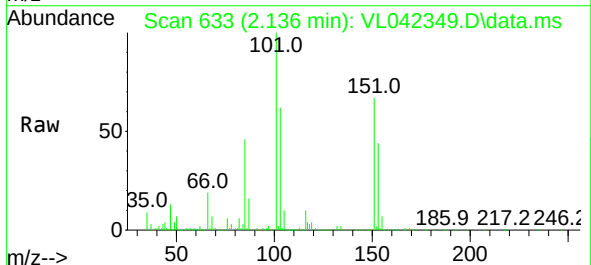
Tgt Ion:101 Resp: 196590
Ion Ratio Lower Upper
101 100
103 62.6 50.1 75.1

Manual Integrations
APPROVED

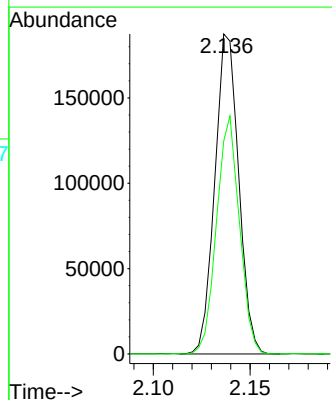
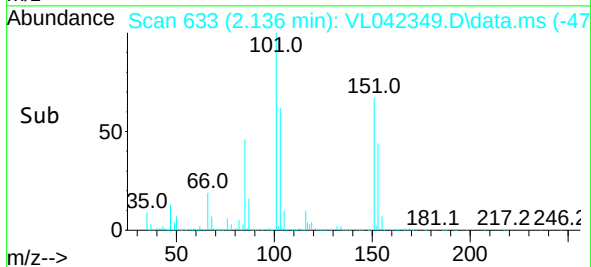
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

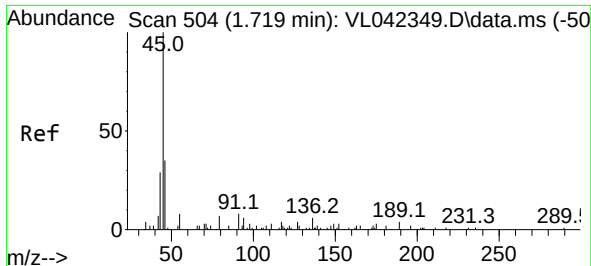


#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.323 ppbv
RT: 2.136 min Scan# 633
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44



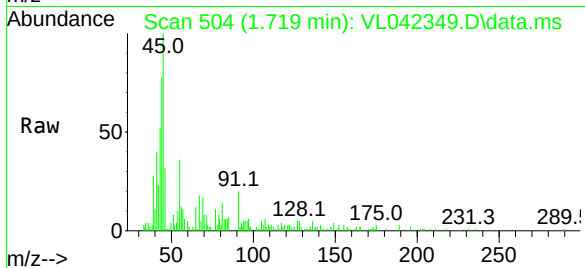
Tgt Ion:101 Resp: 160682
Ion Ratio Lower Upper
101 100
151 71.3 57.0 85.6





#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

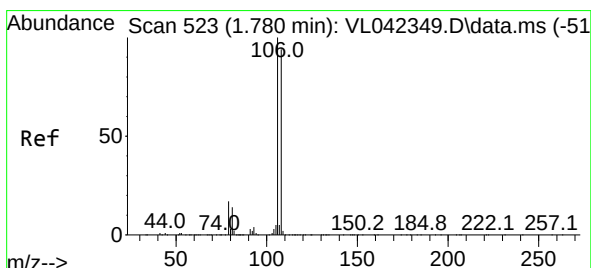
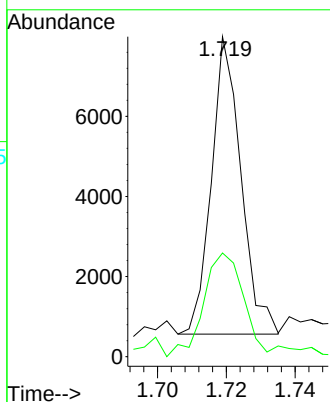
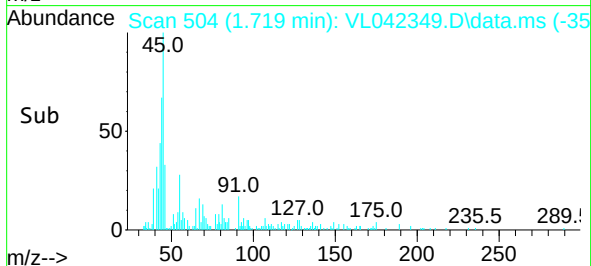
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion: 45 Resp: 4439
Ion Ratio Lower Upper
45 100
46 54.8 21.9 87.7

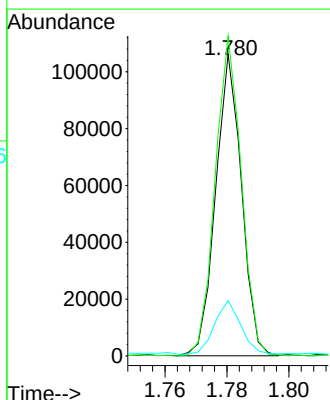
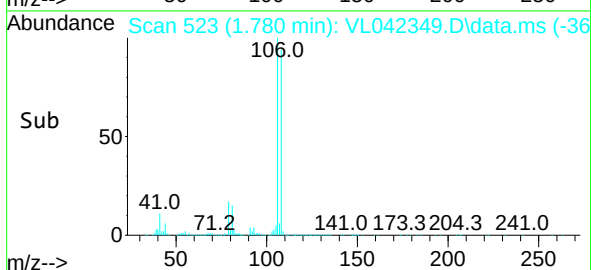
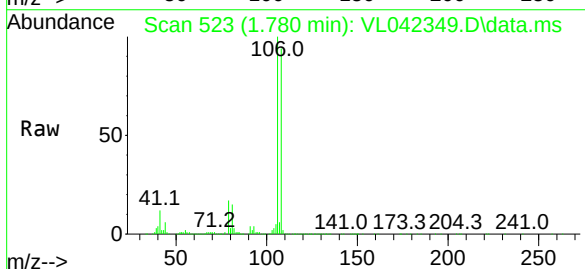
Manual Integrations
APPROVED

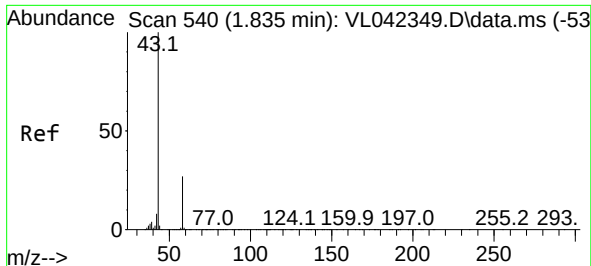
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

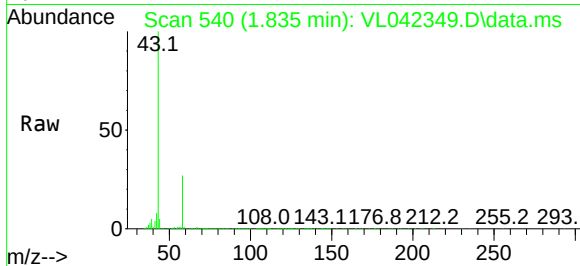
Tgt Ion:108 Resp: 61493
Ion Ratio Lower Upper
108 100
106 107.4 85.9 128.9
79 17.4 13.9 20.9





#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

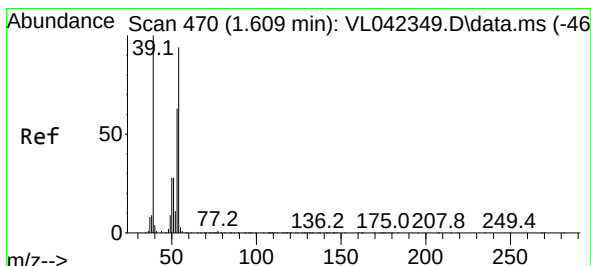
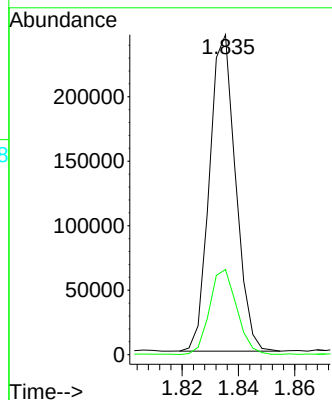
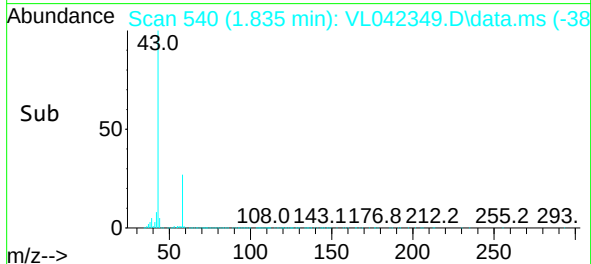
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



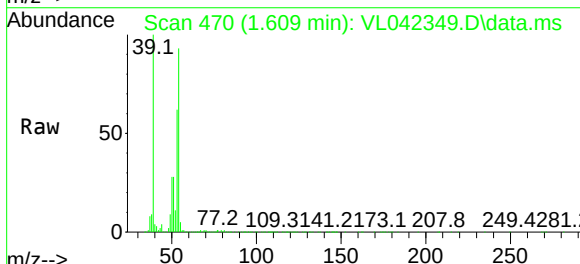
Tgt Ion: 43 Resp: 158490
Ion Ratio Lower Upper
43 100
58 28.0 22.4 33.6

Manual Integrations
APPROVED

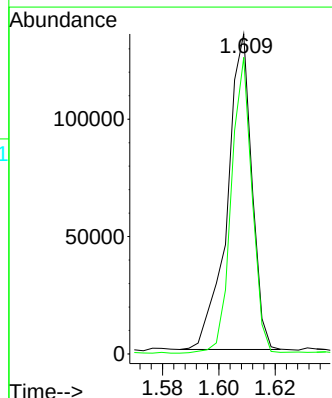
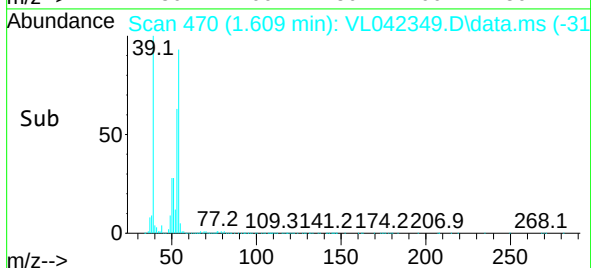
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

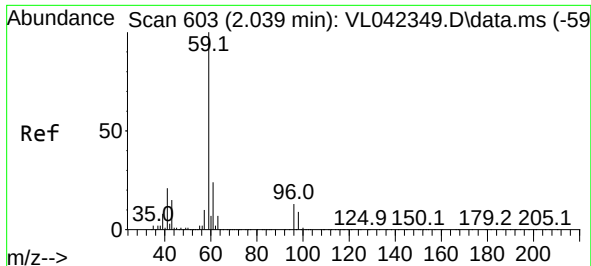


#16
1,3-Butadiene
Concen: 8.470 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44



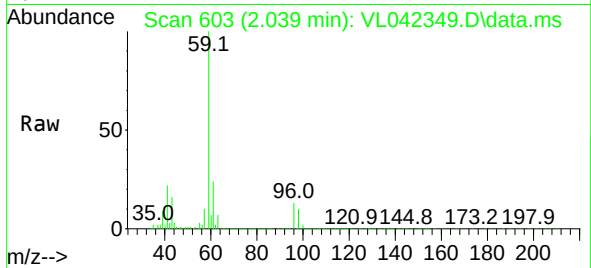
Tgt Ion: 39 Resp: 81688
Ion Ratio Lower Upper
39 100
54 81.1 64.9 97.3





#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

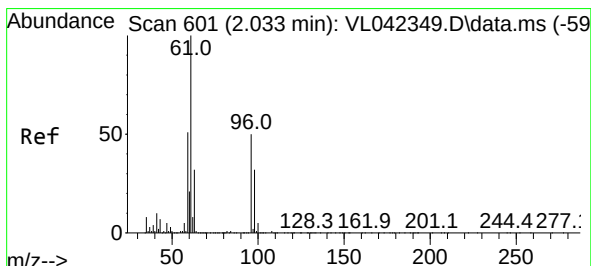
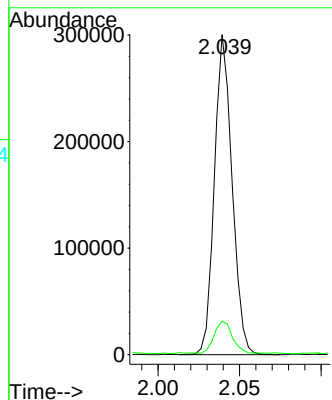
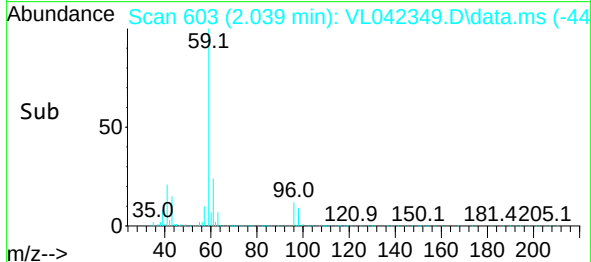
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



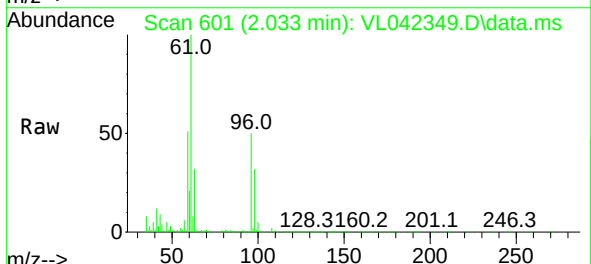
Tgt Ion: 59 Resp: 226280
 Ion Ratio Lower Upper
 59 100
 57 10.9 8.7 13.1

Manual Integrations
 APPROVED

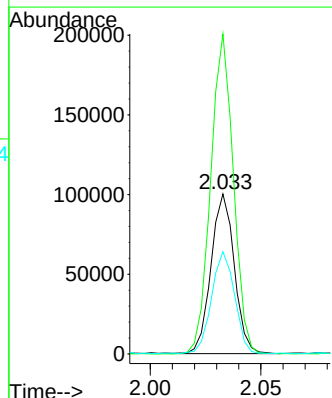
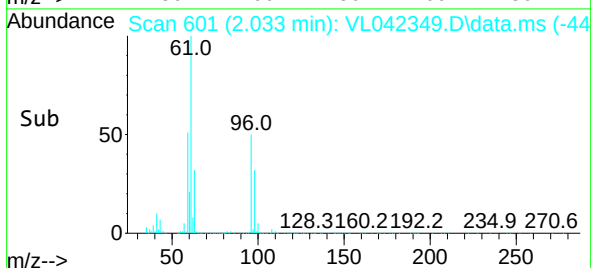
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

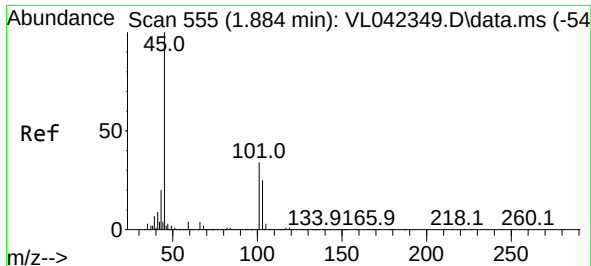


#18
 1,1-Dichloroethene
 Concen: 8.833 ppbv
 RT: 2.033 min Scan# 601
 Delta R.T. 0.000 min
 Lab File: VL042349.D
 Acq: 17 Apr 2025 09:44



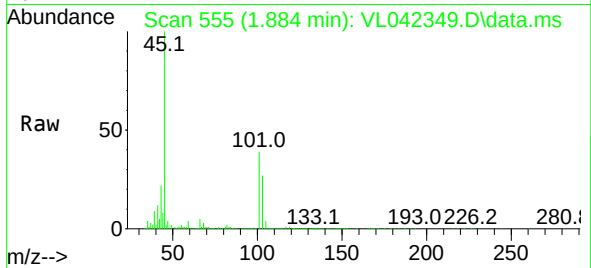
Tgt Ion: 96 Resp: 73186
 Ion Ratio Lower Upper
 96 100
 61 200.2 160.2 240.2
 98 63.7 51.0 76.4





#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

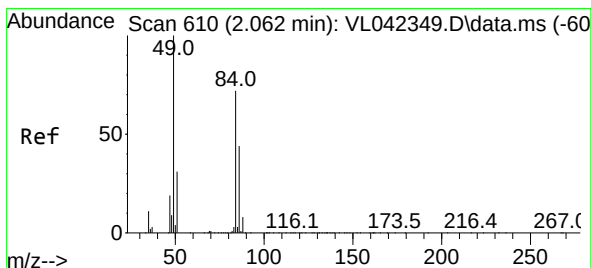
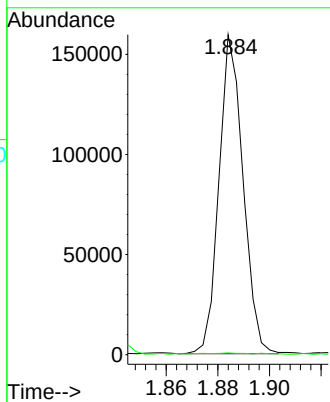
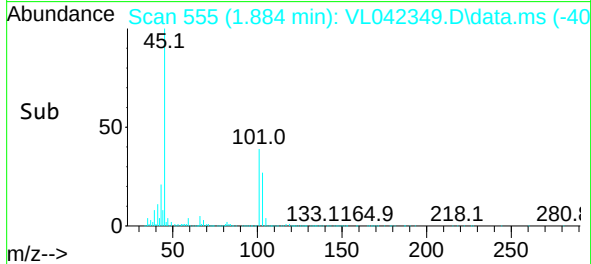
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



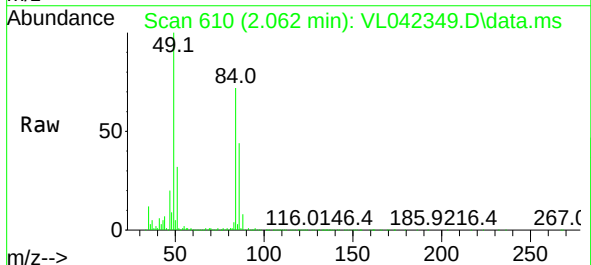
Tgt Ion: 45 Resp: 103029
Ion Ratio Lower Upper
45 100
58 43.1 34.5 51.7

Manual Integrations
APPROVED

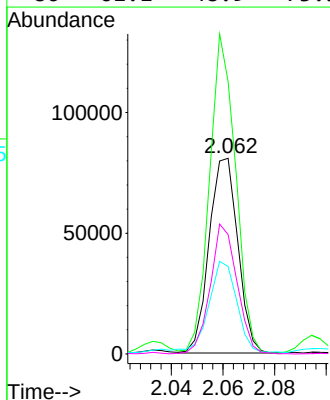
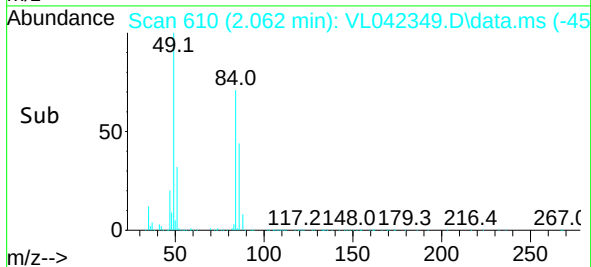
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

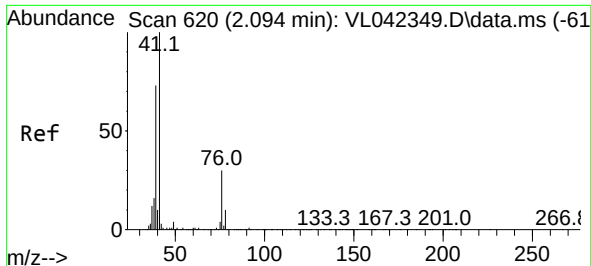


#20
Methylene Chloride
Concen: 7.760 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44



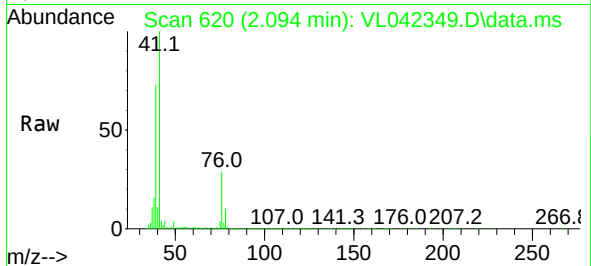
Tgt Ion: 84 Resp: 62414
Ion Ratio Lower Upper
84 100
49 139.5 111.6 167.4
51 43.9 35.1 52.7
86 61.1 48.9 73.3





#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

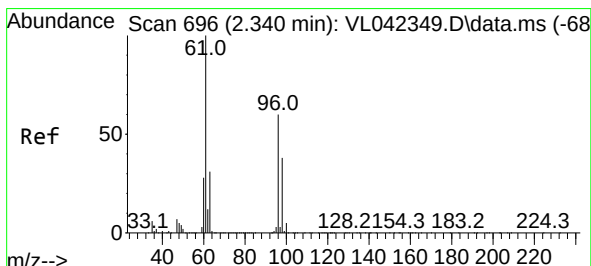
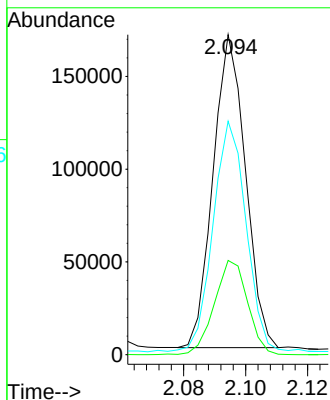
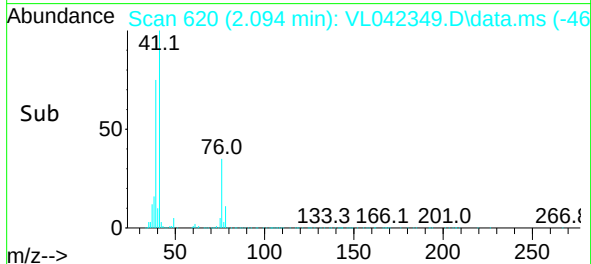
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



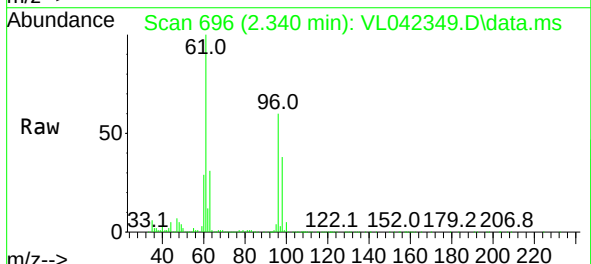
Tgt Ion: 41 Resp: 12211
 Ion Ratio Lower Upper
 41 100
 76 31.0 24.8 37.2
 39 75.7 60.6 90.8

Manual Integrations
 APPROVED

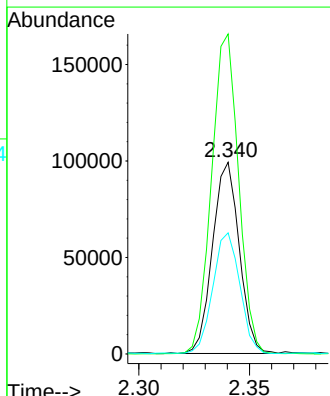
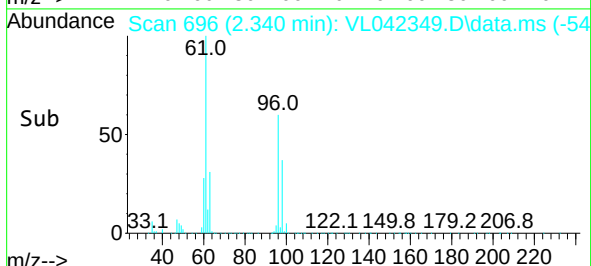
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

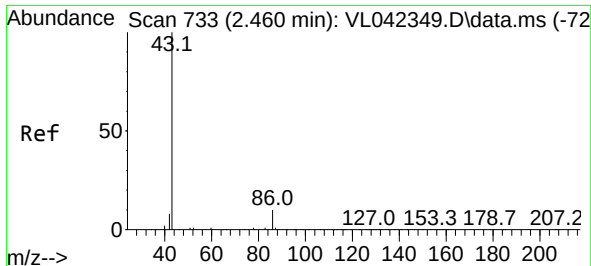


#22
 trans-1,2-Dichloroethene
 Concen: 9.084 ppbv
 RT: 2.340 min Scan# 696
 Delta R.T. 0.000 min
 Lab File: VL042349.D
 Acq: 17 Apr 2025 09:44



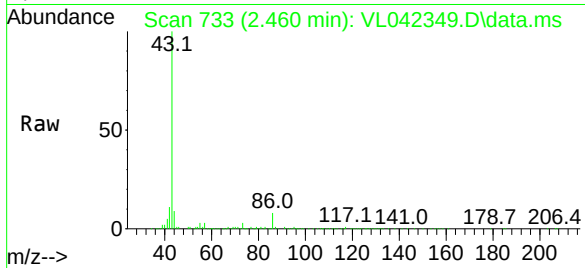
Tgt Ion: 96 Resp: 83278
 Ion Ratio Lower Upper
 96 100
 61 167.1 133.7 200.5
 98 62.9 50.3 75.5





#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

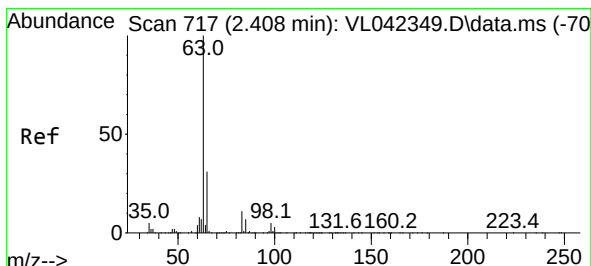
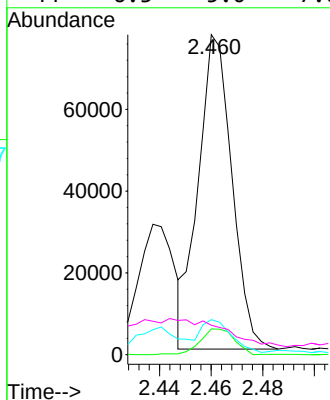
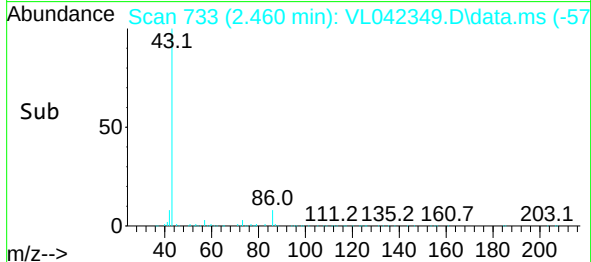
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010



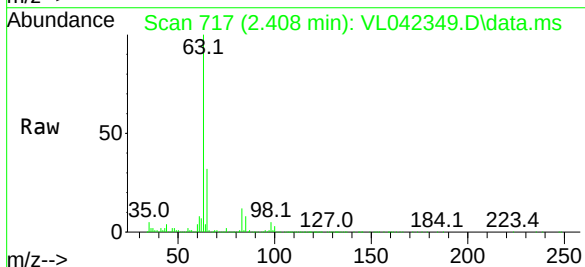
Tgt Ion: 43 Resp: 69649
 Ion Ratio Lower Upper
 43 100
 86 8.1 6.5 9.7
 42 9.8 7.8 11.8
 44 6.3 5.0 7.6

Manual Integrations
 APPROVED

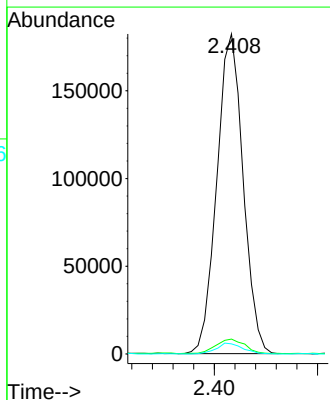
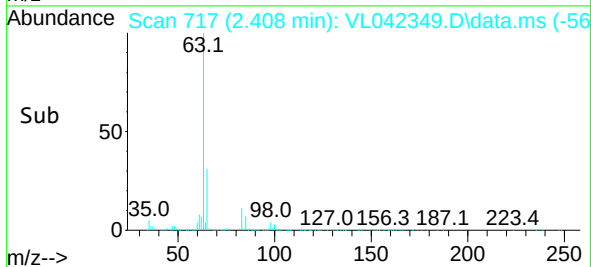
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

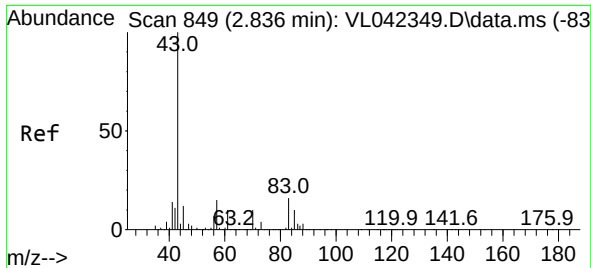


#24
 1,1-Dichloroethane
 Concen: 9.251 ppbv
 RT: 2.408 min Scan# 717
 Delta R.T. 0.000 min
 Lab File: VL042349.D
 Acq: 17 Apr 2025 09:44



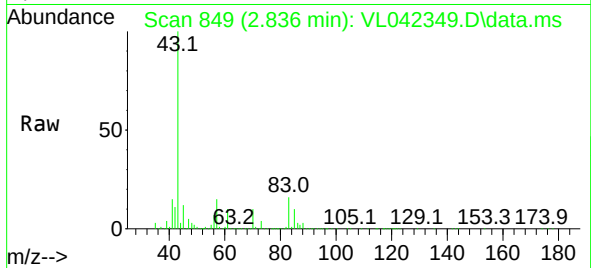
Tgt Ion: 63 Resp: 161102
 Ion Ratio Lower Upper
 63 100
 98 4.5 2.3 6.8
 100 3.2 1.6 4.8





#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

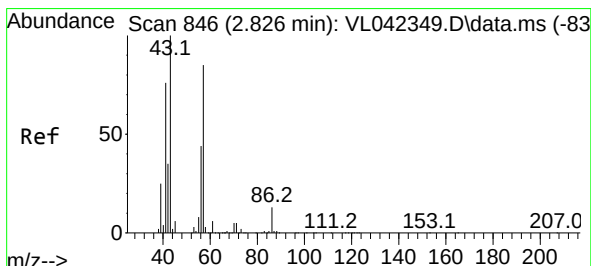
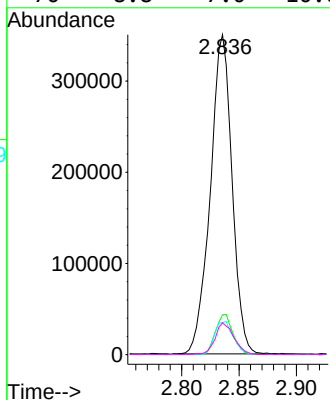
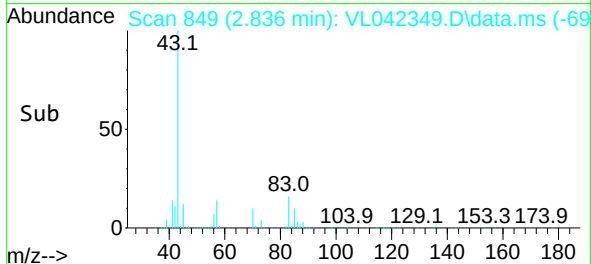


Tgt Ion: 43 Resp: 46131

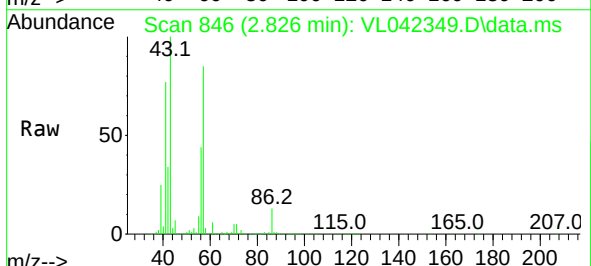
Ion	Ratio	Lower	Upper
43	100		
45	10.4	8.3	12.5
61	9.1	7.3	10.9
70	8.8	7.0	10.6

Manual Integrations
APPROVED

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

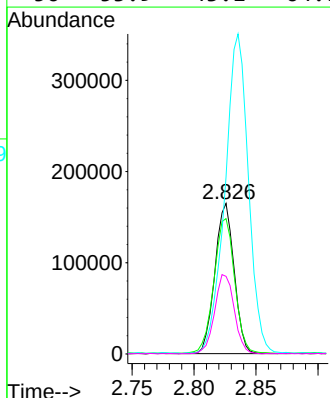
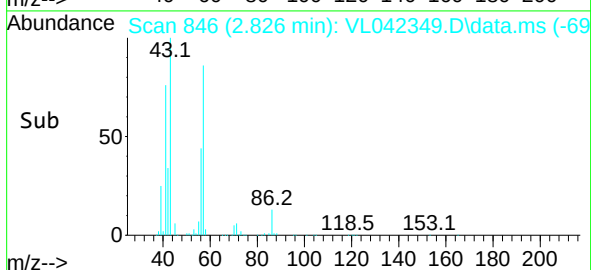


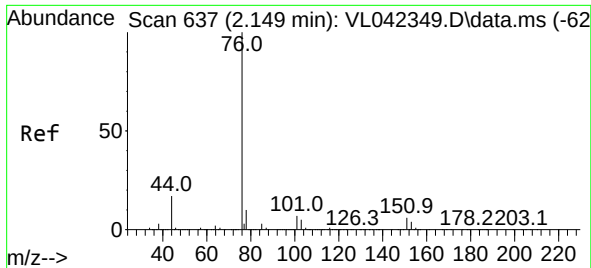
#26
Hexane
Concen: 8.720 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44



Tgt Ion: 57 Resp: 178691

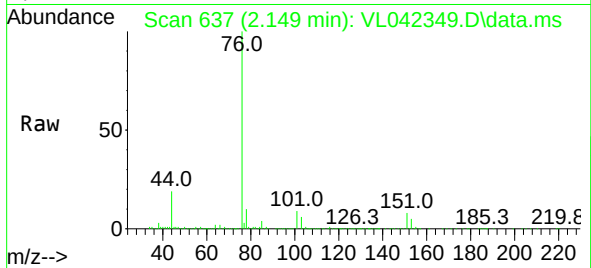
Ion	Ratio	Lower	Upper
57	100		
41	97.4	77.9	116.9
43	260.5	208.4	312.6
56	53.9	43.1	64.7





#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

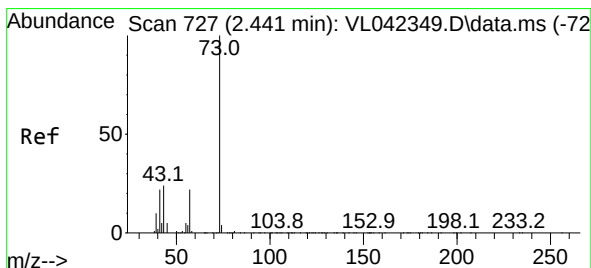
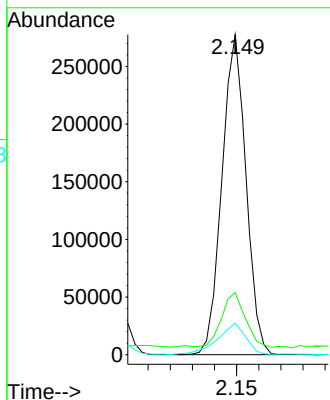
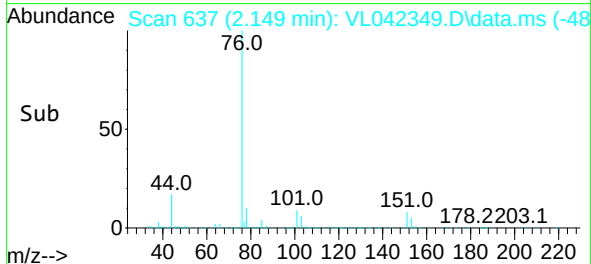
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



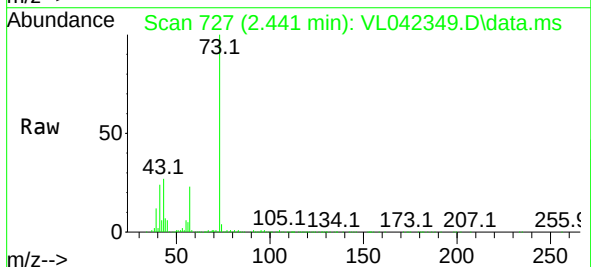
Tgt Ion: 76 Resp: 20929
Ion Ratio Lower Upper
76 100
44 19.4 15.5 23.3
78 11.6 9.3 13.9

Manual Integrations
APPROVED

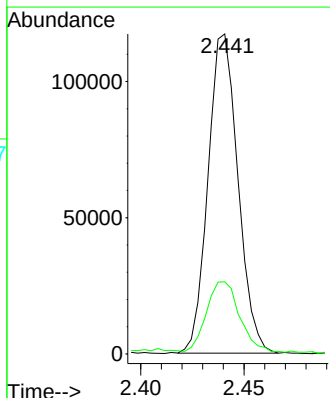
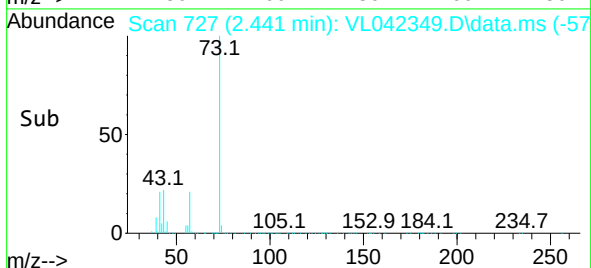
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

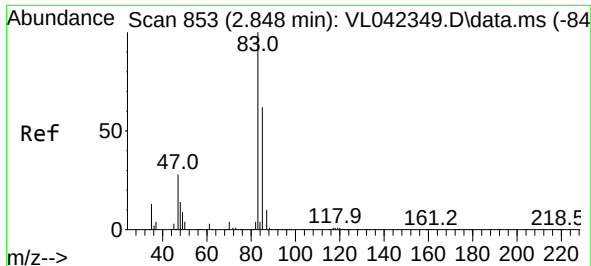


#28
Methyl tert-Butyl Ether
Concen: 8.783 ppbv
RT: 2.441 min Scan# 727
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44



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

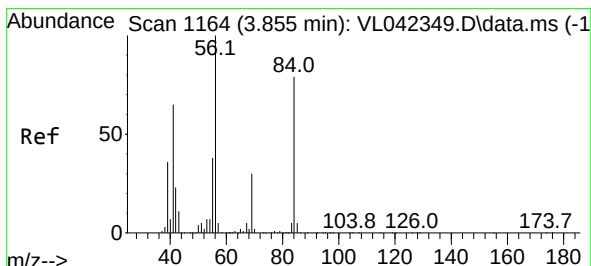
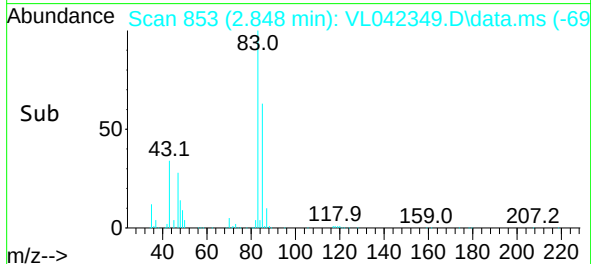
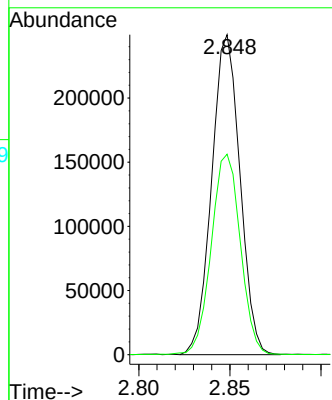
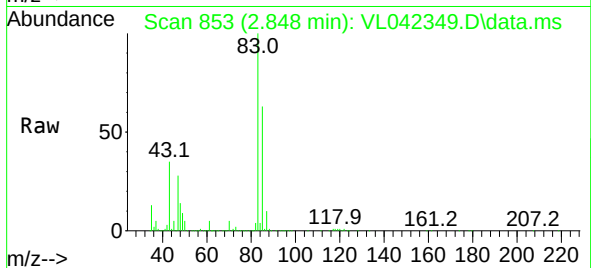
85 62.5 50.0 75.0

Manual Integrations

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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

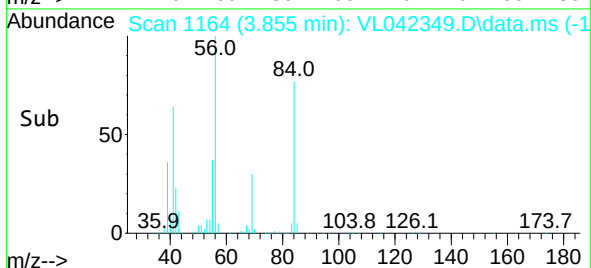
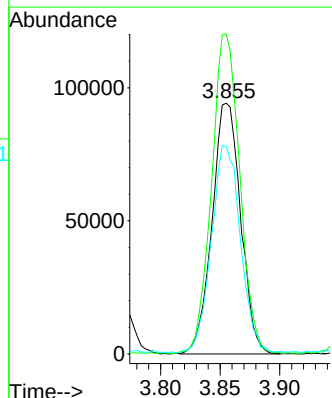
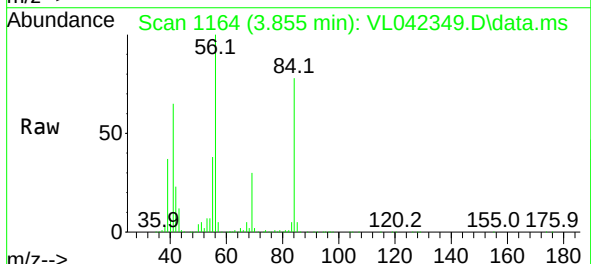
Tgt Ion: 84 Resp: 157035

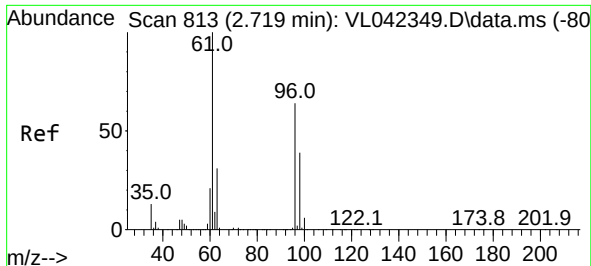
Ion Ratio Lower Upper

84 100

56 126.2 101.0 151.4

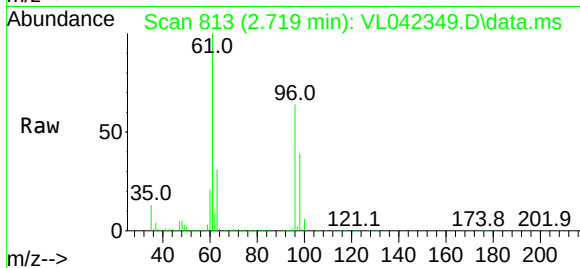
41 84.2 67.4 101.0





#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

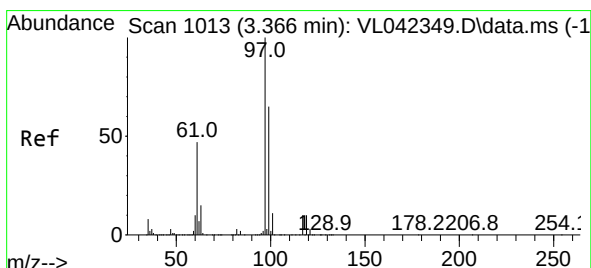
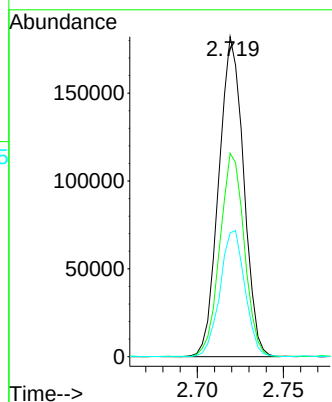
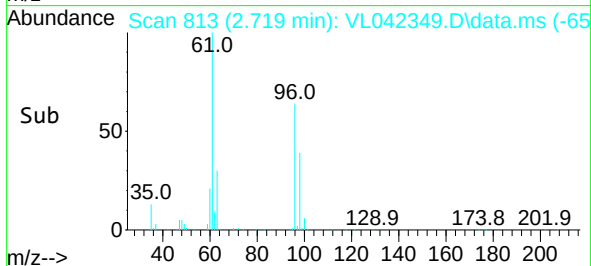
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



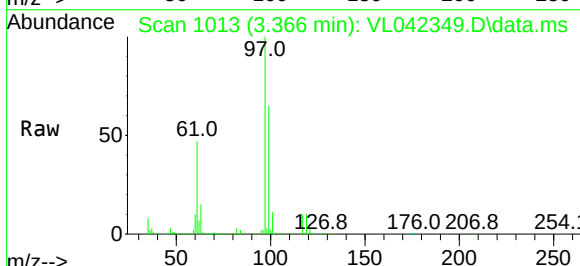
Tgt Ion: 61 Resp: 18308
 Ion Ratio Lower Upper
 61 100
 96 63.5 50.8 76.2
 98 38.6 30.9 46.3

Manual Integrations
 APPROVED

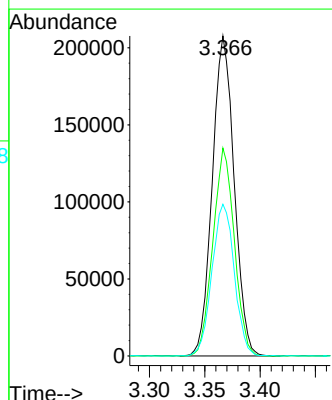
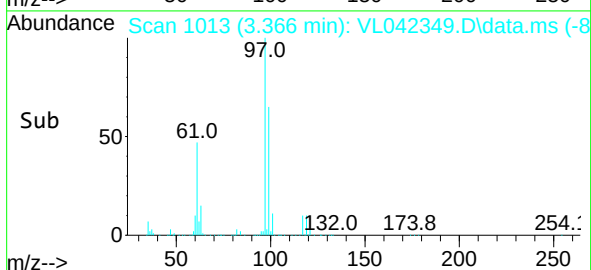
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

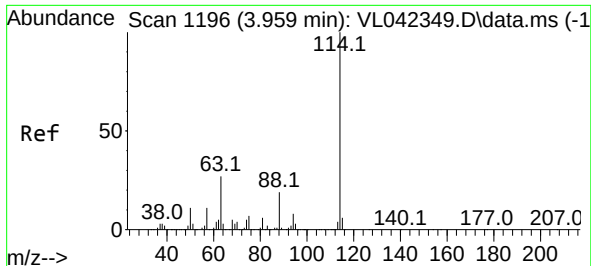


#32
 1,1,1-Trichloroethane
 Concen: 9.187 ppbv
 RT: 3.366 min Scan# 1013
 Delta R.T. 0.000 min
 Lab File: VL042349.D
 Acq: 17 Apr 2025 09:44



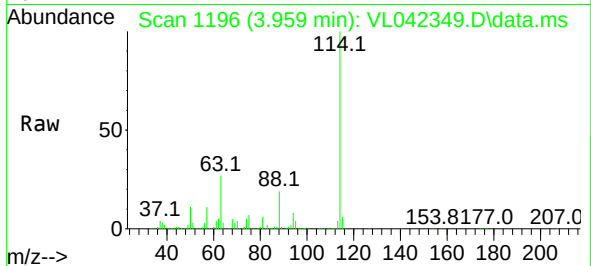
Tgt Ion: 97 Resp: 285336
 Ion Ratio Lower Upper
 97 100
 99 63.7 51.0 76.4
 61 48.5 38.8 58.2





#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

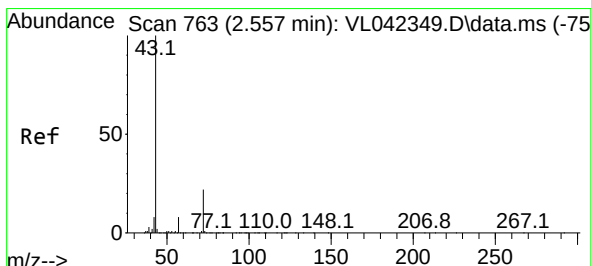
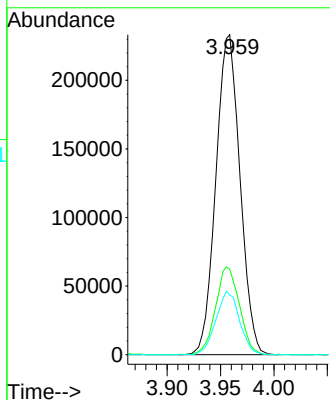
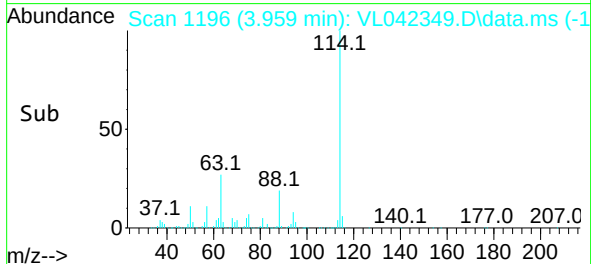
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



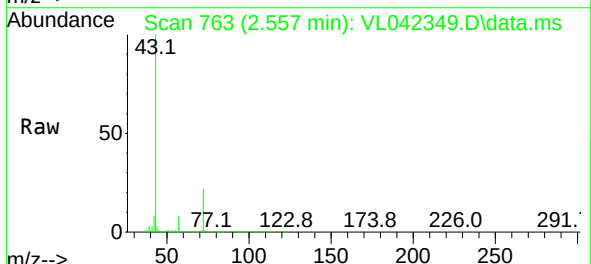
Tgt Ion:114 Resp: 366544
Ion Ratio Lower Upper
114 100
63 27.2 21.8 32.6
88 19.4 15.5 23.3

Manual Integrations
APPROVED

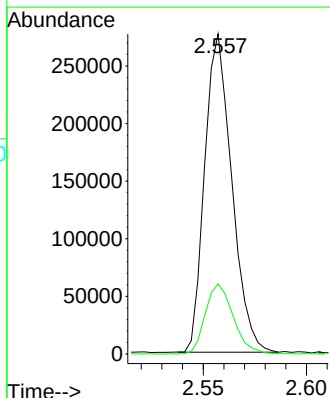
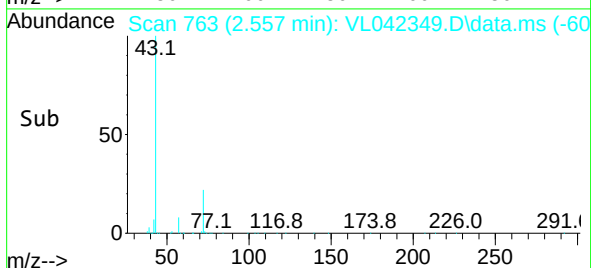
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

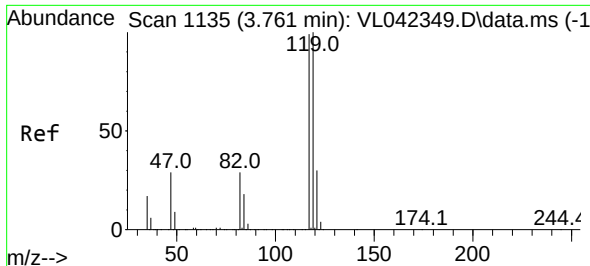


#34
2-Butanone
Concen: 8.683 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44



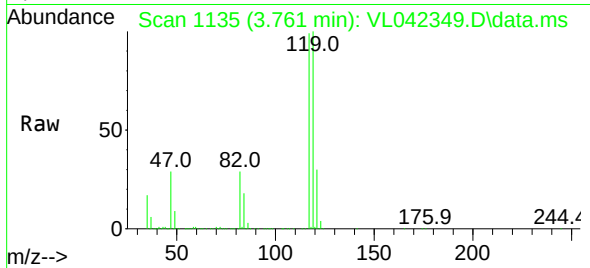
Tgt Ion: 43 Resp: 251704
Ion Ratio Lower Upper
43 100
72 22.7 18.2 27.2





#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

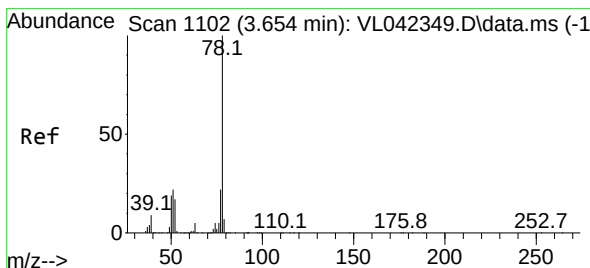
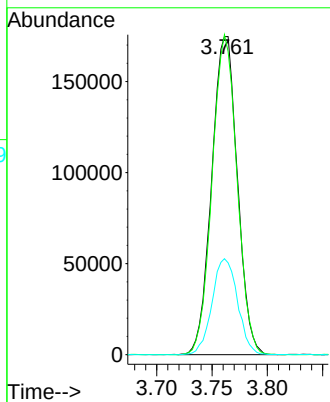
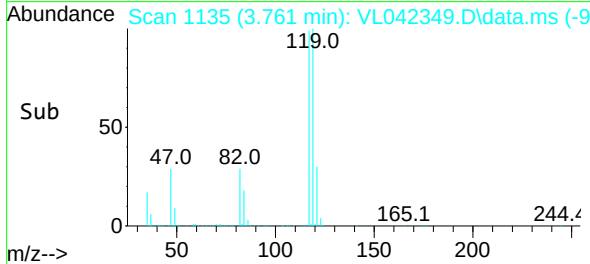
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



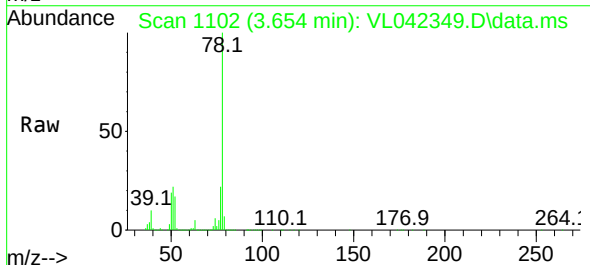
Tgt Ion: 117 Resp: 28240
Ion Ratio Lower Upper
117 100
119 100.6 80.5 120.7
121 30.2 24.2 36.2

Manual Integrations
APPROVED

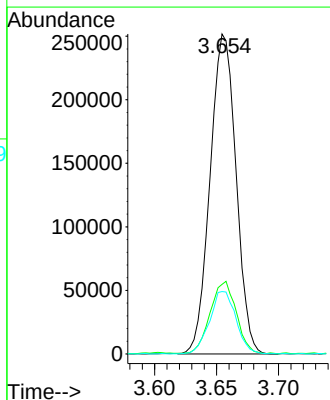
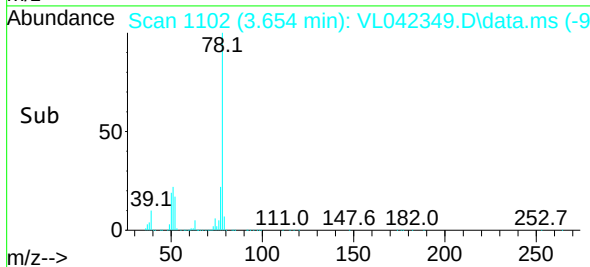
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

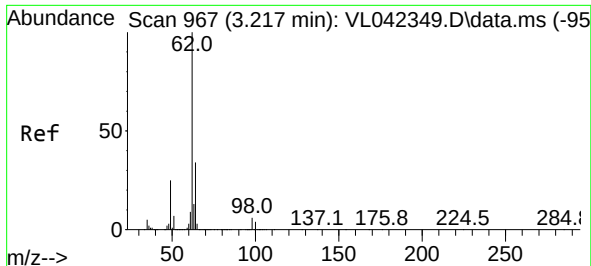


#36
Benzene
Concen: 9.292 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44



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: 21699

Ion Ratio Lower Upper

62 100

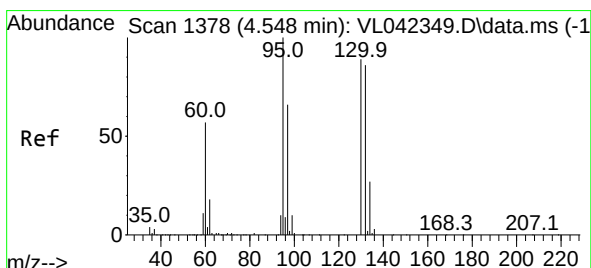
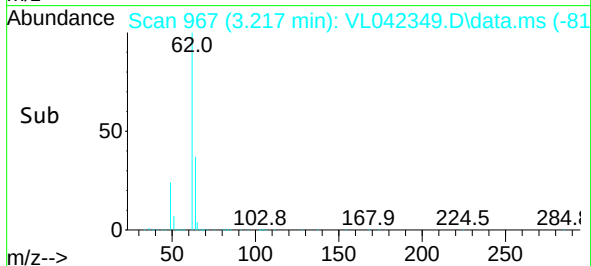
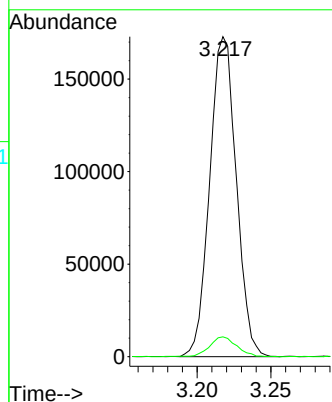
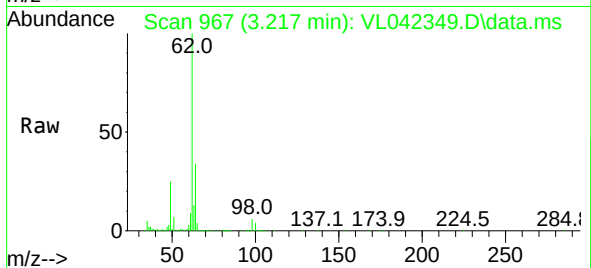
98 6.4 5.1 7.7

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

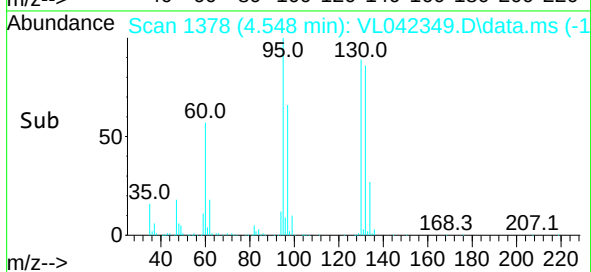
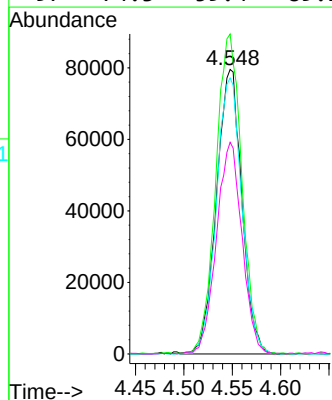
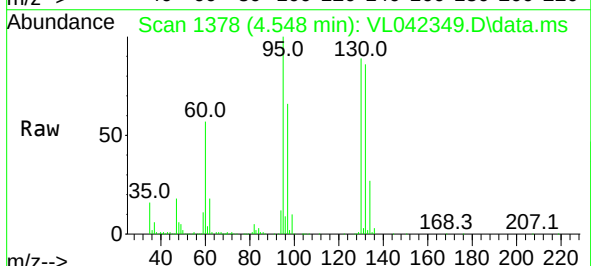
Ion Ratio Lower Upper

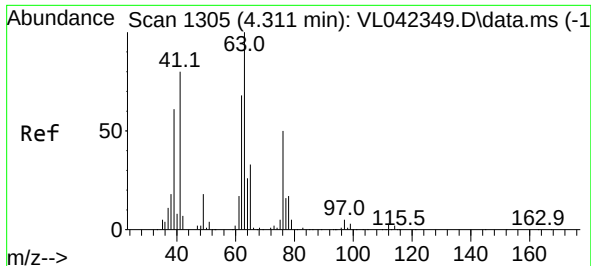
130 100

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

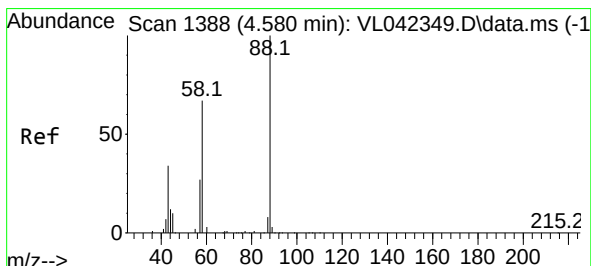
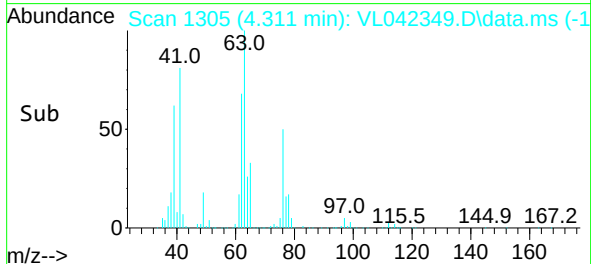
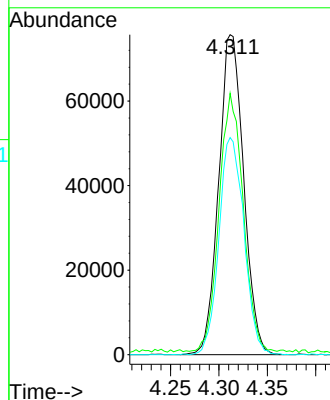
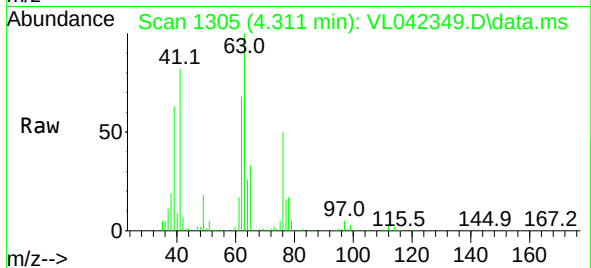
62 67.9 54.3 81.5

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

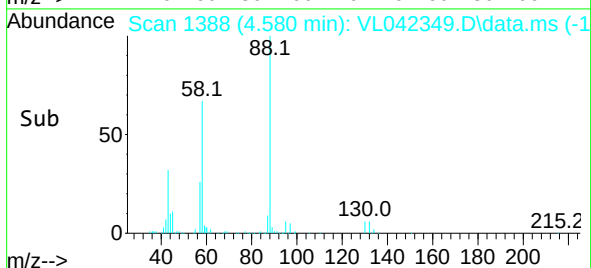
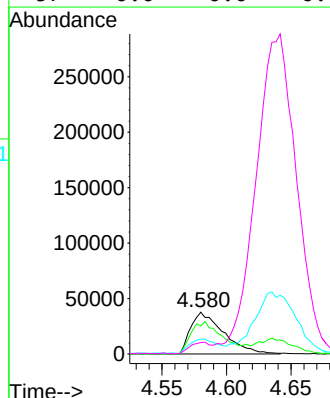
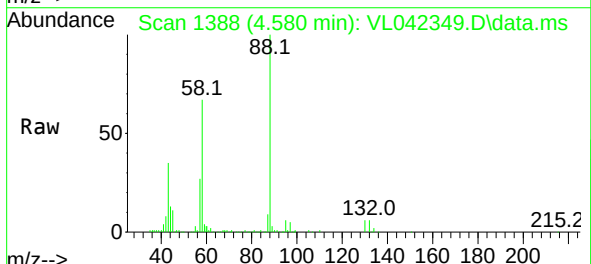
Ion Ratio Lower Upper

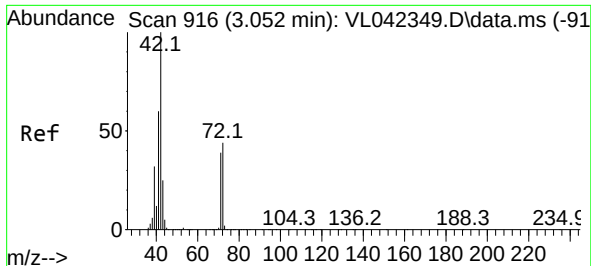
88 100

58 76.7 61.4 92.0

43 29.0 23.2 34.8

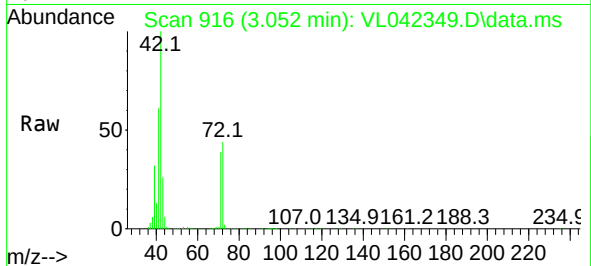
57 0.0 0.0 0.0





#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

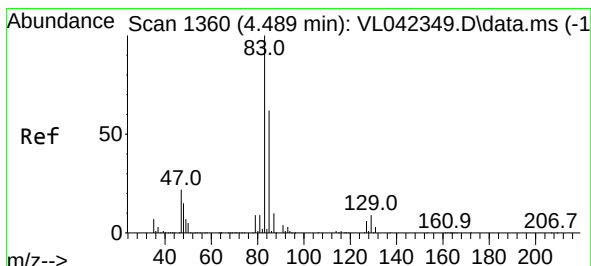
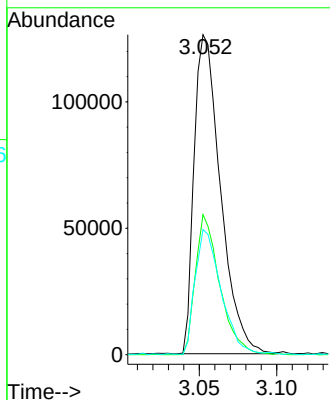
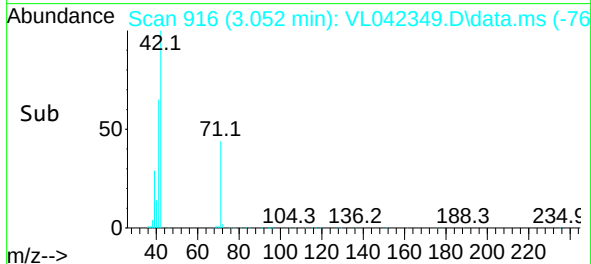
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



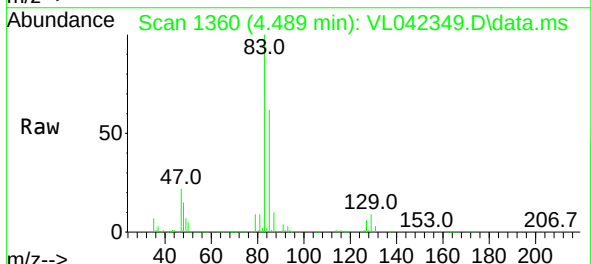
Tgt Ion: 42 Resp: 149905
Ion Ratio Lower Upper
42 100
72 40.4 32.3 48.5
71 39.3 31.4 47.2

Manual Integrations
APPROVED

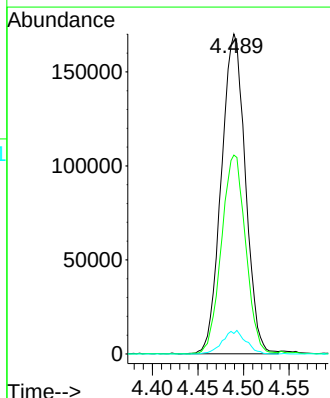
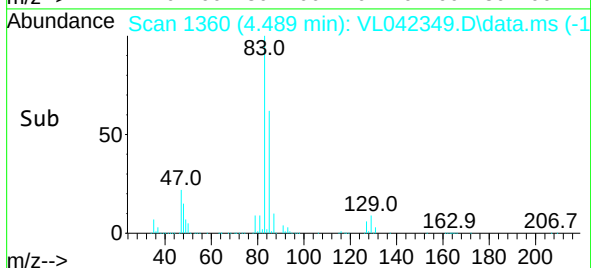
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

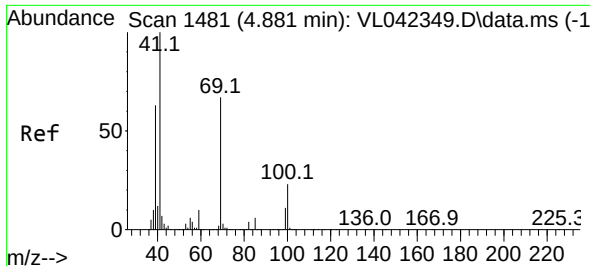


#42
Bromodichloromethane
Concen: 9.456 ppbv
RT: 4.489 min Scan# 1360
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44



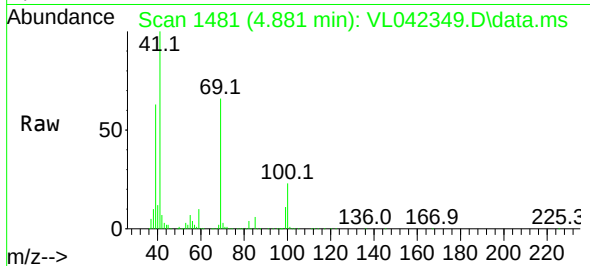
Tgt Ion: 83 Resp: 312268
Ion Ratio Lower Upper
83 100
85 62.1 49.7 74.5
127 6.4 5.1 7.7





#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

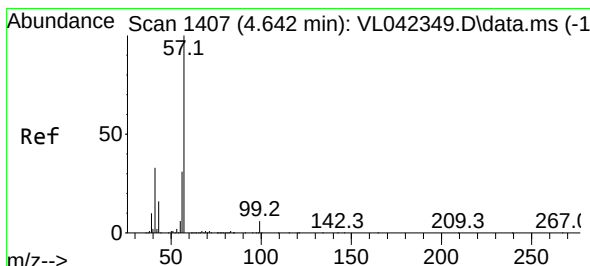
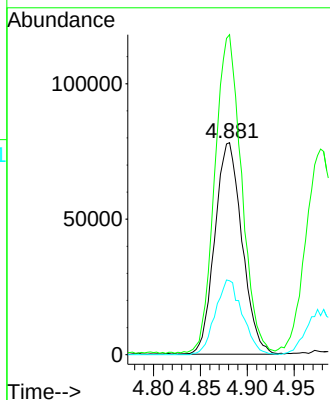
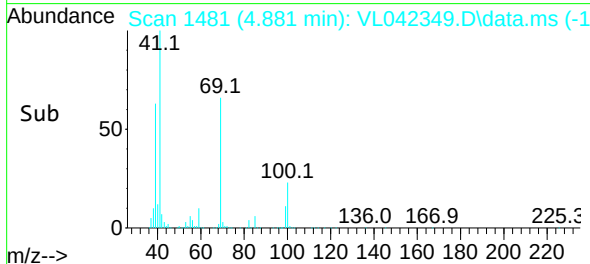
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



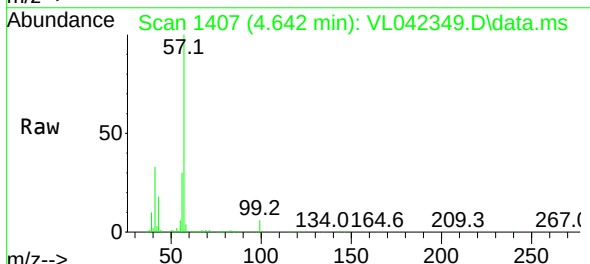
Tgt Ion: 69 Resp: 15750
Ion Ratio Lower Upper
69 100
41 148.2 118.6 177.8
100 35.2 28.2 42.2

Manual Integrations
APPROVED

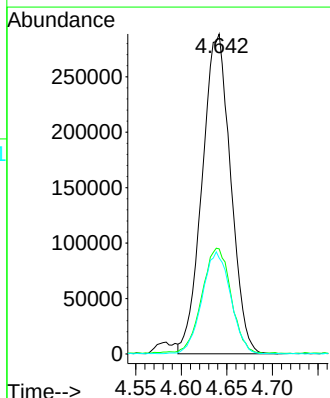
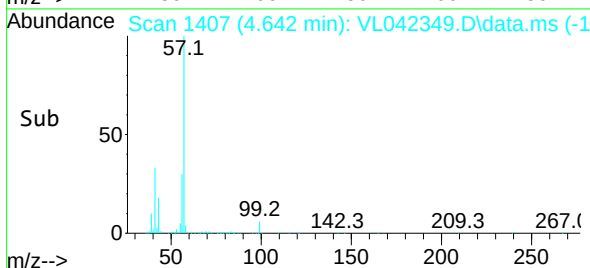
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

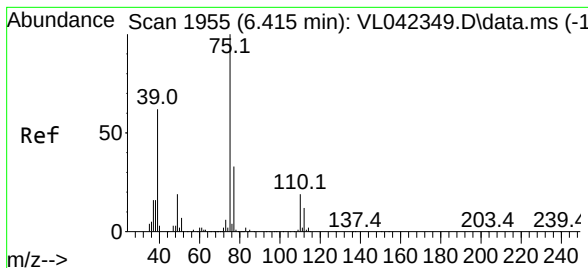


#44
2,2,4-Trimethylpentane
Concen: 9.157 ppbv
RT: 4.642 min Scan# 1407
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44



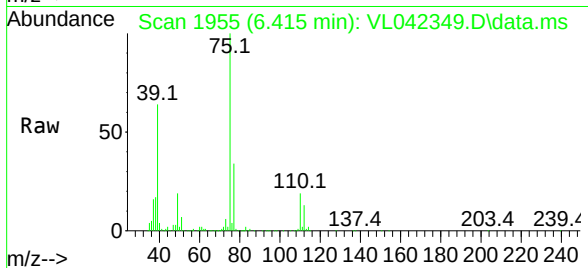
Tgt Ion: 57 Resp: 626085
Ion Ratio Lower Upper
57 100
41 34.0 27.2 40.8
56 32.1 25.7 38.5





#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

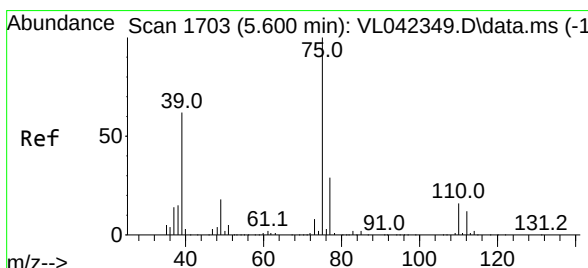
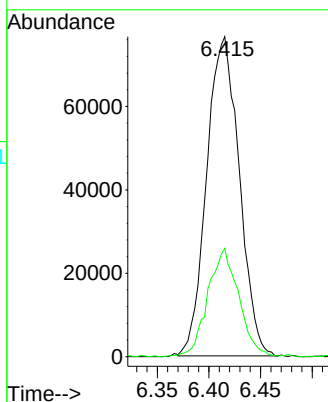
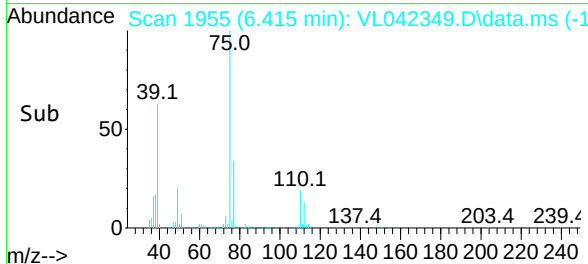
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion: 75 Resp: 16822
Ion Ratio Lower Upper
75 100
77 33.8 27.0 40.6

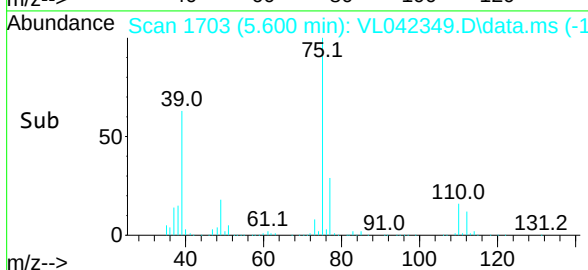
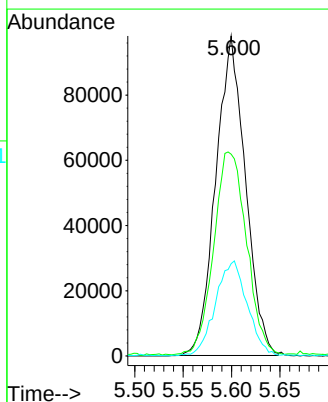
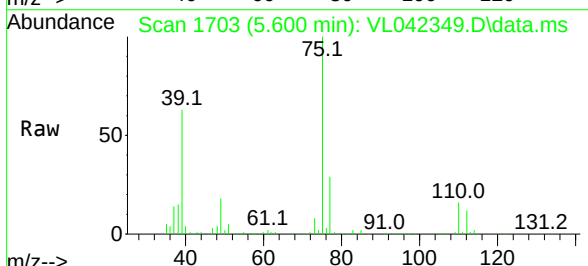
Manual Integrations
APPROVED

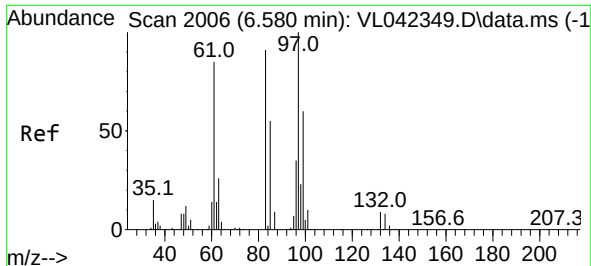
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

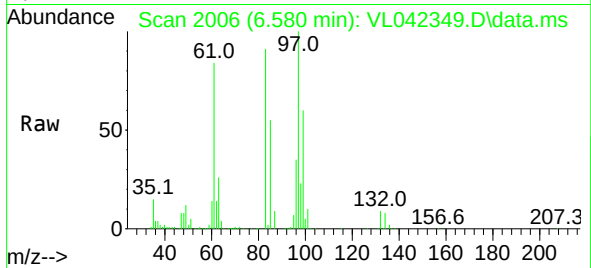
Tgt Ion: 75 Resp: 208811
Ion Ratio Lower Upper
75 100
39 62.5 50.0 75.0
77 28.8 23.0 34.6





#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

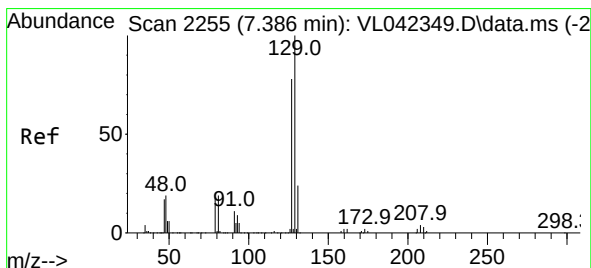
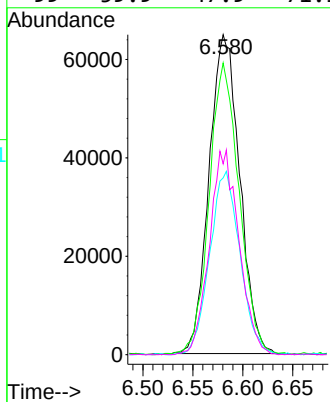
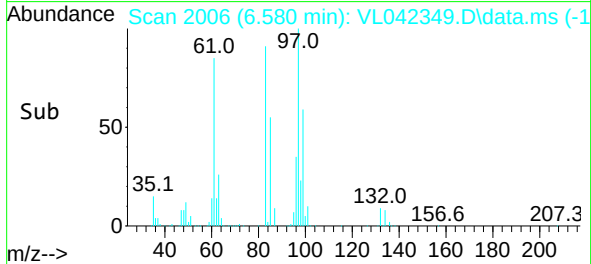
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



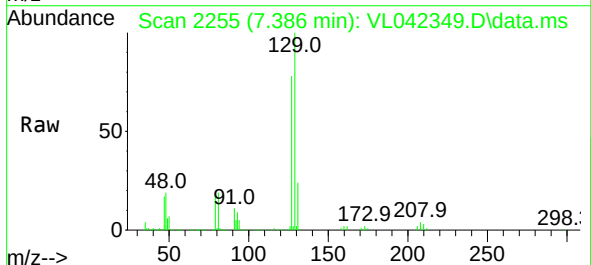
Tgt Ion: 97 Resp: 137898
Ion Ratio Lower Upper
97 100
83 91.0 72.8 109.2
85 55.3 44.2 66.4
99 59.9 47.9 71.9

Manual Integrations
APPROVED

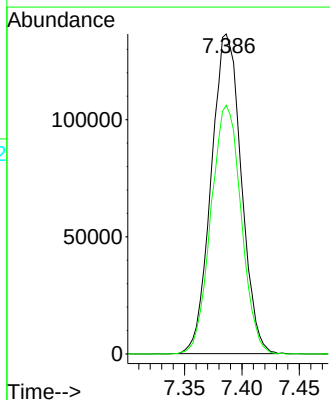
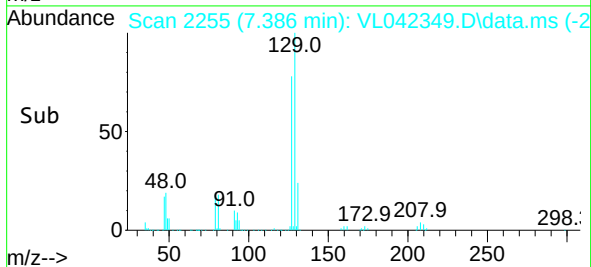
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

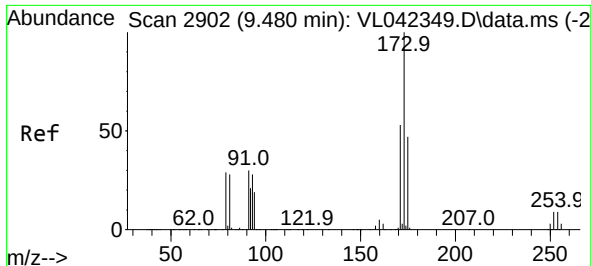


#48
Dibromochloromethane
Concen: 9.388 ppbv
RT: 7.386 min Scan# 2255
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44



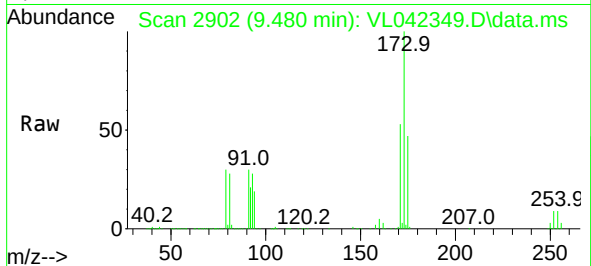
Tgt Ion:129 Resp: 248954
Ion Ratio Lower Upper
129 100
127 78.2 39.1 117.3





#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

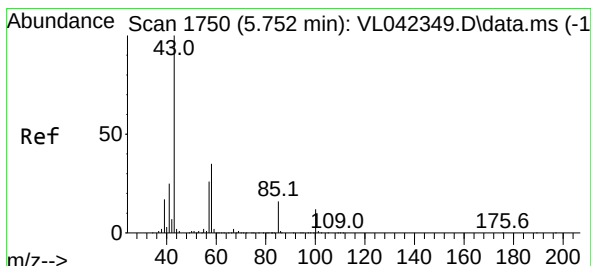
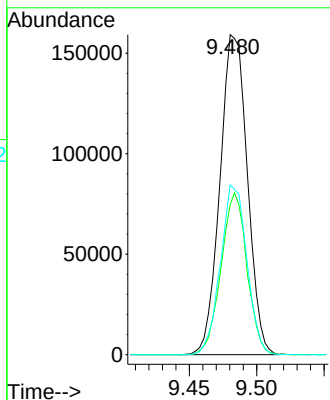
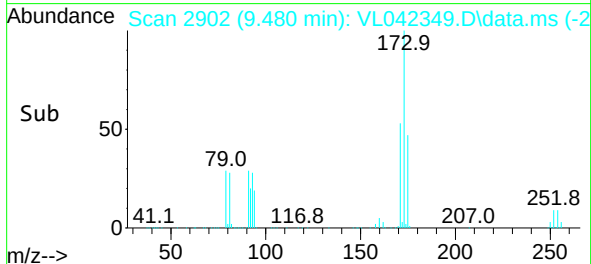
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



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

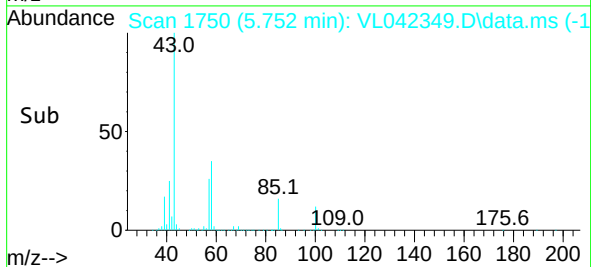
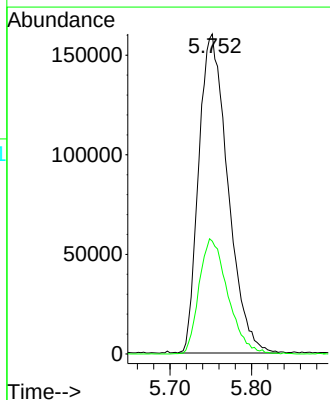
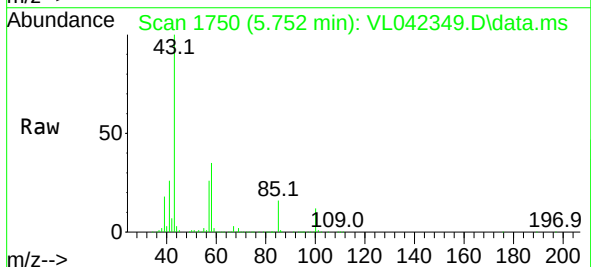
Manual Integrations
APPROVED

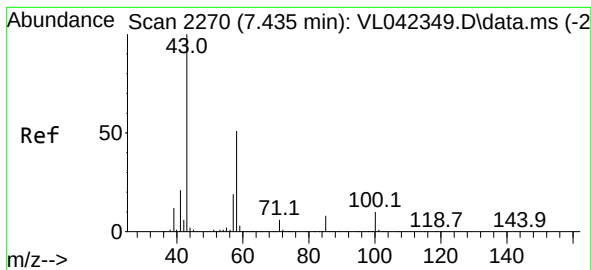
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

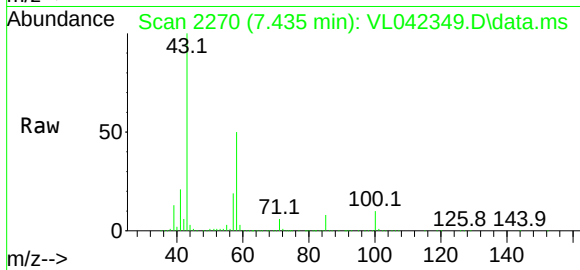
Tgt Ion: 43 Resp: 396548
Ion Ratio Lower Upper
43 100
58 35.8 28.6 43.0





#51
2-Hexanone
Concen: 7.511 ppbv
RT: 7.435 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

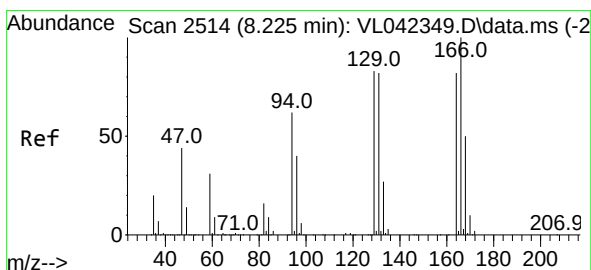
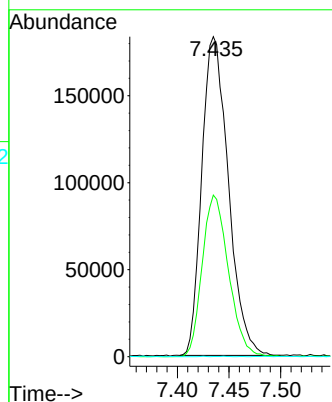
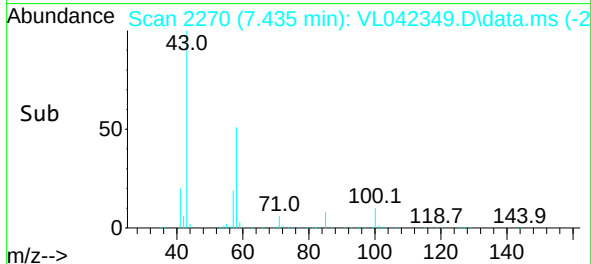
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



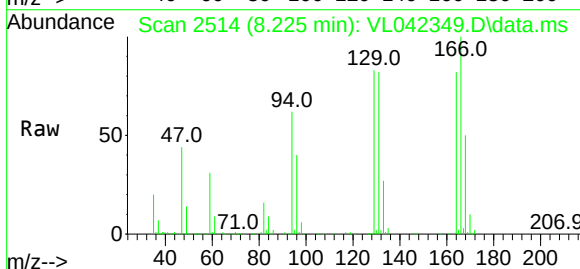
Tgt Ion: 43 Resp: 32716
Ion Ratio Lower Upper
43 100
58 50.3 40.2 60.4
98 0.1 0.1 0.1

Manual Integrations
APPROVED

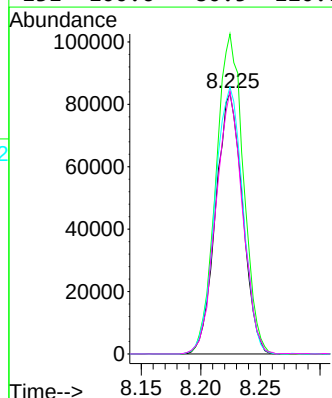
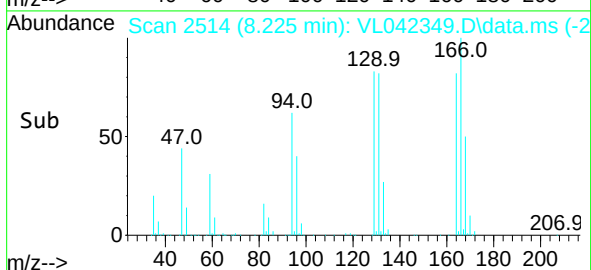
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

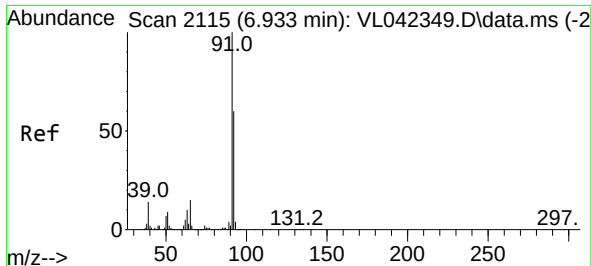


#52
Tetrachloroethene
Concen: 8.553 ppbv
RT: 8.225 min Scan# 2514
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44



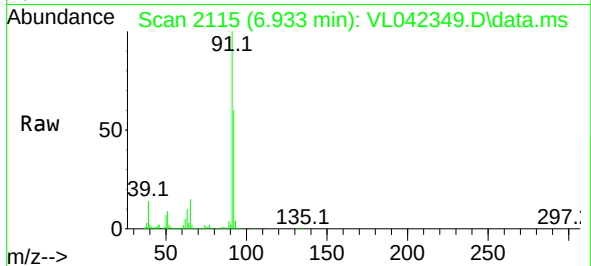
Tgt Ion:164 Resp: 130720
Ion Ratio Lower Upper
164 100
166 122.7 98.2 147.2
129 102.3 81.8 122.8
131 100.6 80.5 120.7





#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

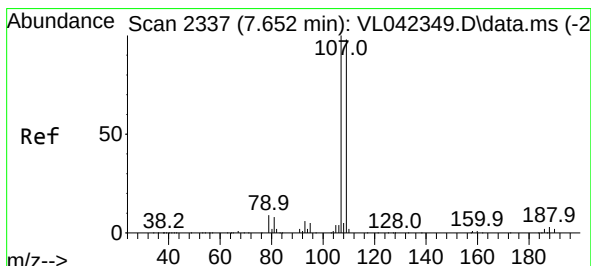
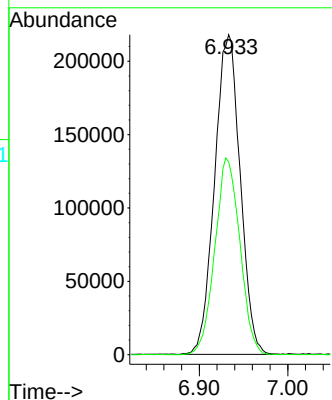
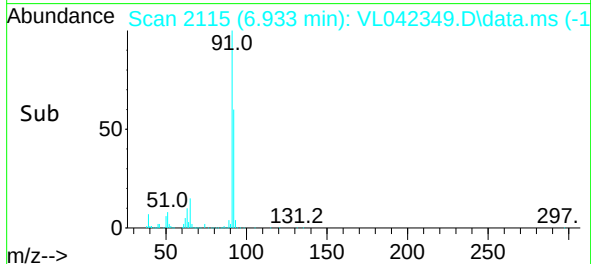
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



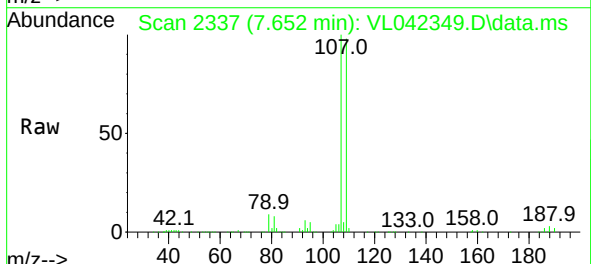
Tgt Ion: 91 Resp: 437258
Ion Ratio Lower Upper
91 100
92 60.3 48.2 72.4

Manual Integrations
APPROVED

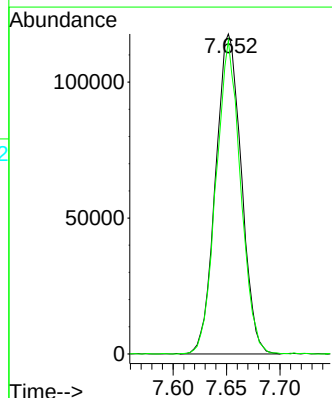
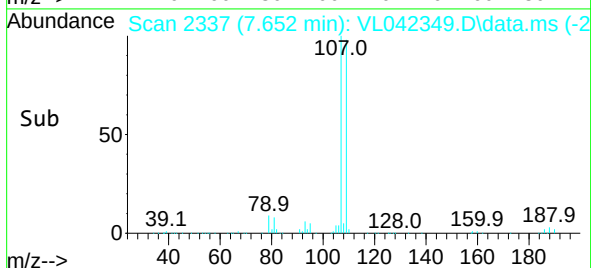
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

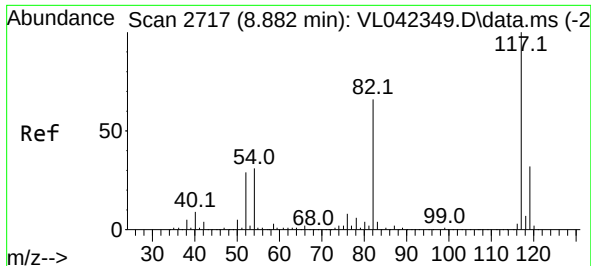


#54
1,2-Dibromoethane
Concen: 9.235 ppbv
RT: 7.652 min Scan# 2337
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44



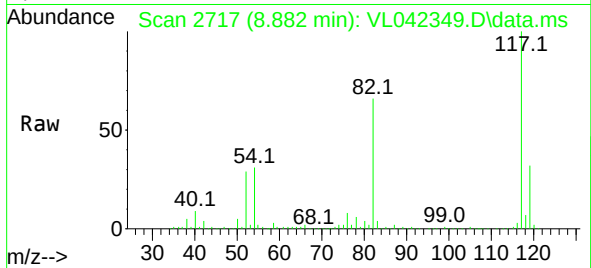
Tgt Ion:107 Resp: 197665
Ion Ratio Lower Upper
107 100
109 97.8 78.2 117.4





#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

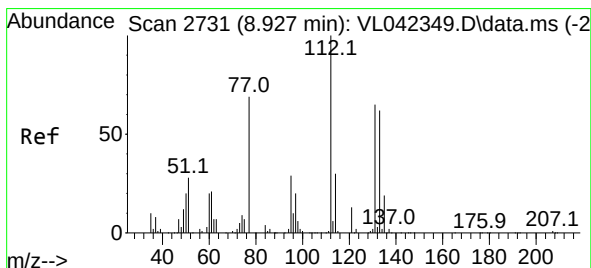
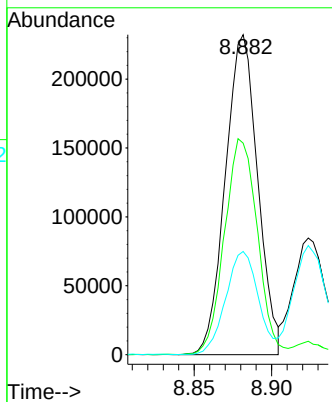
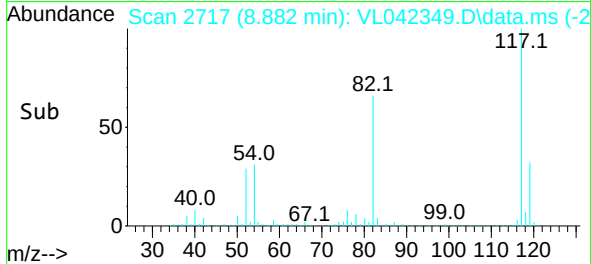
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



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

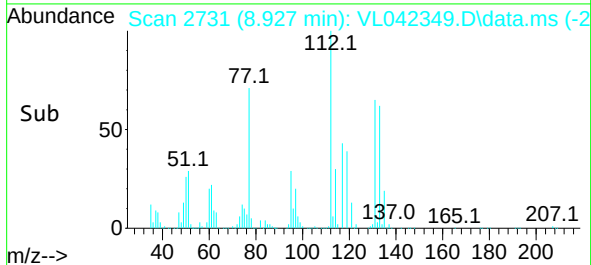
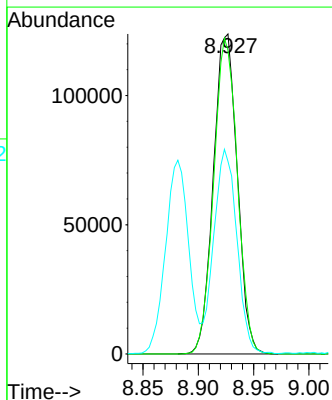
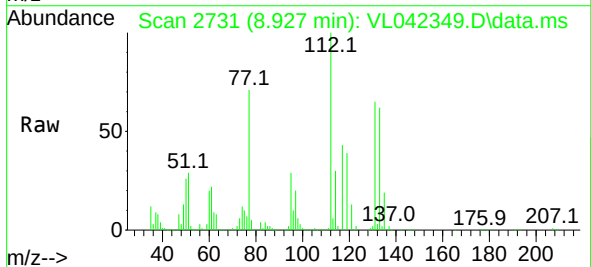
Manual Integrations
APPROVED

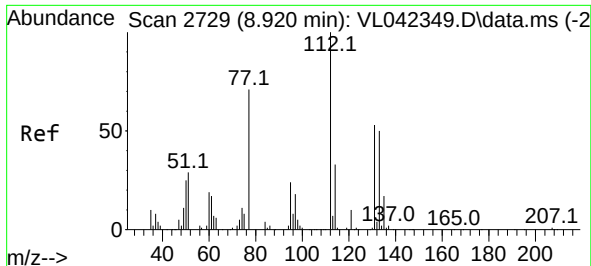
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

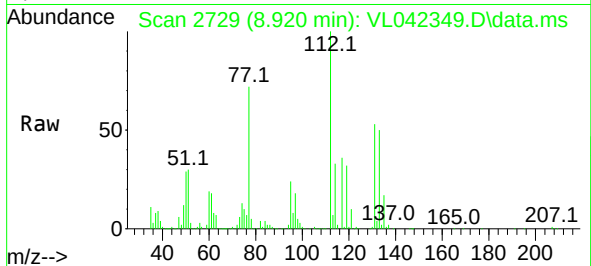
Tgt Ion:131 Resp: 186041
Ion Ratio Lower Upper
131 100
133 97.9 78.3 117.5
119 60.9 48.7 73.1





#57
Chlorobenzene
Concen: 9.187 ppbv
RT: 8.920 min Scan# 2729
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

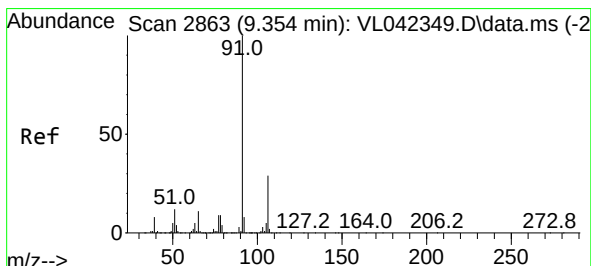
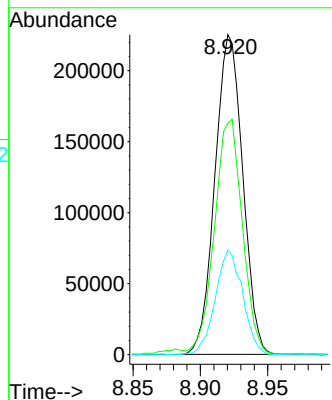
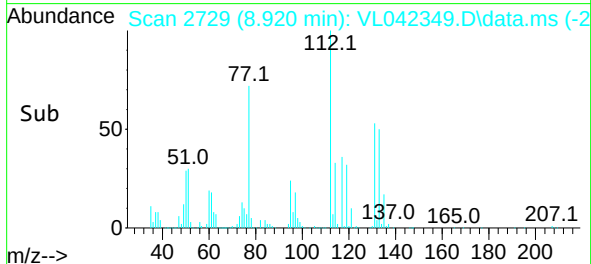
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



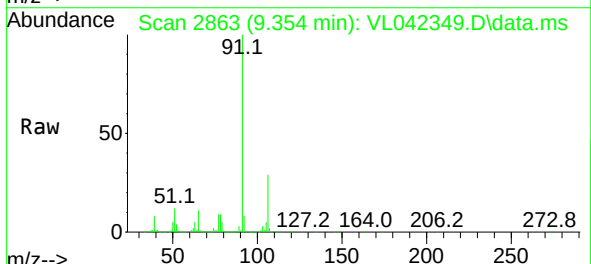
Tgt Ion: 112 Resp: 323084
Ion Ratio Lower Upper
112 100
77 72.2 57.8 86.6
114 32.6 29.3 35.9

Manual Integrations
APPROVED

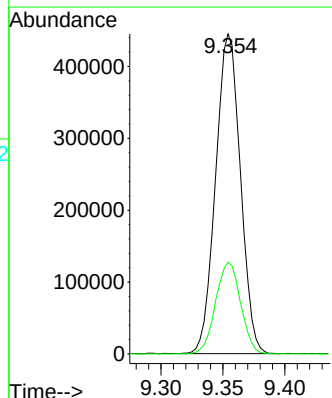
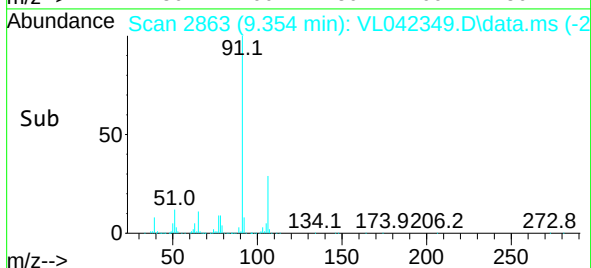
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

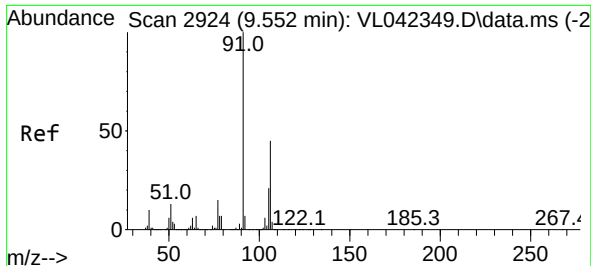


#58
Ethyl Benzene
Concen: 9.248 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44



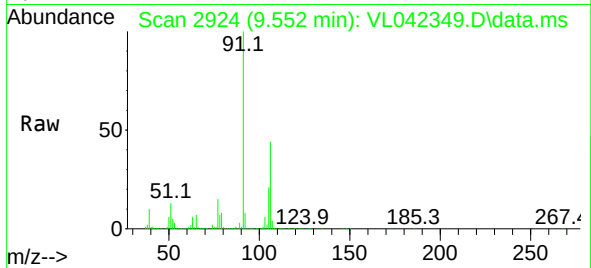
Tgt Ion: 91 Resp: 619581
Ion Ratio Lower Upper
91 100
106 28.7 23.0 34.4





#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

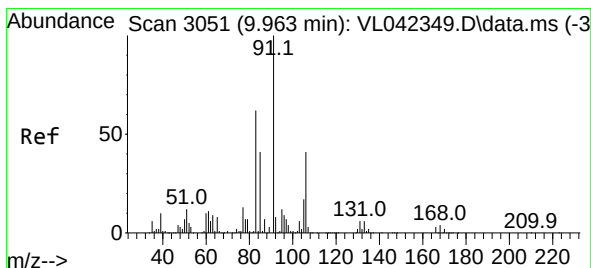
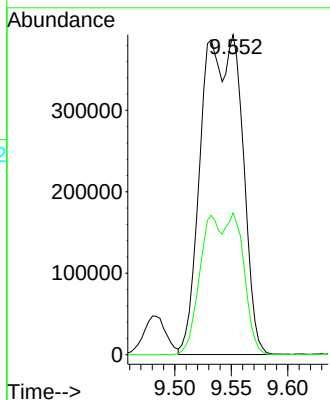
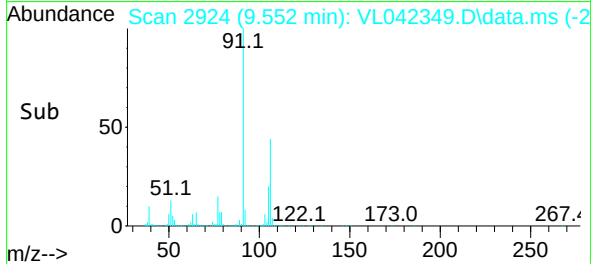
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion: 91 Resp: 984458
Ion Ratio Lower Upper
91 100
106 44.3 35.4 53.2

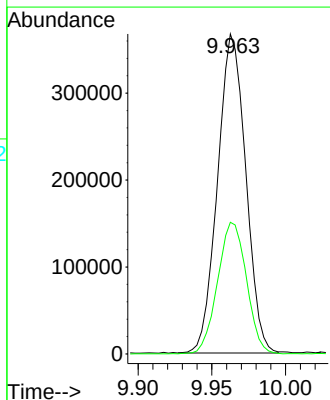
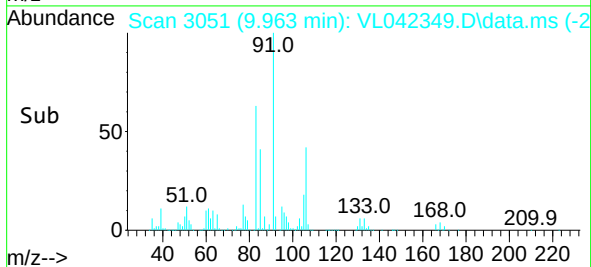
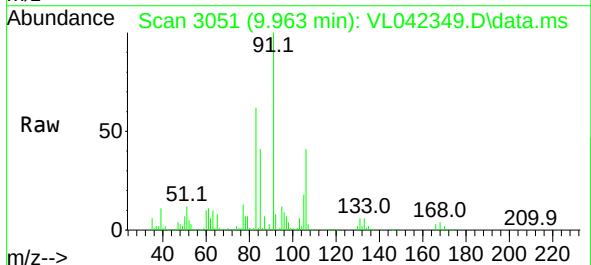
Manual Integrations
APPROVED

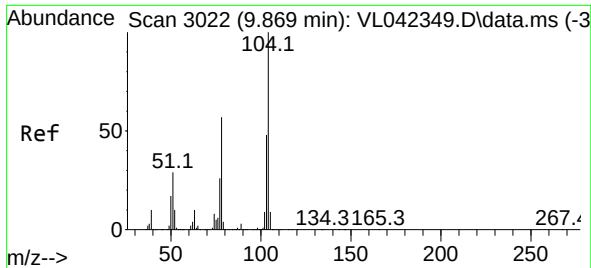
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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





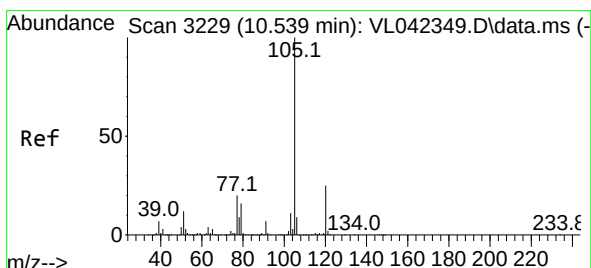
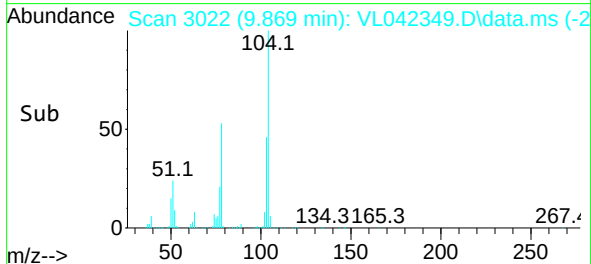
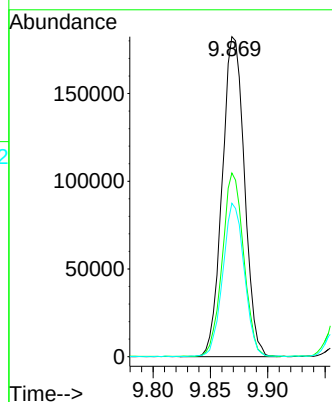
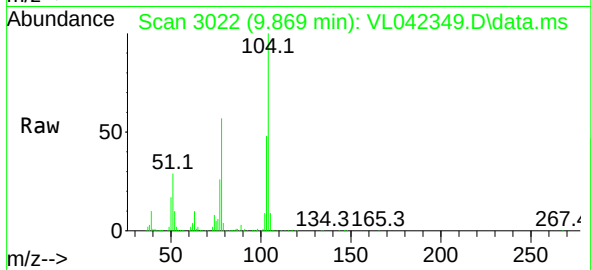
#61
Styrene
Concen: 9.464 ppbv
RT: 9.869 min Scan# 3022
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:104 Resp: 24548
Ion Ratio Lower Upper
104 100
78 55.7 44.6 66.8
103 46.7 37.4 56.0

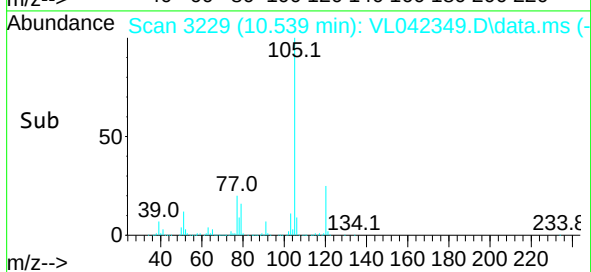
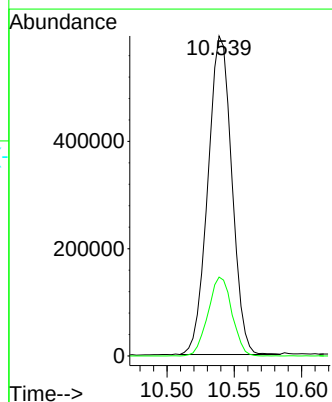
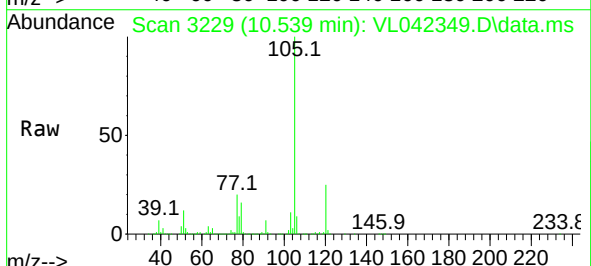
Manual Integrations
APPROVED

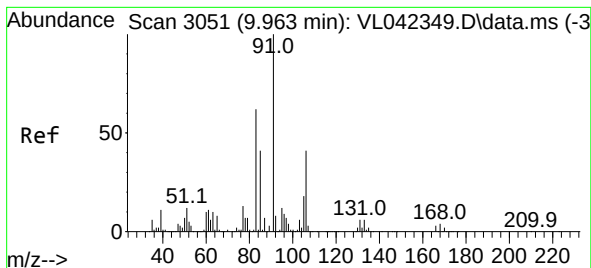
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

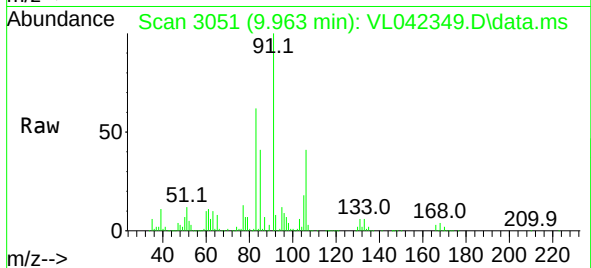
Tgt Ion:105 Resp: 733788
Ion Ratio Lower Upper
105 100
120 24.8 19.8 29.8





#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

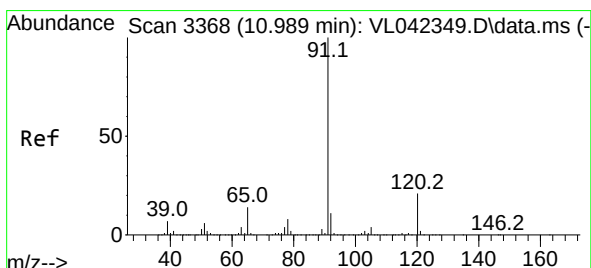
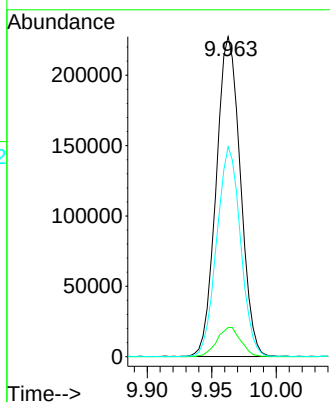
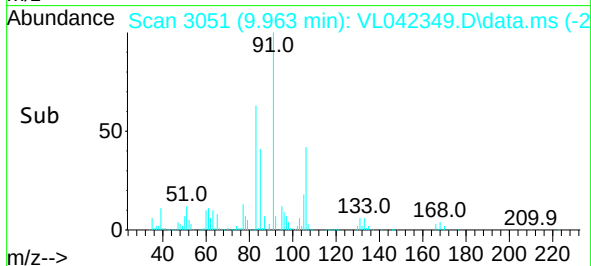
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



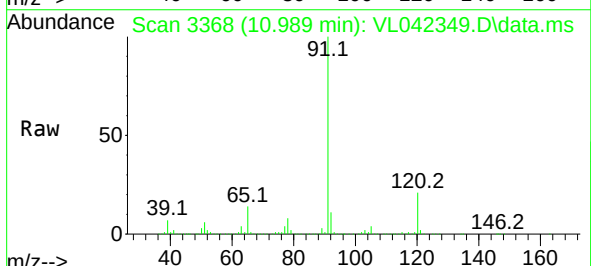
Tgt Ion: 83 Resp: 29504
Ion Ratio Lower Upper
83 100
131 9.1 4.5 13.7
85 64.7 32.4 97.0

Manual Integrations
APPROVED

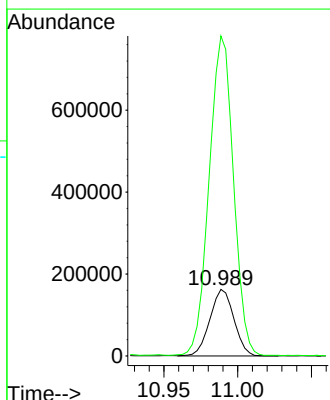
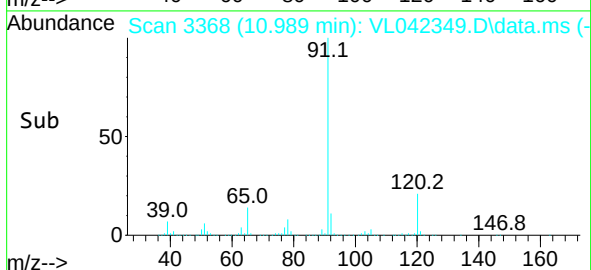
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

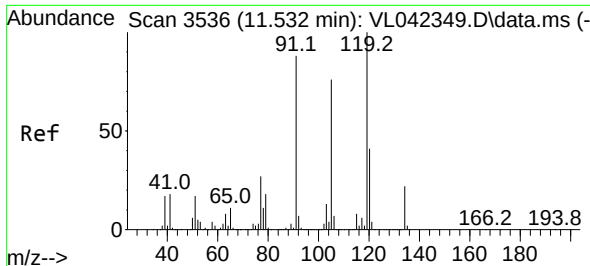


#64
n-propylbenzene
Concen: 9.144 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44



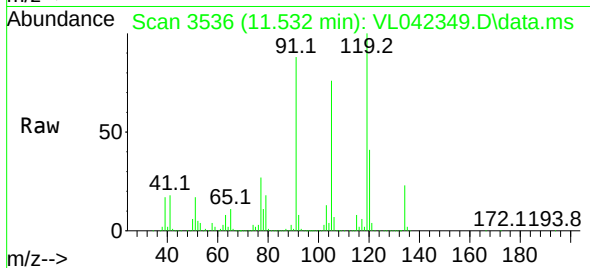
Tgt Ion:120 Resp: 183390
Ion Ratio Lower Upper
120 100
91 490.5 392.4 588.6





#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

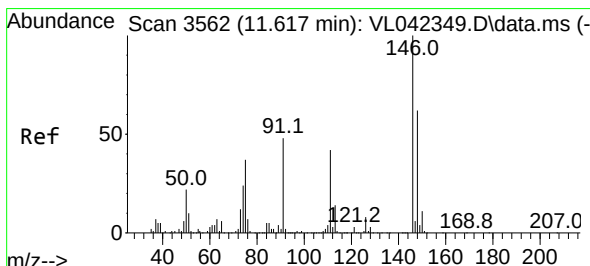
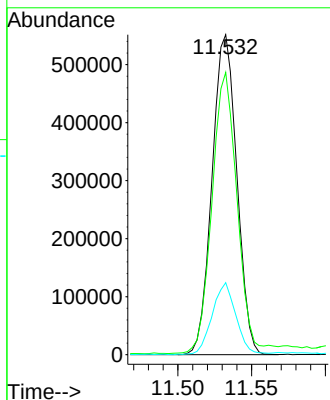
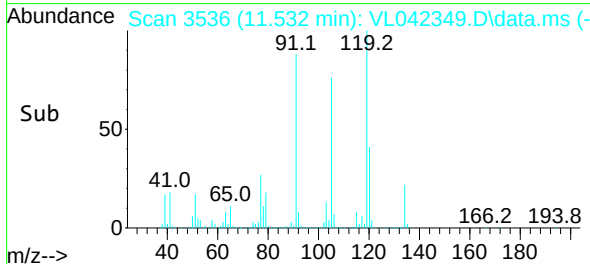
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



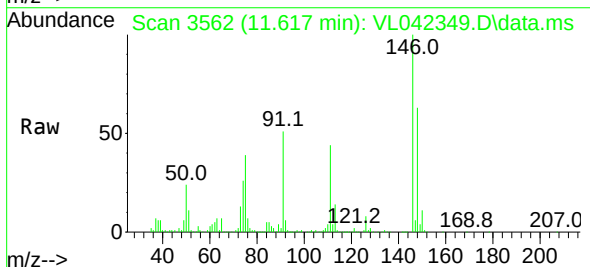
Tgt Ion: 119 Resp: 64495
Ion Ratio Lower Upper
119 100
91 93.2 74.6 111.8
134 23.5 18.8 28.2

Manual Integrations
APPROVED

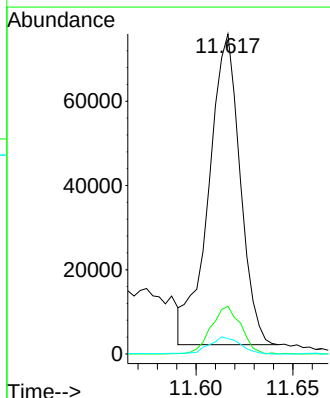
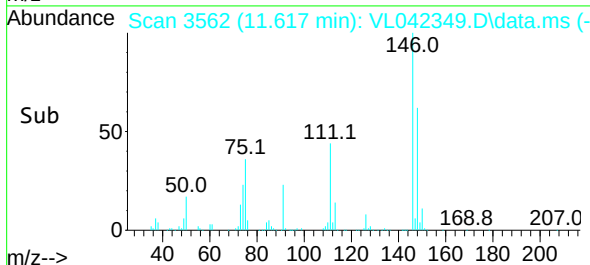
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

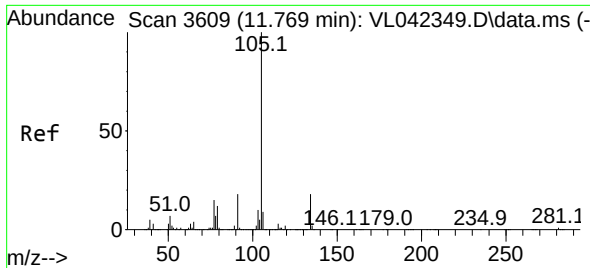


#66
Benzyl Chloride
Concen: 10.333 ppbv
RT: 11.617 min Scan# 3562
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44



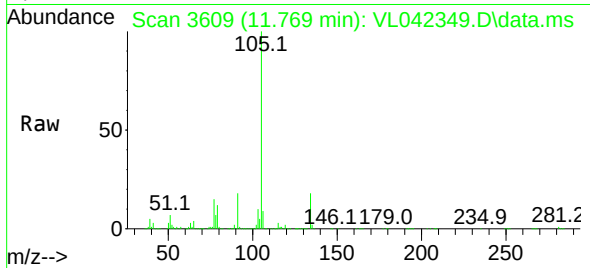
Tgt Ion: 91 Resp: 83269
Ion Ratio Lower Upper
91 100
126 14.7 11.8 17.6
128 5.6 4.5 6.7





#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

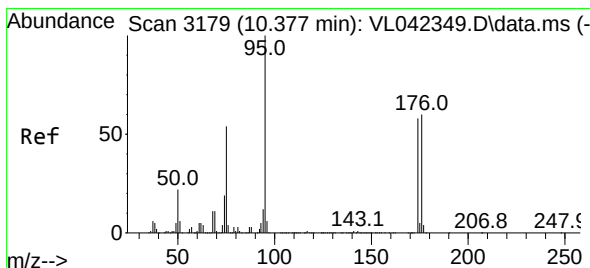
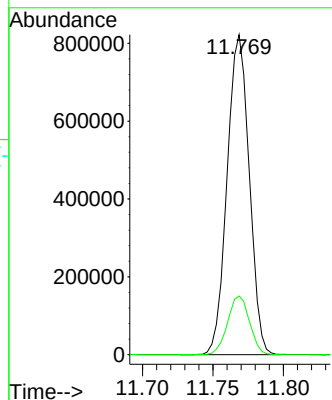
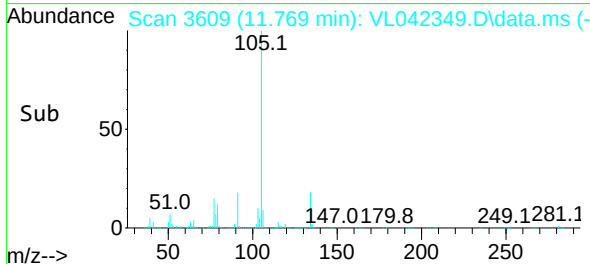
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion:105 Resp: 900074
Ion Ratio Lower Upper
105 100
134 18.2 14.6 21.8

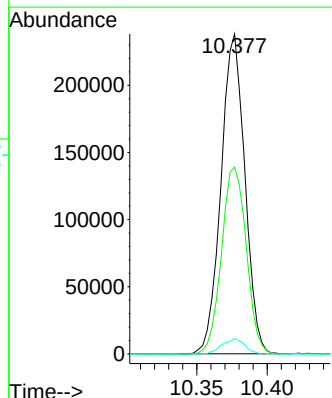
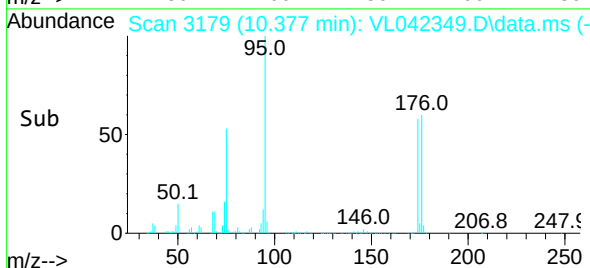
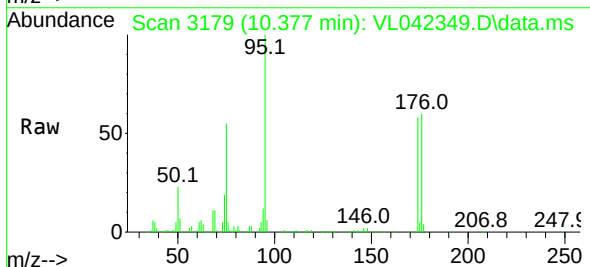
Manual Integrations
APPROVED

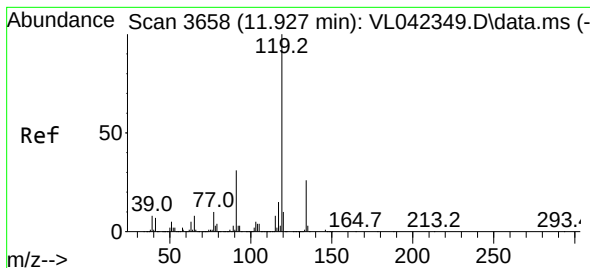
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

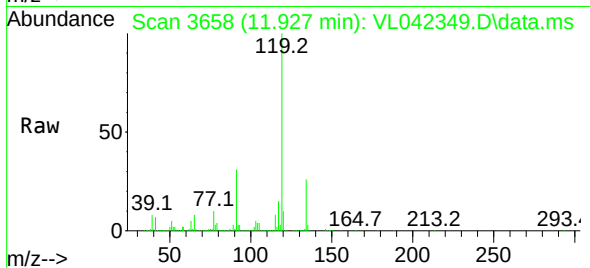
Tgt Ion: 95 Resp: 281013
Ion Ratio Lower Upper
95 100
174 60.6 48.5 72.7
175 4.6 3.7 5.5





#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

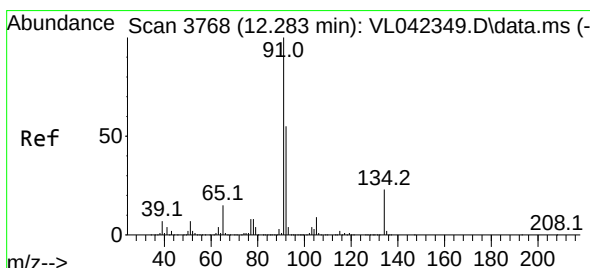
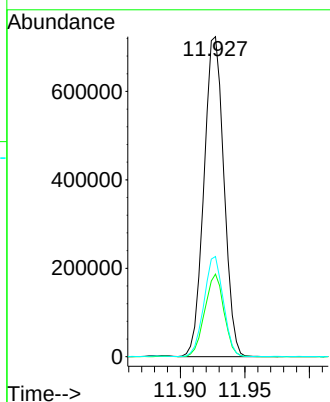
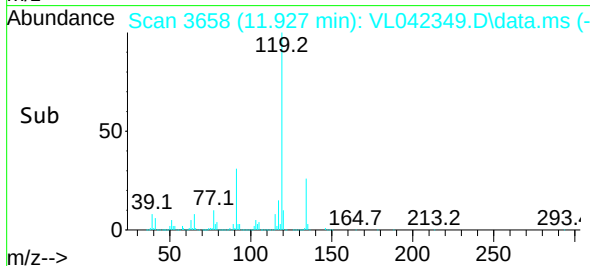
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



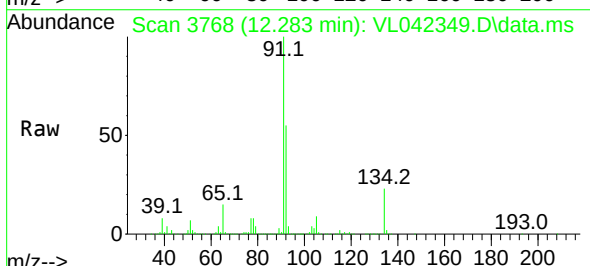
Tgt Ion: 119 Resp: 77898
Ion Ratio Lower Upper
119 100
134 25.0 20.0 30.0
91 30.5 24.4 36.6

Manual Integrations
APPROVED

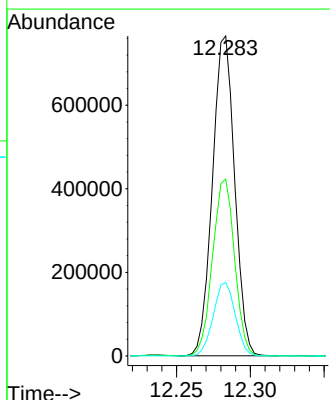
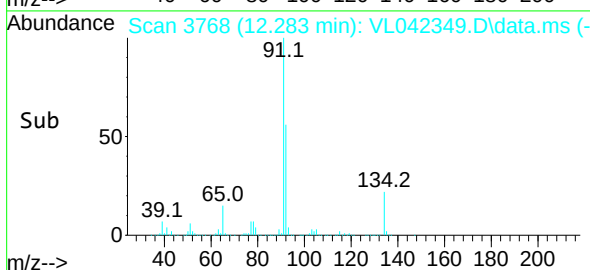
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

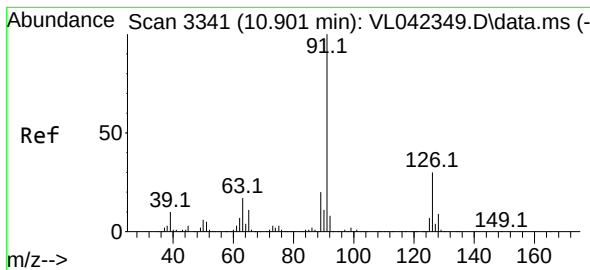


#70
n-Butylbenzene
Concen: 8.682 ppbv
RT: 12.283 min Scan# 3768
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44



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





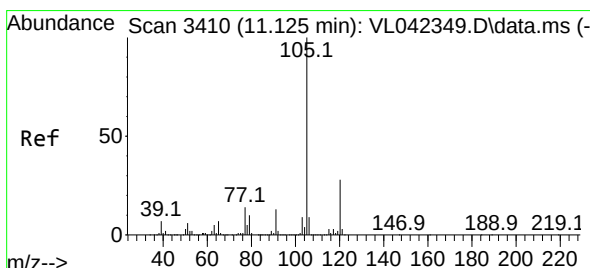
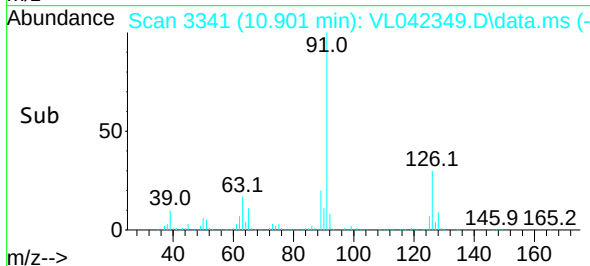
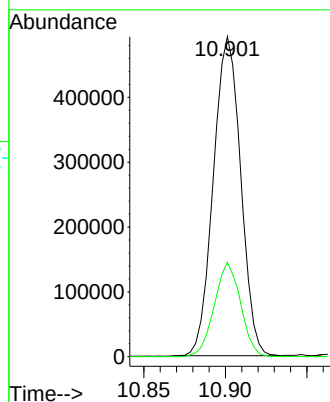
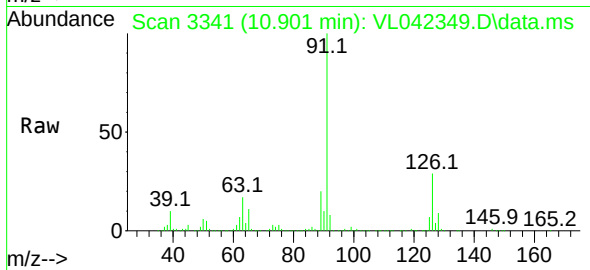
#71
2-Chlorotoluene
Concen: 9.157 ppbv
RT: 10.901 min Scan# 3341
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 91 Resp: 573039
Ion Ratio Lower Upper
91 100
126 28.4 11.4 45.4

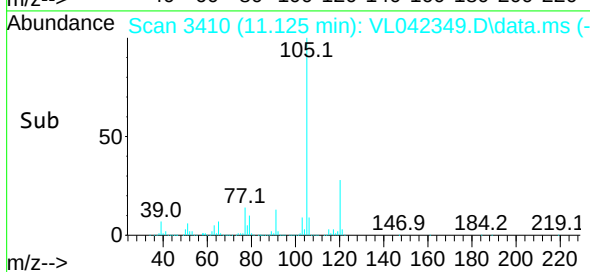
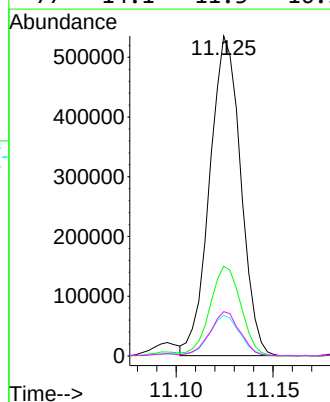
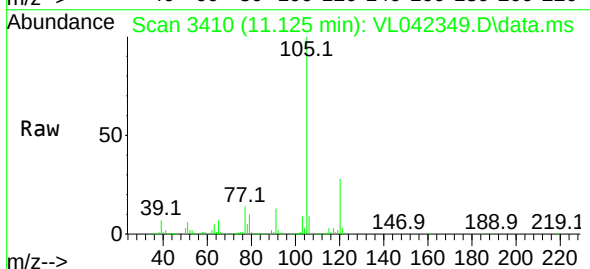
Manual Integrations
APPROVED

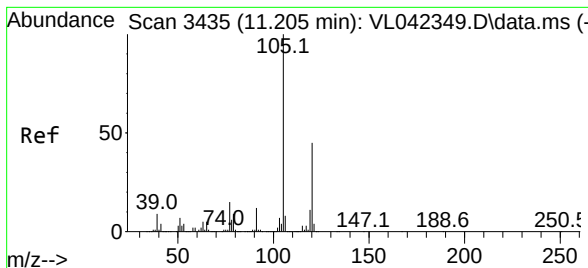
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

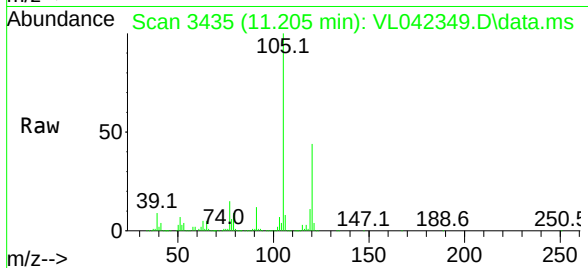
Tgt Ion:105 Resp: 596757
Ion Ratio Lower Upper
105 100
120 29.0 23.2 34.8
91 13.0 10.4 15.6
77 14.1 11.3 16.9





#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

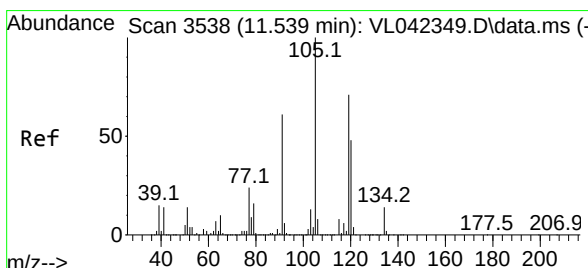
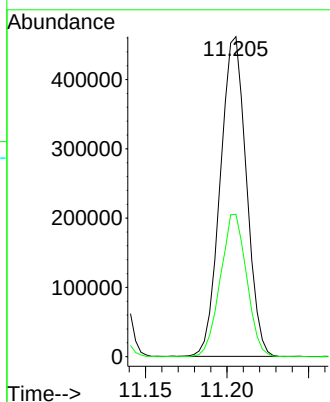
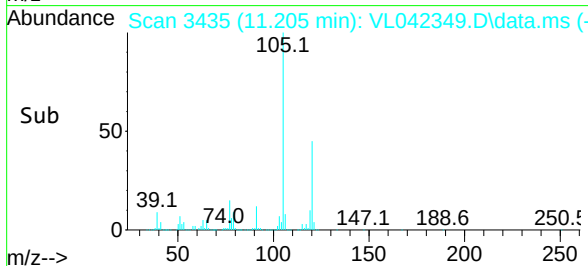
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



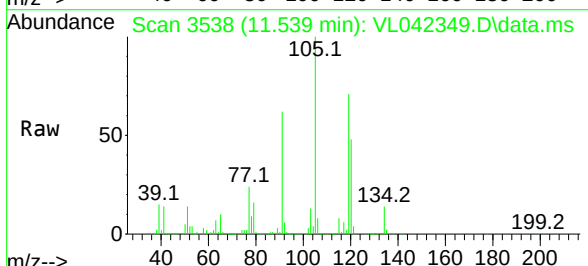
Tgt Ion:105 Resp: 51285
Ion Ratio Lower Upper
105 100
120 44.5 35.6 53.4

Manual Integrations
APPROVED

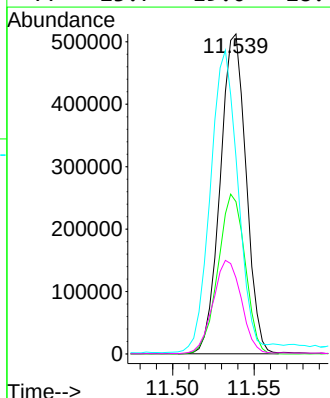
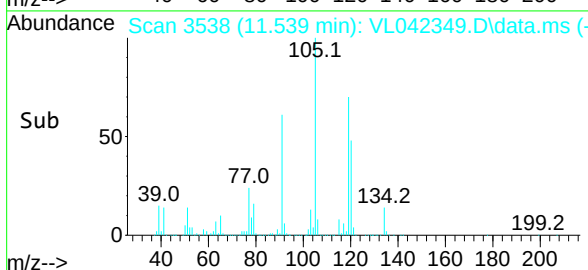
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

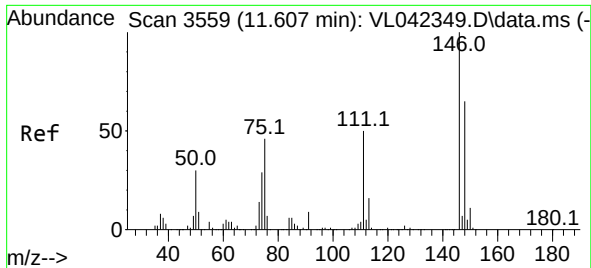


#74
1,2,4-Trimethylbenzene
Concen: 8.248 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44



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





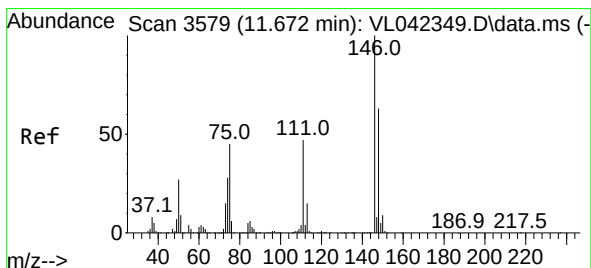
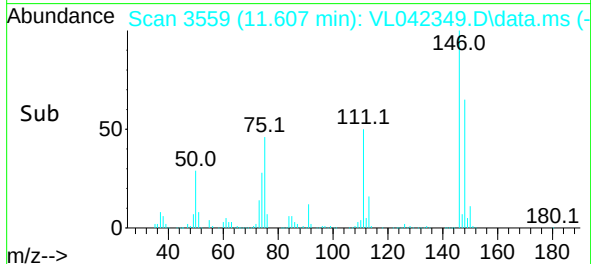
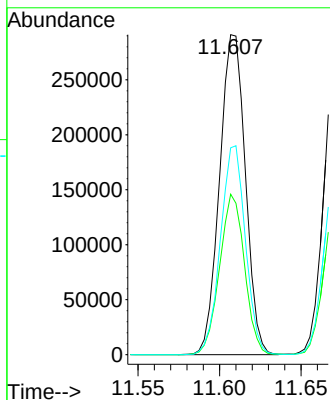
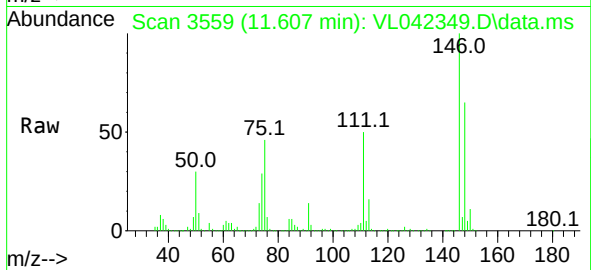
#75
1,3-Dichlorobenzene
Concen: 8.997 ppbv
RT: 11.607 min Scan# 3559
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

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

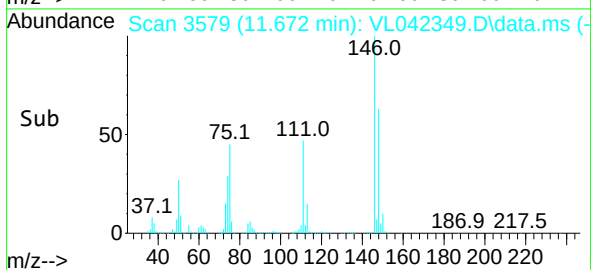
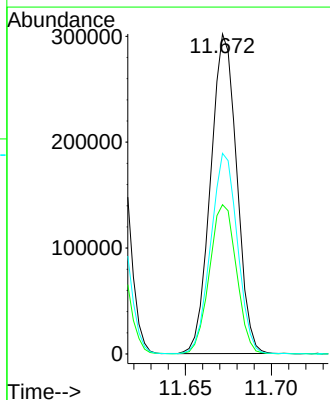
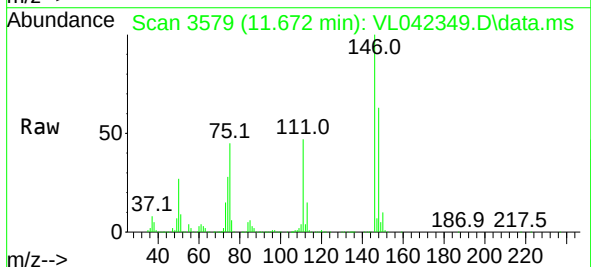
Manual Integrations
APPROVED

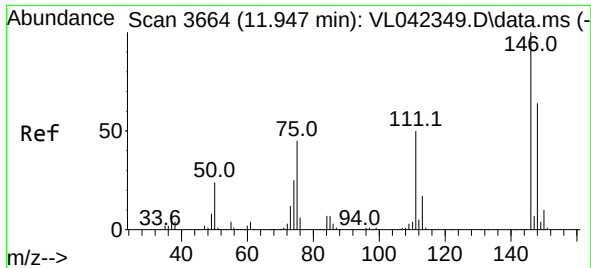
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

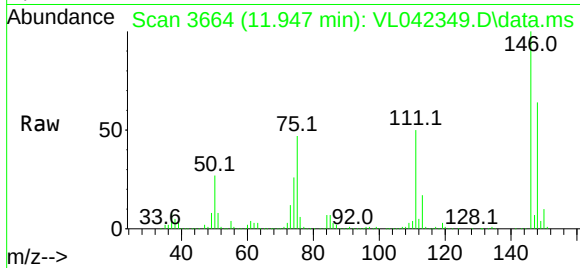
Tgt Ion:146 Resp: 319089
Ion Ratio Lower Upper
146 100
111 48.4 24.2 72.6
148 64.3 32.1 96.5





#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

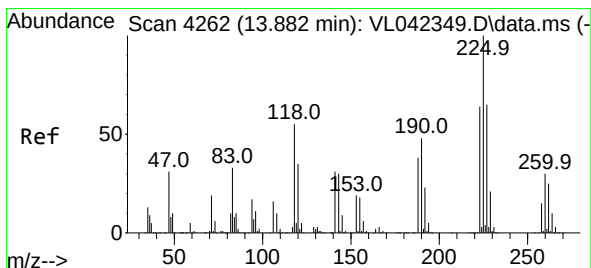
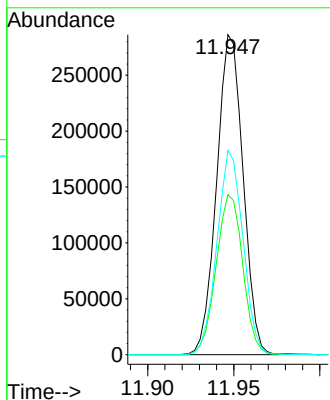
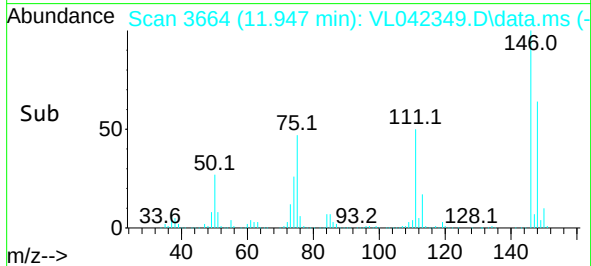
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



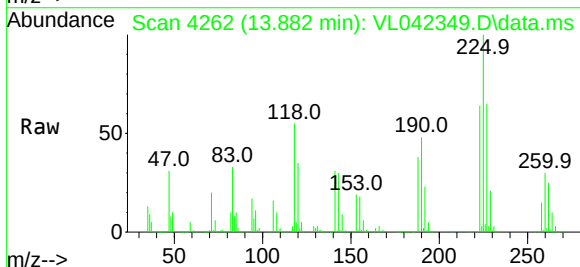
Tgt Ion:146 Resp: 30582
Ion Ratio Lower Upper
146 100
111 50.6 25.3 75.9
148 63.0 31.5 94.5

Manual Integrations
APPROVED

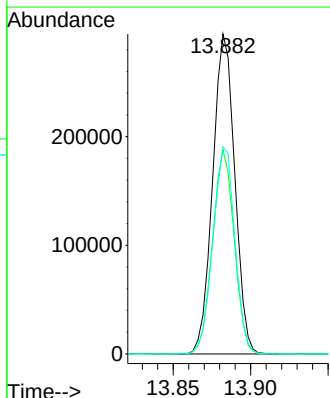
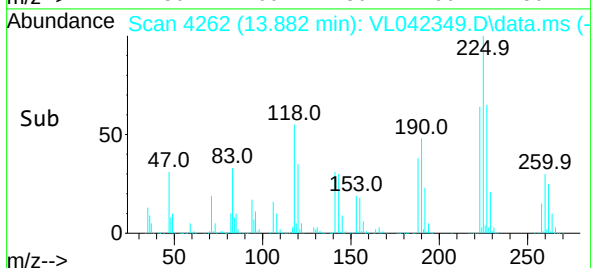
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

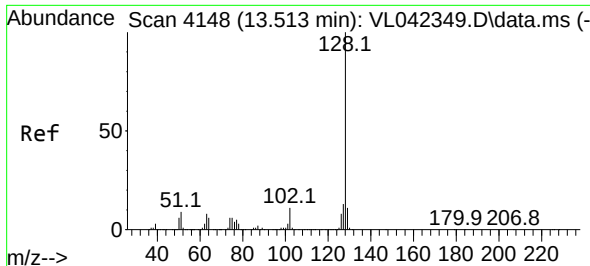


#78
Hexachloro-1,3-Butadiene
Concen: 8.346 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44



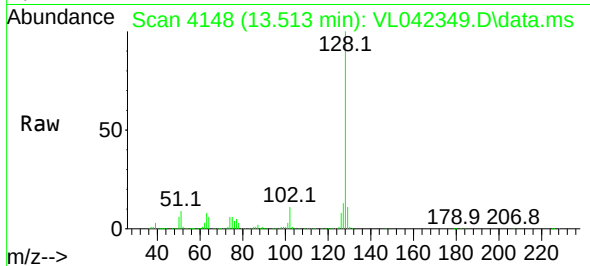
Tgt Ion:225 Resp: 291833
Ion Ratio Lower Upper
225 100
223 62.9 50.3 75.5
227 64.4 51.5 77.3





#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

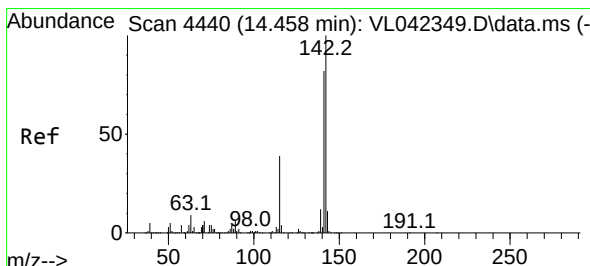
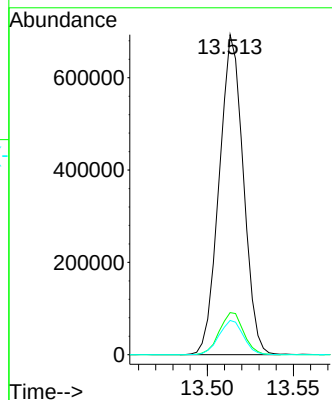
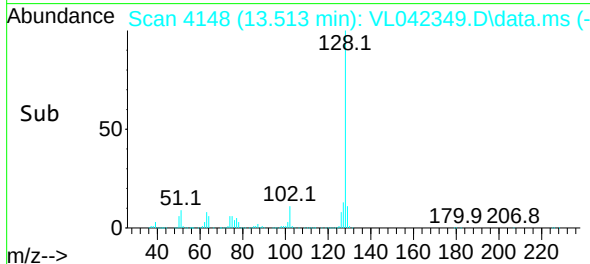
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



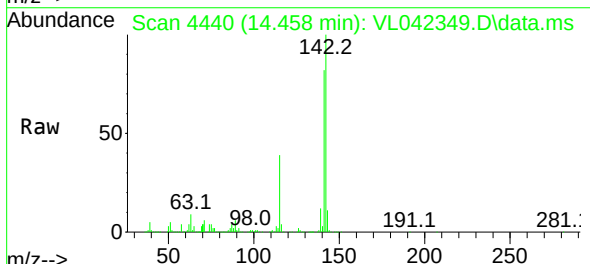
Tgt Ion:128 Resp: 677578
Ion Ratio Lower Upper
128 100
127 13.2 10.6 15.8
129 10.7 8.6 12.8

Manual Integrations
APPROVED

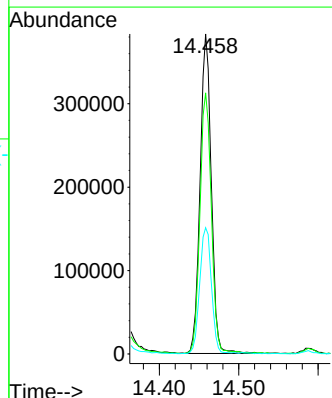
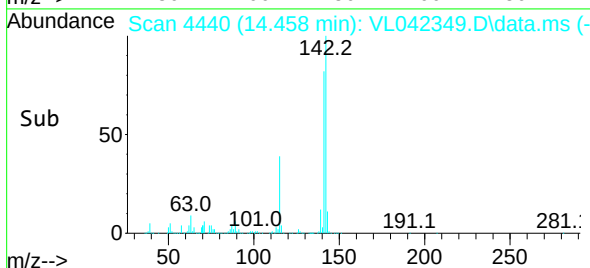
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

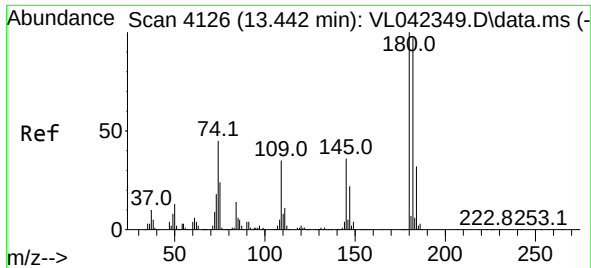


#80
Naphthalene,2-methyl-
Concen: 8.074 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44



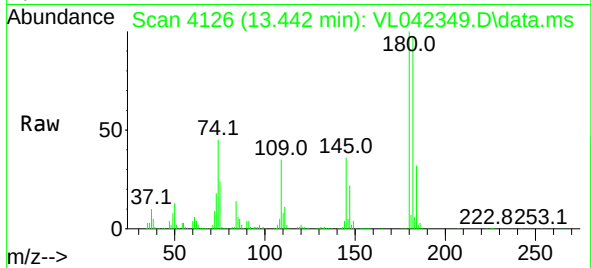
Tgt Ion:142 Resp: 376995
Ion Ratio Lower Upper
142 100
141 83.5 66.8 100.2
115 41.8 33.4 50.2





#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

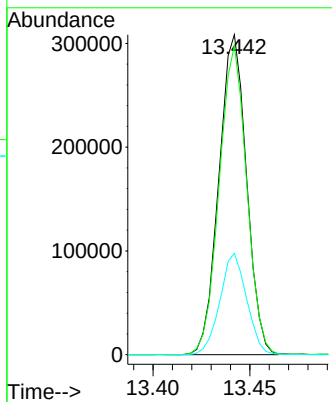
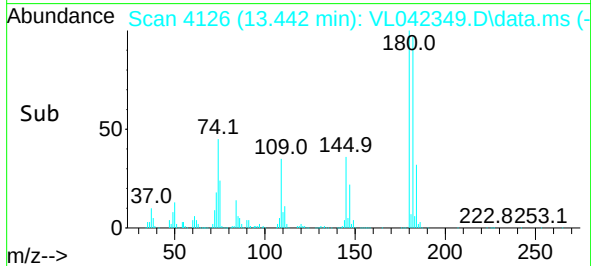
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



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

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

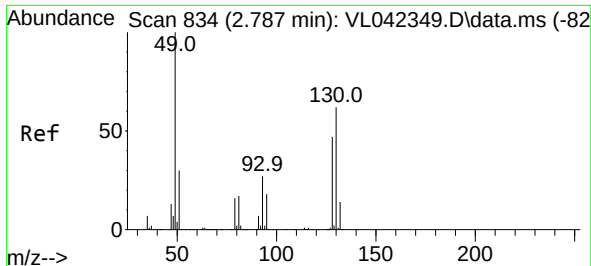
Response via : Initial Calibration

Manual Integrations APPROVED

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

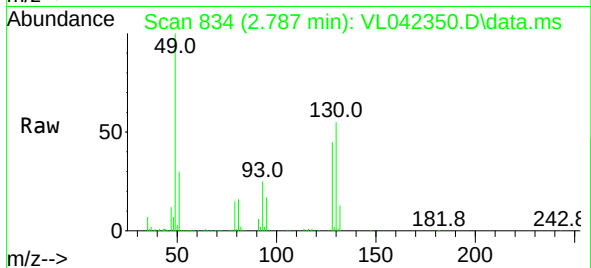
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.600	75	45327m	2.096	ppbv	
47) 1,1,2-Trichloroethane	6.590	97	29879	2.049	ppbv	88
48) Dibromochloromethane	7.389	129	53069	2.061	ppbv	100
49) Bromoform	9.483	173	48069	2.135	ppbv	97
50) 4-Methyl-2-Pentanone	5.758	43	102182	2.180	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

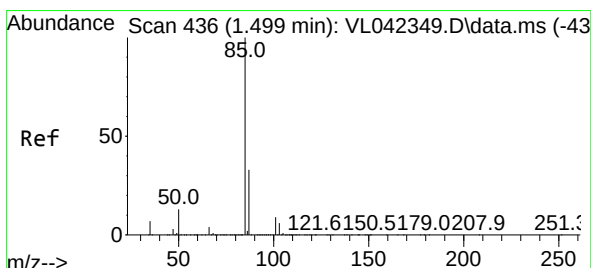
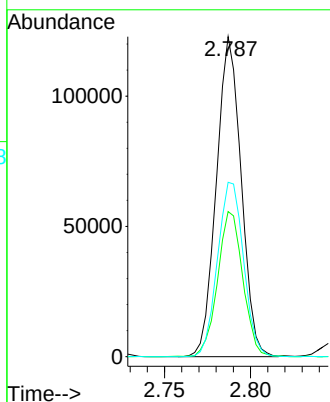
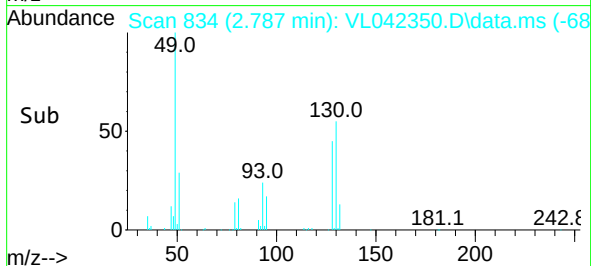
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



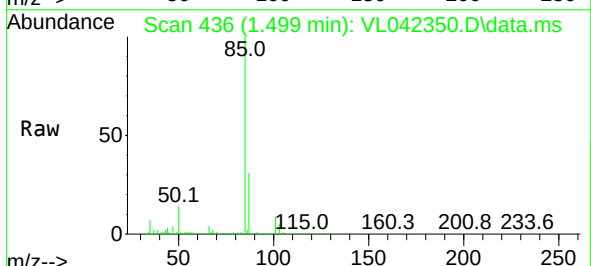
Tgt Ion: 49 Resp: 123200
Ion Ratio Lower Upper
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128 46.2 22.8 68.4
130 57.3 29.3 88.0

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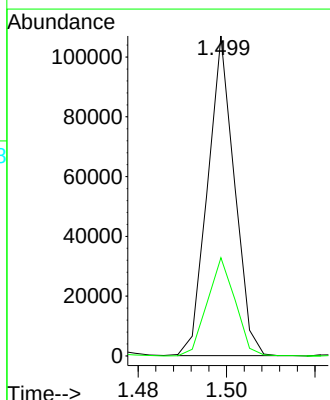
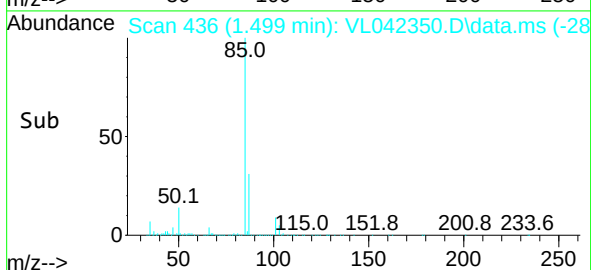
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

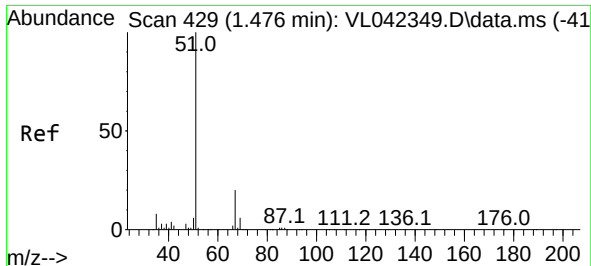


#2
Dichlorodifluoromethane
Concen: 2.068 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17



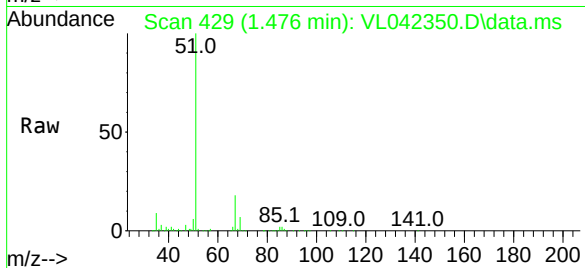
Tgt Ion: 85 Resp: 45008
Ion Ratio Lower Upper
85 100
87 30.6 26.6 39.8





#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

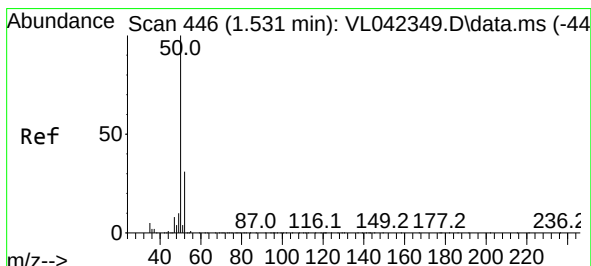
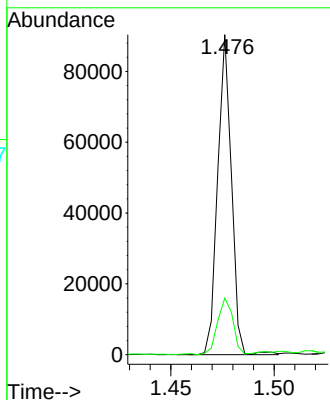
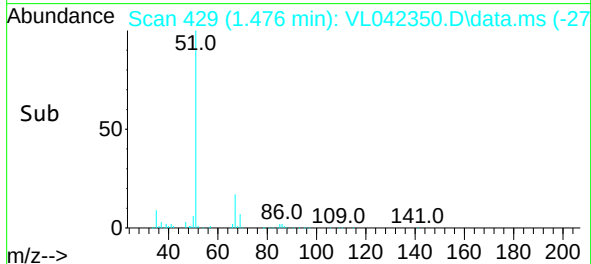
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



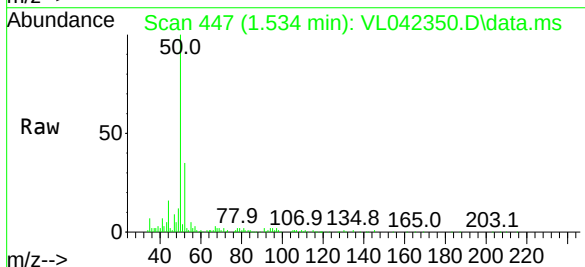
Tgt Ion: 51 Resp: 4185
Ion Ratio Lower Upper
51 100
67 21.7 16.2 24.4

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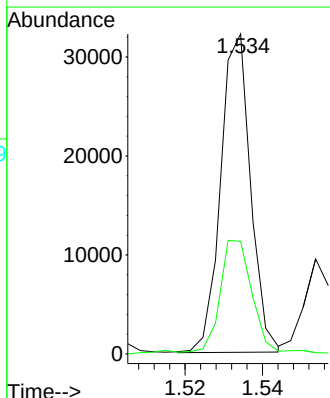
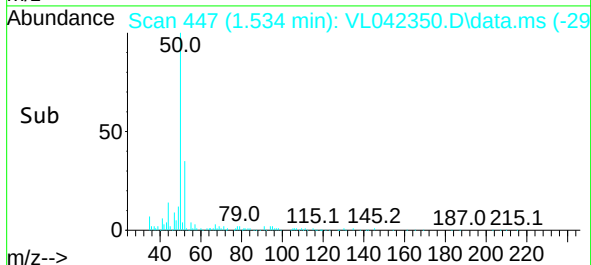
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

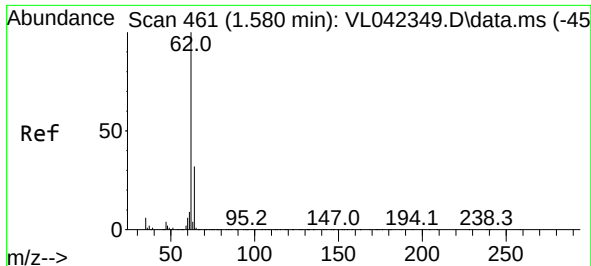


#4
Chloromethane
Concen: 2.005 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17



Tgt Ion: 50 Resp: 17272
Ion Ratio Lower Upper
50 100
52 34.9 24.7 37.1





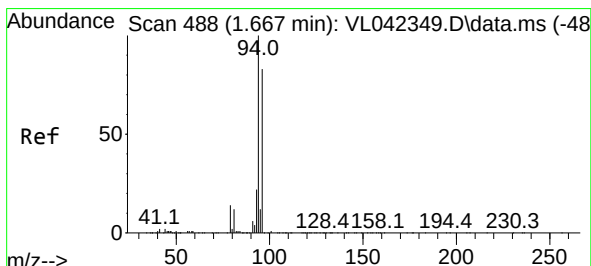
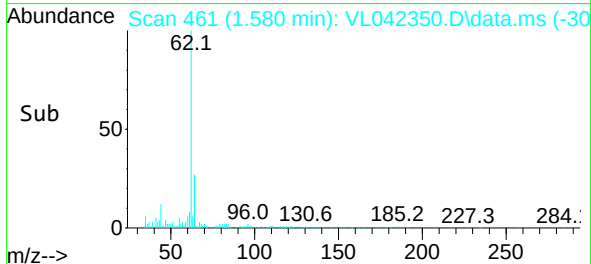
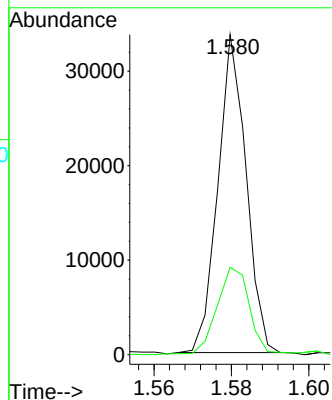
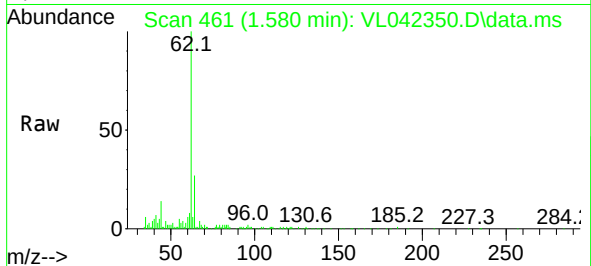
#5
 Vinyl Chloride
 Concen: 1.811 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. -0.000 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17

Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICC002

Tgt Ion: 62 Resp: 16979
 Ion Ratio Lower Upper
 62 100
 64 27.2 25.4 38.0

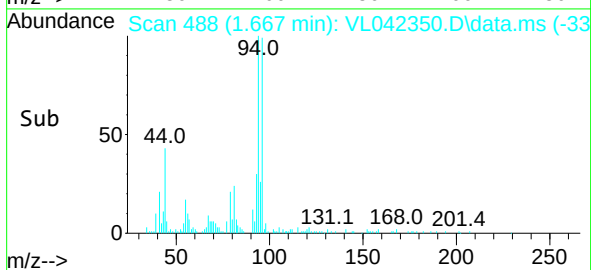
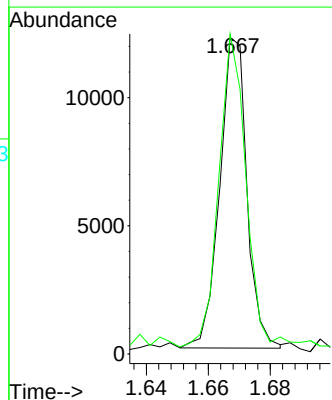
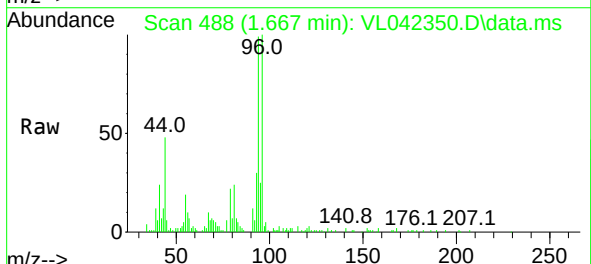
Manual Integrations
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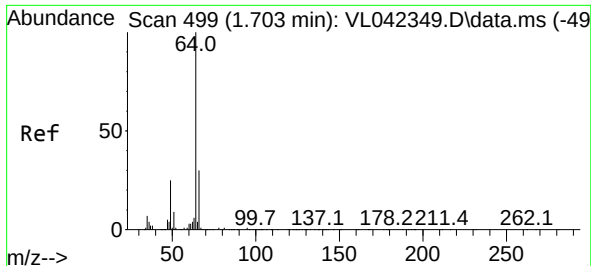
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



#6
 Bromomethane
 Concen: 1.821 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. -0.000 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17

Tgt Ion: 94 Resp: 7398
 Ion Ratio Lower Upper
 94 100
 96 100.8 66.2 99.2#





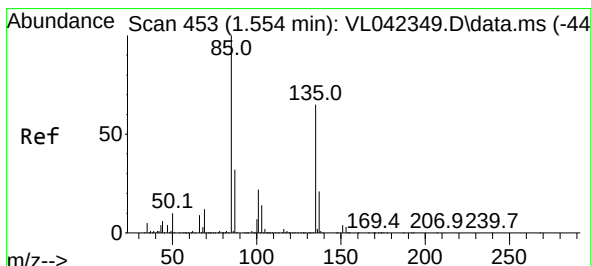
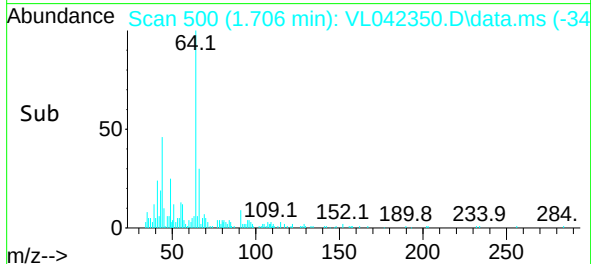
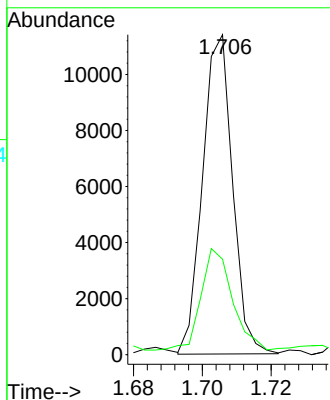
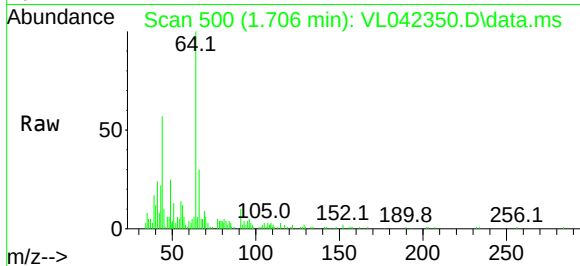
#7
Chloroethane
Concen: 2.031 ppbv
RT: 1.706 min Scan# 50
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 64 Resp: 6889
Ion Ratio Lower Upper
64 100
66 29.8 24.6 37.0

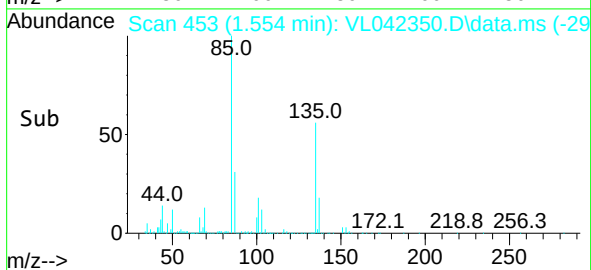
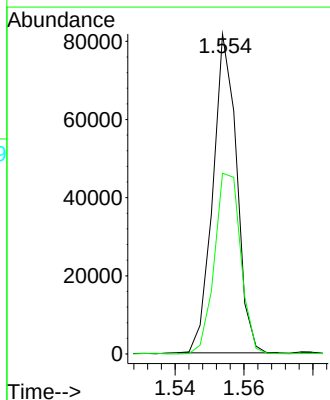
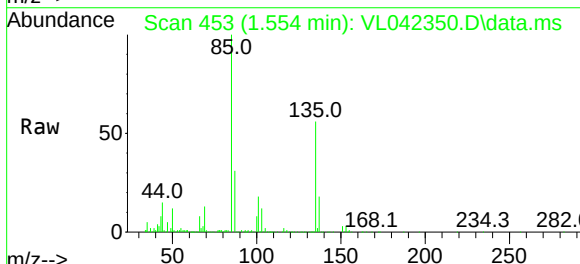
Manual Integrations
APPROVED

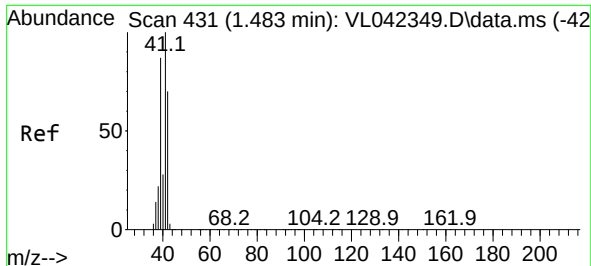
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

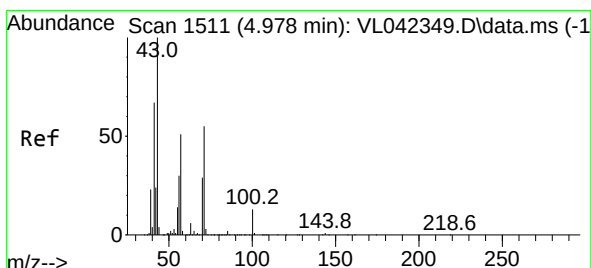
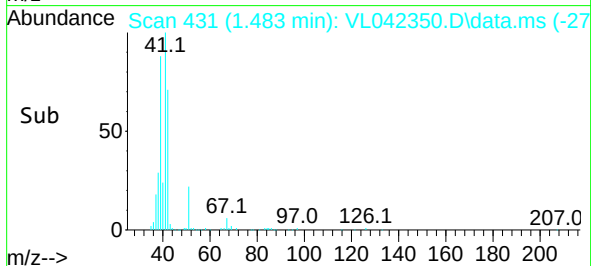
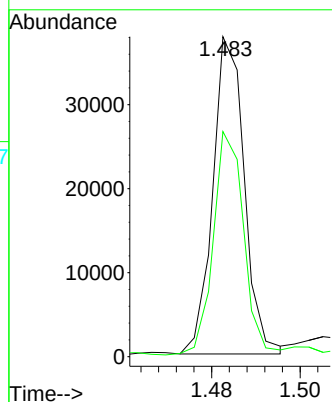
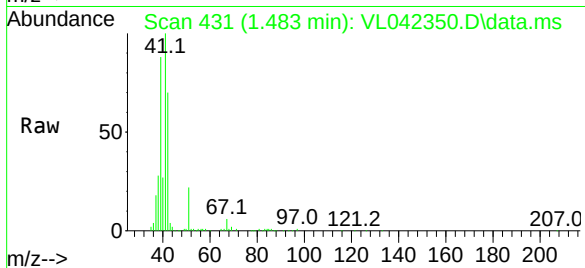
42 72.7 56.2 84.4

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

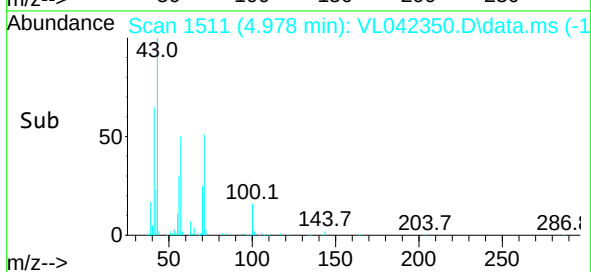
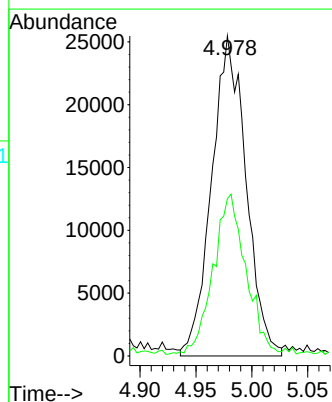
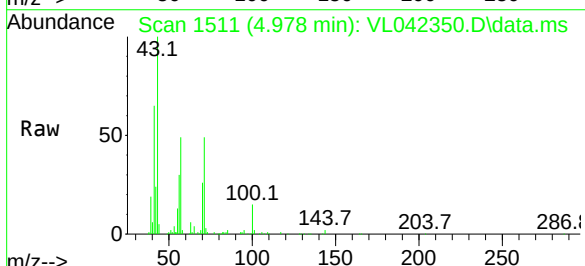
Acq: 17 Apr 2025 10:17

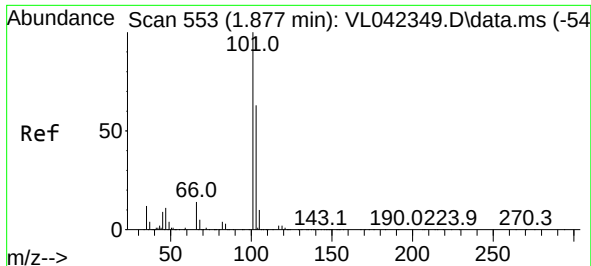
Tgt Ion: 43 Resp: 54438

Ion Ratio Lower Upper

43 100

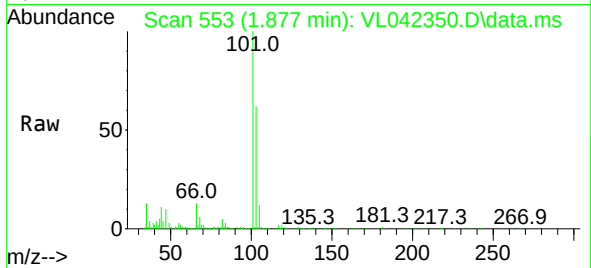
57 48.3 39.9 59.9





#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

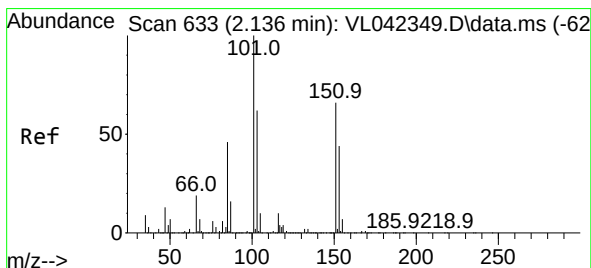
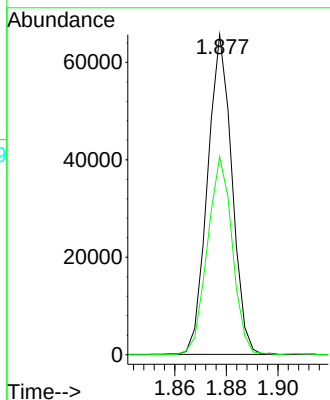
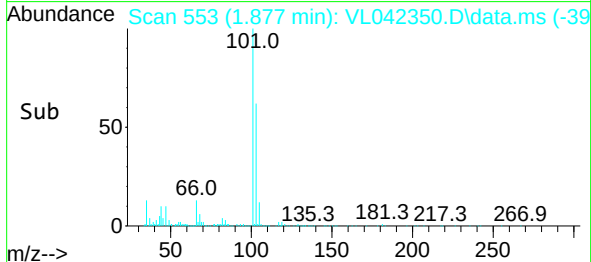
Instrument : MSVOA_L
 ClientSampleId : VSTDIC002



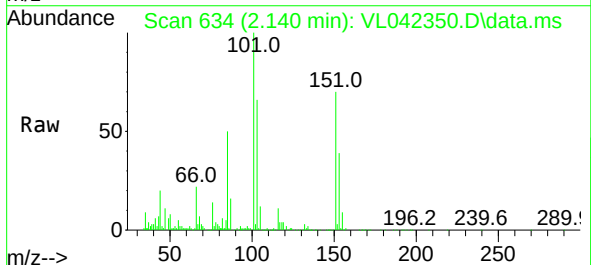
Tgt Ion:101 Resp: 43035
 Ion Ratio Lower Upper
 101 100
 103 61.9 50.1 75.1

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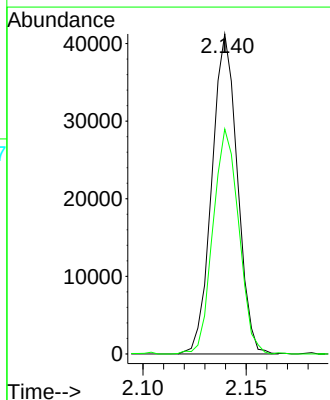
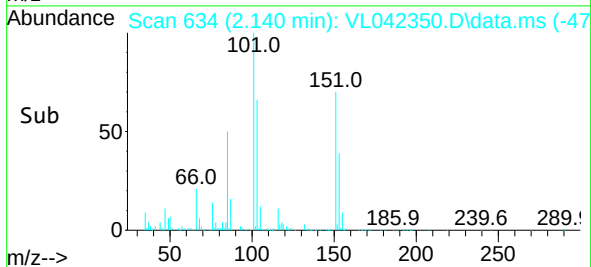
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

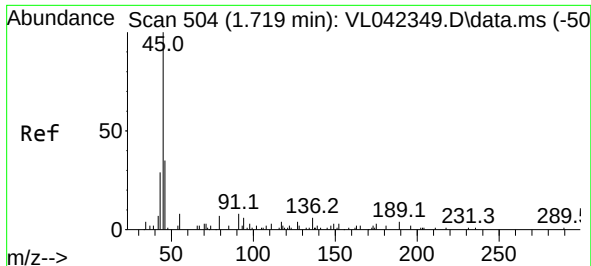


#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 2.092 ppbv
 RT: 2.140 min Scan# 634
 Delta R.T. 0.003 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17



Tgt Ion:101 Resp: 35415
 Ion Ratio Lower Upper
 101 100
 151 71.5 57.0 85.6





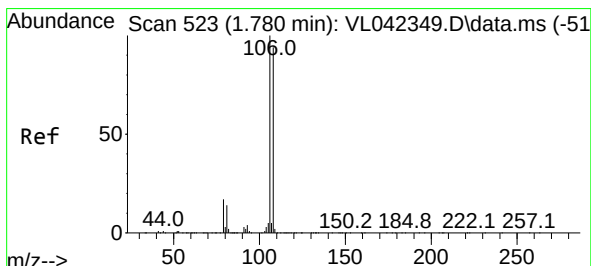
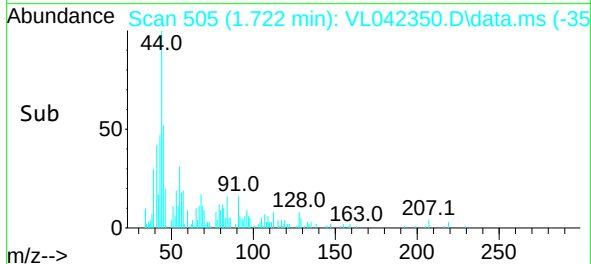
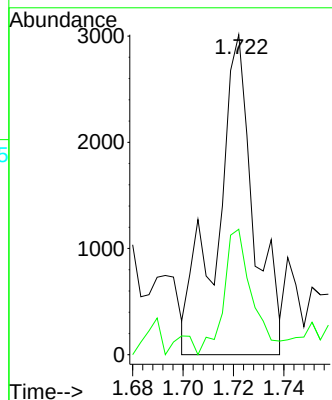
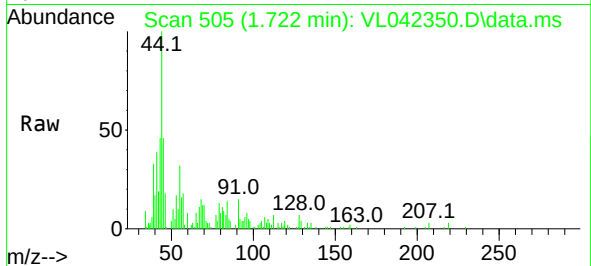
#13
Ethanol
Concen: 3.933 ppbv m
RT: 1.722 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 45 Resp: 3034
Ion Ratio Lower Upper
45 100
46 39.3 21.9 87.7

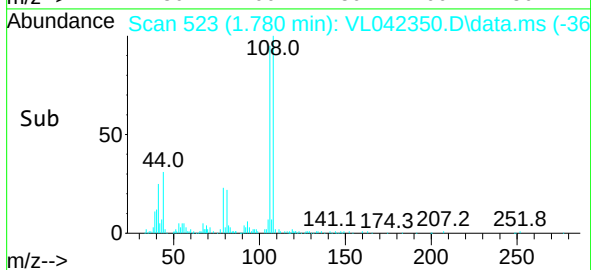
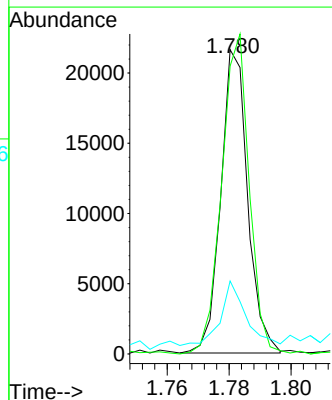
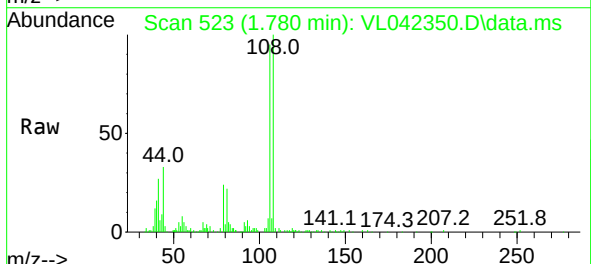
Manual Integrations
APPROVED

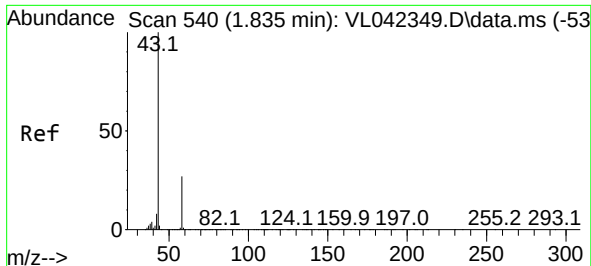
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

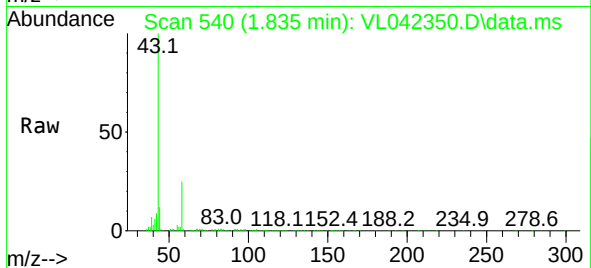
Tgt Ion:108 Resp: 13049
Ion Ratio Lower Upper
108 100
106 110.2 85.9 128.9
79 34.0 13.9 20.9#





#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

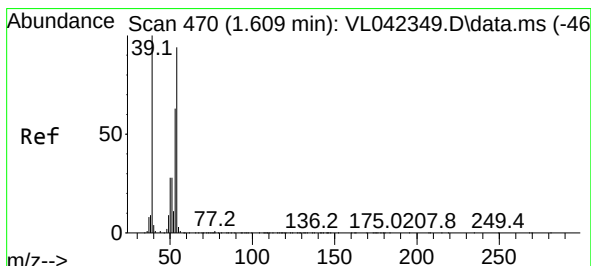
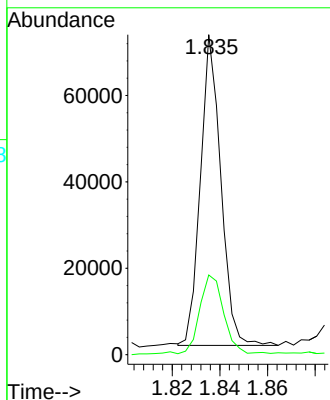
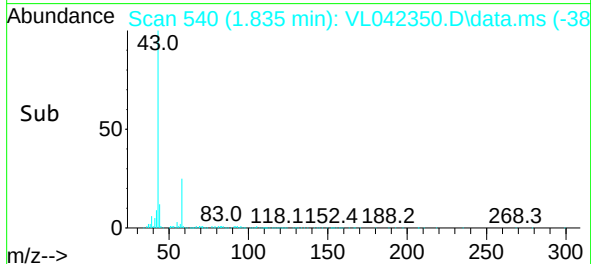
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



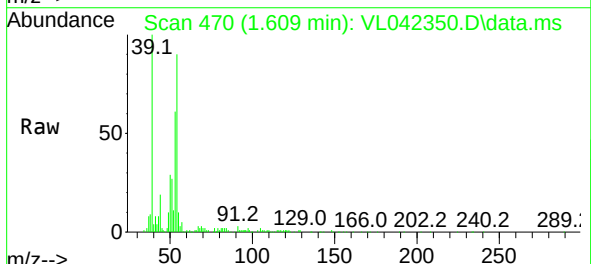
Tgt Ion: 43 Resp: 42949
Ion Ratio Lower Upper
43 100
58 31.4 22.4 33.6

Manual Integrations
APPROVED

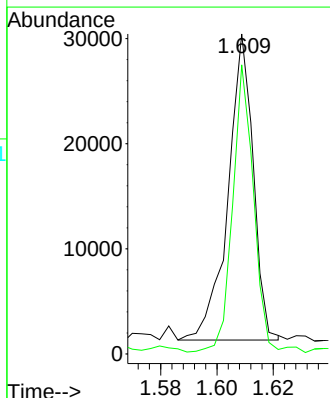
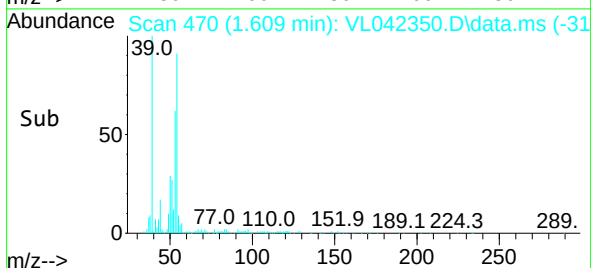
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

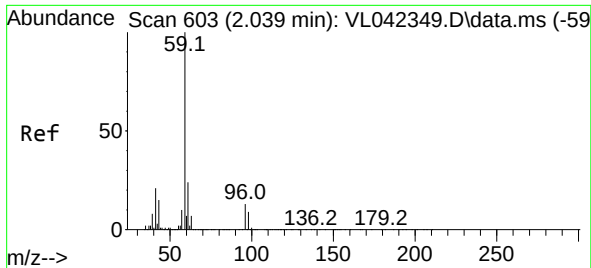


#16
1,3-Butadiene
Concen: 1.912 ppbv
RT: 1.609 min Scan# 470
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17



Tgt Ion: 39 Resp: 18110
Ion Ratio Lower Upper
39 100
54 77.2 64.9 97.3





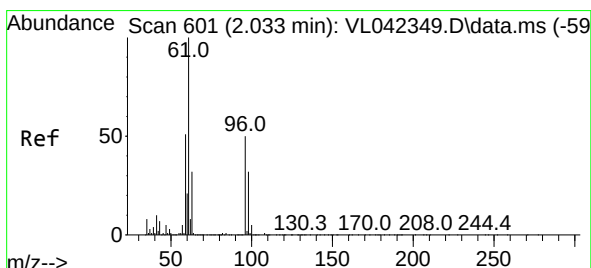
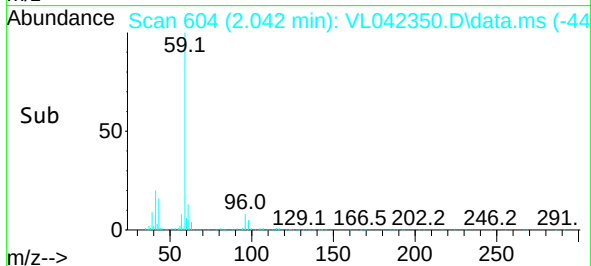
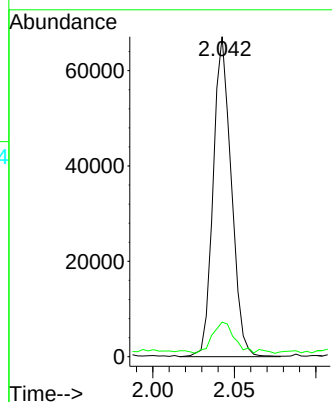
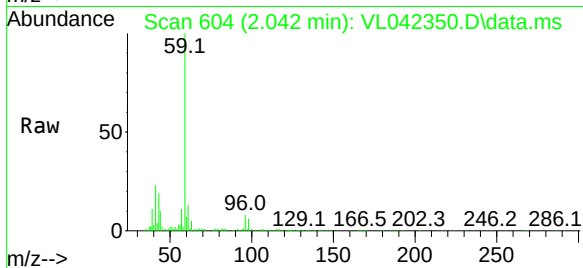
#17
tert-Butyl alcohol
Concen: 2.074 ppbv
RT: 2.042 min Scan# 604
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion: 59 Resp: 51829
Ion Ratio Lower Upper
59 100
57 13.2 8.7 13.1

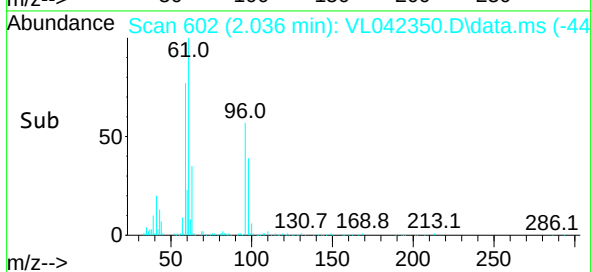
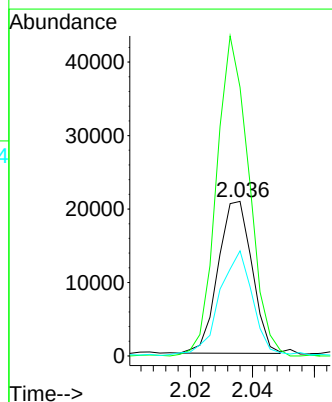
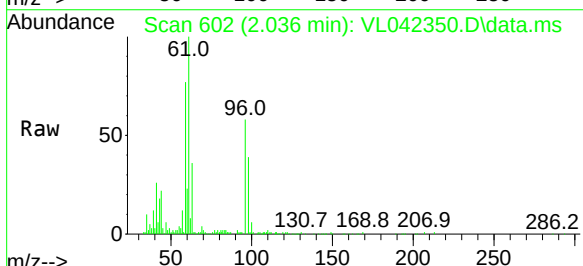
Manual Integrations
APPROVED

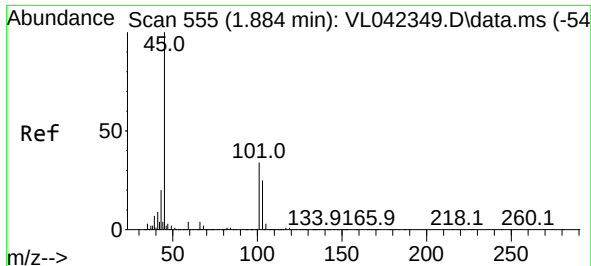
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

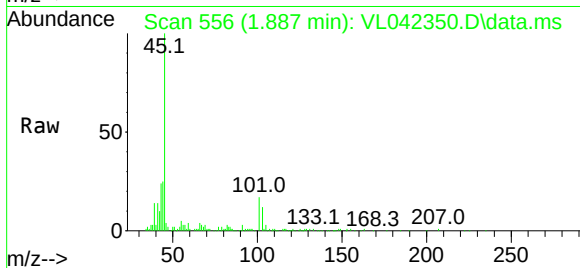
Tgt Ion: 96 Resp: 15690
Ion Ratio Lower Upper
96 100
61 176.1 160.2 240.2
98 67.2 51.0 76.4





#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

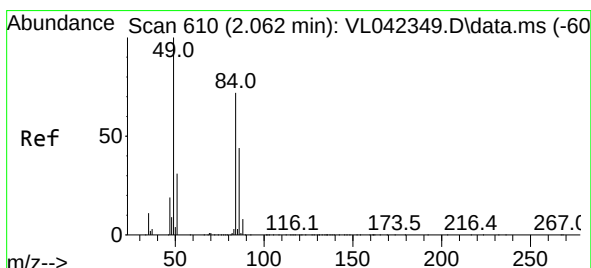
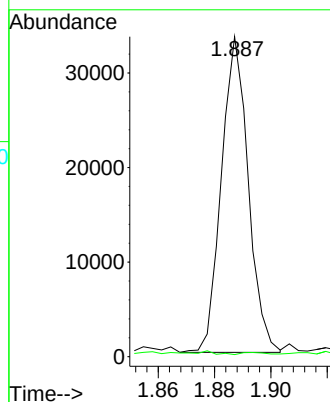
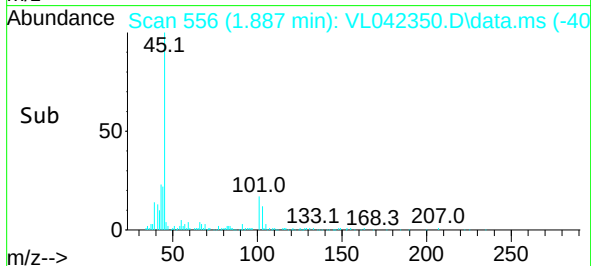
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



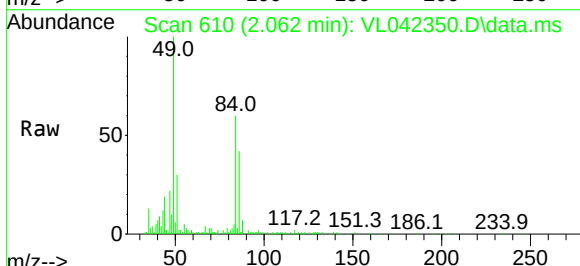
Tgt Ion: 45 Resp: 22100
Ion Ratio Lower Upper
45 100
58 3.6 34.5 51.7

Manual Integrations
APPROVED

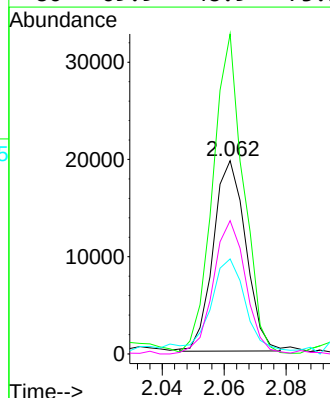
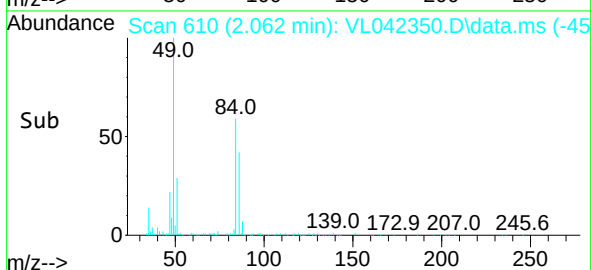
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

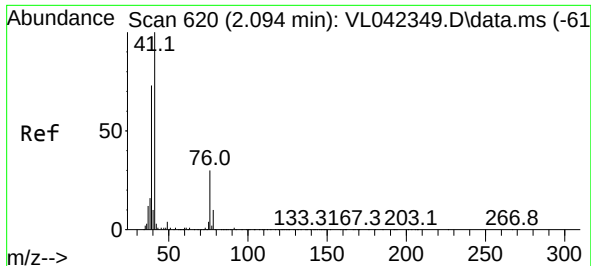


#20
Methylene Chloride
Concen: 1.814 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17



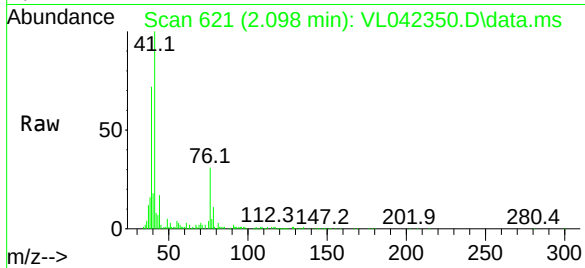
Tgt Ion: 84 Resp: 14329
Ion Ratio Lower Upper
84 100
49 169.1 111.6 167.4#
51 47.9 35.1 52.7
86 69.9 48.9 73.3





#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

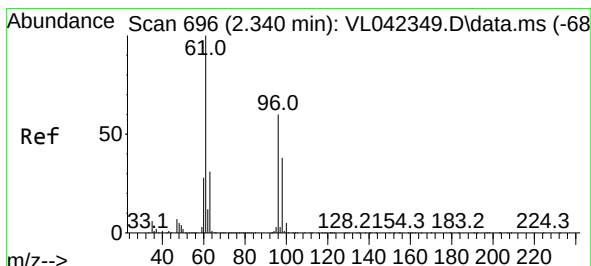
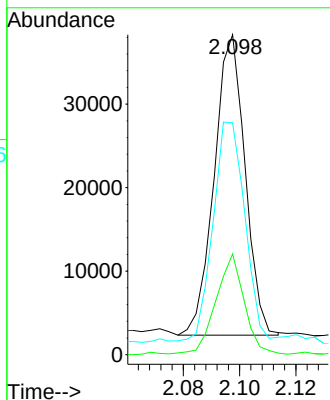
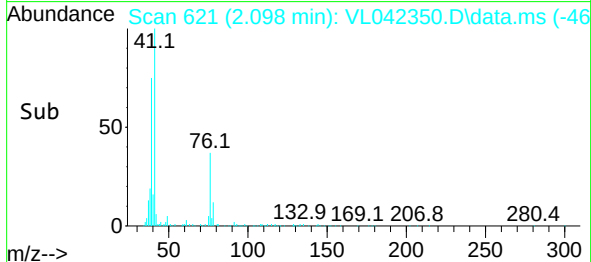
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002



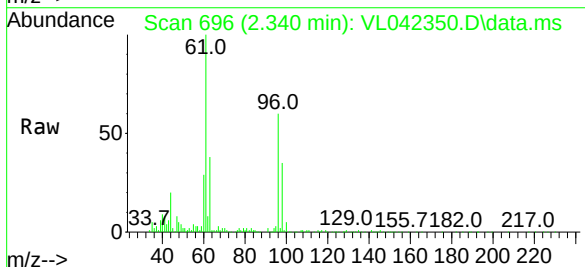
Tgt Ion: 41 Resp: 27340
 Ion Ratio Lower Upper
 41 100
 76 31.9 24.8 37.2
 39 81.2 60.6 90.8

Manual Integrations
 APPROVED

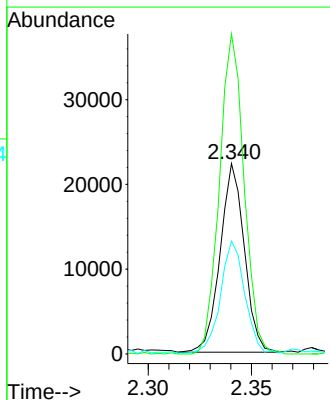
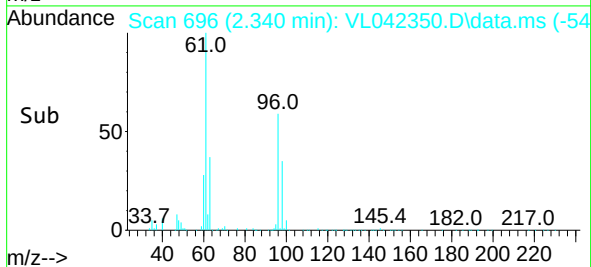
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

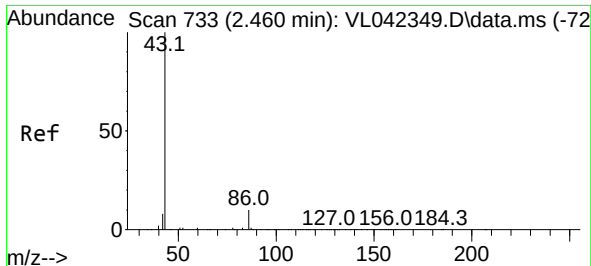


#22
 trans-1,2-Dichloroethene
 Concen: 2.015 ppbv
 RT: 2.340 min Scan# 696
 Delta R.T. -0.000 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17



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

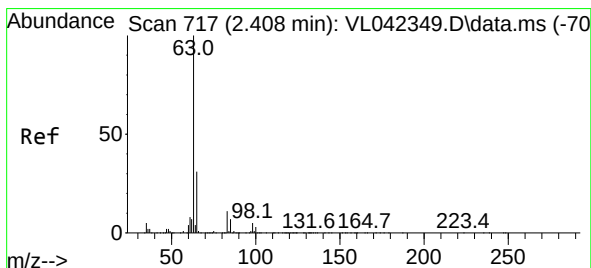
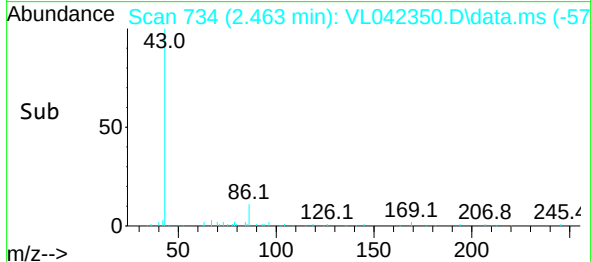
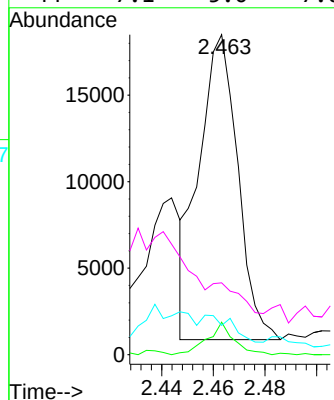
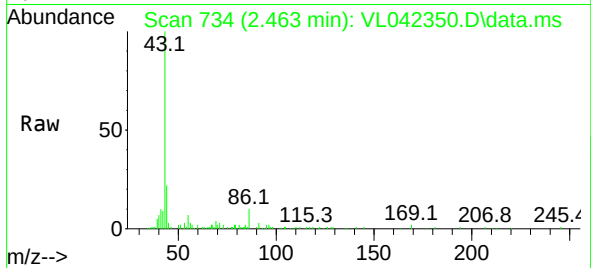
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

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

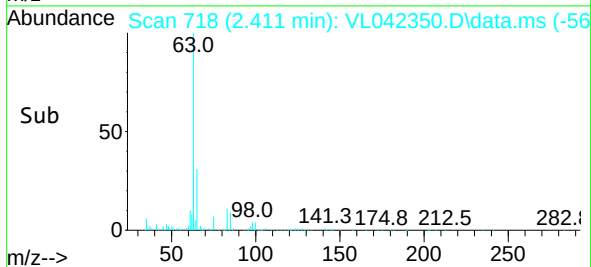
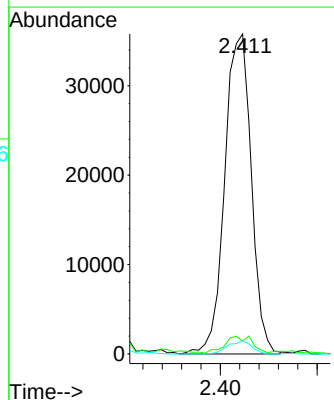
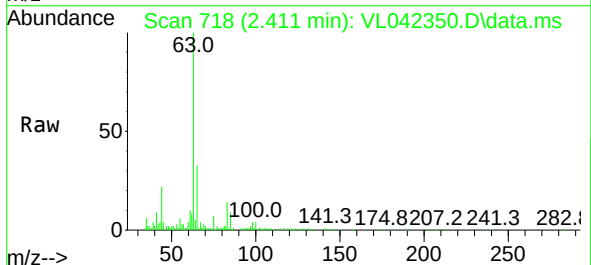
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

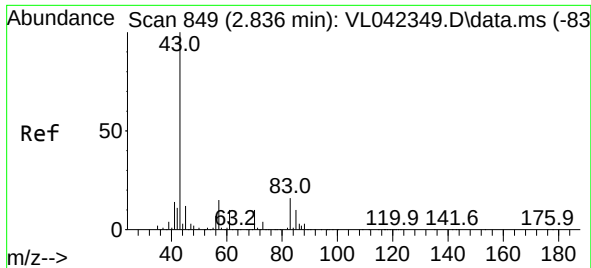


#24
 1,1-Dichloroethane
 Concen: 1.993 ppbv
 RT: 2.411 min Scan# 718
 Delta R.T. 0.003 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17

Tgt Ion: 63 Resp: 34077

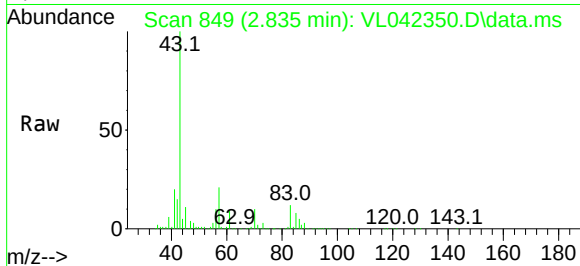
Ion	Ratio	Lower	Upper
63	100		
98	3.1	2.3	6.8
100	4.2	1.6	4.8





#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

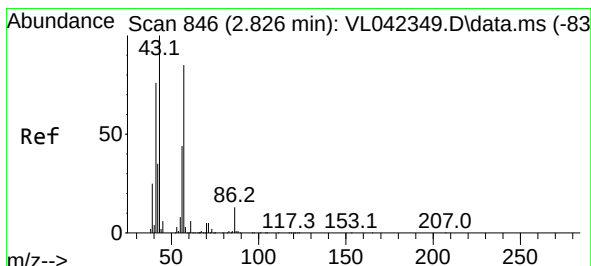
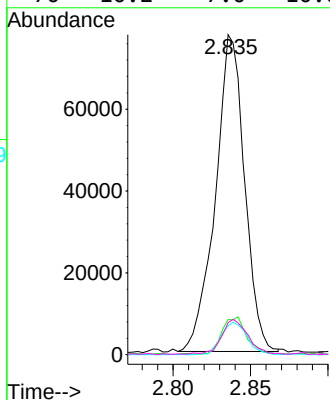
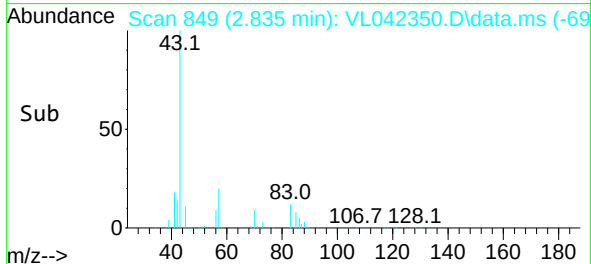
Instrument : MSVOA_L
ClientSampleId : VSTDICC002



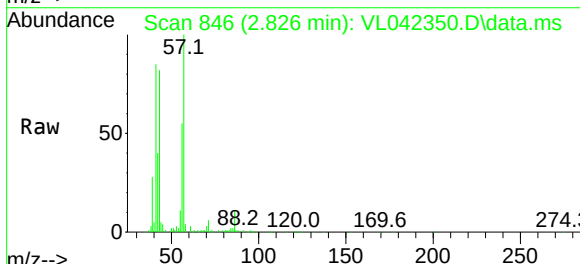
Tgt Ion: 43 Resp: 10146
Ion Ratio Lower Upper
43 100
45 10.4 8.3 12.5
61 9.2 7.3 10.9
70 10.2 7.0 10.6

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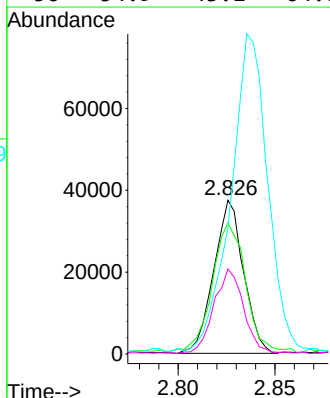
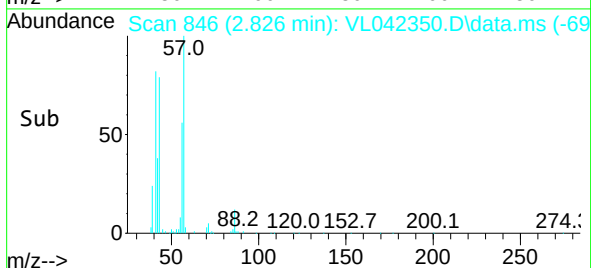
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

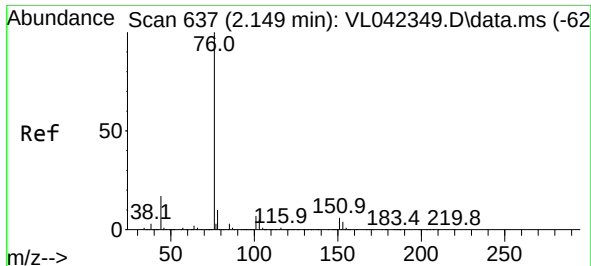


#26
Hexane
Concen: 1.990 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17



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





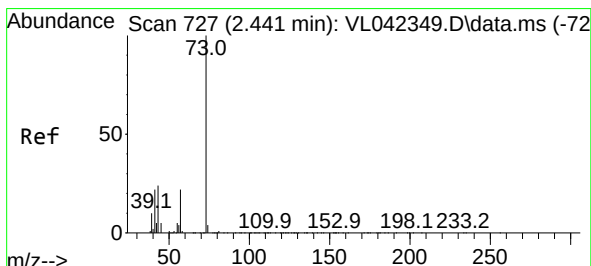
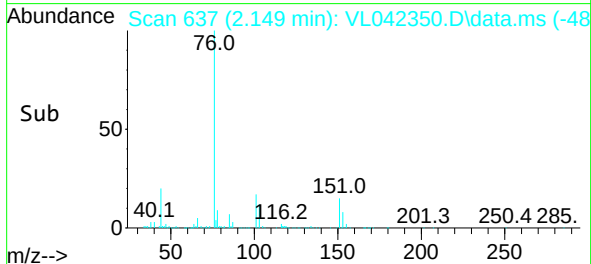
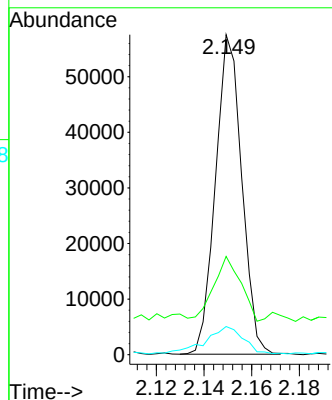
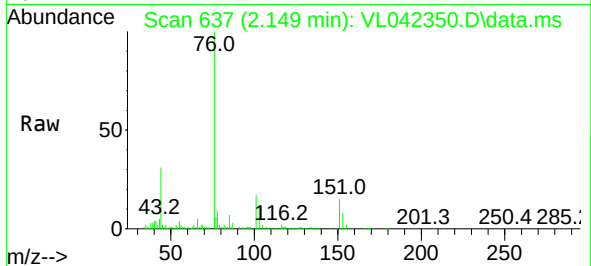
#27
Carbon Disulfide
Concen: 2.041 ppbv
RT: 2.149 min Scan# 61
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

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

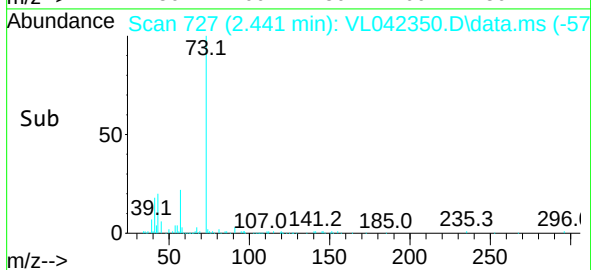
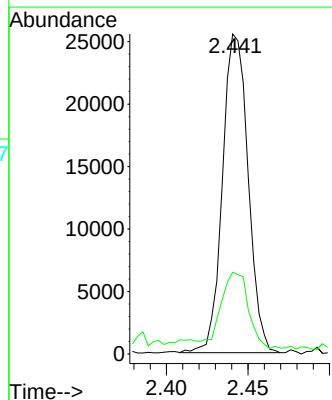
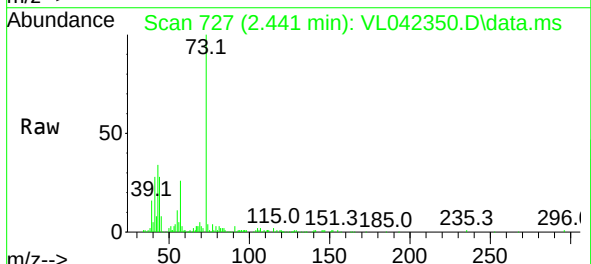
Manual Integrations
APPROVED

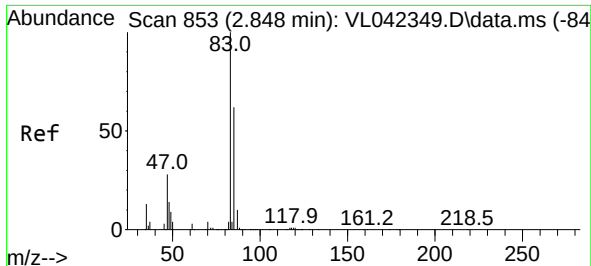
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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# 853

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

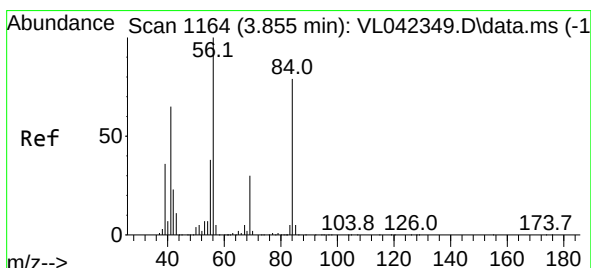
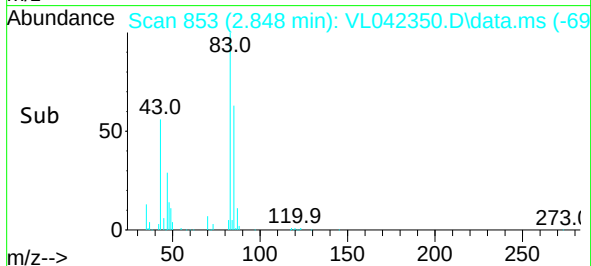
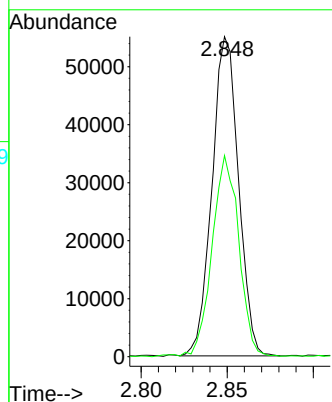
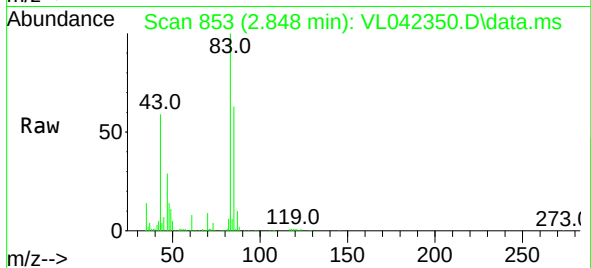
85 62.9 50.0 75.0

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

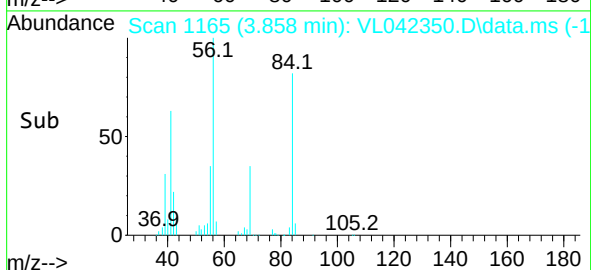
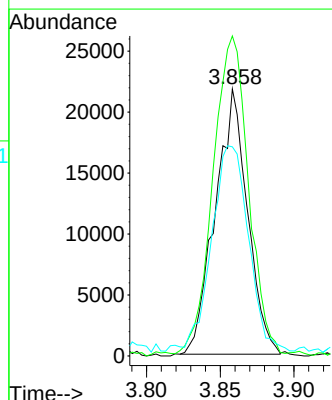
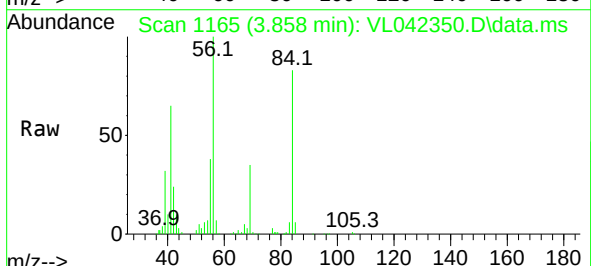
Tgt Ion: 84 Resp: 33195

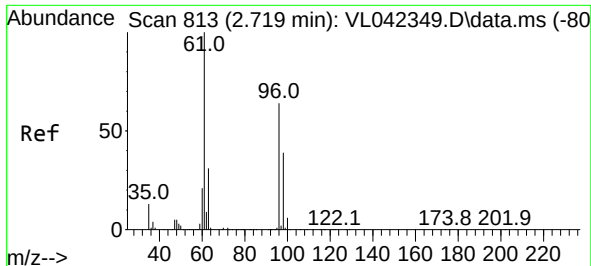
Ion Ratio Lower Upper

84 100

56 134.5 101.0 151.4

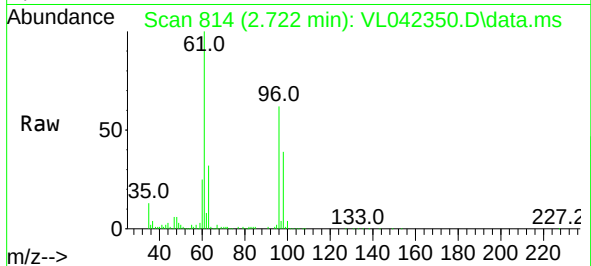
41 88.1 67.4 101.0





#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

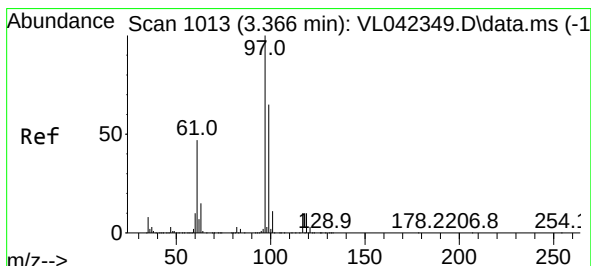
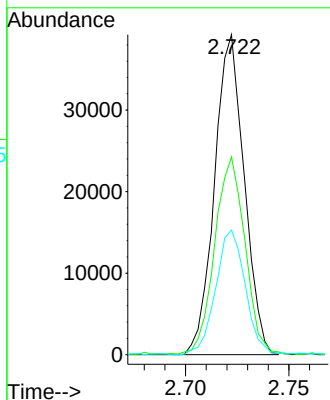
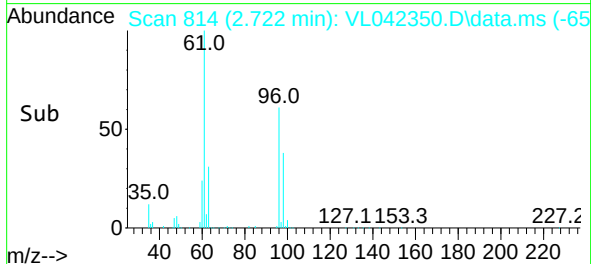
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



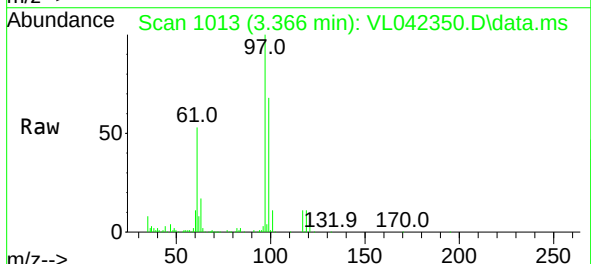
Tgt Ion: 61 Resp: 39249
Ion Ratio Lower Upper
61 100
96 61.6 50.8 76.2
98 39.0 30.9 46.3

Manual Integrations
APPROVED

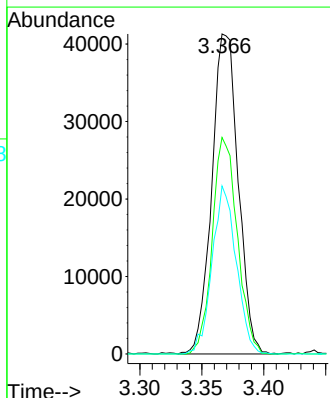
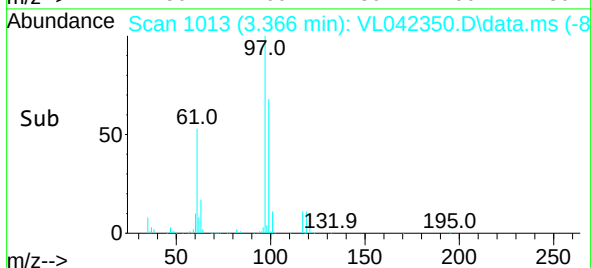
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

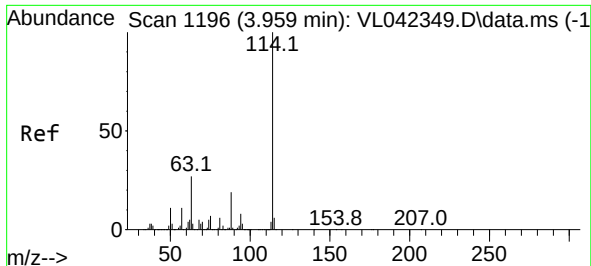


#32
1,1,1-Trichloroethane
Concen: 2.014 ppbv
RT: 3.366 min Scan# 1013
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17



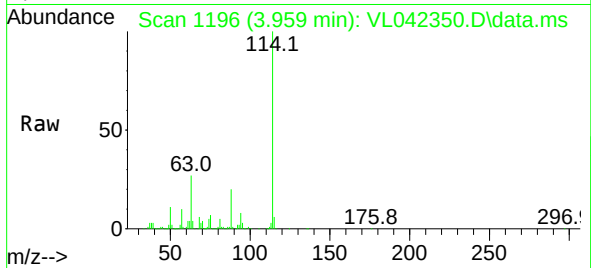
Tgt Ion: 97 Resp: 61442
Ion Ratio Lower Upper
97 100
99 64.0 51.0 76.4
61 48.0 38.8 58.2





#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

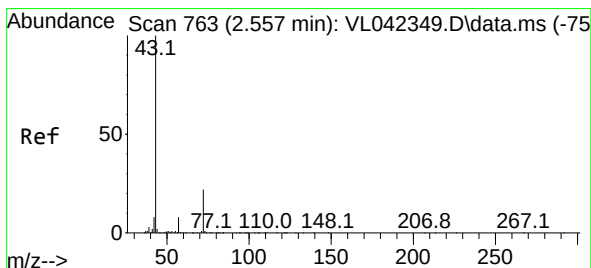
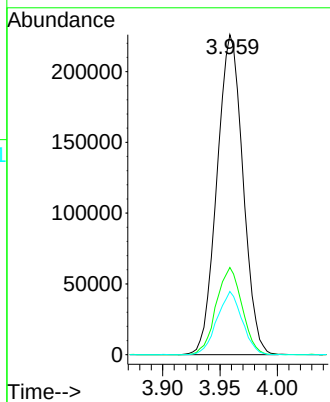
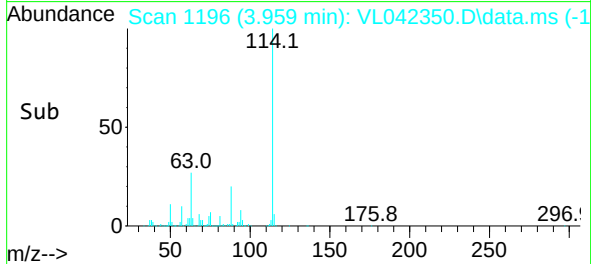
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



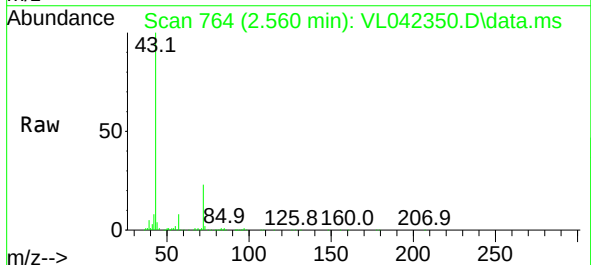
Tgt Ion:114 Resp: 355918
Ion Ratio Lower Upper
114 100
63 27.1 21.8 32.6
88 19.0 15.5 23.3

Manual Integrations
APPROVED

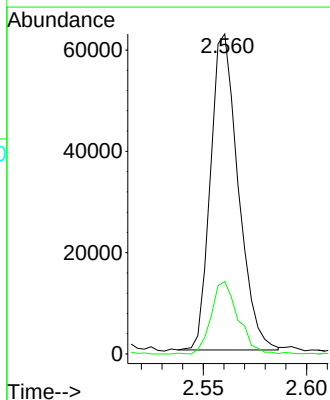
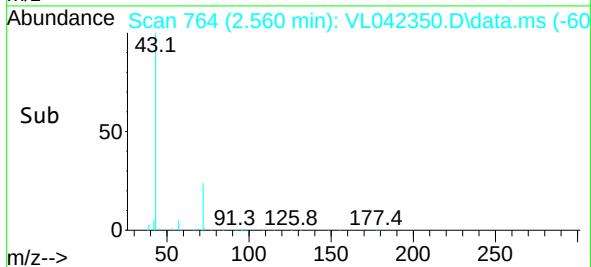
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

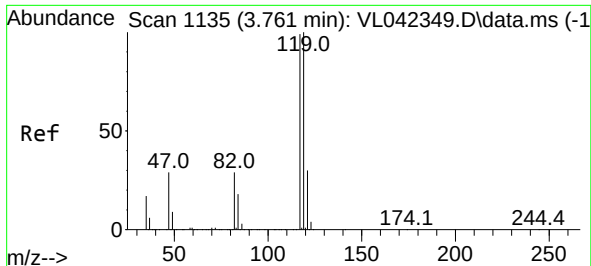


#34
2-Butanone
Concen: 2.069 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17



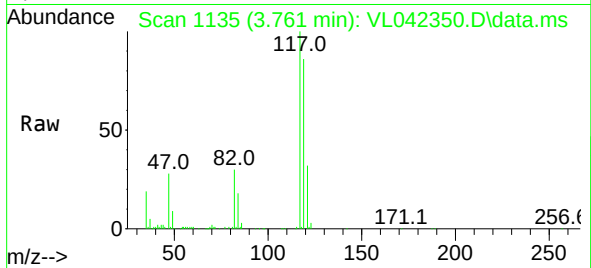
Tgt Ion: 43 Resp: 58249
Ion Ratio Lower Upper
43 100
72 22.5 18.2 27.2





#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

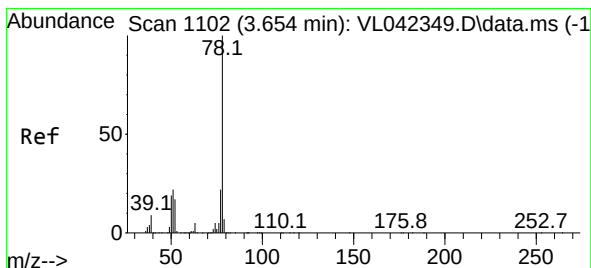
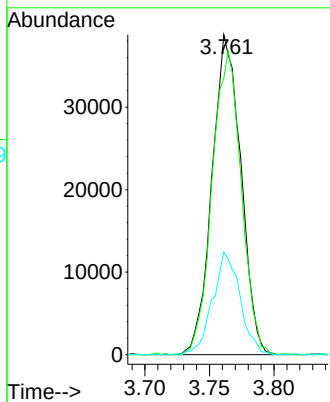
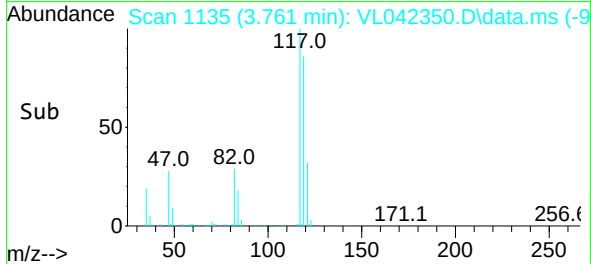
Instrument : MSVOA_L
ClientSampleId : VSTDIC002



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

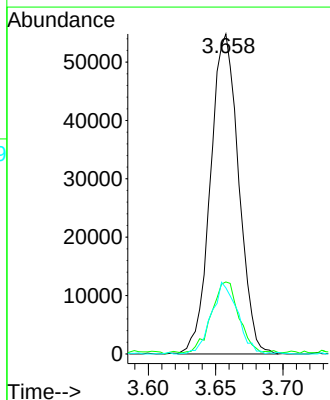
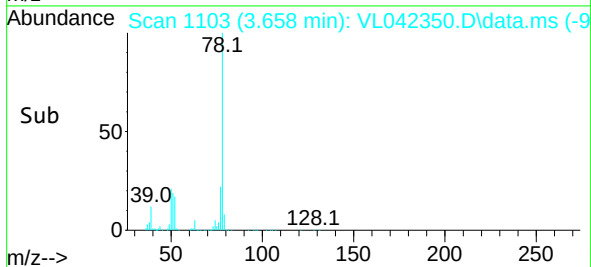
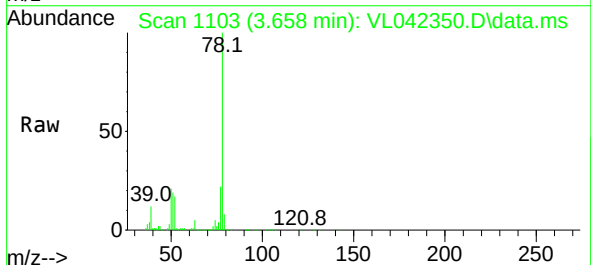
Manual Integrations
APPROVED

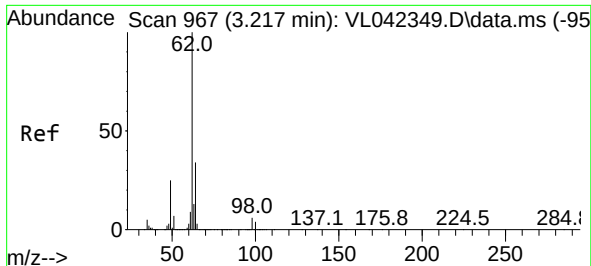
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

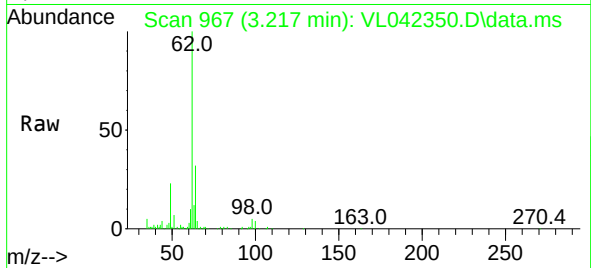
Tgt Ion: 78 Resp: 79814
Ion Ratio Lower Upper
78 100
77 22.0 17.4 26.0
50 20.6 15.5 23.3





#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

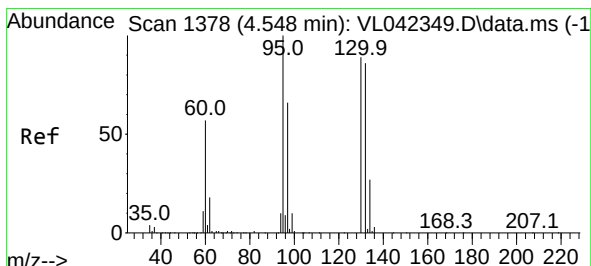
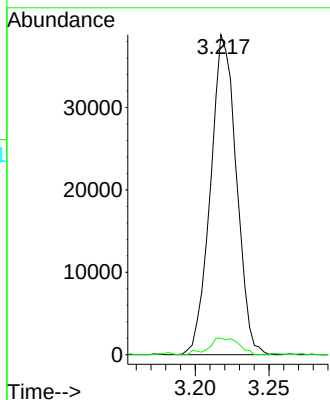
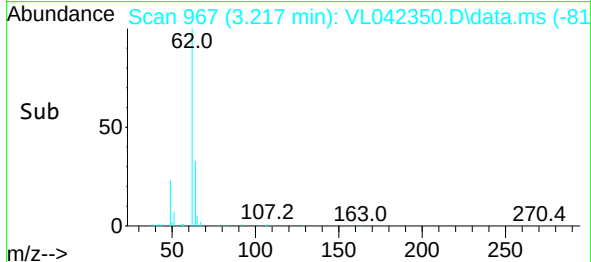
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



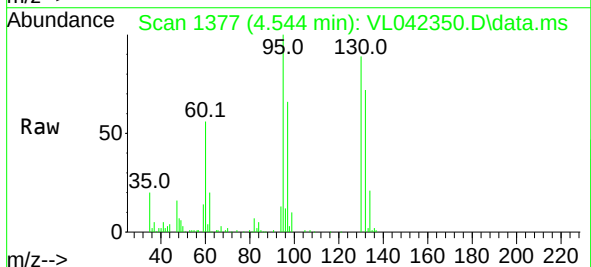
Tgt Ion: 62 Resp: 47398
Ion Ratio Lower Upper
62 100
98 6.4 5.1 7.7

Manual Integrations
APPROVED

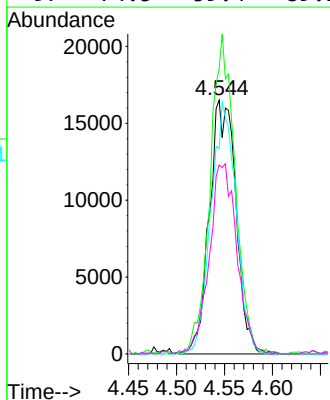
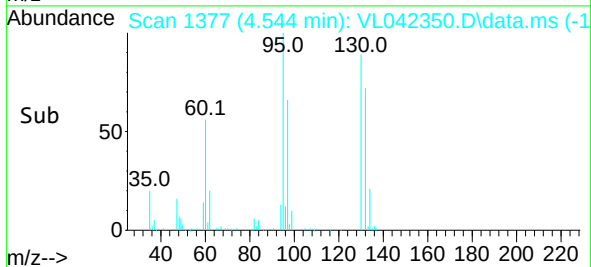
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

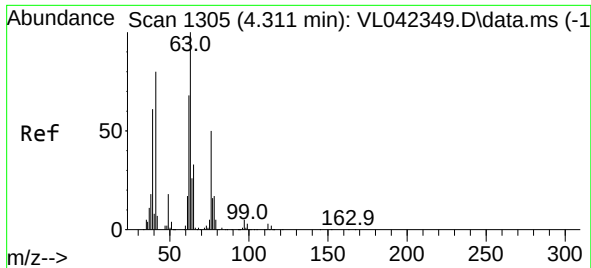


#38
Trichloroethene
Concen: 1.891 ppbv m
RT: 4.544 min Scan# 1377
Delta R.T. -0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17



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 :

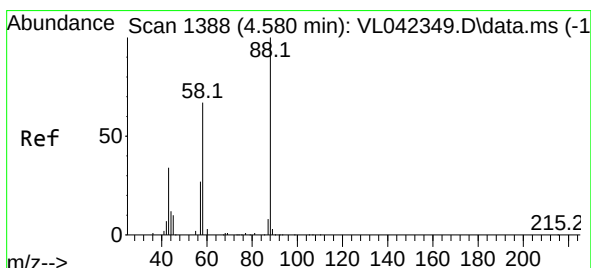
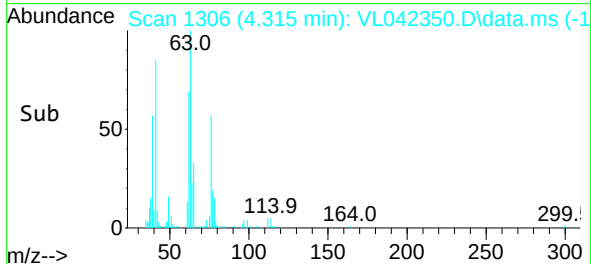
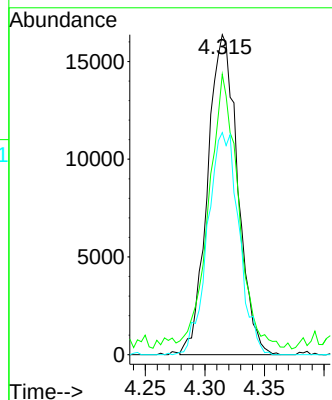
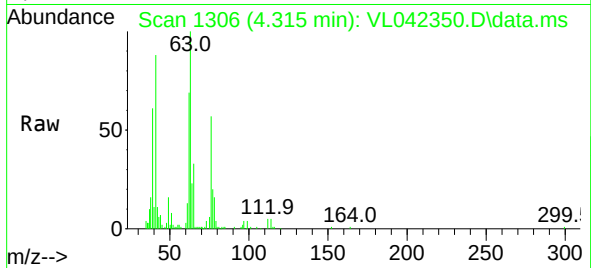
VSTDICC002

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

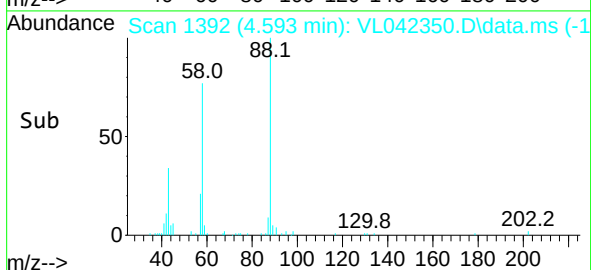
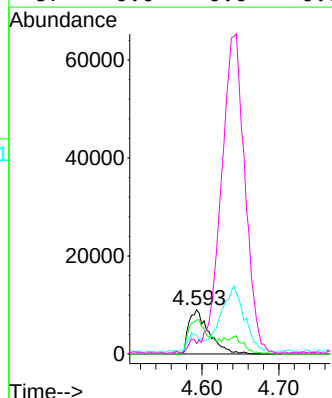
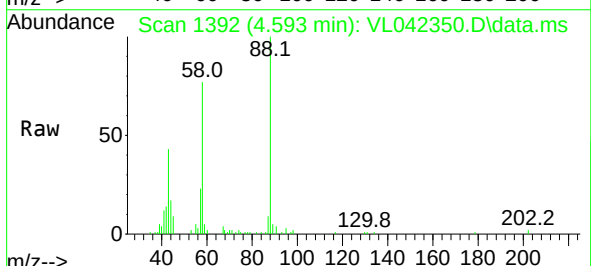
RT: 4.593 min Scan# 1392

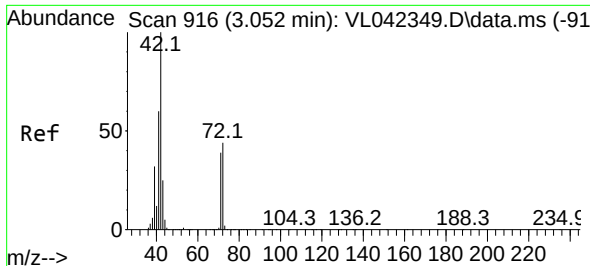
Delta R.T. 0.013 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

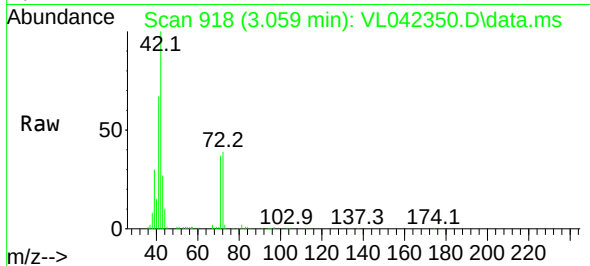
Tgt Ion: 88	Resp: 16536
Ion Ratio	Lower Upper
88 100	
58 82.3	61.4 92.0
43 6.1	23.2 34.8#
57 0.0	0.0 0.0





#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

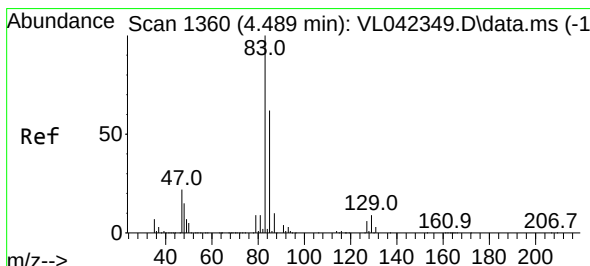
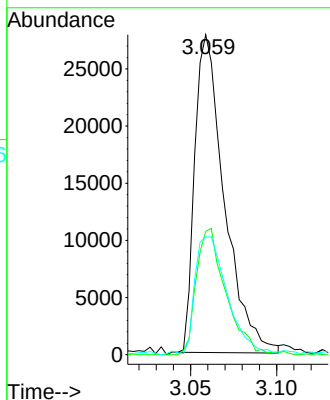
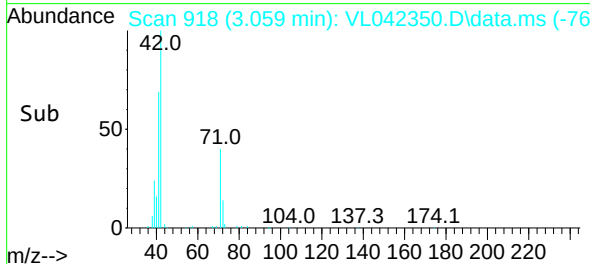
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



Tgt Ion: 42 Resp: 33298
Ion Ratio Lower Upper
42 100
72 39.9 32.3 48.5
71 41.5 31.4 47.2

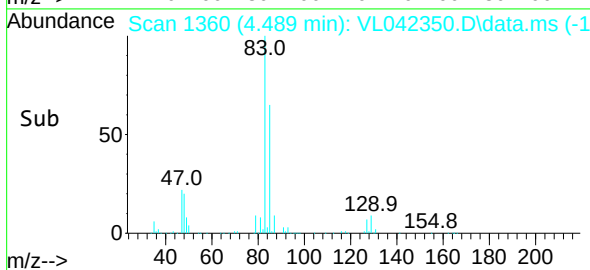
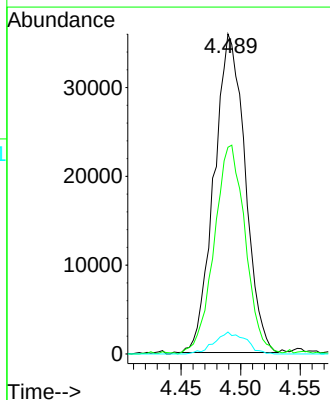
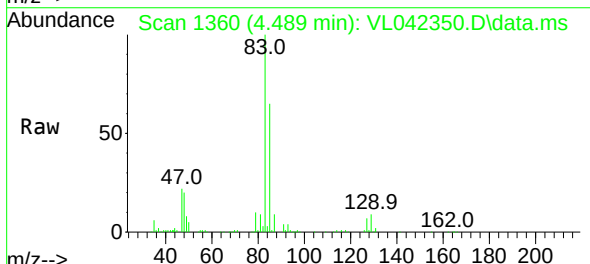
Manual Integrations
APPROVED

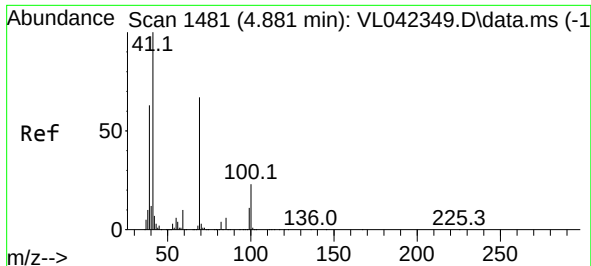
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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





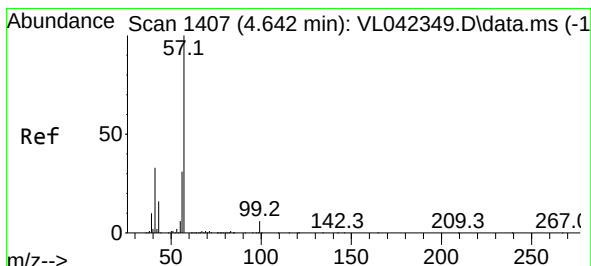
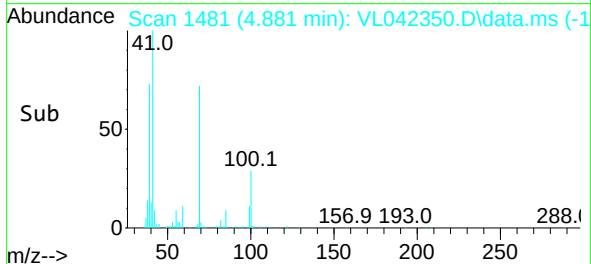
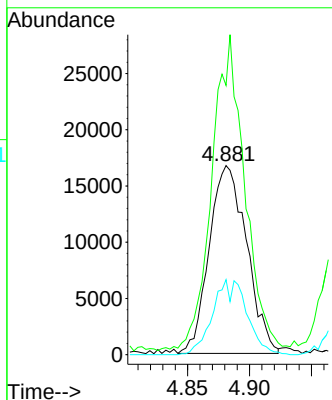
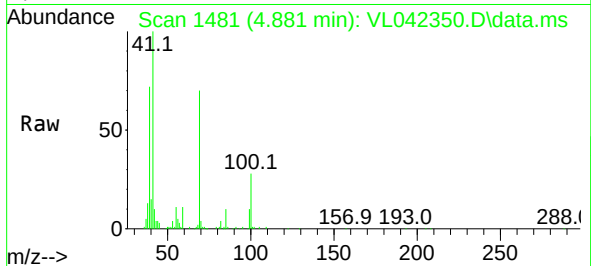
#43
Methyl Methacrylate
Concen: 2.046 ppbv
RT: 4.881 min Scan# 1481
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 69 Resp: 35250
Ion Ratio Lower Upper
69 100
41 144.4 118.6 177.8
100 36.5 28.2 42.2

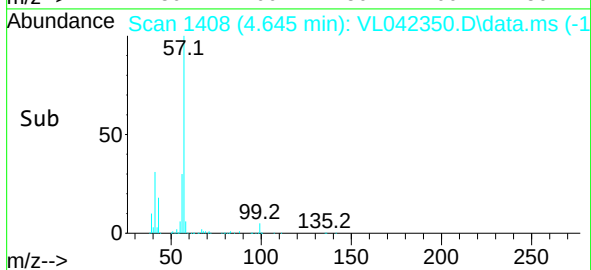
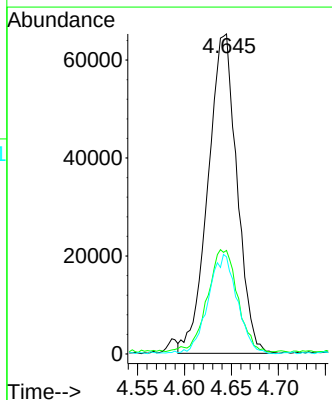
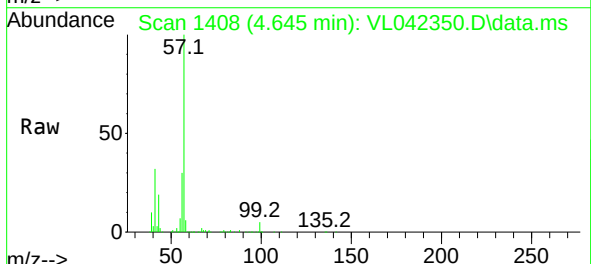
Manual Integrations
APPROVED

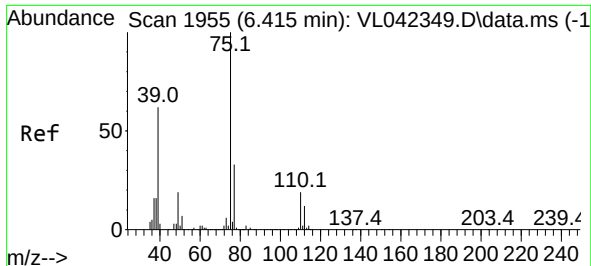
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#44
2,2,4-Trimethylpentane
Concen: 2.103 ppbv
RT: 4.645 min Scan# 1408
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

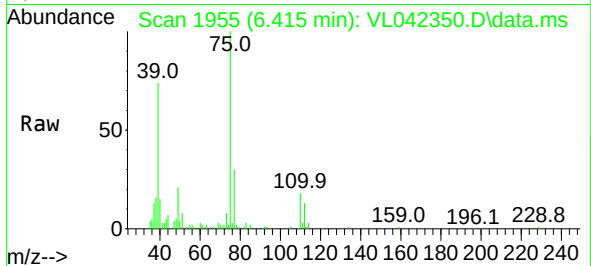
Tgt Ion: 57 Resp: 139641
Ion Ratio Lower Upper
57 100
41 34.4 27.2 40.8
56 31.3 25.7 38.5





#45
 t-1,3-Dichloropropene
 Concen: 2.050 ppbv
 RT: 6.415 min Scan# 1955
 Delta R.T. -0.000 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17

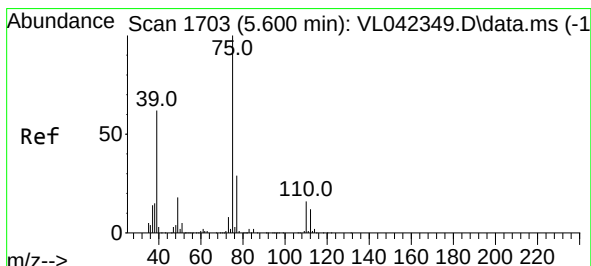
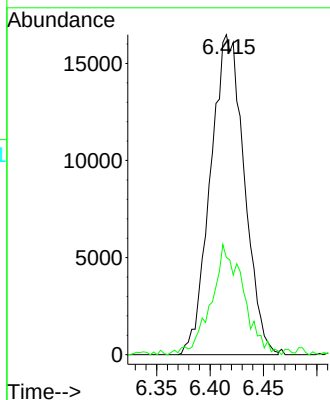
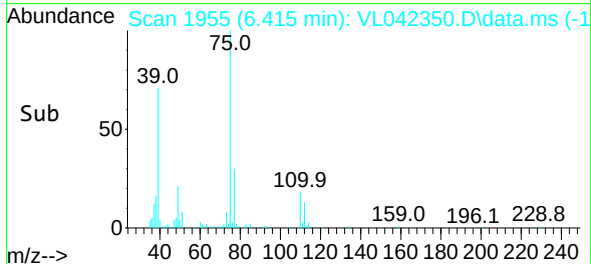
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002



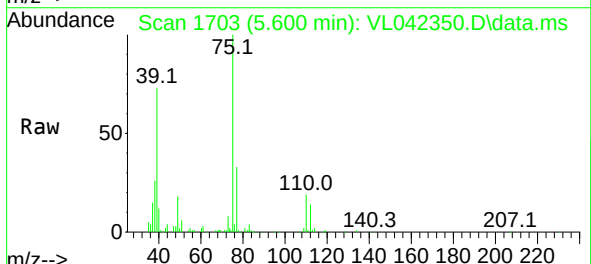
Tgt Ion: 75 Resp: 3626
 Ion Ratio Lower Upper
 75 100
 77 30.4 27.0 40.6

Manual Integrations
 APPROVED

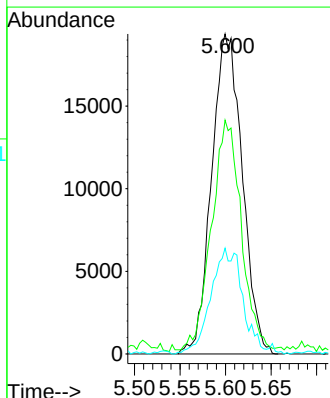
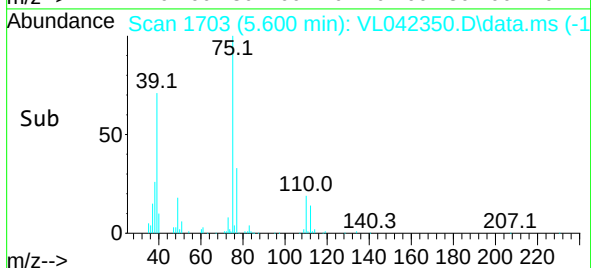
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

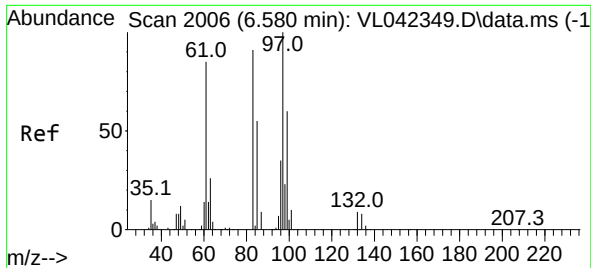


#46
 cis-1,3-Dichloropropene
 Concen: 2.096 ppbv m
 RT: 5.600 min Scan# 1703
 Delta R.T. -0.000 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17



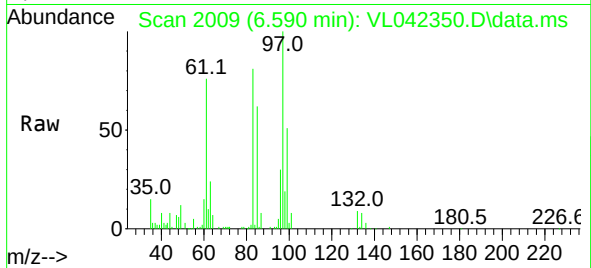
Tgt Ion: 75 Resp: 45327
 Ion Ratio Lower Upper
 75 100
 39 73.0 50.0 75.0
 77 33.1 23.0 34.6





#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

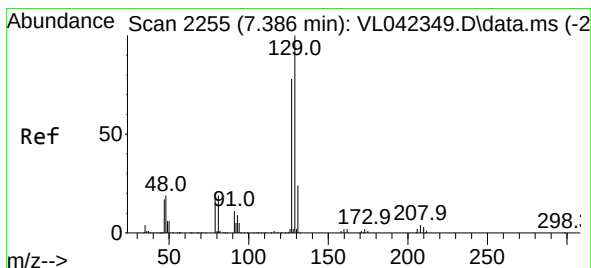
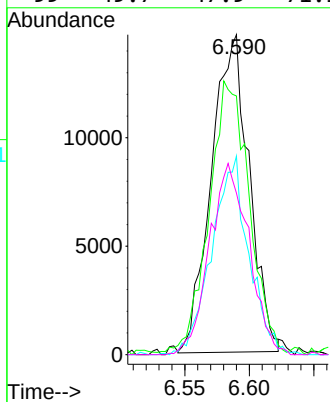
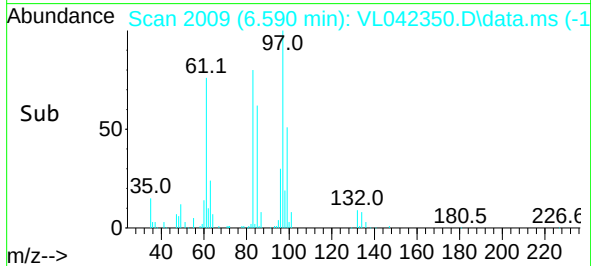
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



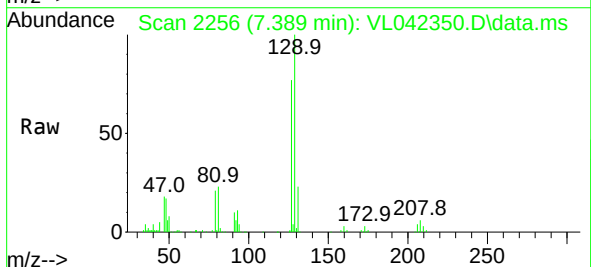
Tgt Ion: 97 Resp: 29879
Ion Ratio Lower Upper
97 100
83 78.8 72.8 109.2
85 61.7 44.2 66.4
99 49.7 47.9 71.9

Manual Integrations
APPROVED

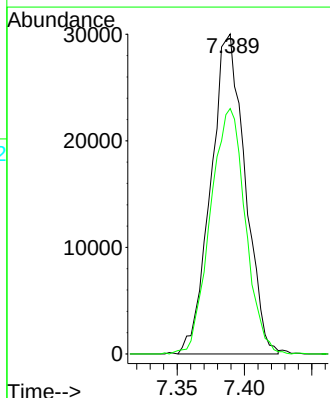
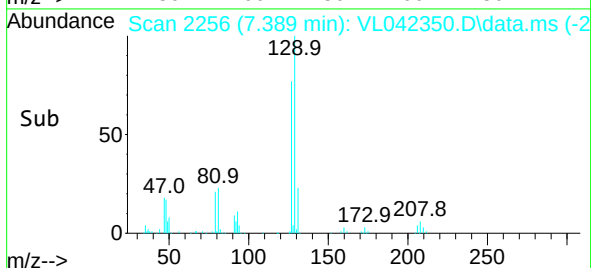
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

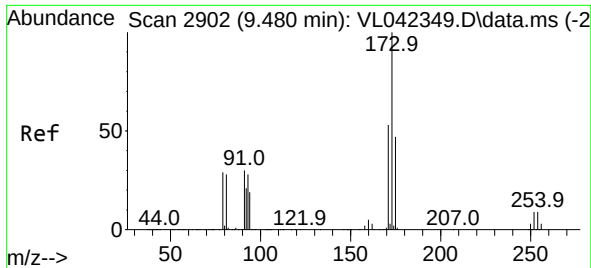


#48
Dibromochloromethane
Concen: 2.061 ppbv
RT: 7.389 min Scan# 2256
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17



Tgt Ion:129 Resp: 53069
Ion Ratio Lower Upper
129 100
127 78.4 39.1 117.3





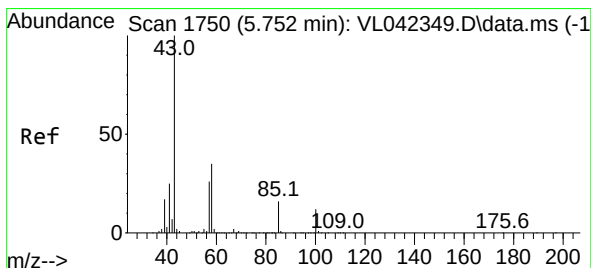
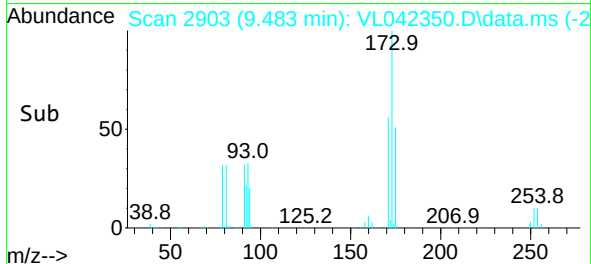
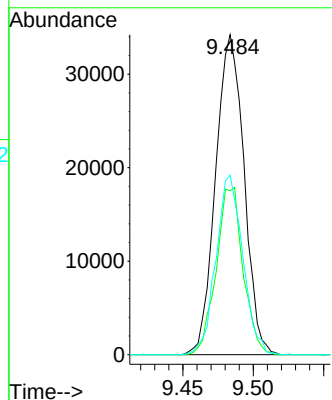
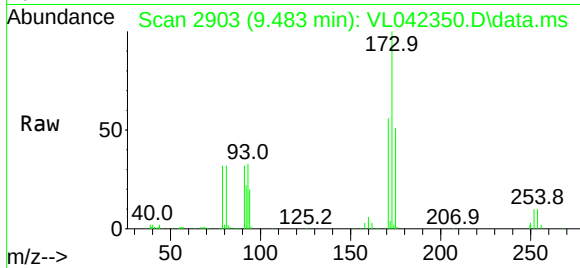
#49
Bromoform
Concen: 2.135 ppbv
RT: 9.483 min Scan# 2902
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

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

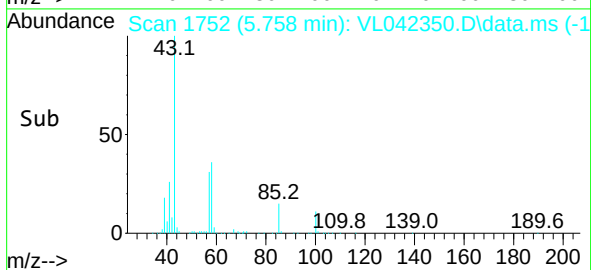
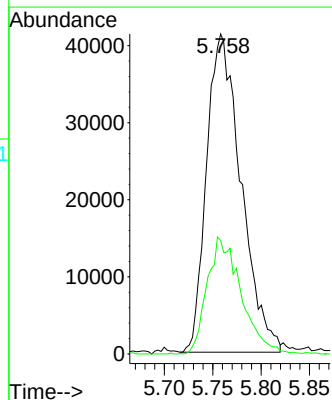
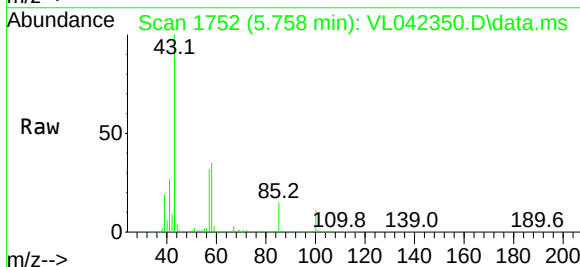
Manual Integrations
APPROVED

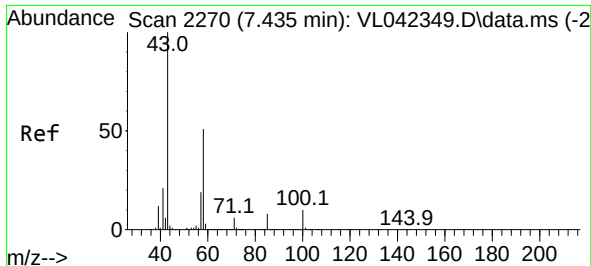
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

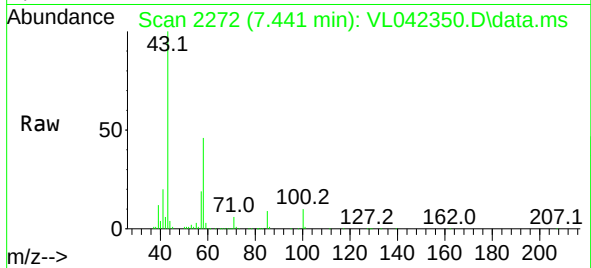
Tgt Ion: 43 Resp: 102182
Ion Ratio Lower Upper
43 100
58 36.3 28.6 43.0





#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

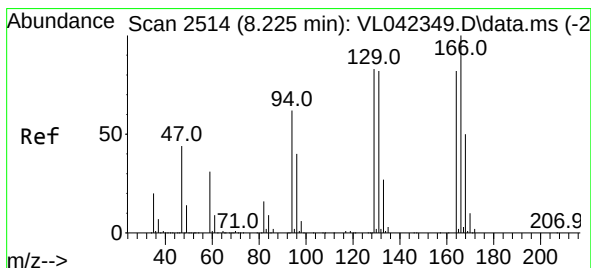
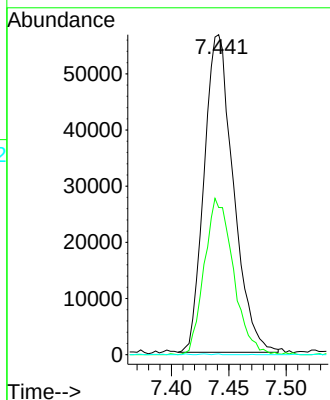
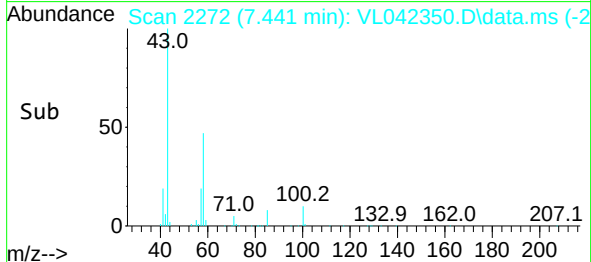
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



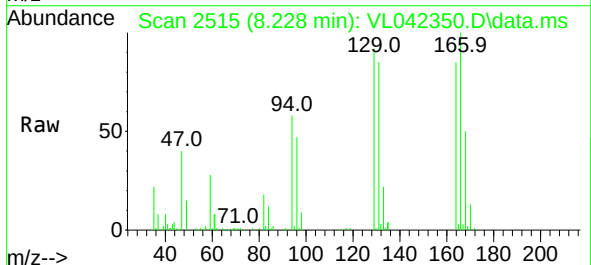
Tgt Ion: 43 Resp: 10044
Ion Ratio Lower Upper
43 100
58 49.0 40.2 60.4
98 0.1 0.1 0.1

Manual Integrations
APPROVED

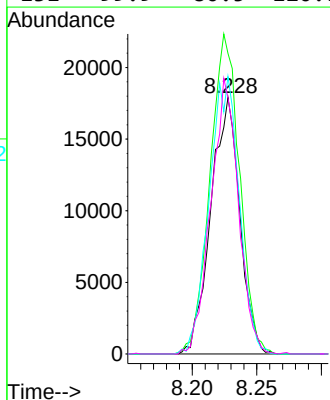
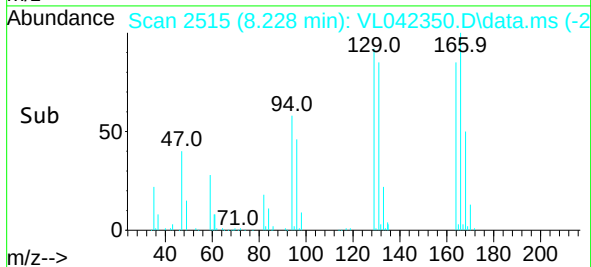
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

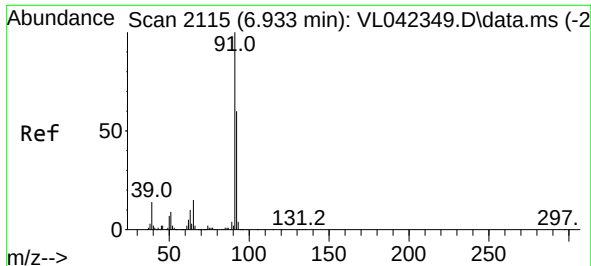


#52
Tetrachloroethene
Concen: 1.877 ppbv
RT: 8.228 min Scan# 2515
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17



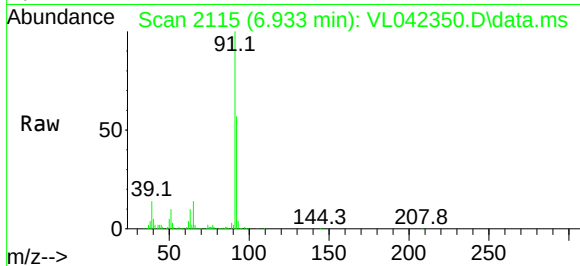
Tgt Ion:164 Resp: 27854
Ion Ratio Lower Upper
164 100
166 117.2 98.2 147.2
129 108.2 81.8 122.8
131 99.9 80.5 120.7





#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

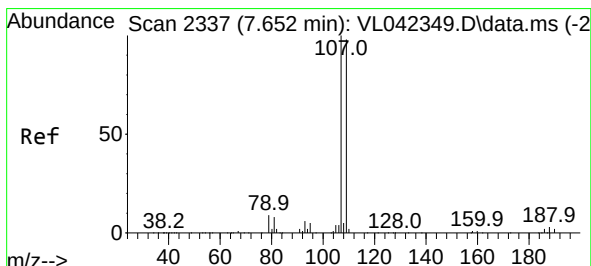
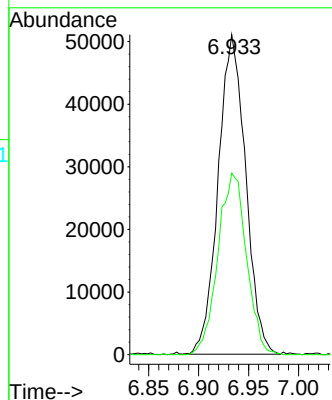
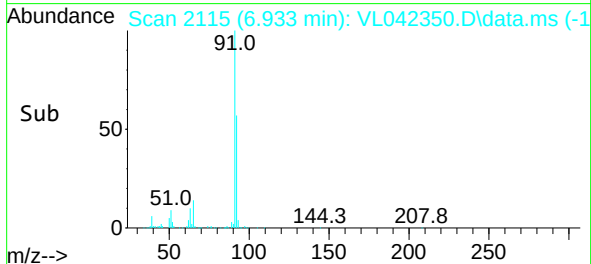
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



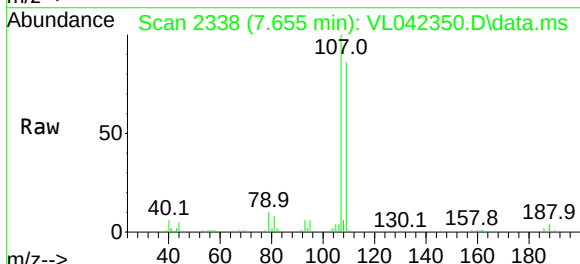
Tgt Ion: 91 Resp: 9749
Ion Ratio Lower Upper
91 100
92 59.1 48.2 72.4

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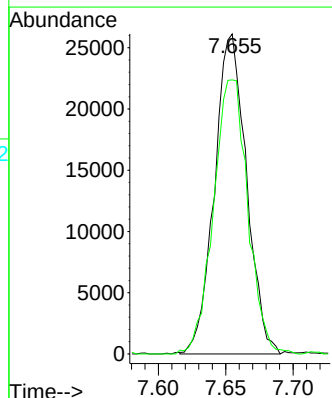
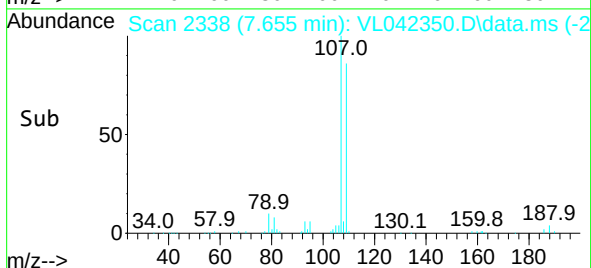
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

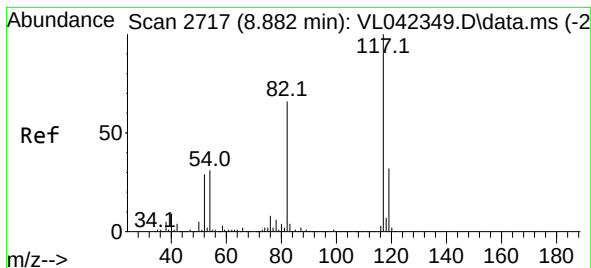


#54
1,2-Dibromoethane
Concen: 2.076 ppbv
RT: 7.655 min Scan# 2338
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17



Tgt Ion:107 Resp: 43153
Ion Ratio Lower Upper
107 100
109 84.5 78.2 117.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.881 min Scan# 2717

Delta R.T. -0.000 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

Instrument :

MSVOA_L

ClientSampleId :

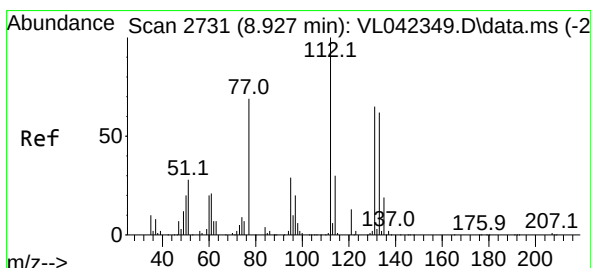
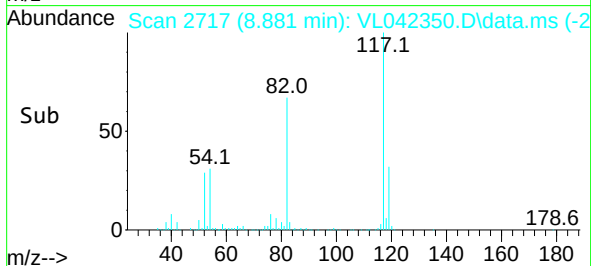
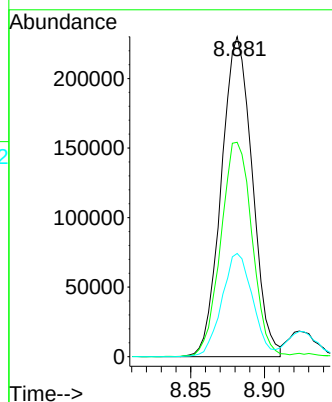
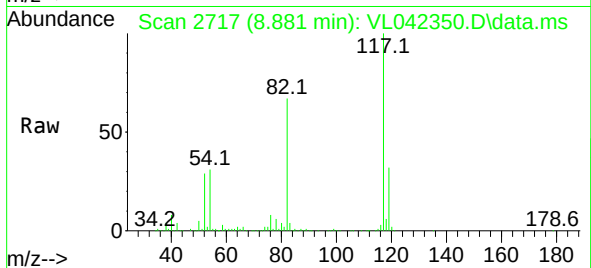
VSTDICC002

Tgt Ion:117 Resp: 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

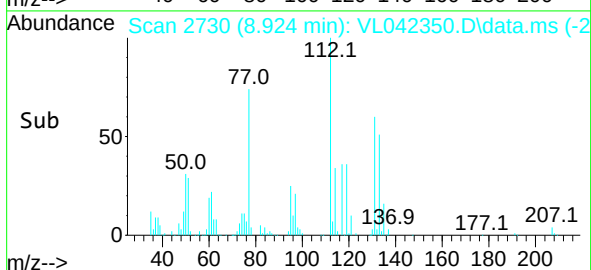
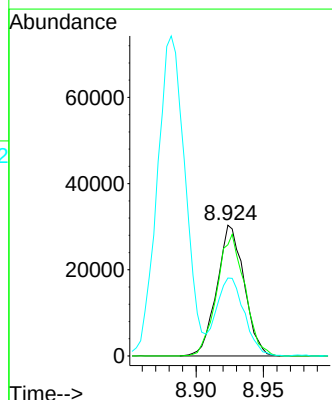
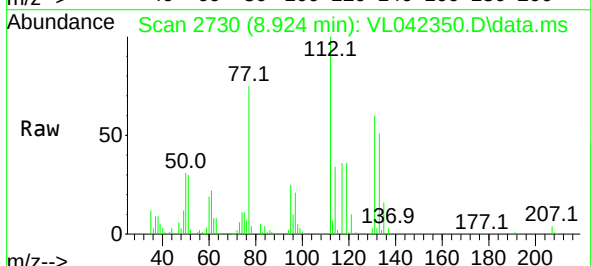
Delta R.T. -0.003 min

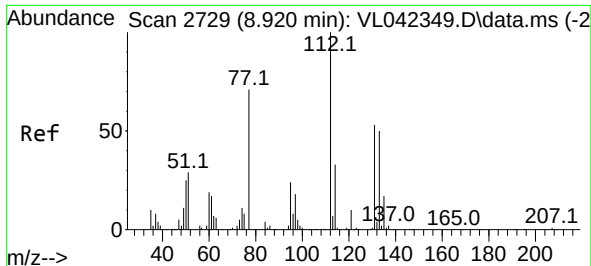
Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

Tgt Ion:131 Resp: 42601

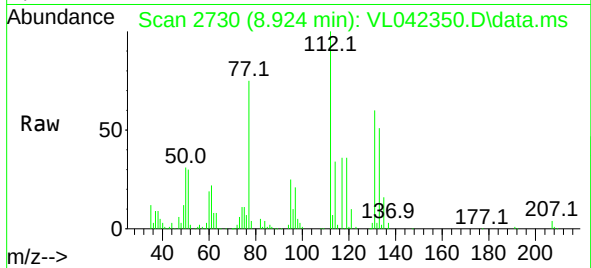
Ion	Ratio	Lower	Upper
131	100		
133	95.3	78.3	117.5
119	53.8	48.7	73.1





#57
Chlorobenzene
Concen: 2.054 ppbv
RT: 8.924 min Scan# 2730
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

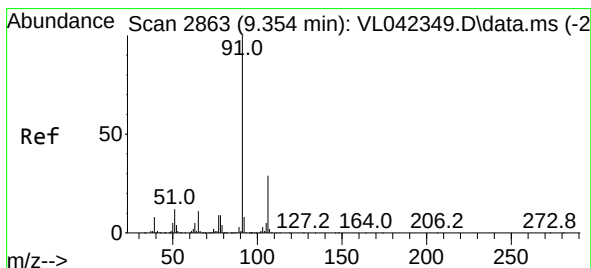
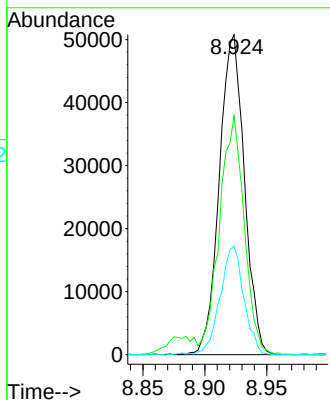
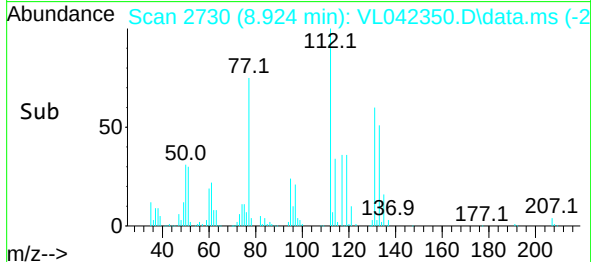
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



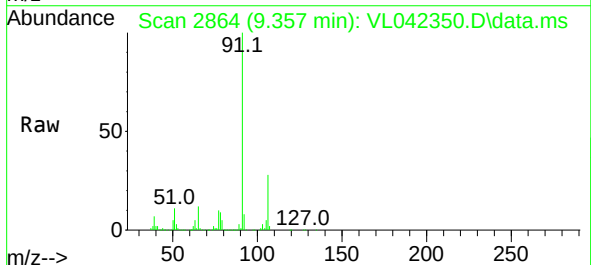
Tgt Ion: 112 Resp: 7168
Ion Ratio Lower Upper
112 100
77 74.0 57.8 86.6
114 34.0 29.3 35.9

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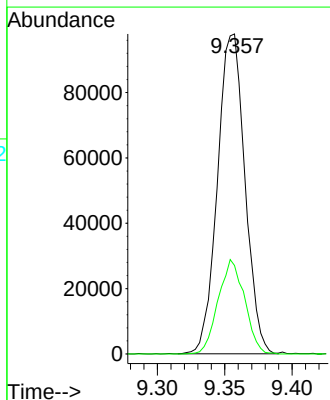
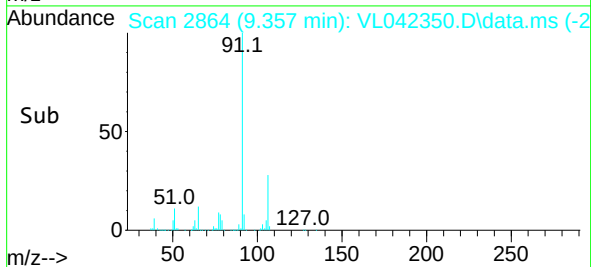
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

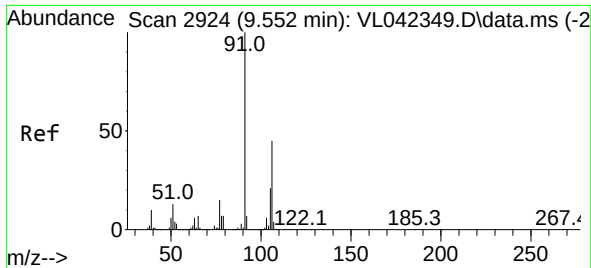


#58
Ethyl Benzene
Concen: 2.088 ppbv
RT: 9.357 min Scan# 2864
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17



Tgt Ion: 91 Resp: 138810
Ion Ratio Lower Upper
91 100
106 27.7 23.0 34.4





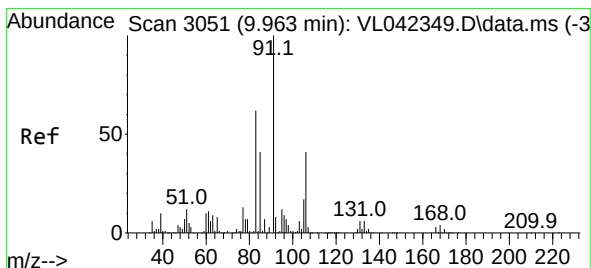
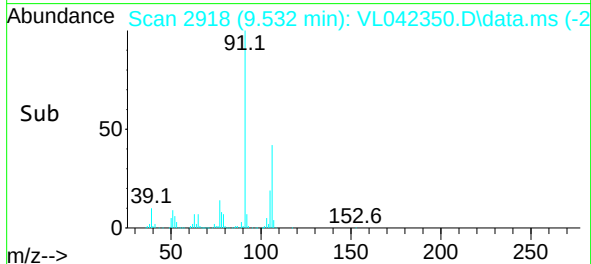
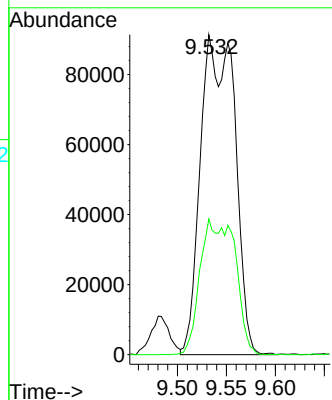
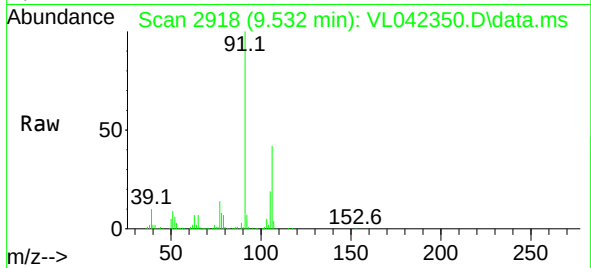
#59
m/p-Xylene
Concen: 4.142 ppbv m
RT: 9.532 min Scan# 2918
Delta R.T. -0.019 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 91 Resp: 22254
Ion Ratio Lower Upper
91 100
106 0.0 35.4 53.2

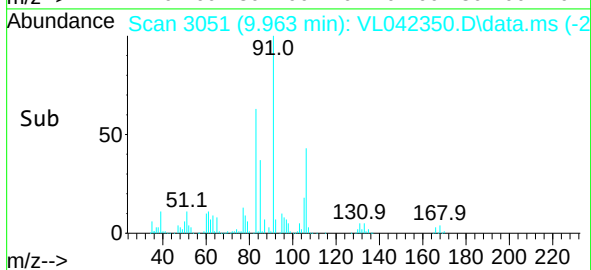
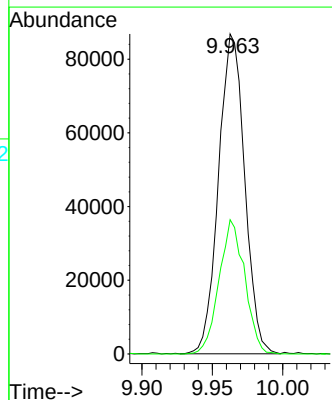
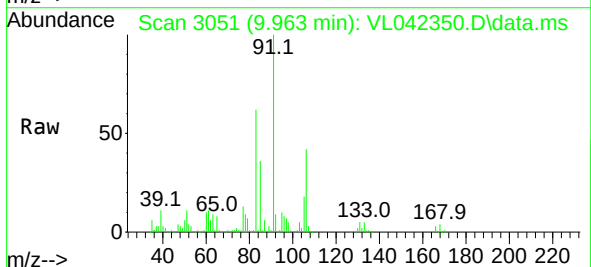
Manual Integrations
APPROVED

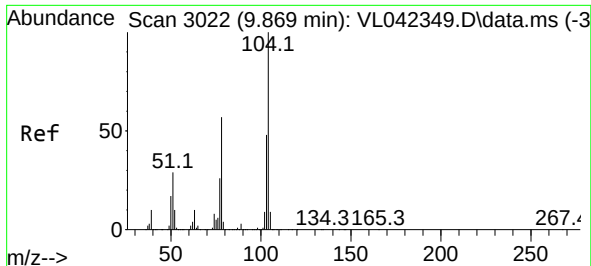
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#60
o-Xylene
Concen: 2.076 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 91 Resp: 111972
Ion Ratio Lower Upper
91 100
106 41.2 21.1 63.4





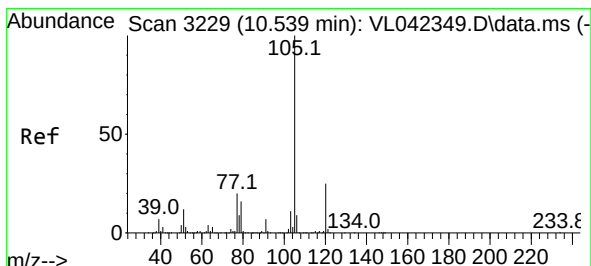
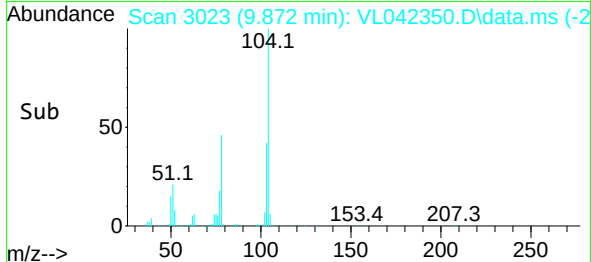
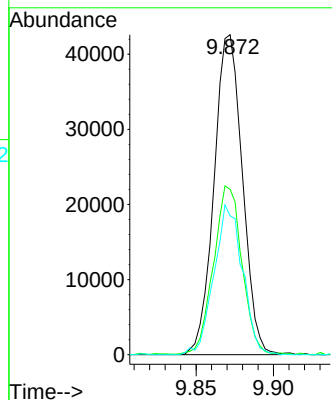
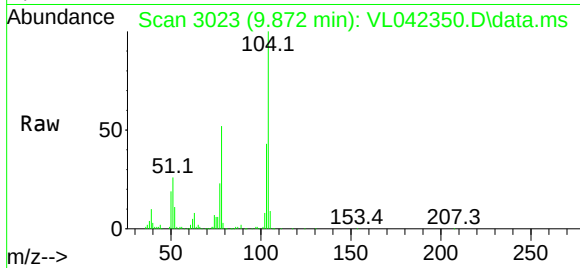
#61
Styrene
Concen: 2.106 ppbv
RT: 9.872 min Scan# 3022
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion:104 Resp: 54229
Ion Ratio Lower Upper
104 100
78 53.4 44.6 66.8
103 47.1 37.4 56.0

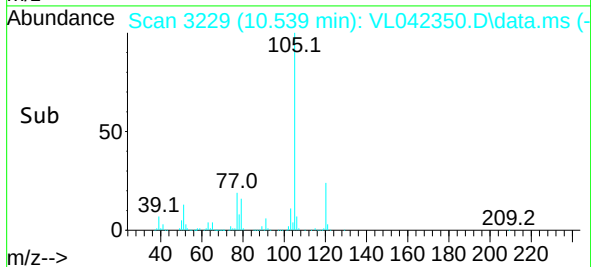
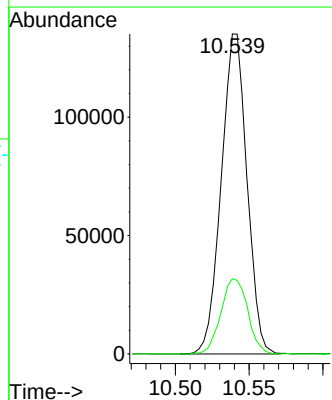
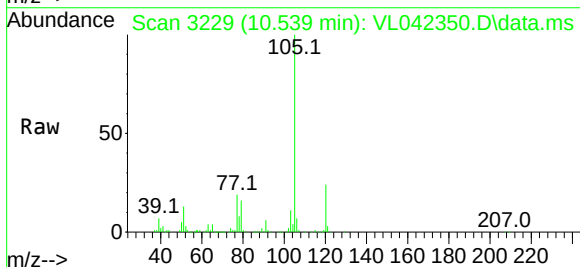
Manual Integrations
APPROVED

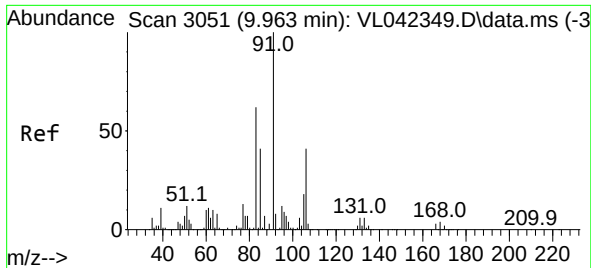
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#62
Isopropylbenzene
Concen: 2.067 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

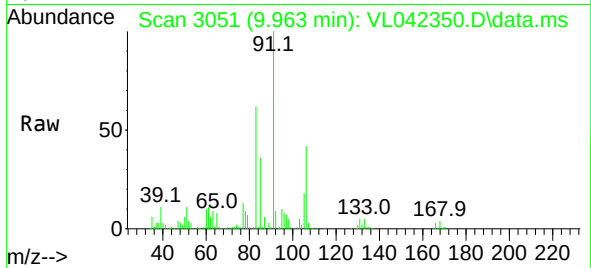
Tgt Ion:105 Resp: 163716
Ion Ratio Lower Upper
105 100
120 24.6 19.8 29.8





#63
1,1,2,2-Tetrachloroethane
Concen: 1.853 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

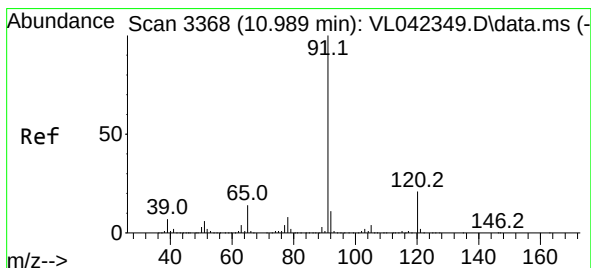
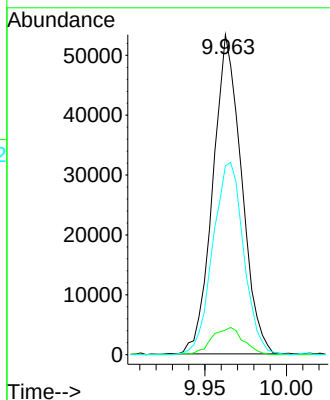
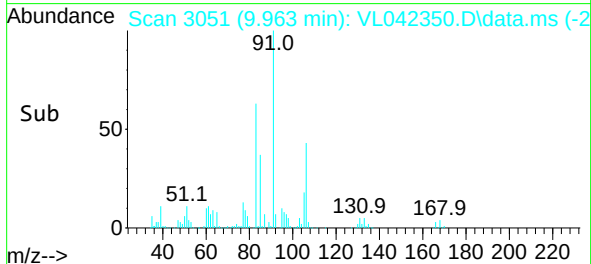
Instrument : MSVOA_L
ClientSampleId : VSTDIC002



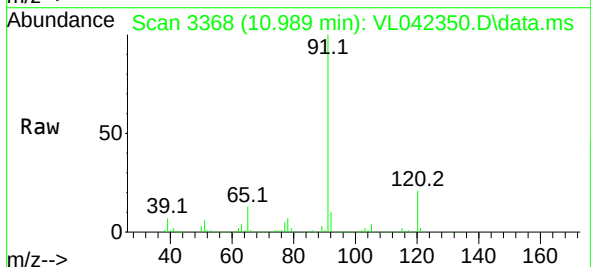
Tgt Ion: 83 Resp: 64952
Ion Ratio Lower Upper
83 100
131 9.6 4.5 13.7
85 65.4 32.4 97.0

Manual Integrations
APPROVED

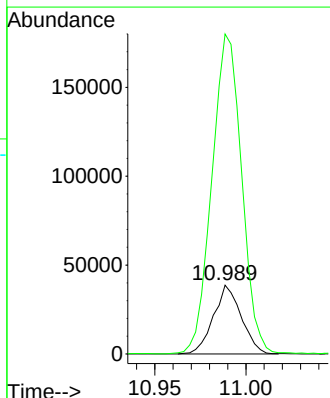
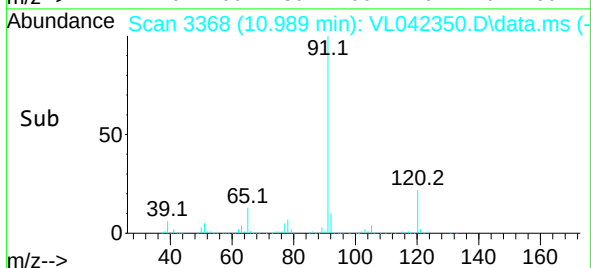
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

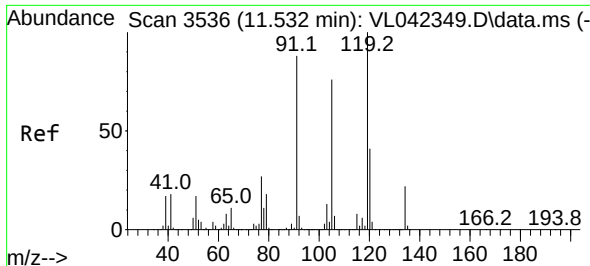


#64
n-propylbenzene
Concen: 2.058 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17



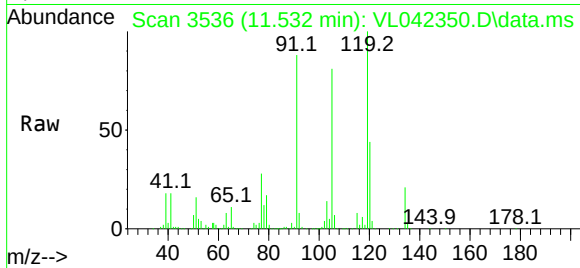
Tgt Ion:120 Resp: 40956
Ion Ratio Lower Upper
120 100
91 502.0 392.4 588.6





#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

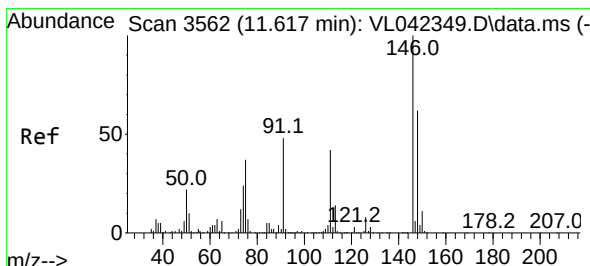
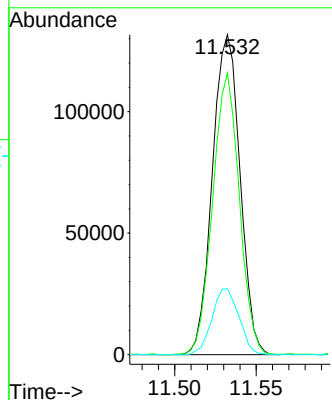
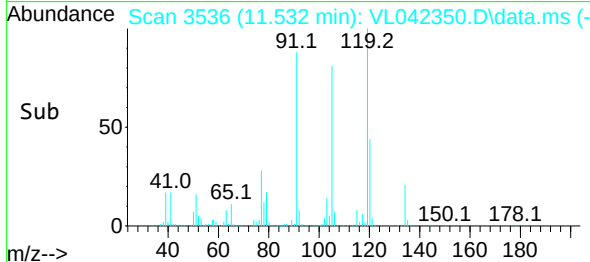
Instrument : MSVOA_1
ClientSampleId : VSTDIC002



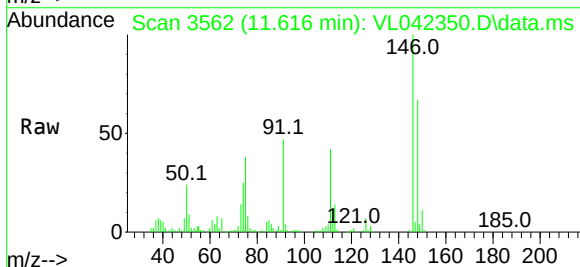
Tgt Ion: 119 Resp: 15540
Ion Ratio Lower Upper
119 100
91 85.0 74.6 111.8
134 20.1 18.8 28.2

Manual Integrations
APPROVED

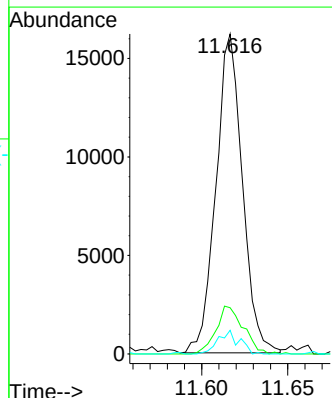
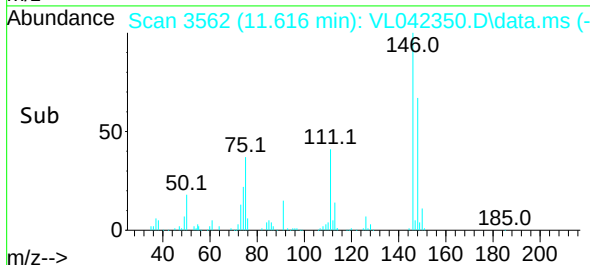
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

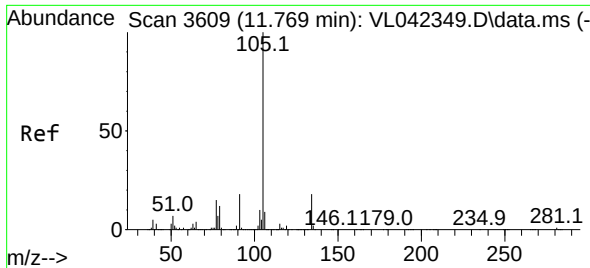


#66
Benzyl Chloride
Concen: 2.163 ppbv
RT: 11.616 min Scan# 3562
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17



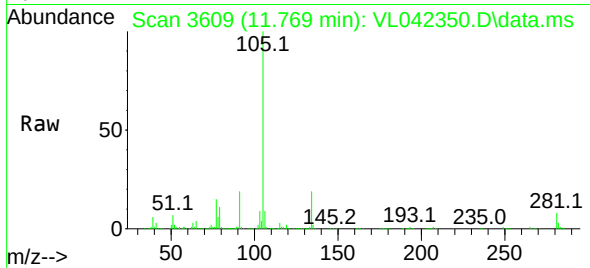
Tgt Ion: 91 Resp: 17300
Ion Ratio Lower Upper
91 100
126 15.6 11.8 17.6
128 6.1 4.5 6.7





#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

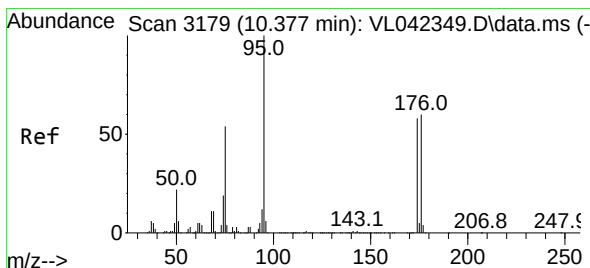
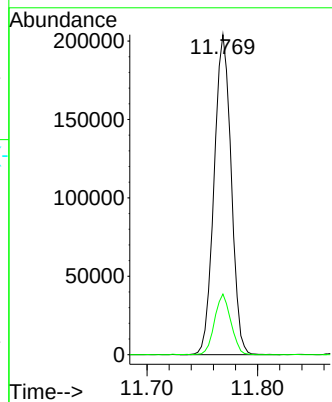
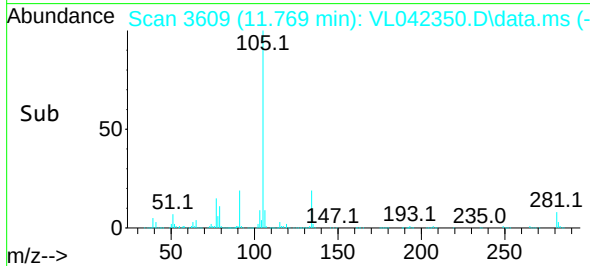
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



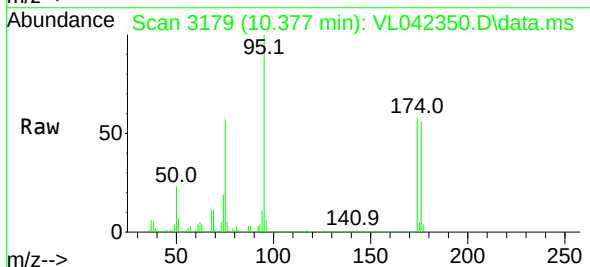
Tgt Ion:105 Resp: 21832
Ion Ratio Lower Upper
105 100
134 18.1 14.6 21.8

Manual Integrations
APPROVED

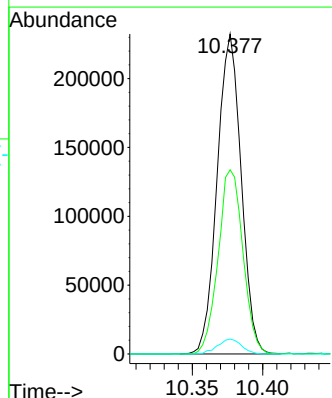
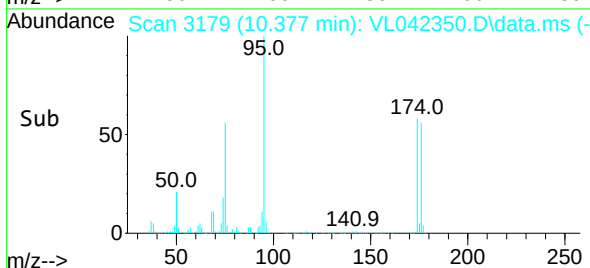
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

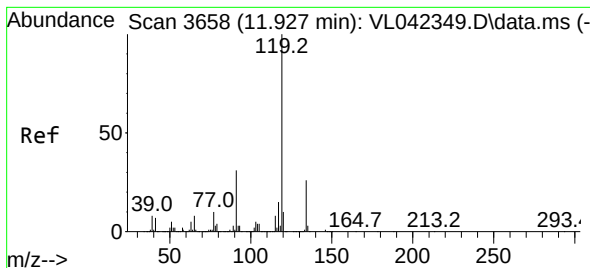


#68
1-Bromo-4-Fluorobenzene
Concen: 9.998 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17



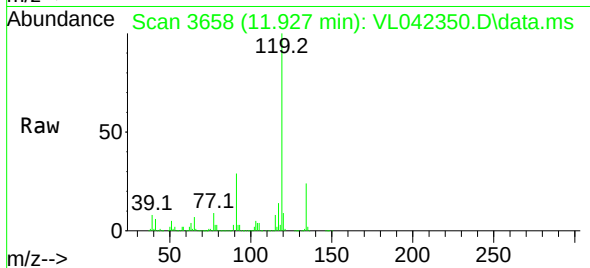
Tgt Ion: 95 Resp: 275715
Ion Ratio Lower Upper
95 100
174 59.6 48.5 72.7
175 4.7 3.7 5.5





#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

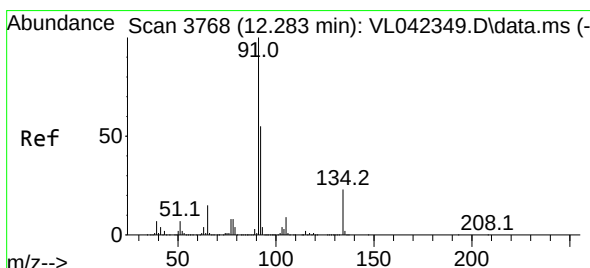
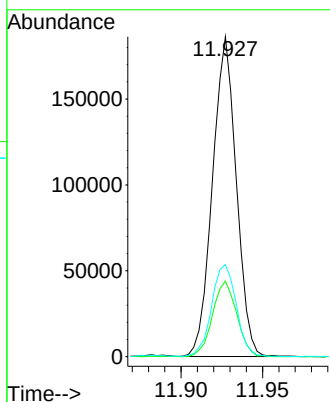
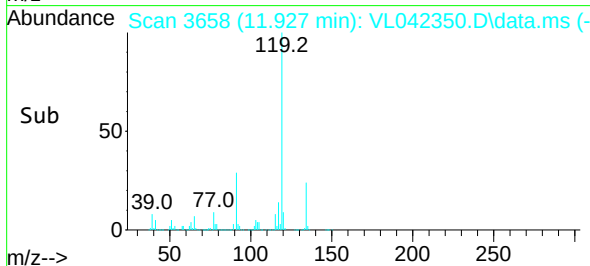
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



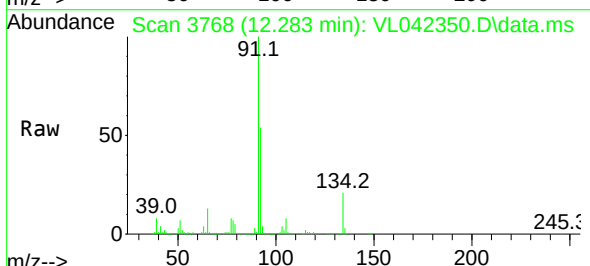
Tgt Ion: 119 Resp: 18865
Ion Ratio Lower Upper
119 100
134 24.2 20.0 30.0
91 30.8 24.4 36.6

Manual Integrations
APPROVED

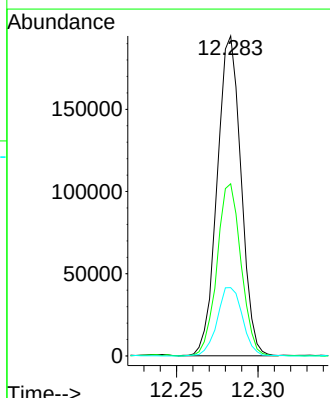
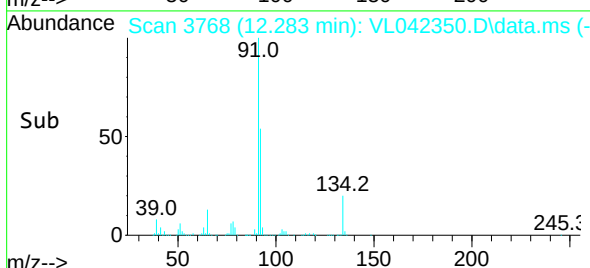
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

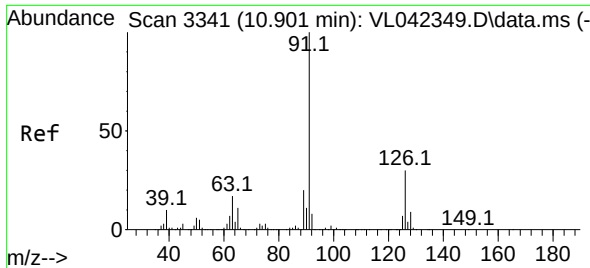


#70
n-Butylbenzene
Concen: 2.164 ppbv
RT: 12.283 min Scan# 3768
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17



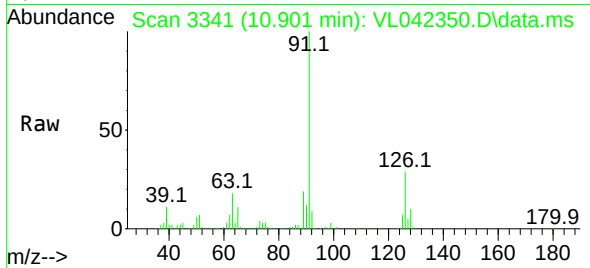
Tgt Ion: 91 Resp: 198221
Ion Ratio Lower Upper
91 100
92 54.4 44.2 66.4
134 22.6 18.2 27.4





#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

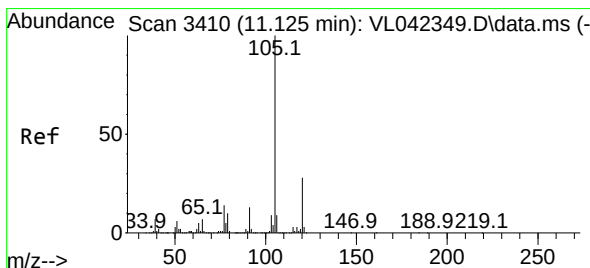
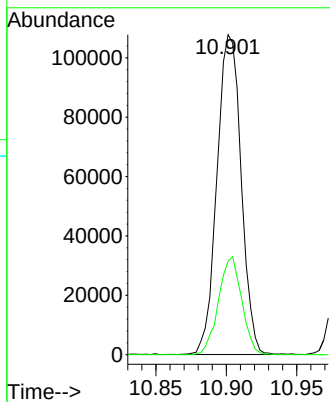
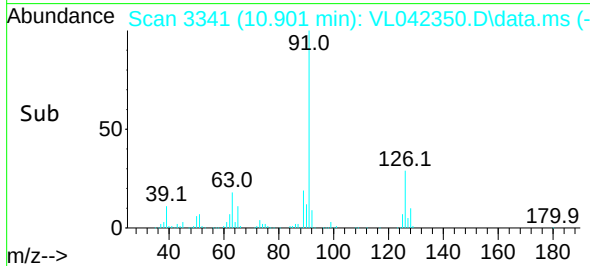
Instrument : MSVOA_L
ClientSampleId : VSTDIC002



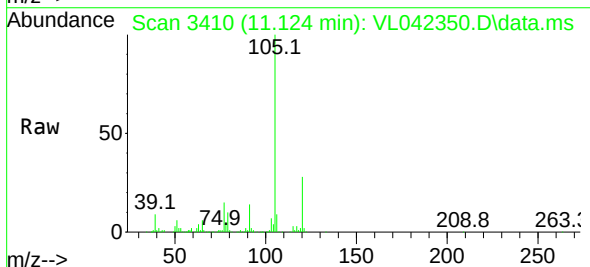
Tgt Ion: 91 Resp: 128858
Ion Ratio Lower Upper
91 100
126 29.5 11.4 45.4

Manual Integrations
APPROVED

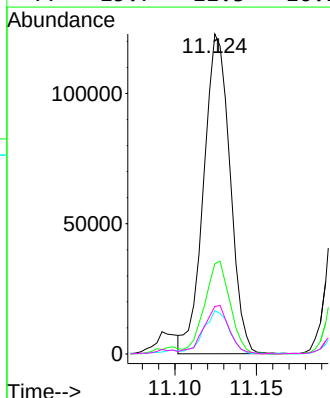
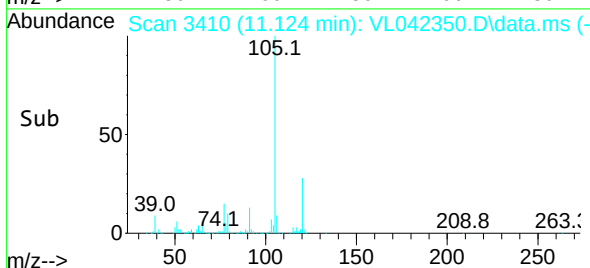
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

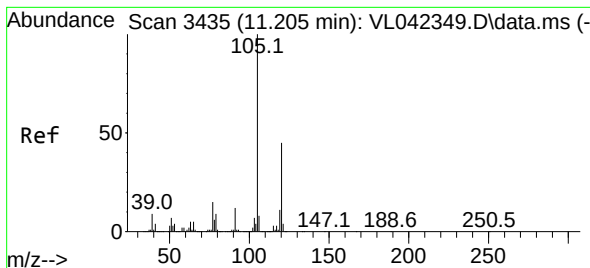


#72
4-Ethyltoluene
Concen: 2.091 ppbv
RT: 11.124 min Scan# 3410
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17



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

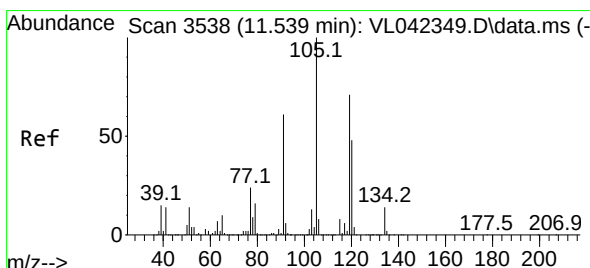
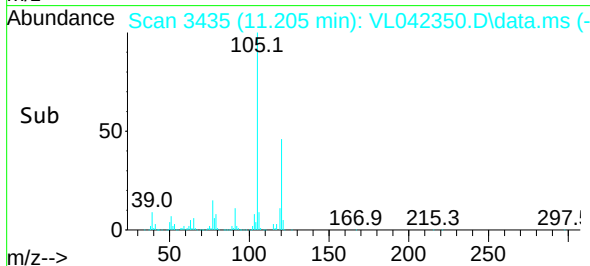
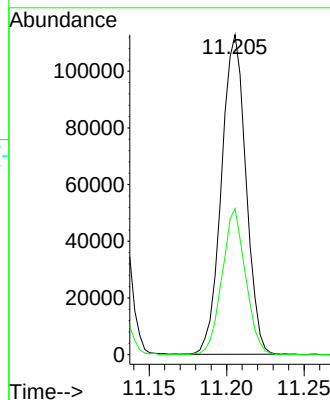
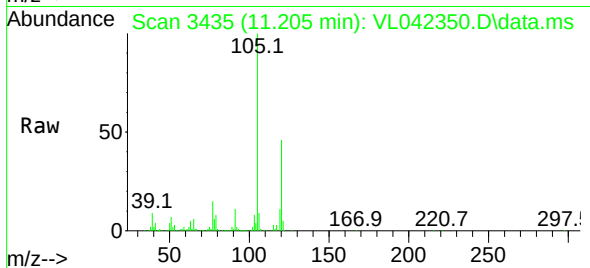
120 45.7 35.6 53.4

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

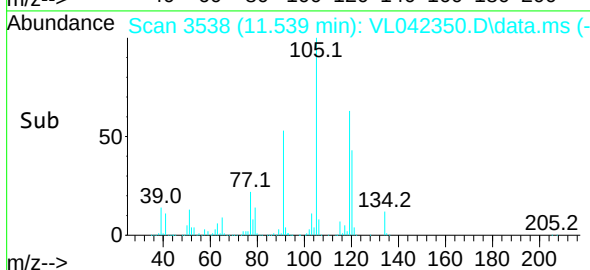
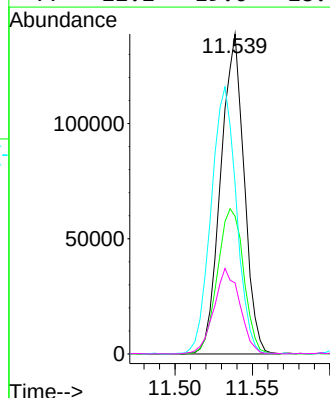
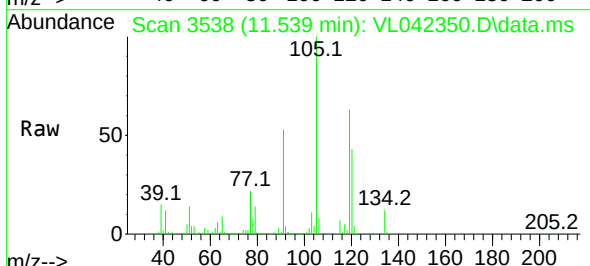
Ion Ratio Lower Upper

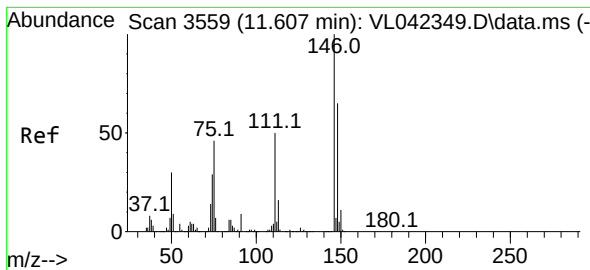
105 100

120 43.0 38.1 57.1

91 53.1 48.8 73.2

77 22.2 19.0 28.4





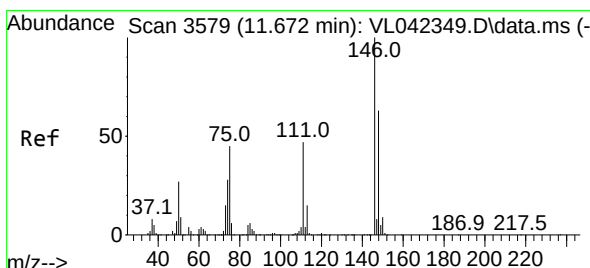
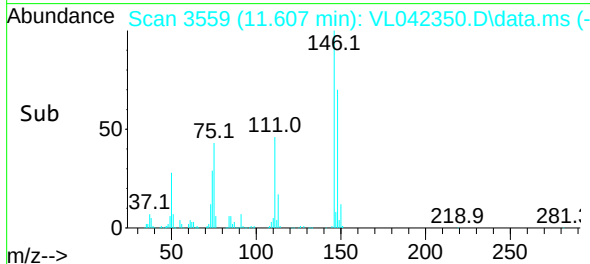
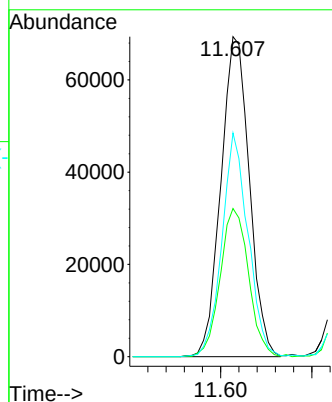
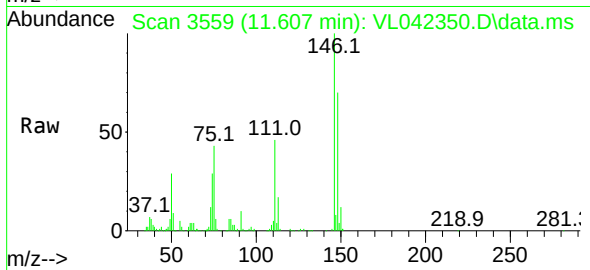
#75
1,3-Dichlorobenzene
Concen: 2.124 ppbv
RT: 11.607 min Scan# 3559
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Instrument : MSVOA_L
ClientSampleId : VSTDICC002

Tgt Ion:146 Resp: 75082
Ion Ratio Lower Upper
146 100
111 46.3 24.3 72.8
148 64.3 31.6 94.8

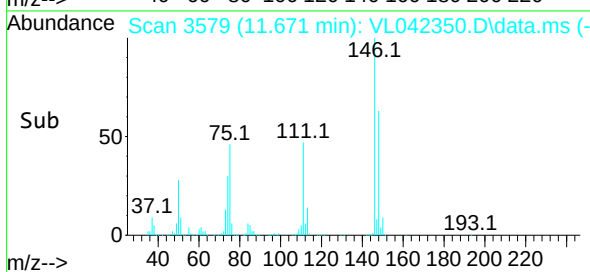
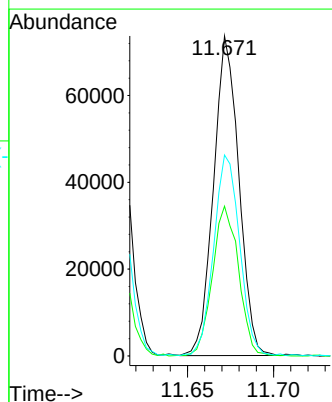
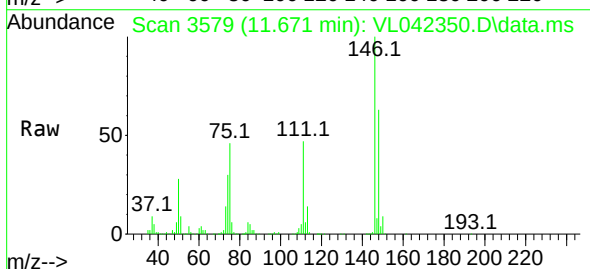
Manual Integrations
APPROVED

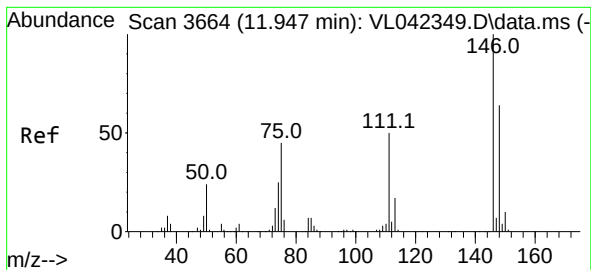
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

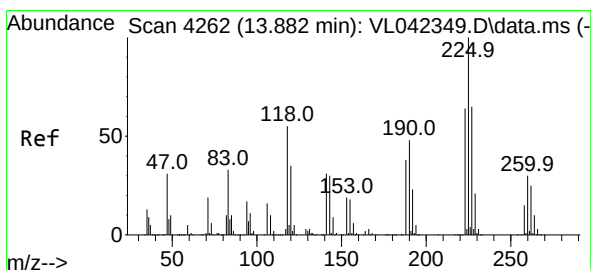
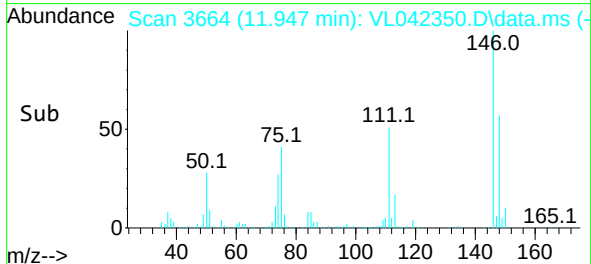
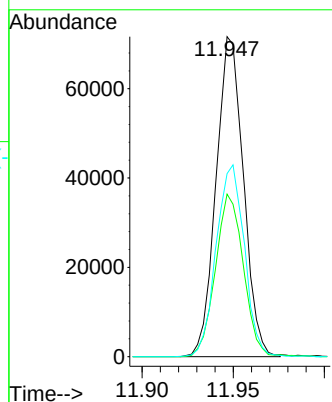
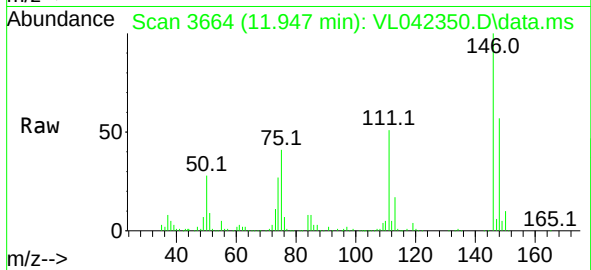
ClientSampleId :

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

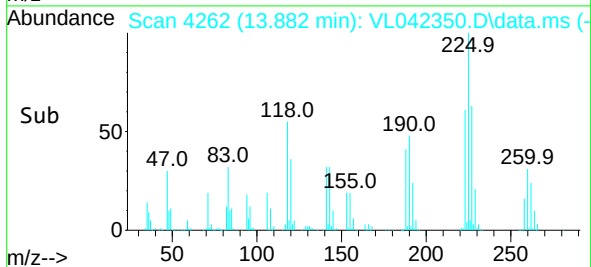
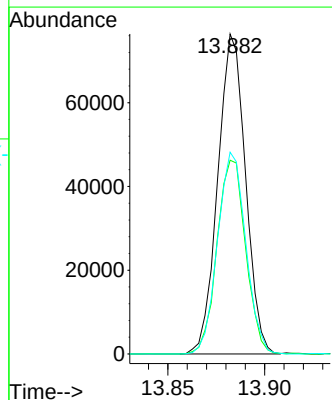
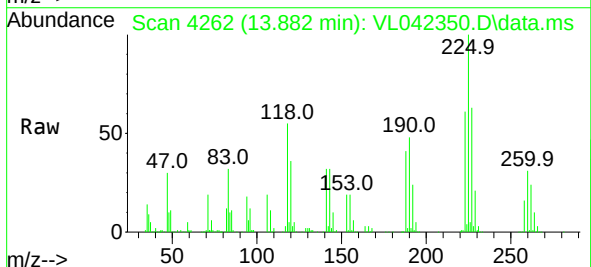
RT: 13.882 min Scan# 4262

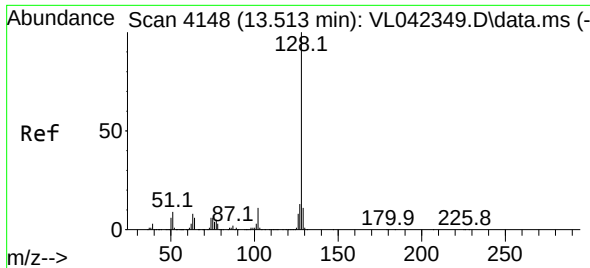
Delta R.T. -0.000 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

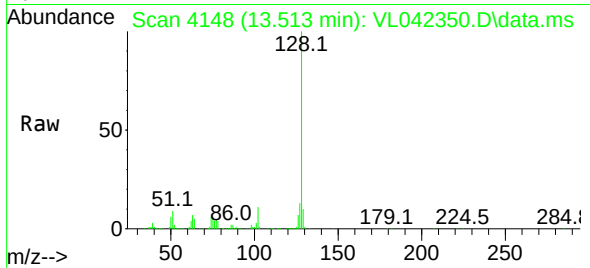
Tgt Ion:	225	Resp:	76158
Ion	Ratio	Lower	Upper
225	100		
223	62.6	50.3	75.5
227	64.1	51.5	77.3





#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

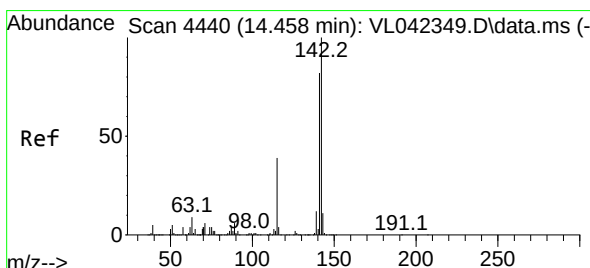
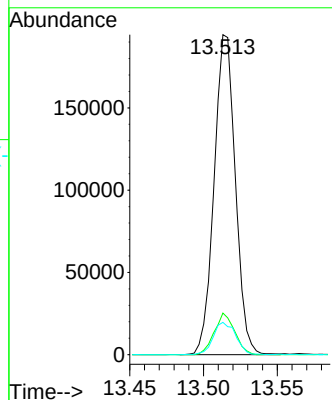
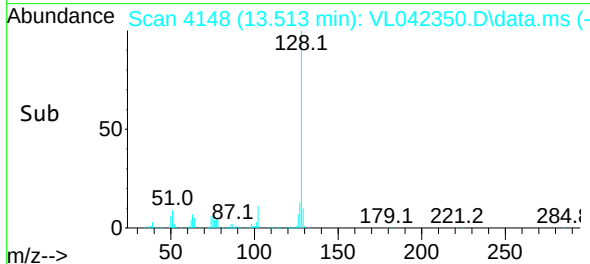
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



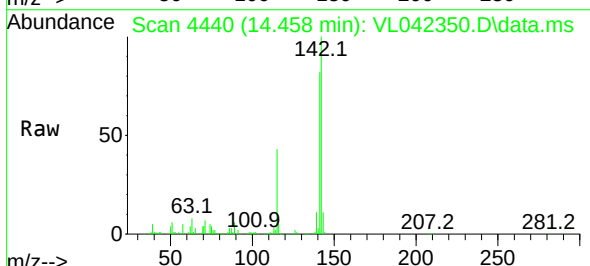
Tgt Ion:128 Resp: 19523
Ion Ratio Lower Upper
128 100
127 13.0 10.6 15.8
129 10.1 8.6 12.8

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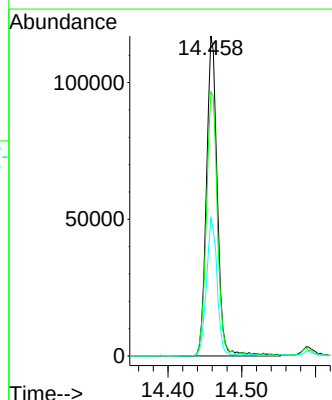
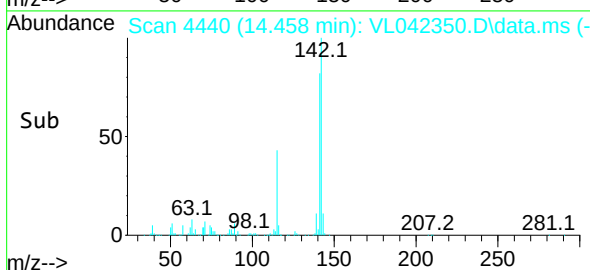
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

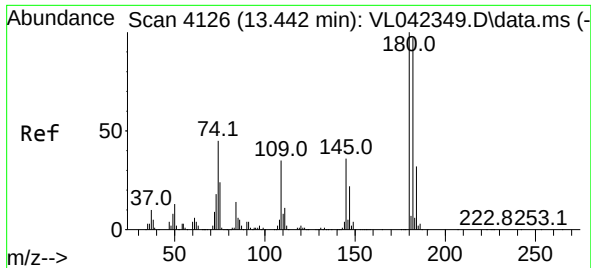


#80
Naphthalene,2-methyl-
Concen: 2.574 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17



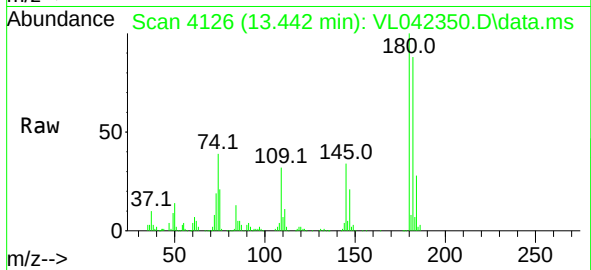
Tgt Ion:142 Resp: 119262
Ion Ratio Lower Upper
142 100
141 84.7 66.8 100.2
115 42.2 33.4 50.2





#81
 1,2,4-Trichlorobenzene
 Concen: 2.353 ppbv
 RT: 13.442 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17

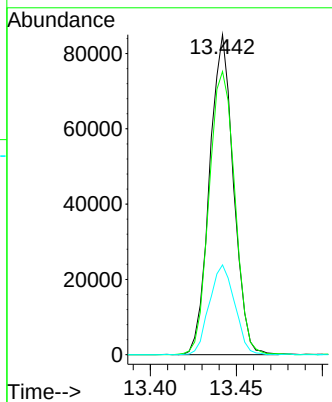
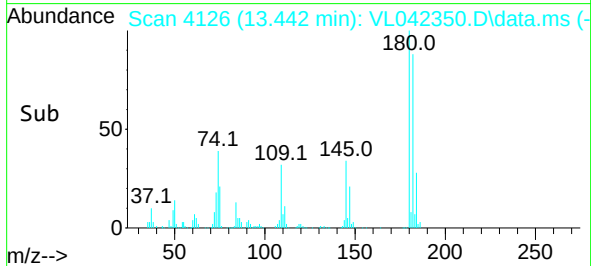
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002



Tgt Ion:180 Resp: 82150
 Ion Ratio Lower Upper
 180 100
 182 95.1 76.8 115.2
 184 29.8 24.6 36.8

Manual Integrations
 APPROVED

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042351.D
 Acq On : 17 Apr 2025 10:48
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

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

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	2.791	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 : VSTDIC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

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

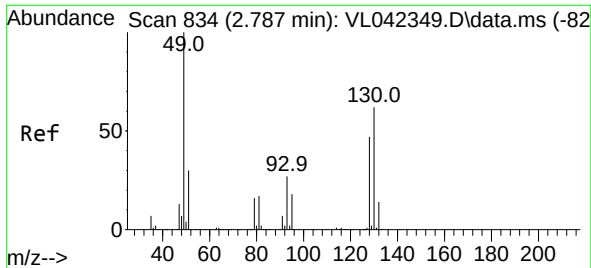
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

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



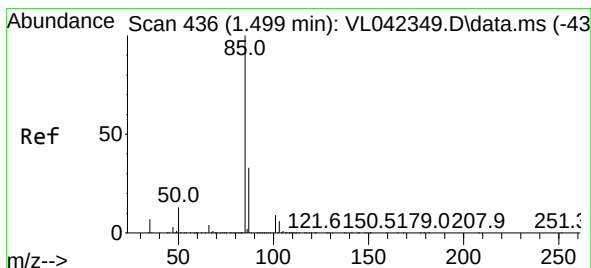
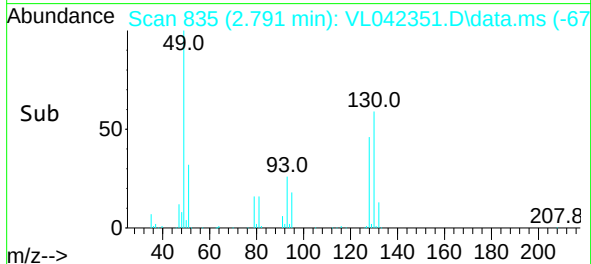
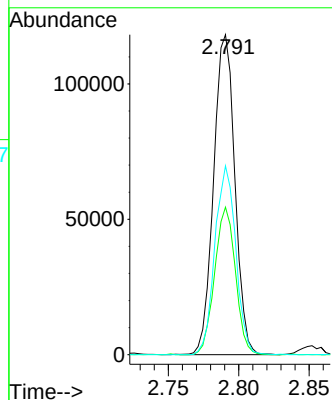
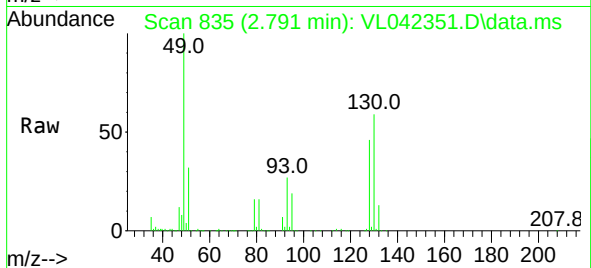
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Bromochloromethane
Concen: 10.000 ppbv
RT: 2.791 min Scan# 81
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

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

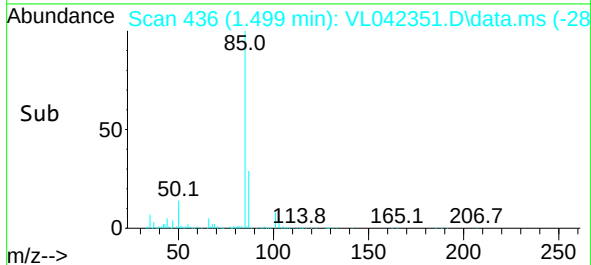
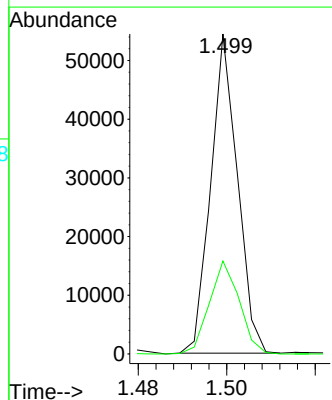
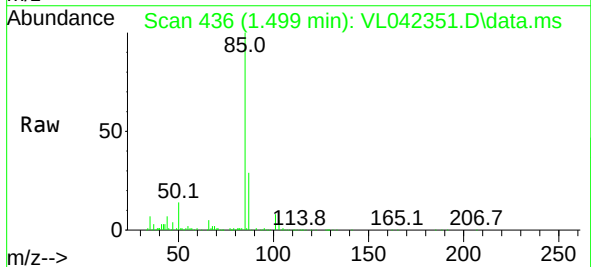
Manual Integrations
APPROVED

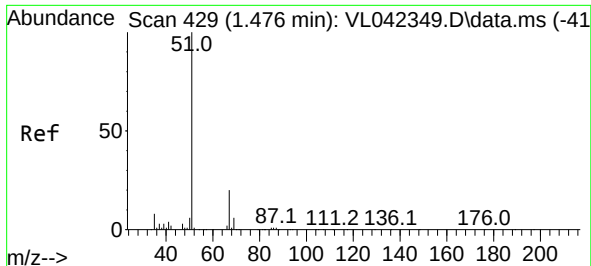
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

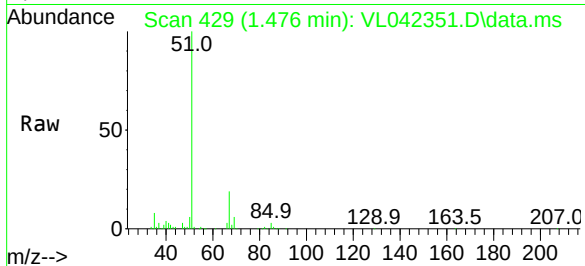
Tgt Ion: 85 Resp: 22816
Ion Ratio Lower Upper
85 100
87 29.1 26.6 39.8





#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

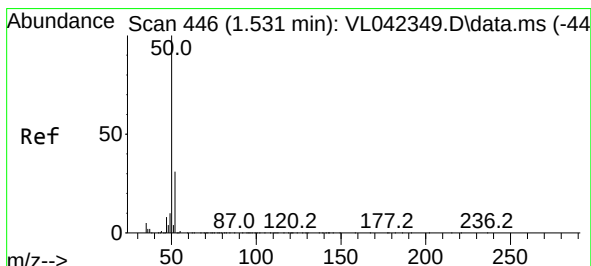
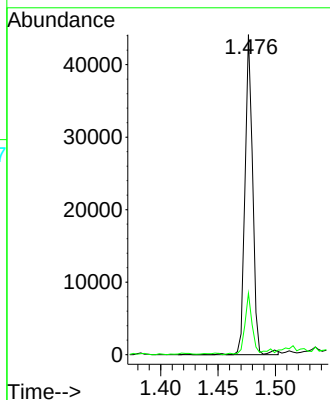
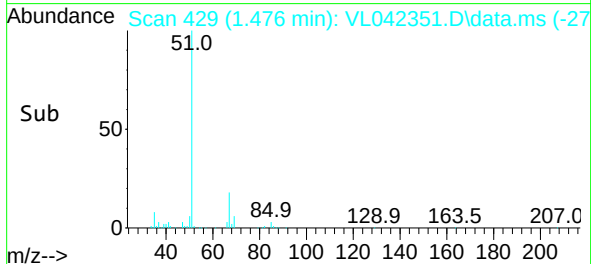
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



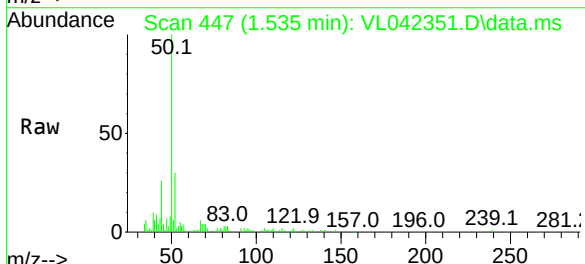
Tgt Ion: 51 Resp: 2057
Ion Ratio Lower Upper
51 100
67 19.1 16.2 24.4

Manual Integrations
APPROVED

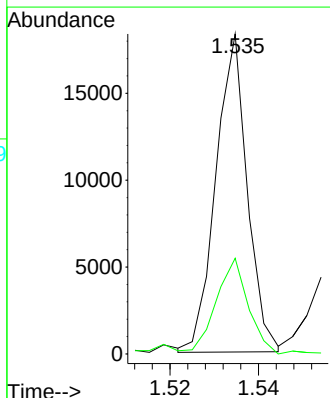
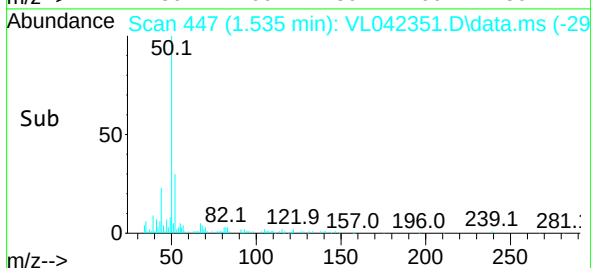
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

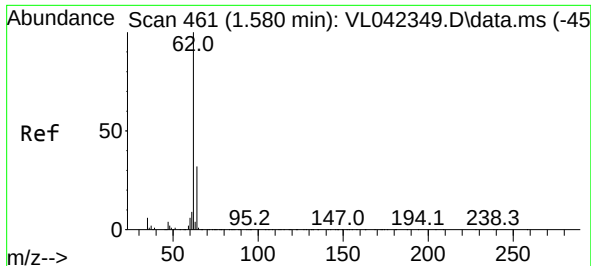


#4
Chloromethane
Concen: 1.038 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48



Tgt Ion: 50 Resp: 9008
Ion Ratio Lower Upper
50 100
52 30.4 24.7 37.1





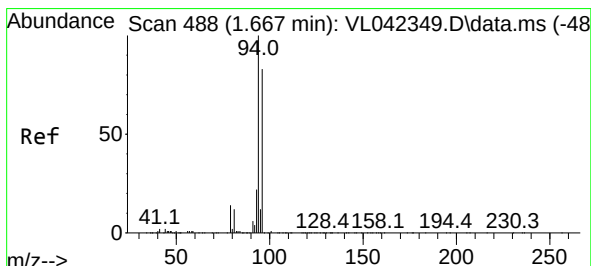
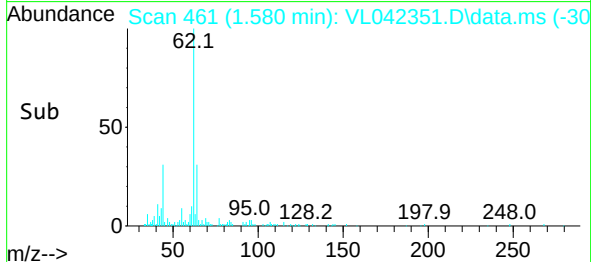
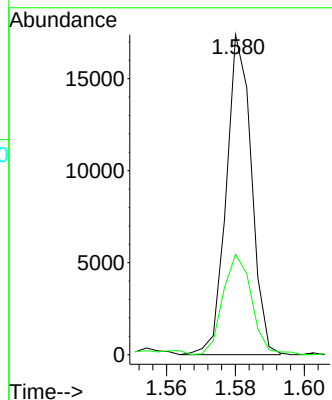
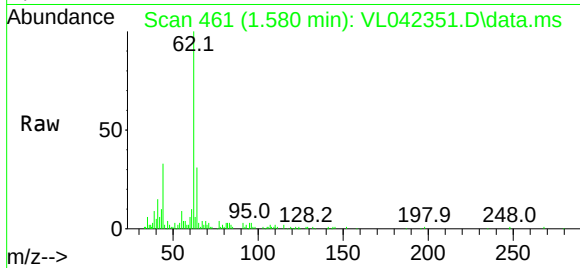
#5
 Vinyl Chloride
 Concen: 0.932 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. 0.000 min
 Lab File: VL042351.D
 Acq: 17 Apr 2025 10:48

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tgt Ion: 62 Resp: 880
 Ion Ratio Lower Upper
 62 100
 64 30.5 25.4 38.0

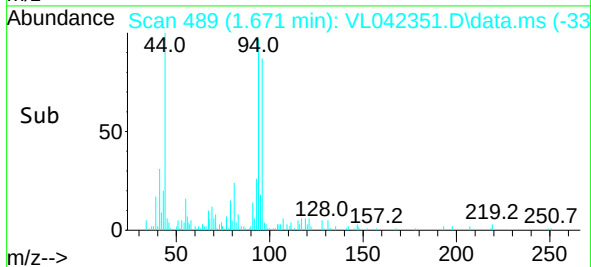
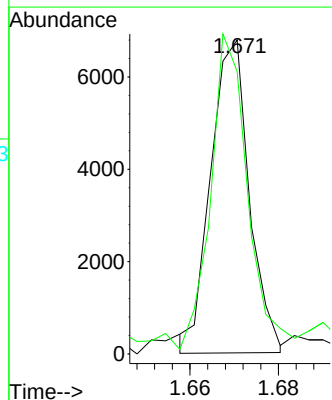
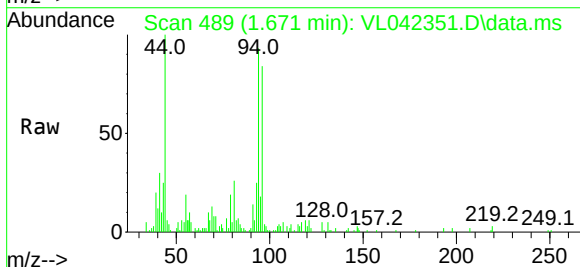
Manual Integrations
 APPROVED

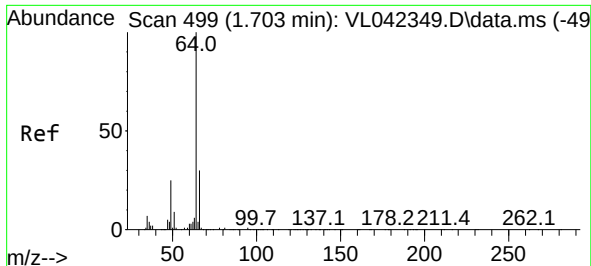
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



#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

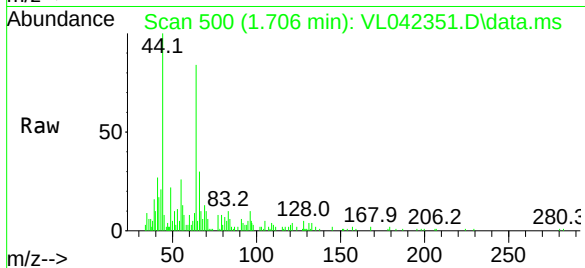
Tgt Ion: 94 Resp: 4099
 Ion Ratio Lower Upper
 94 100
 96 91.0 66.2 99.2





#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

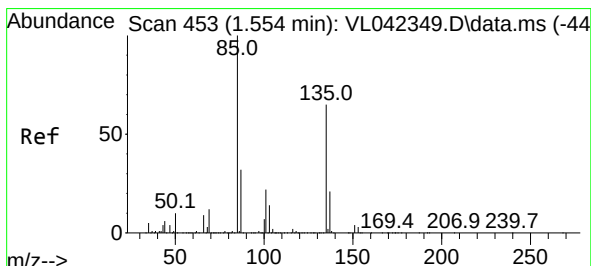
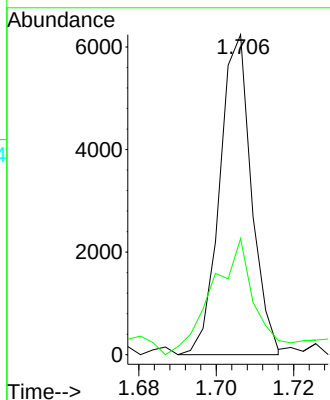
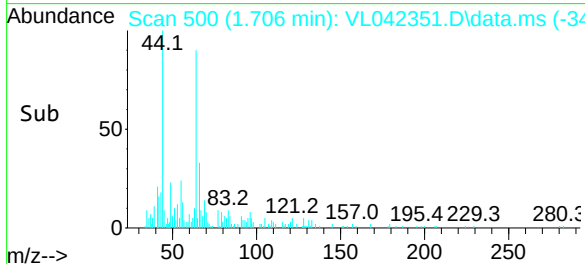
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



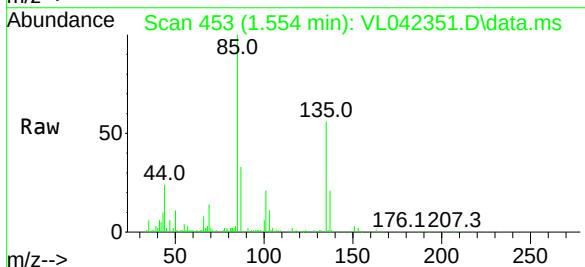
Tgt Ion: 64 Resp: 3559
Ion Ratio Lower Upper
64 100
66 36.3 24.6 37.0

Manual Integrations
APPROVED

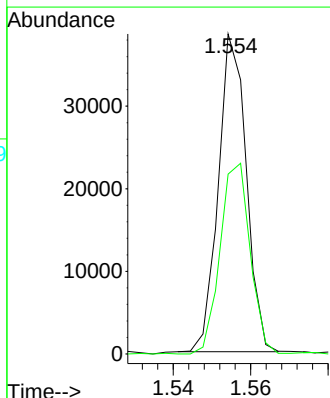
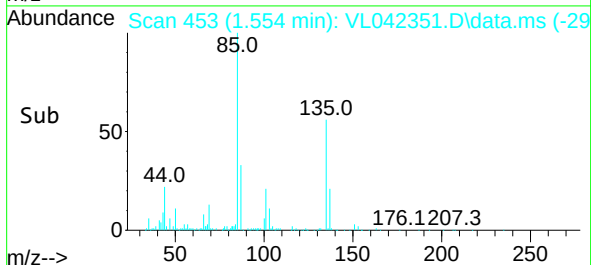
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

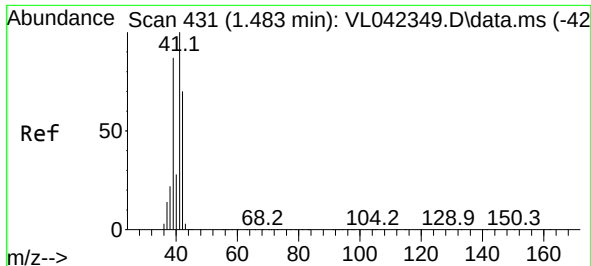


#8
Dichlorotetrafluoroethane
Concen: 1.022 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48



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

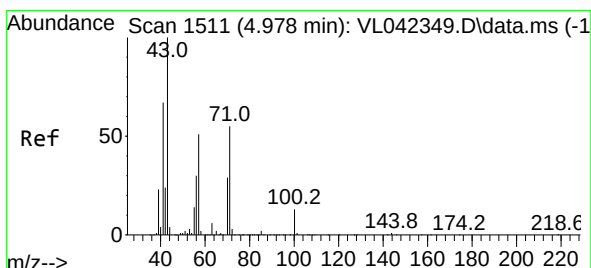
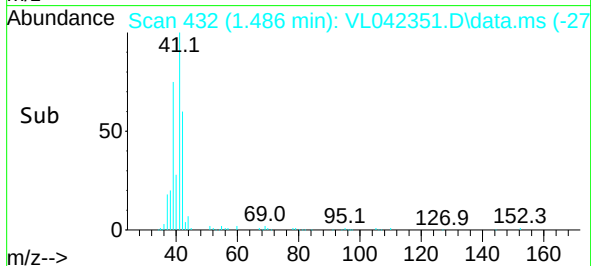
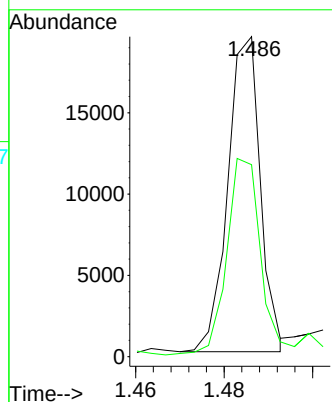
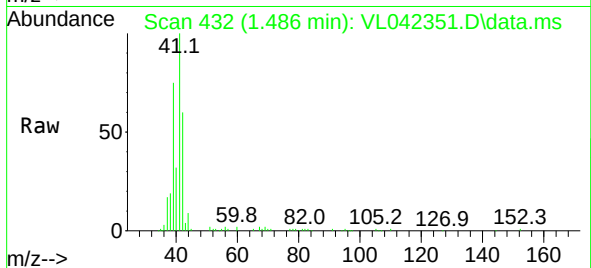
ClientSampleId :

VSTDICC001

Tgt Ion: 41 Resp: 9892
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

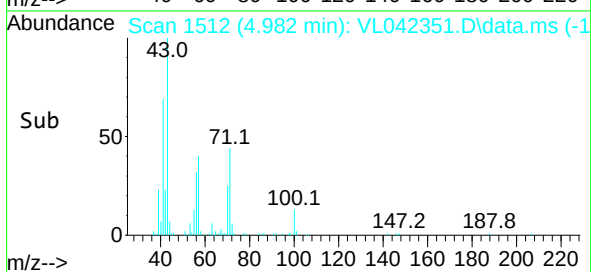
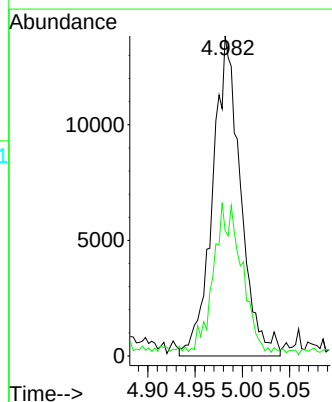
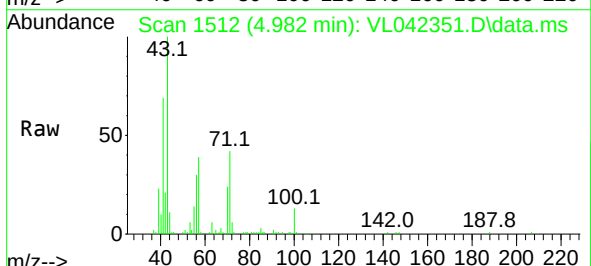
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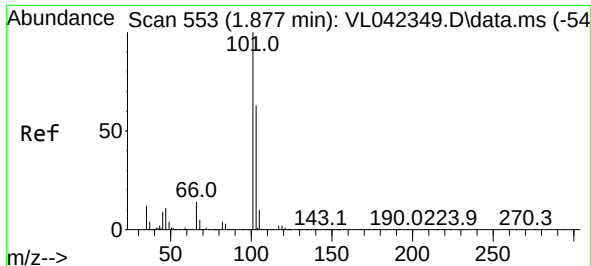
Delta R.T. 0.004 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

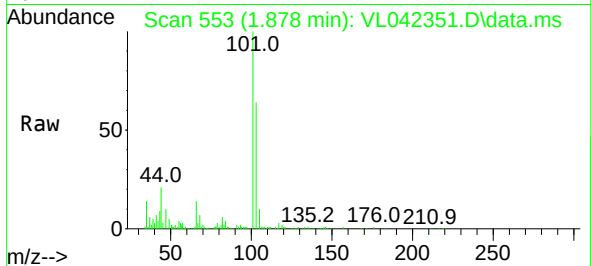
Tgt Ion: 43 Resp: 28507
Ion Ratio Lower Upper
43 100
57 48.1 39.9 59.9





#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

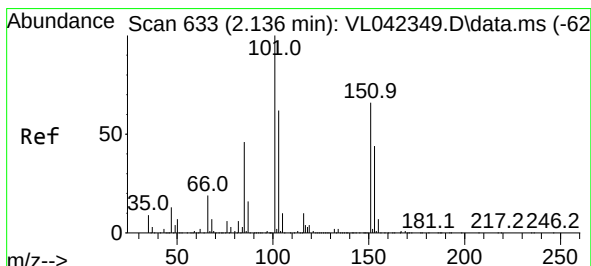
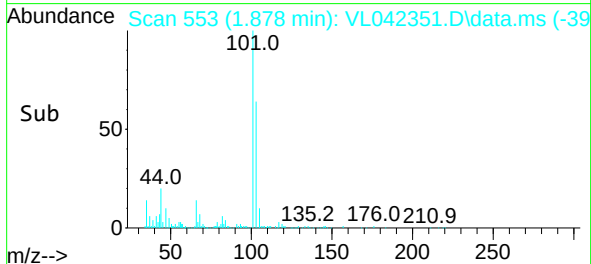
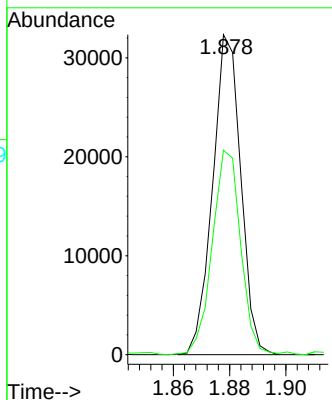
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001



Tgt Ion:101 Resp: 22428
 Ion Ratio Lower Upper
 101 100
 103 63.6 50.1 75.1

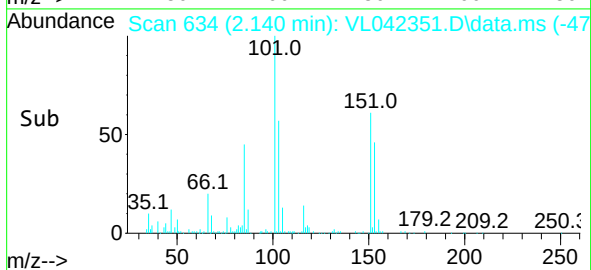
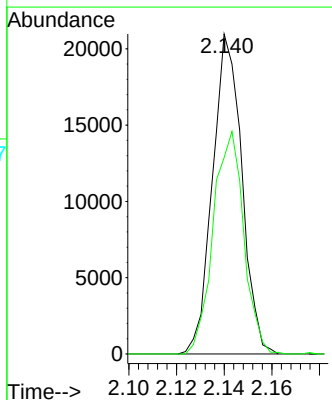
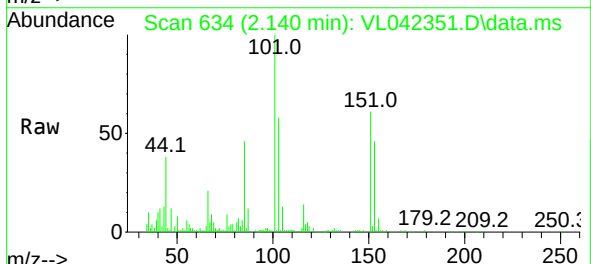
Manual Integrations
 APPROVED

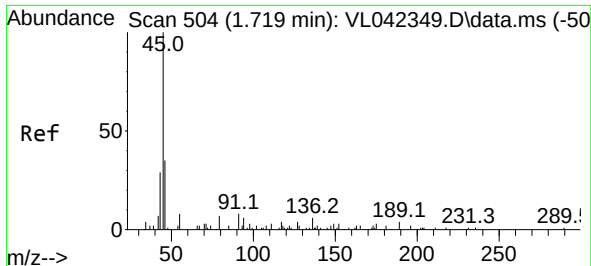
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



#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

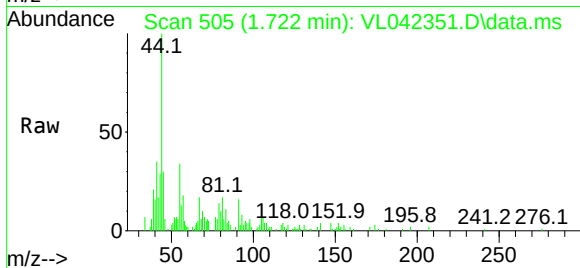
Tgt Ion:101 Resp: 17865
 Ion Ratio Lower Upper
 101 100
 151 72.6 57.0 85.6





#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

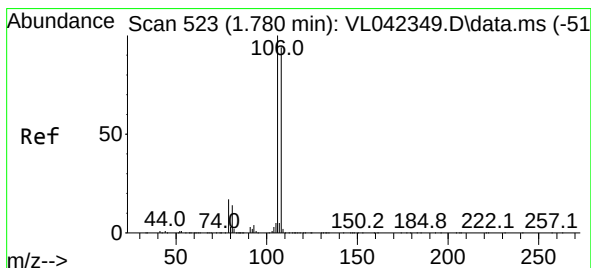
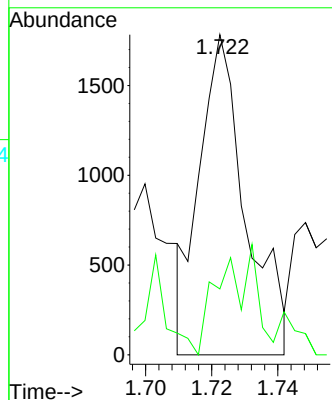
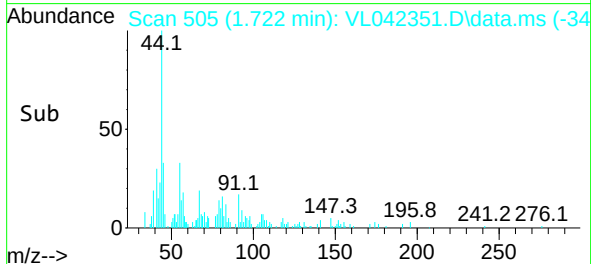
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



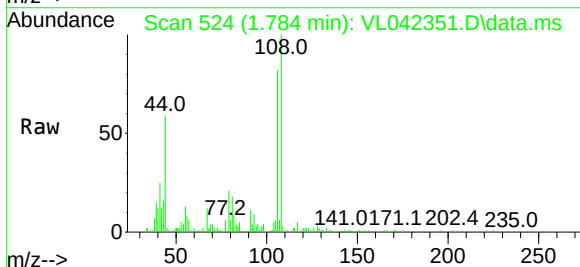
Tgt Ion: 45 Resp: 1730
Ion Ratio Lower Upper
45 100
46 44.9 21.9 87.7

Manual Integrations
APPROVED

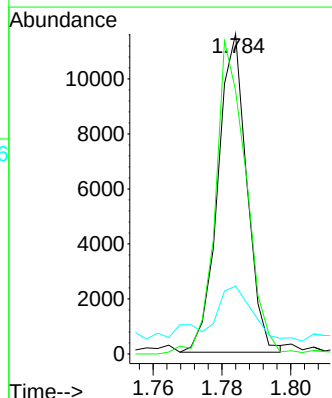
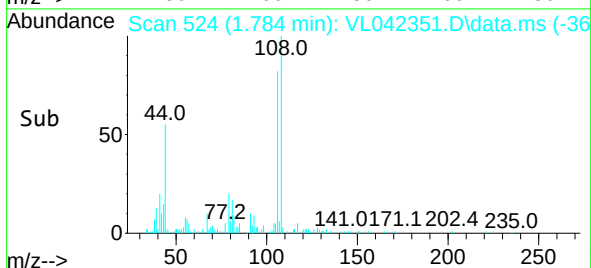
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

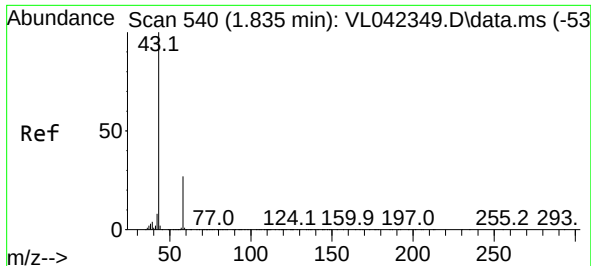


#14
Bromoethene
Concen: 1.052 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48



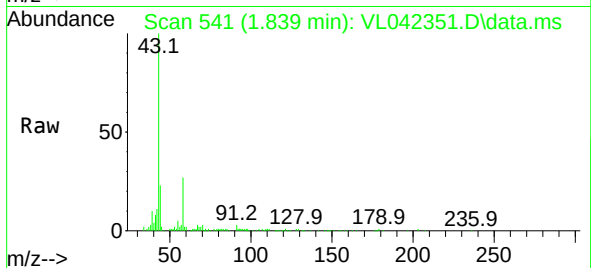
Tgt Ion:108 Resp: 6766
Ion Ratio Lower Upper
108 100
106 104.7 85.9 128.9
79 45.4 13.9 20.9#





#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

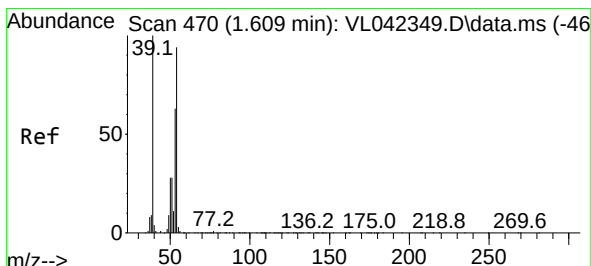
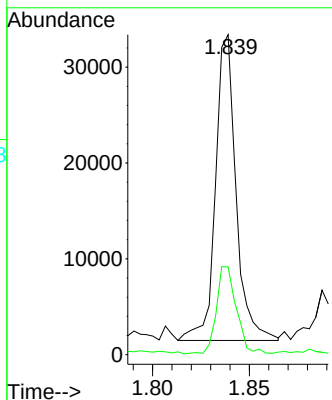
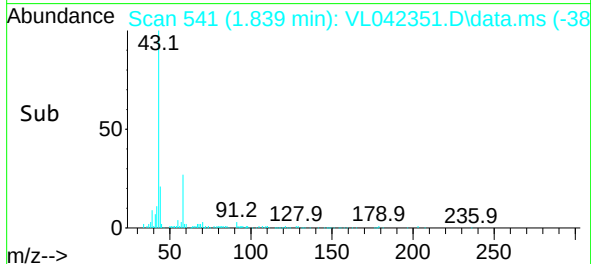
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



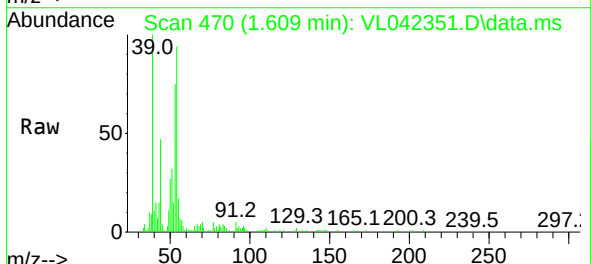
Tgt Ion: 43 Resp: 2353
Ion Ratio Lower Upper
43 100
58 29.4 22.4 33.6

Manual Integrations
APPROVED

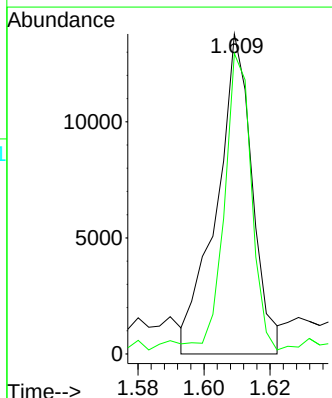
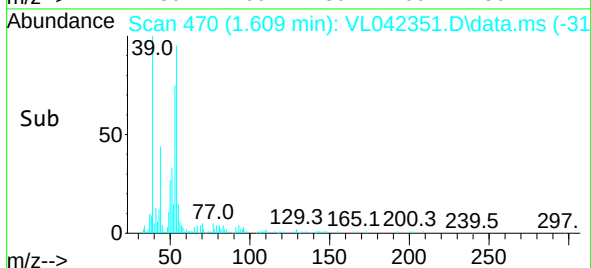
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

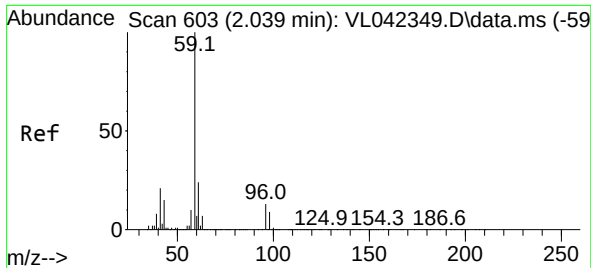


#16
1,3-Butadiene
Concen: 1.087 ppbv m
RT: 1.609 min Scan# 470
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48



Tgt Ion: 39 Resp: 10377
Ion Ratio Lower Upper
39 100
54 71.0 64.9 97.3





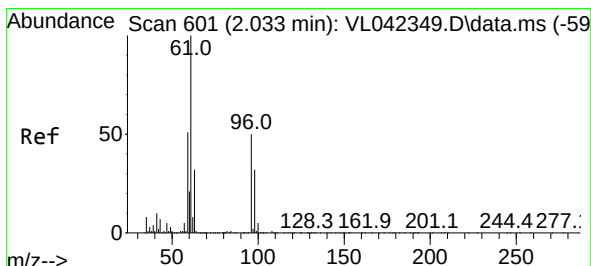
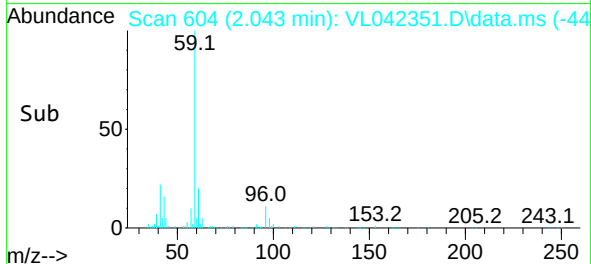
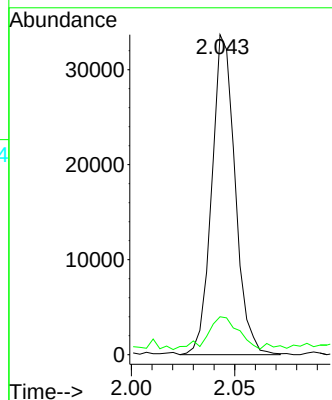
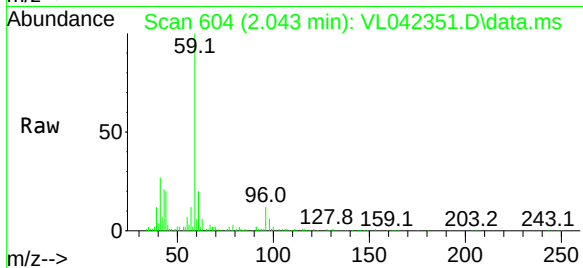
#17
tert-Butyl alcohol
Concen: 1.051 ppbv
RT: 2.043 min Scan# 603
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 59 Resp: 2647
Ion Ratio Lower Upper
59 100
57 14.6 8.7 13.1

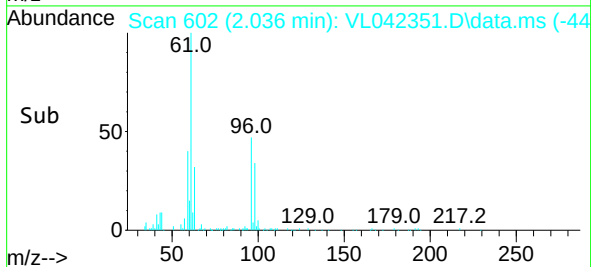
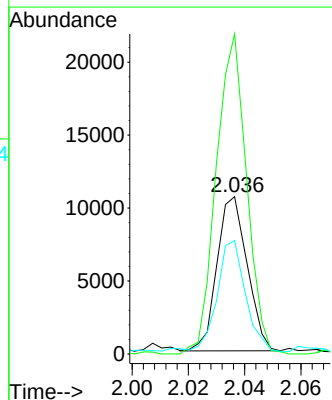
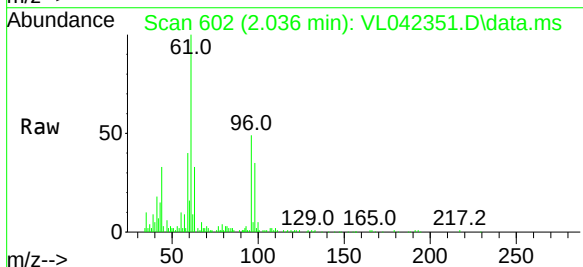
Manual Integrations
APPROVED

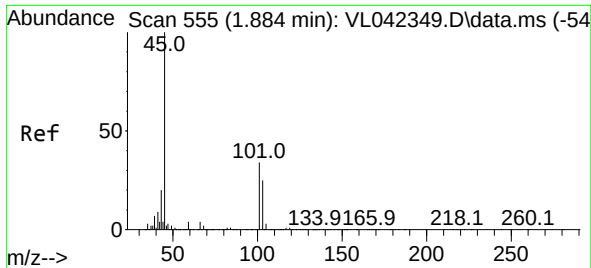
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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





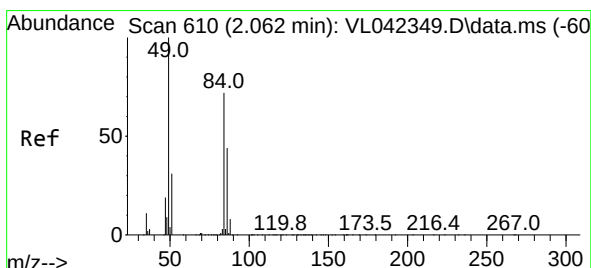
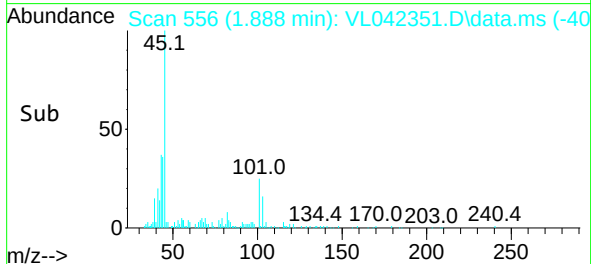
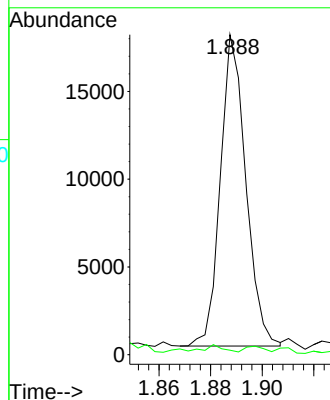
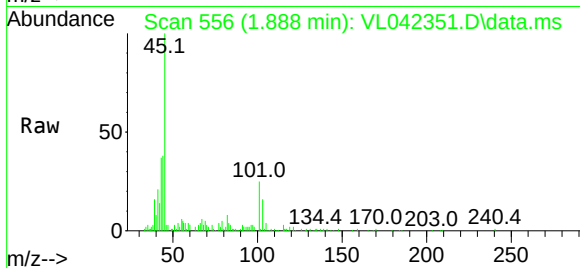
#19
Isopropyl Alcohol
Concen: 1.078 ppbv
RT: 1.888 min Scan# 511
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 45 Resp: 1217
Ion Ratio Lower Upper
45 100
58 3.8 34.5 51.7

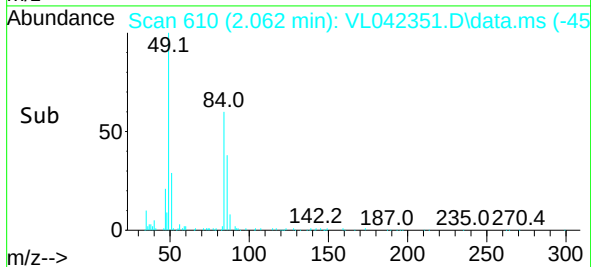
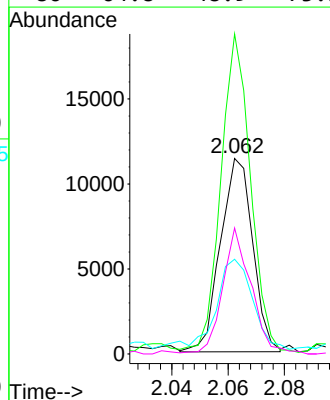
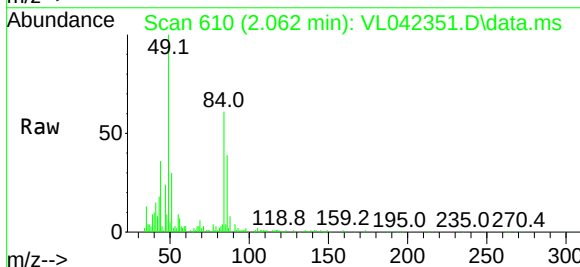
Manual Integrations
APPROVED

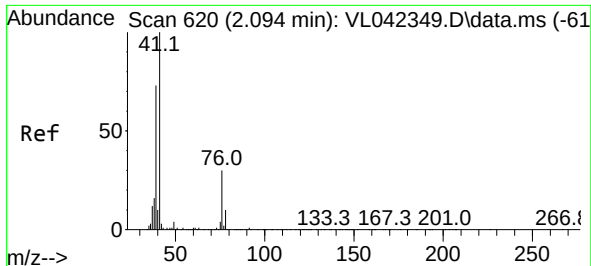
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

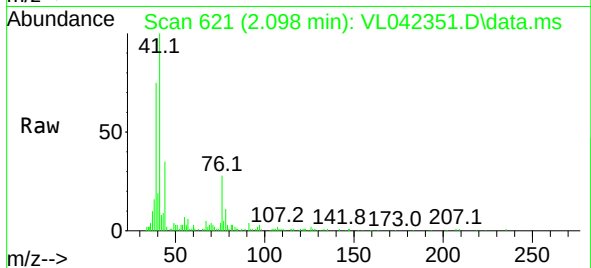
Tgt Ion: 84 Resp: 9046
Ion Ratio Lower Upper
84 100
49 164.4 111.6 167.4
51 44.4 35.1 52.7
86 64.8 48.9 73.3





#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

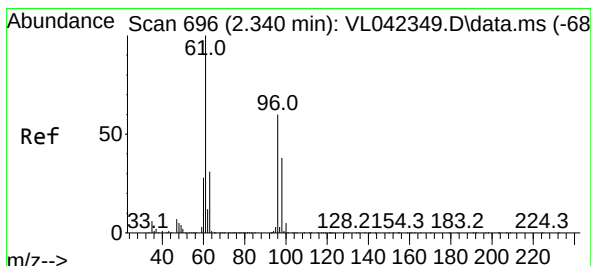
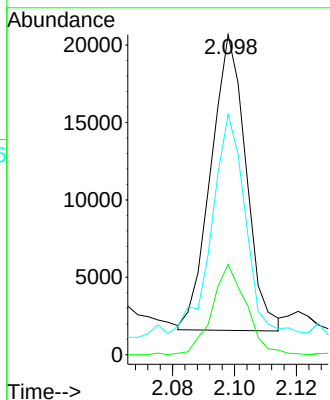
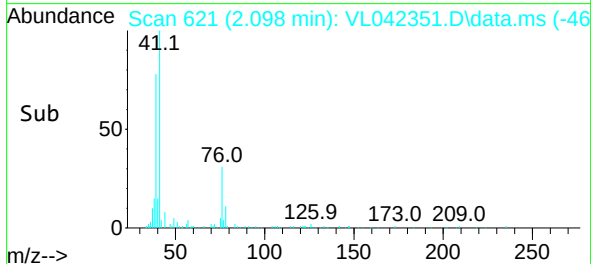
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001



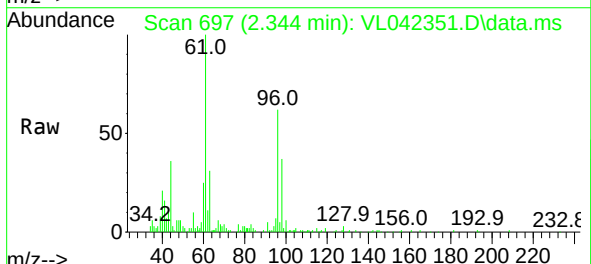
Tgt Ion: 41 Resp: 1505
 Ion Ratio Lower Upper
 41 100
 76 29.8 24.8 37.2
 39 86.1 60.6 90.8

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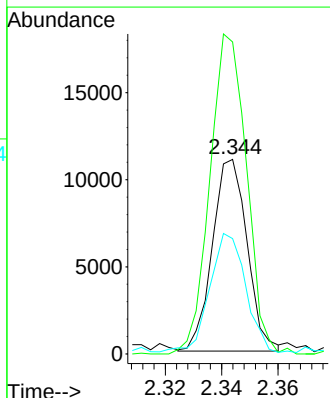
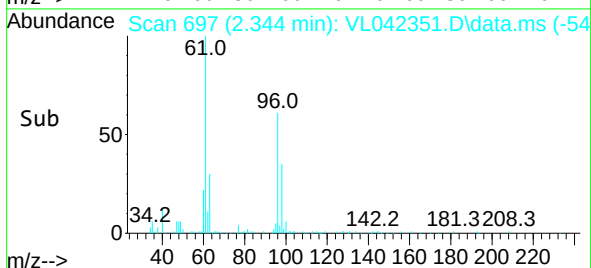
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

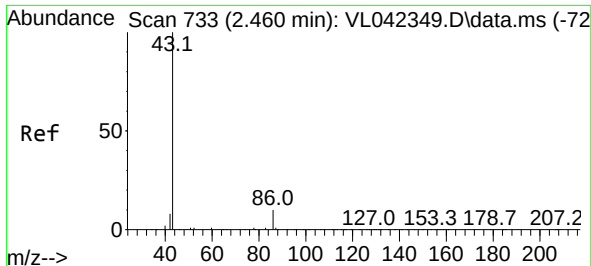


#22
 trans-1,2-Dichloroethene
 Concen: 1.038 ppbv
 RT: 2.344 min Scan# 697
 Delta R.T. 0.004 min
 Lab File: VL042351.D
 Acq: 17 Apr 2025 10:48



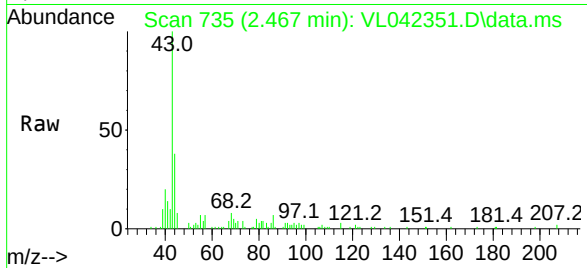
Tgt Ion: 96 Resp: 9421
 Ion Ratio Lower Upper
 96 100
 61 161.7 133.7 200.5
 98 59.8 50.3 75.5





#23
Vinyl Acetate
Concen: 1.122 ppbv
RT: 2.467 min Scan# 717
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

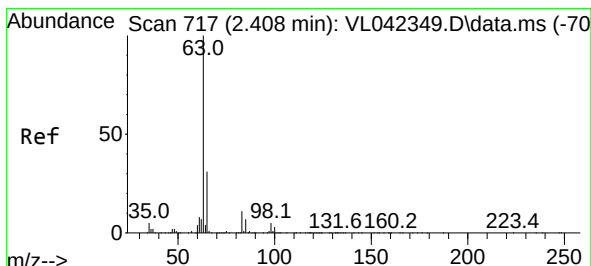
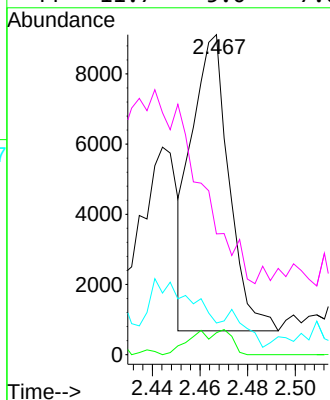
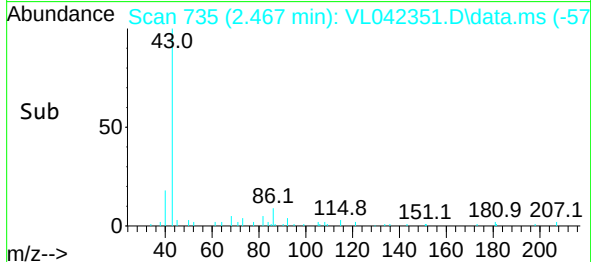
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC001



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#

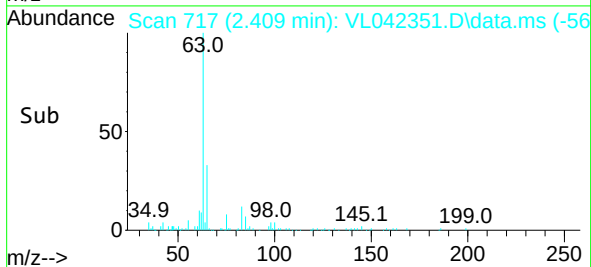
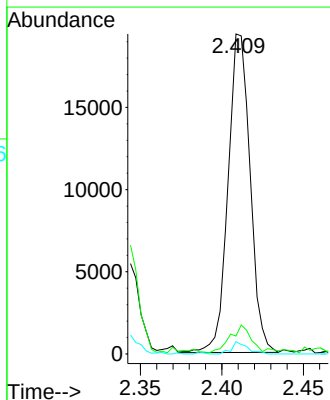
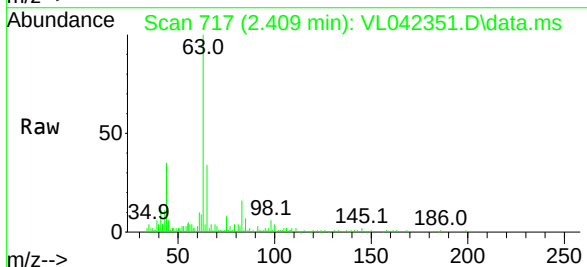
Manual Integrations
APPROVED

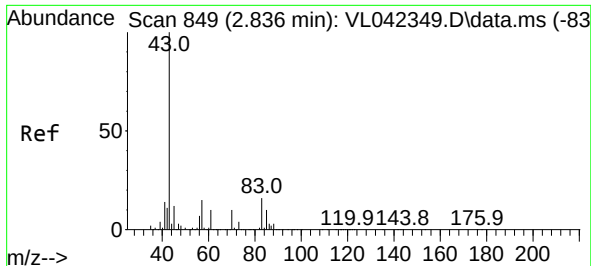
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

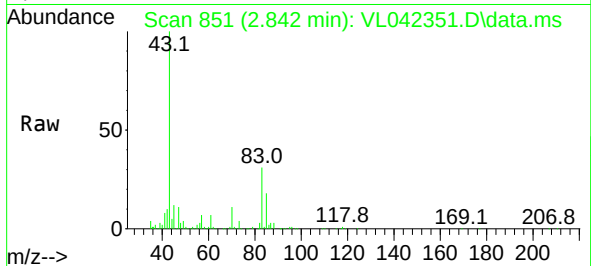
Tgt Ion: 63 Resp: 18236
Ion Ratio Lower Upper
63 100
98 4.7 2.3 6.8
100 3.9 1.6 4.8





#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

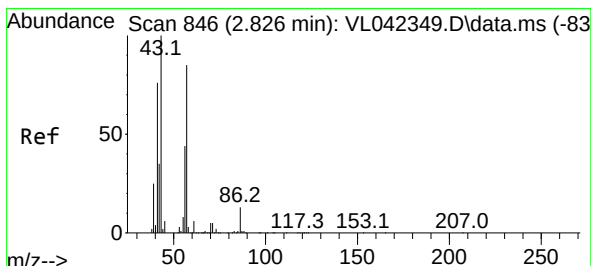
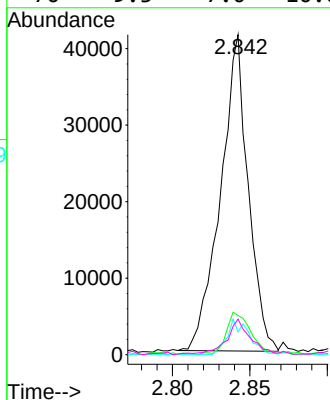
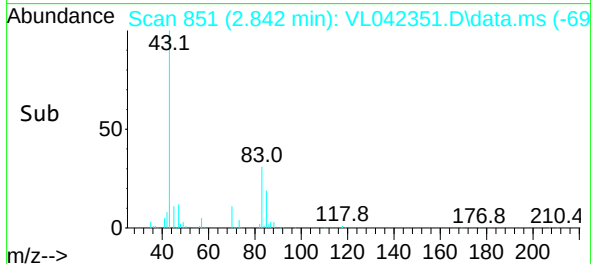
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



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

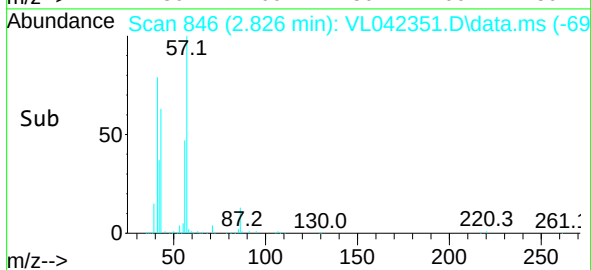
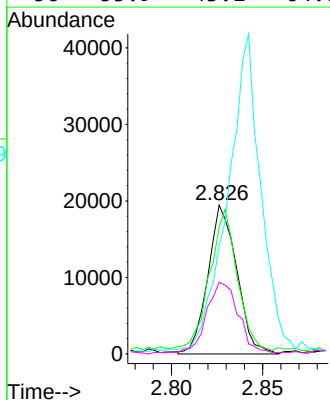
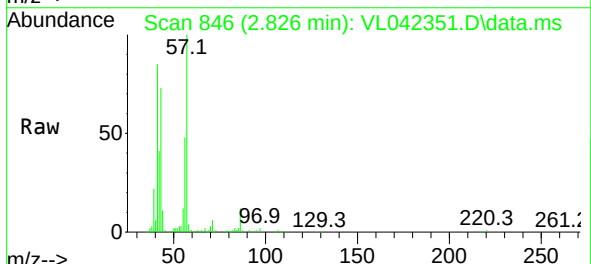
Manual Integrations
APPROVED

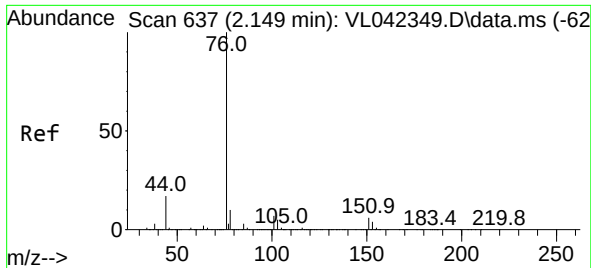
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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 :

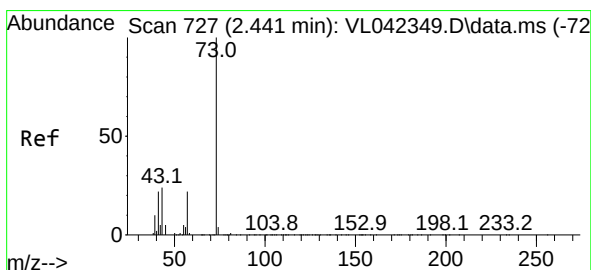
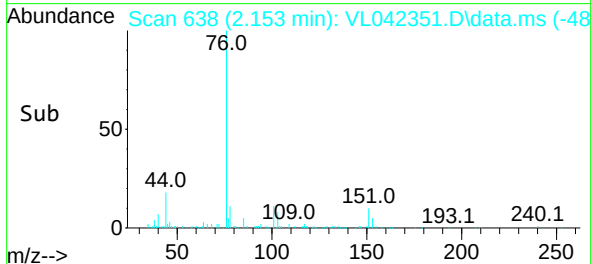
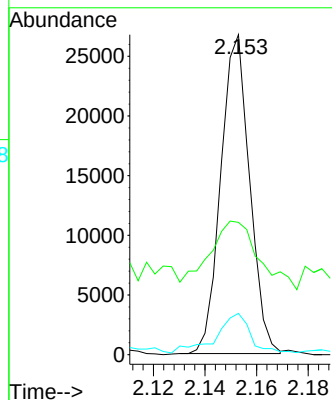
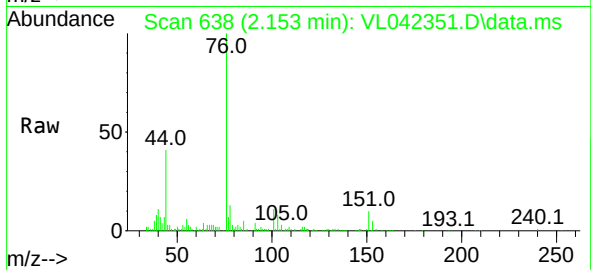
VSTDICC001

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

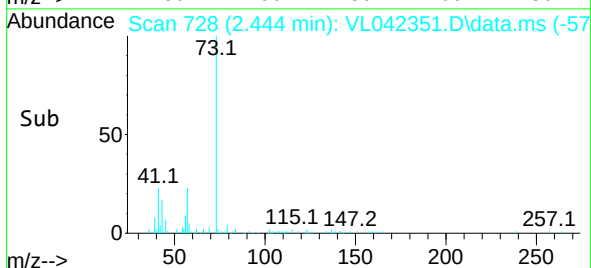
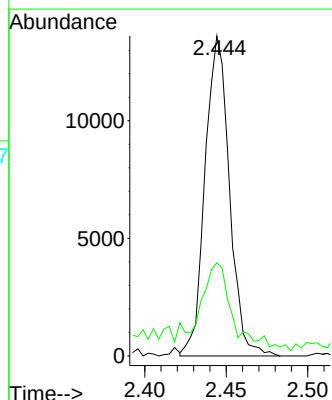
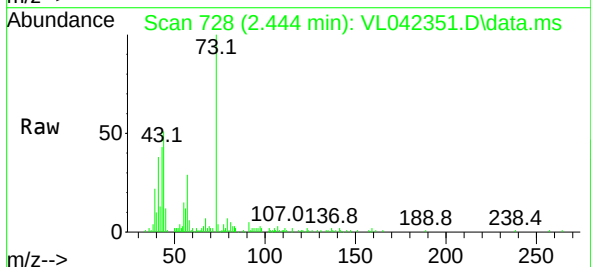
RT: 2.444 min Scan# 728

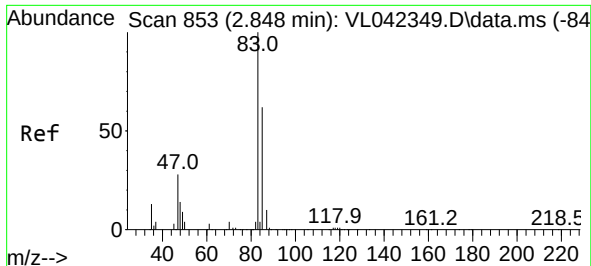
Delta R.T. 0.004 min

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 :

VSTDICC001

Tgt Ion: 83 Resp: 2897

Ion Ratio Lower Upper

83 100

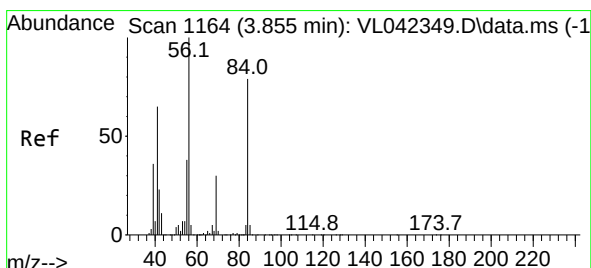
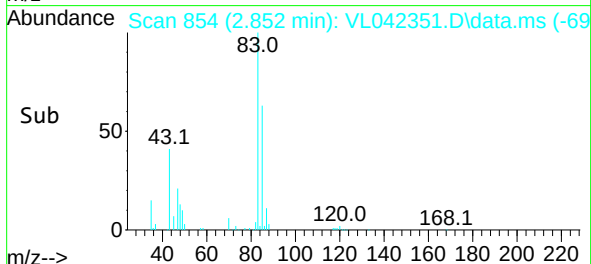
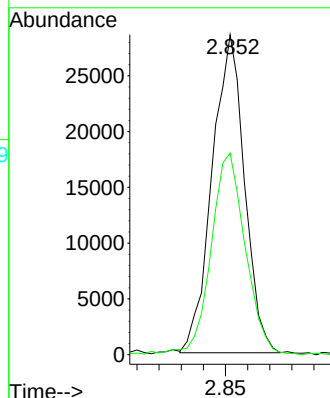
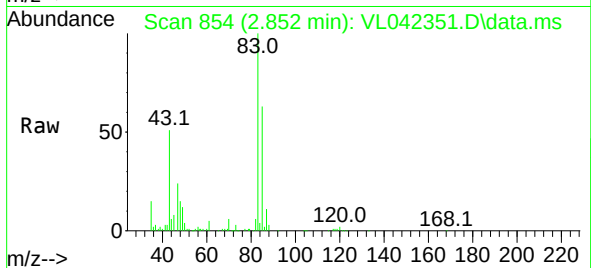
85 62.6 50.0 75.0

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

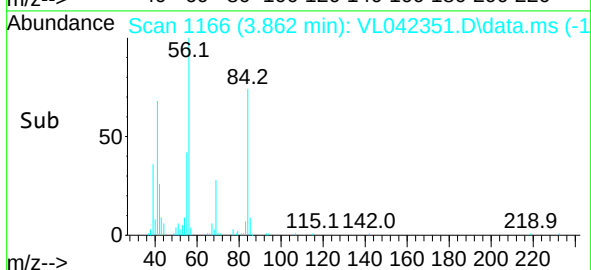
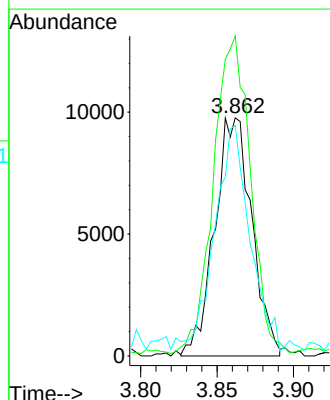
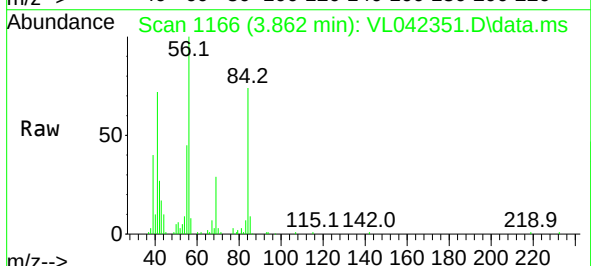
Tgt Ion: 84 Resp: 16547

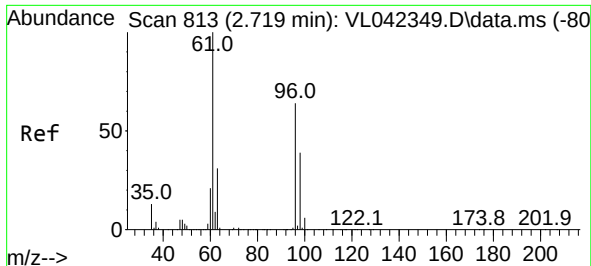
Ion Ratio Lower Upper

84 100

56 134.2 101.0 151.4

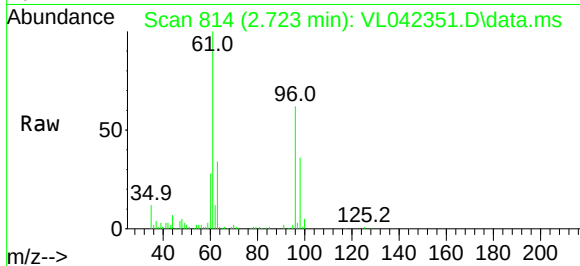
41 85.1 67.4 101.0





#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

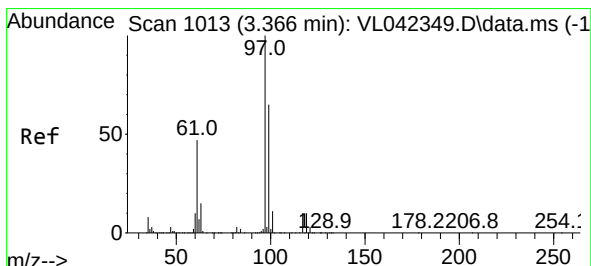
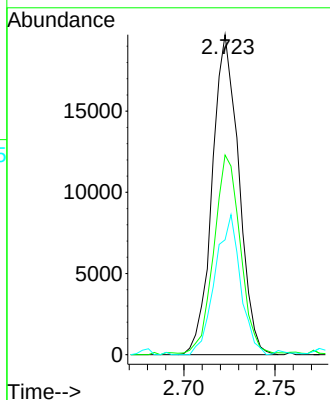
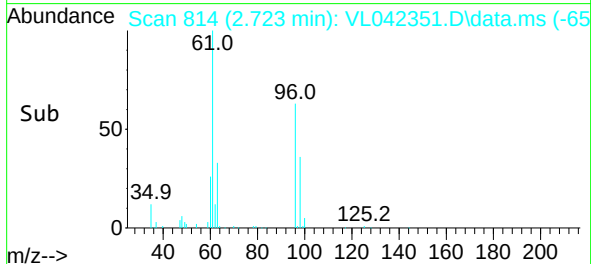
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001



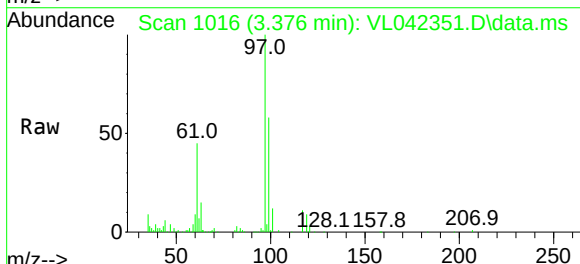
Tgt Ion: 61 Resp: 19904
 Ion Ratio Lower Upper
 61 100
 96 61.9 50.8 76.2
 98 35.9 30.9 46.3

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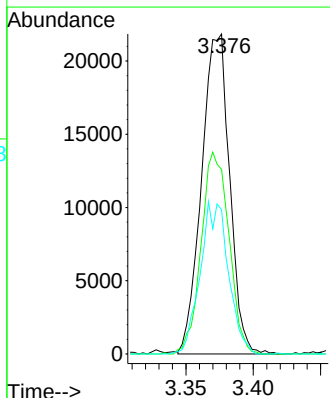
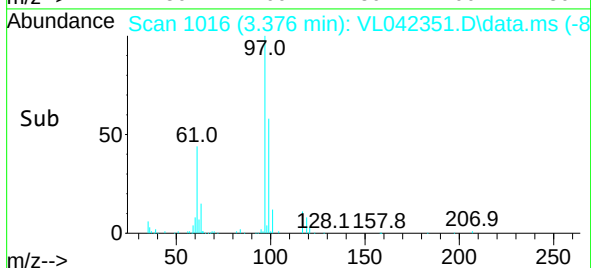
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

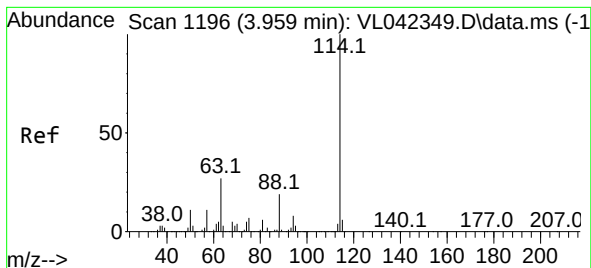


#32
 1,1,1-Trichloroethane
 Concen: 1.030 ppbv
 RT: 3.376 min Scan# 1016
 Delta R.T. 0.010 min
 Lab File: VL042351.D
 Acq: 17 Apr 2025 10:48



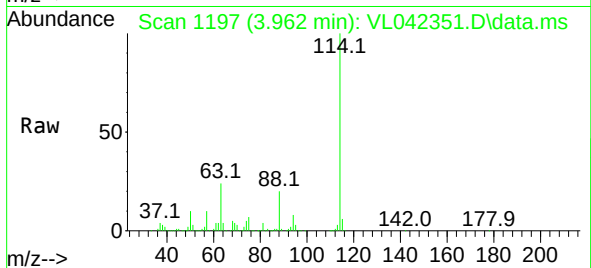
Tgt Ion: 97 Resp: 31653
 Ion Ratio Lower Upper
 97 100
 99 62.4 51.0 76.4
 61 47.6 38.8 58.2





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1196
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

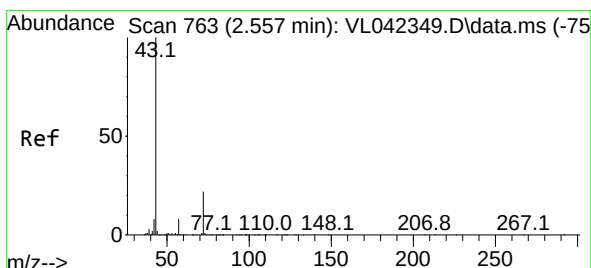
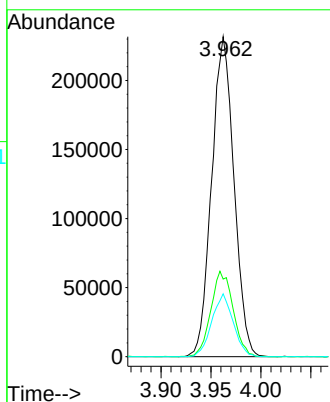
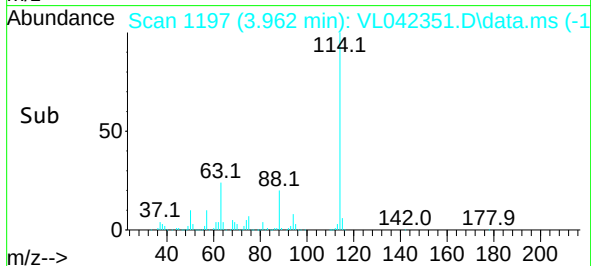
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



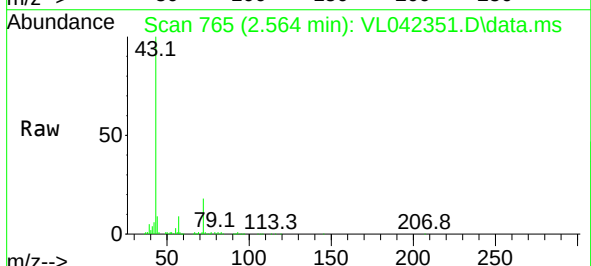
Tgt Ion:114 Resp: 35990
Ion Ratio Lower Upper
114 100
63 26.7 21.8 32.6
88 18.8 15.5 23.3

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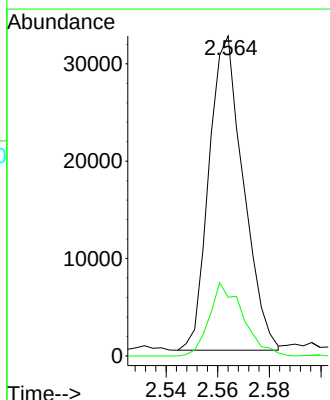
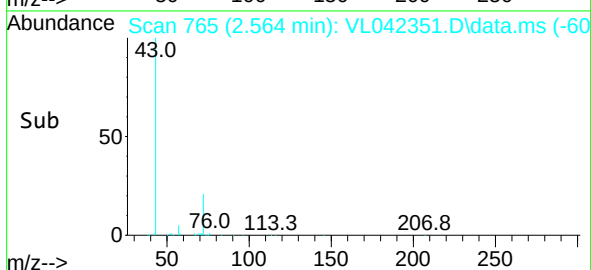
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

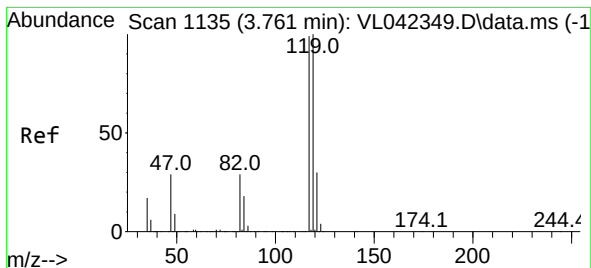


#34
2-Butanone
Concen: 1.045 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48



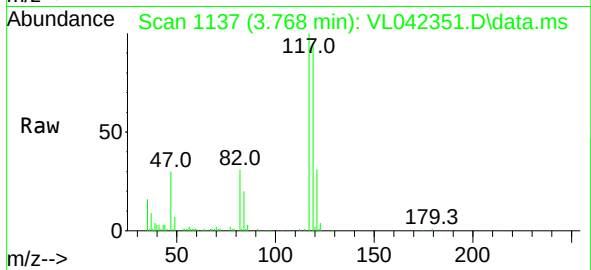
Tgt Ion: 43 Resp: 29735
Ion Ratio Lower Upper
43 100
72 23.1 18.2 27.2





#35
Carbon Tetrachloride
Concen: 0.917 ppbv
RT: 3.768 min Scan# 1135
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

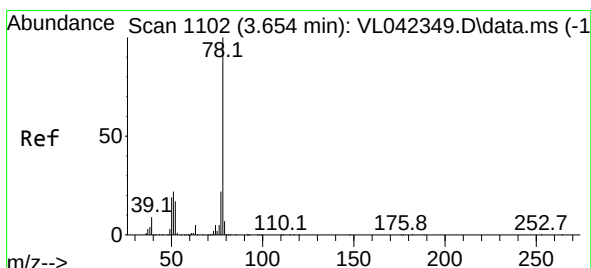
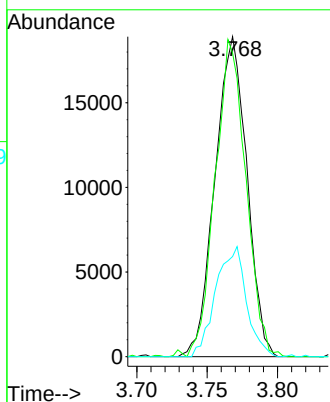
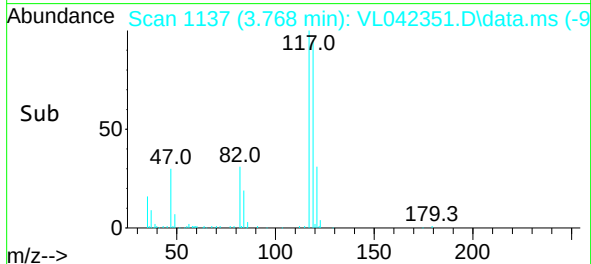
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



Tgt Ion: 117 Resp: 2987
Ion Ratio Lower Upper
117 100
119 93.3 80.5 120.7
121 31.3 24.2 36.2

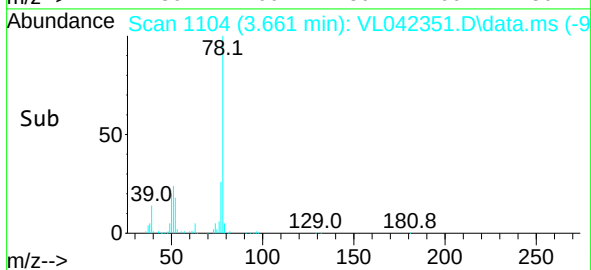
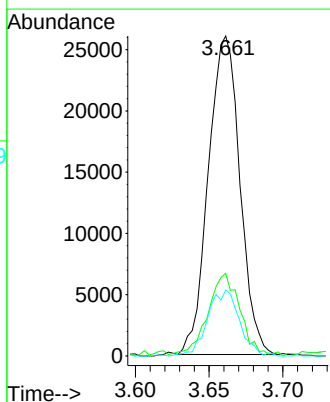
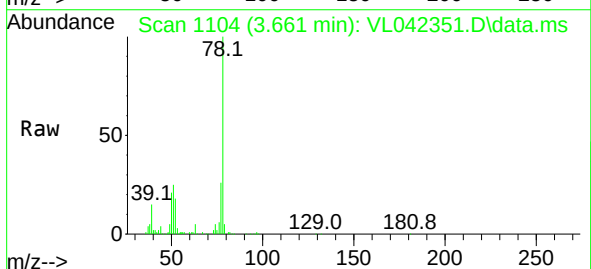
Manual Integrations
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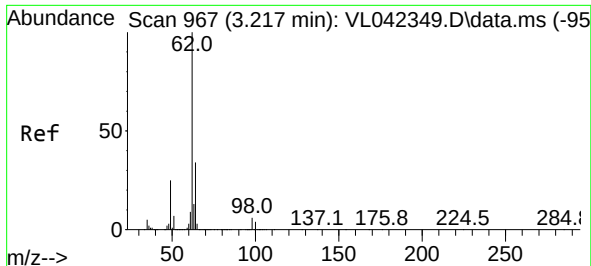
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#36
Benzene
Concen: 0.997 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 78 Resp: 38707
Ion Ratio Lower Upper
78 100
77 24.7 17.4 26.0
50 20.7 15.5 23.3





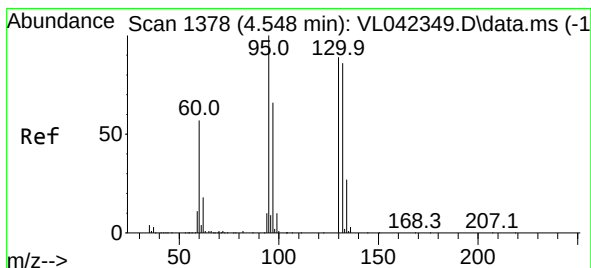
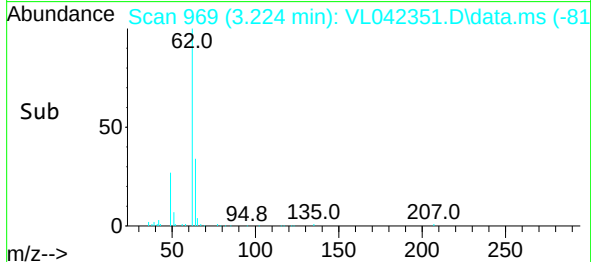
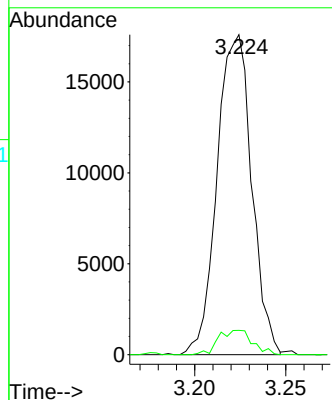
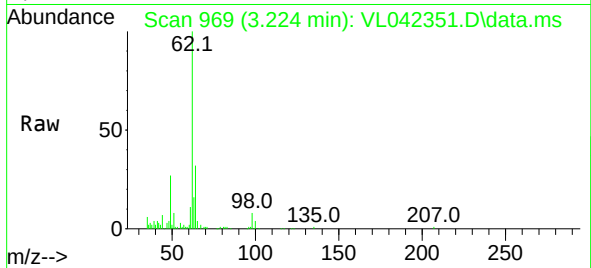
#37
1,2-Dichloroethane
Concen: 0.999 ppbv
RT: 3.224 min Scan# 969
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 62 Resp: 23284
Ion Ratio Lower Upper
62 100
98 7.5 5.1 7.7

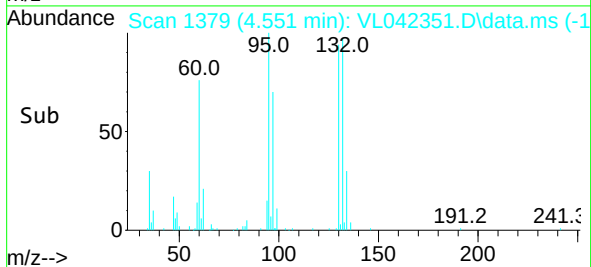
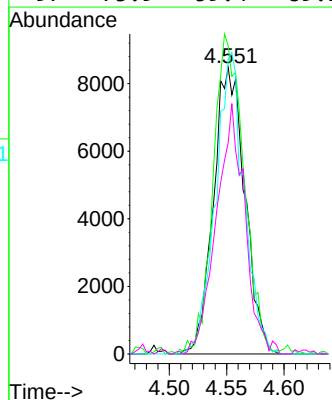
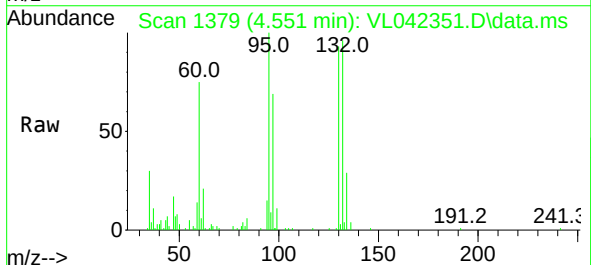
Manual Integrations
APPROVED

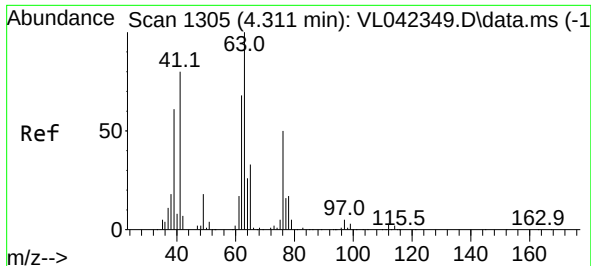
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

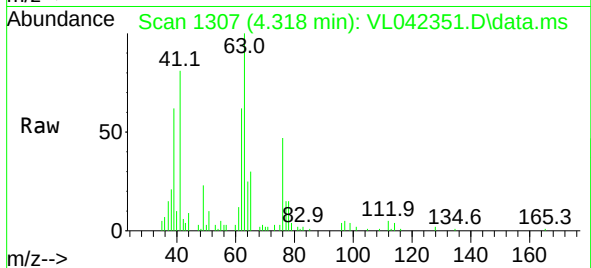
Tgt Ion:130 Resp: 16119
Ion Ratio Lower Upper
130 100
95 106.6 89.8 134.6
132 102.9 77.7 116.5
97 73.9 59.4 89.2





#39
1,2-Dichloropropane
Concen: 1.027 ppbv
RT: 4.318 min Scan# 1307
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

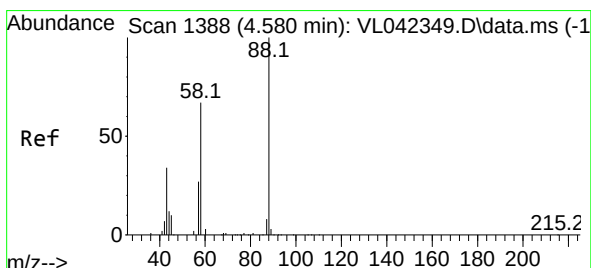
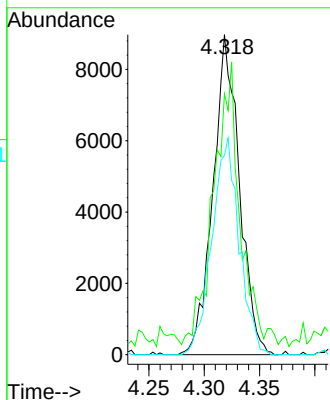
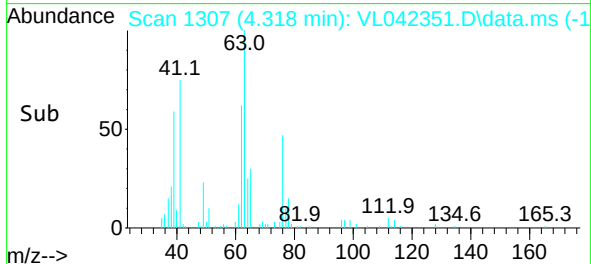
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



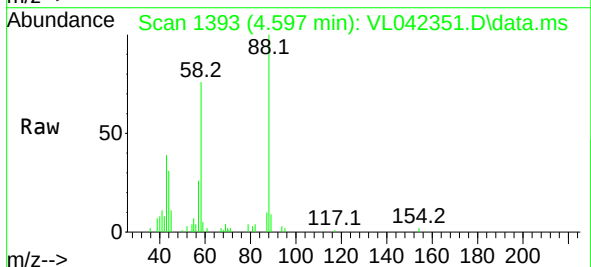
Tgt Ion: 63 Resp: 1486
Ion Ratio Lower Upper
63 100
41 78.3 64.2 96.2
62 62.3 54.3 81.5

Manual Integrations
APPROVED

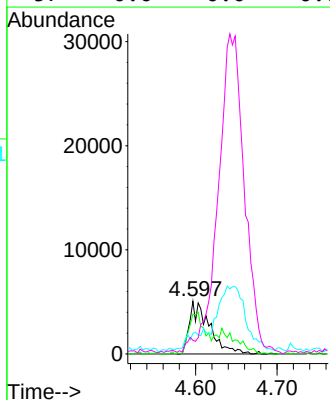
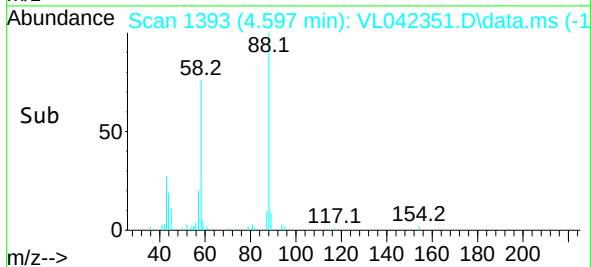
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

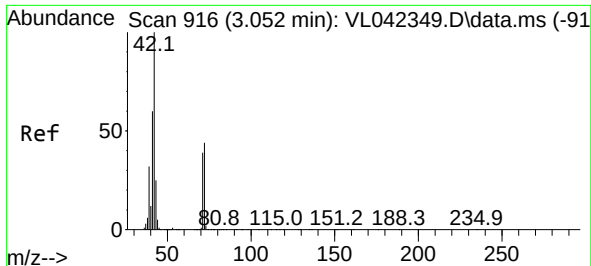


#40
1,4-Dioxane
Concen: 1.114 ppbv m
RT: 4.597 min Scan# 1393
Delta R.T. 0.017 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48



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





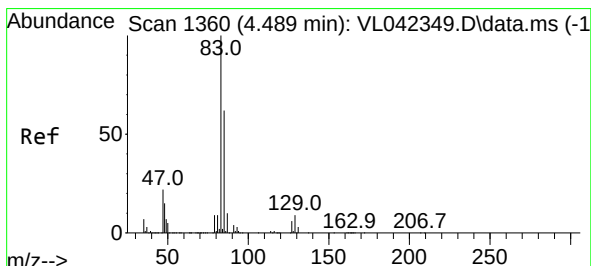
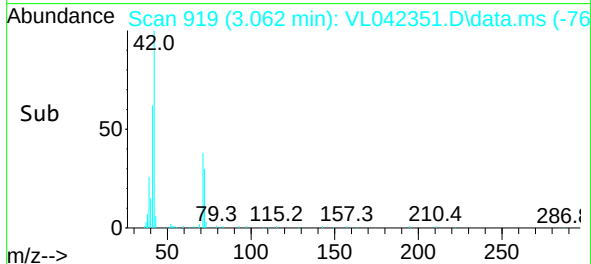
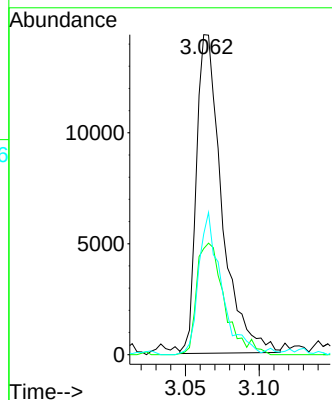
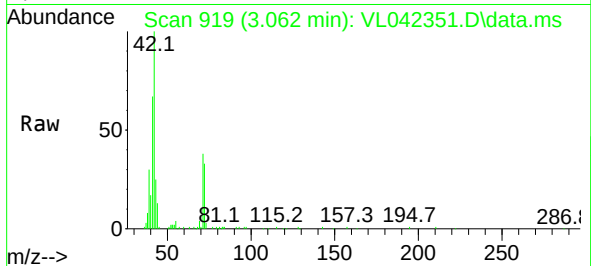
#41
Tetrahydrofuran
Concen: 1.049 ppbv
RT: 3.062 min Scan# 916
Delta R.T. 0.010 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

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

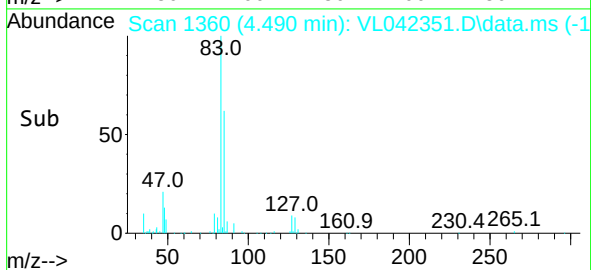
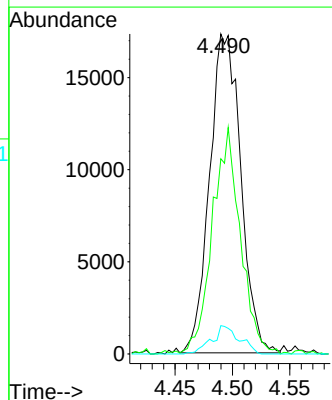
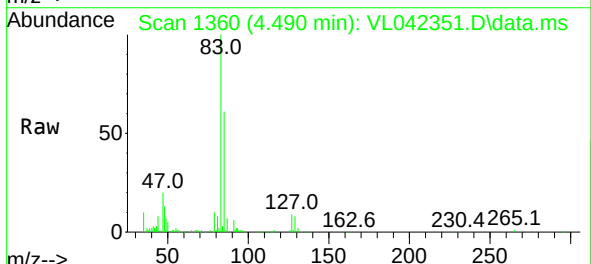
Manual Integrations
APPROVED

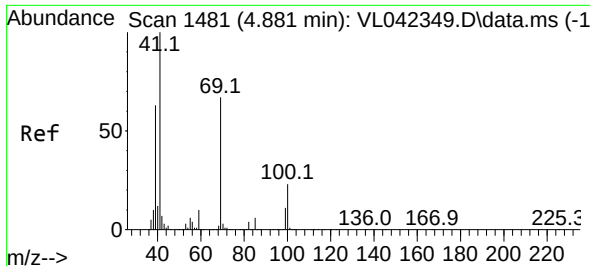
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

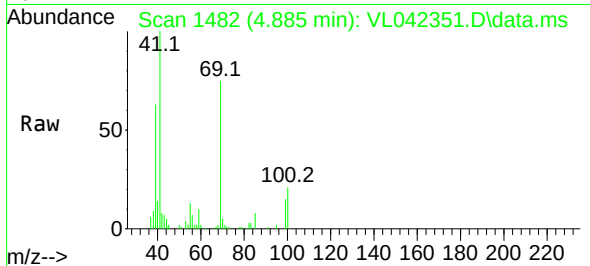
Tgt Ion: 83 Resp: 32721
Ion Ratio Lower Upper
83 100
85 61.2 49.7 74.5
127 8.9 5.1 7.7#





#43
Methyl Methacrylate
Concen: 1.073 ppbv m
RT: 4.885 min Scan# 1482
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

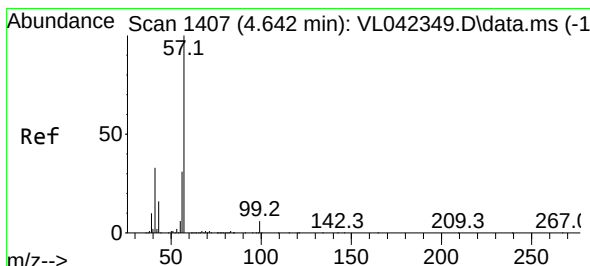
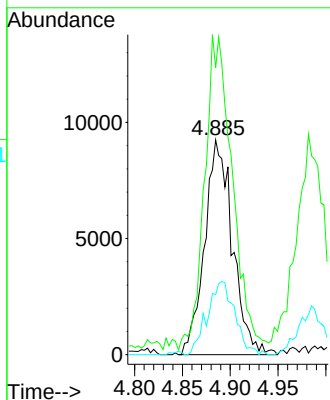
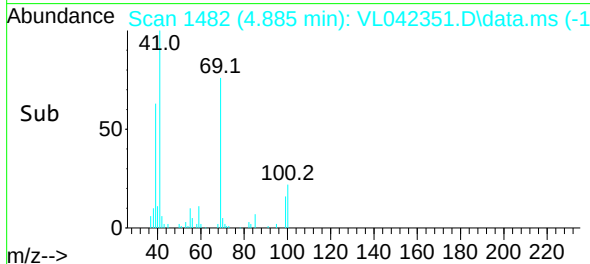
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



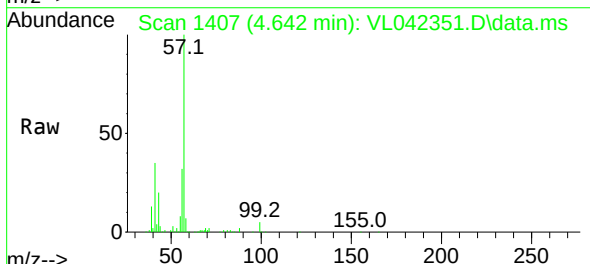
Tgt Ion: 69 Resp: 1869
Ion Ratio Lower Upper
69 100
41 149.3 118.6 177.8
100 0.0 28.2 42.2

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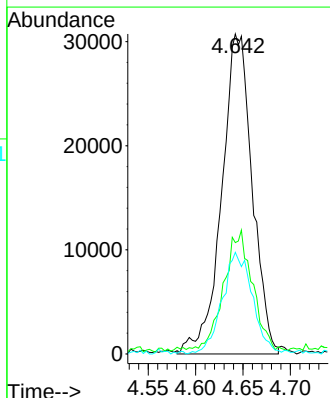
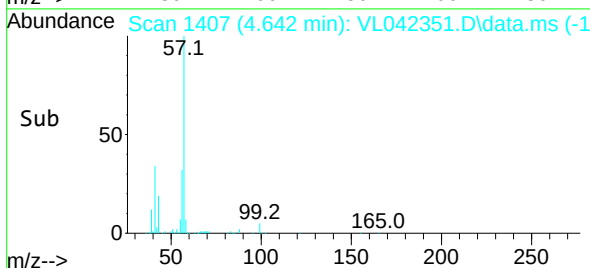
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

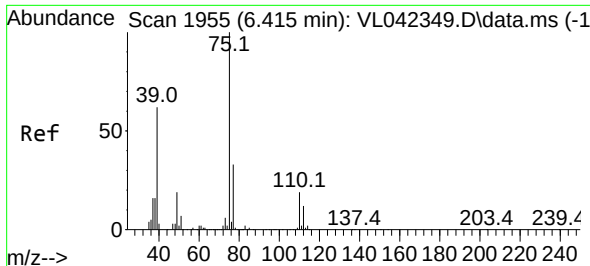


#44
2,2,4-Trimethylpentane
Concen: 1.027 ppbv m
RT: 4.642 min Scan# 1407
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48



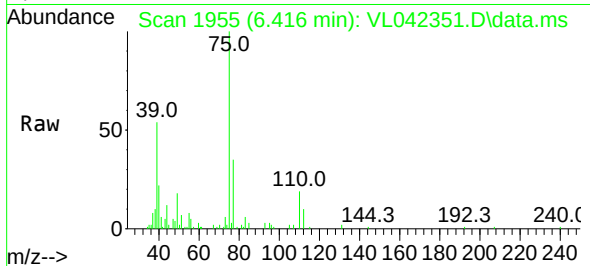
Tgt Ion: 57 Resp: 68946
Ion Ratio Lower Upper
57 100
41 37.9 27.2 40.8
56 0.0 25.7 38.5





#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

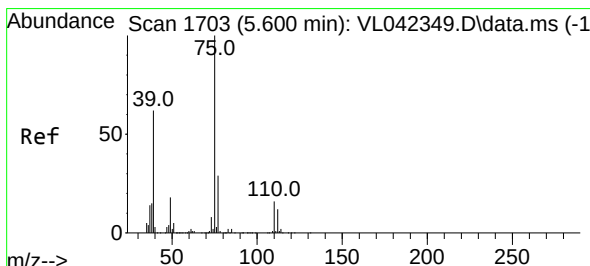
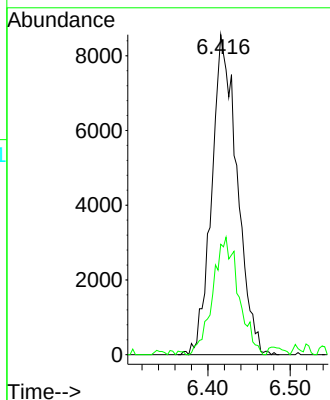
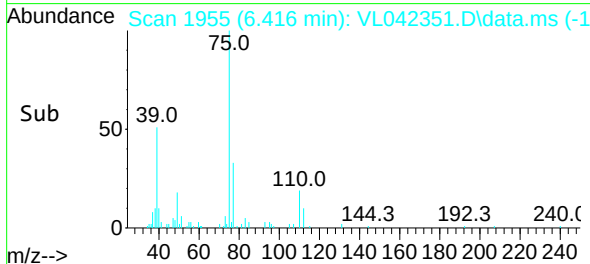
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



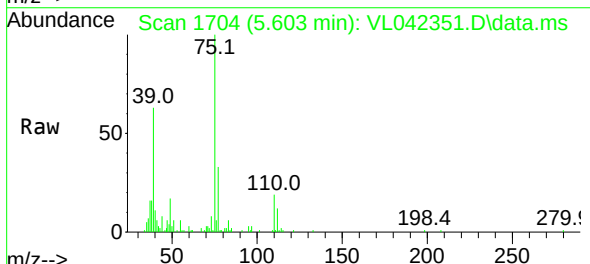
Tgt Ion: 75 Resp: 1834
Ion Ratio Lower Upper
75 100
77 34.5 27.0 40.6

Manual Integrations
APPROVED

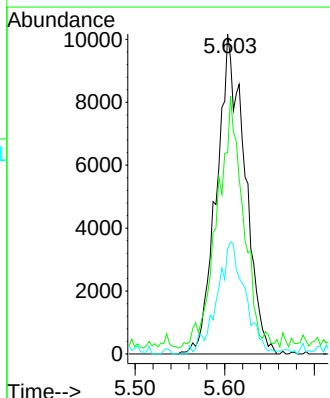
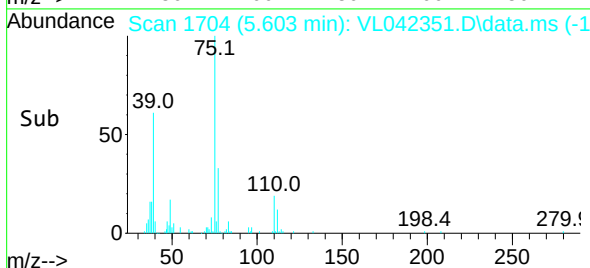
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

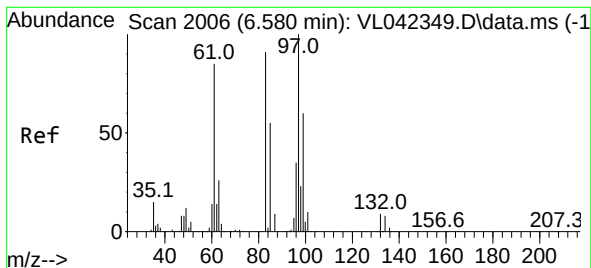


#46
cis-1,3-Dichloropropene
Concen: 1.015 ppbv m
RT: 5.603 min Scan# 1704
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48



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

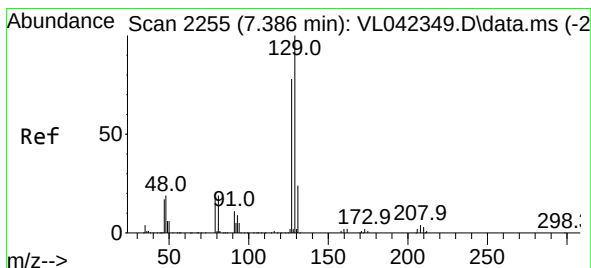
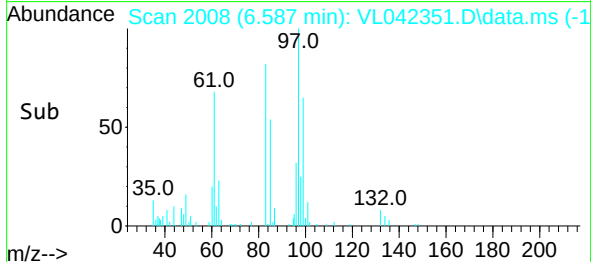
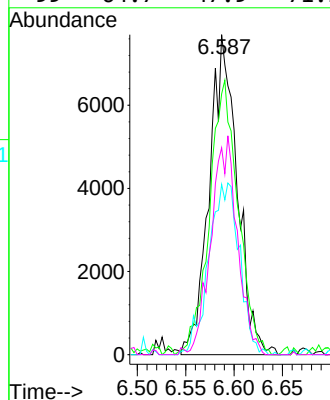
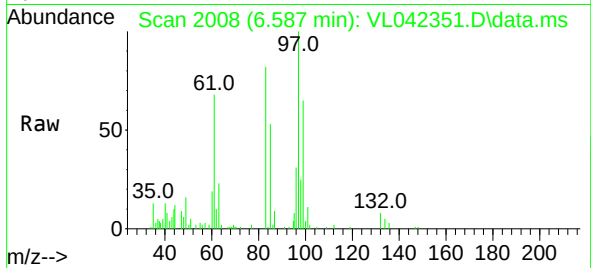
Tgt Ion:	97	Resp:	1545
Ion	Ratio	Lower	Upper
97	100		
83	81.5	72.8	109.2
85	53.2	44.2	66.4
99	64.7	47.9	71.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#48

Dibromochloromethane

Concen: 0.997 ppbv

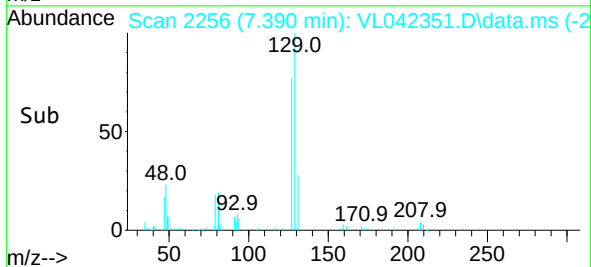
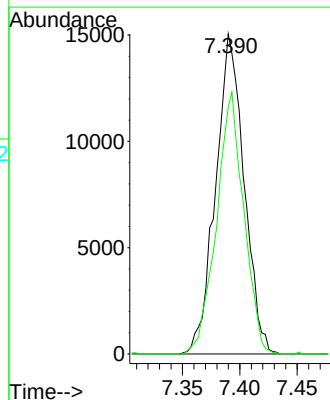
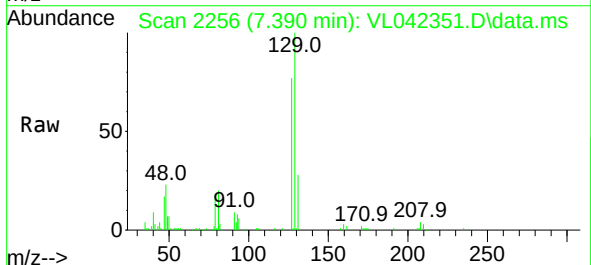
RT: 7.390 min Scan# 2256

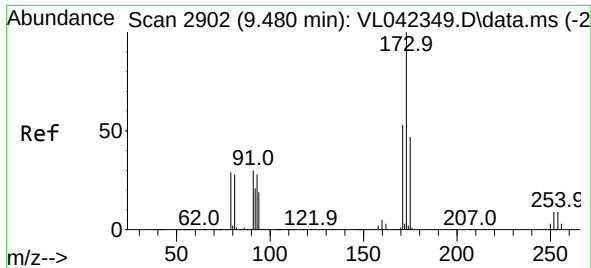
Delta R.T. 0.004 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

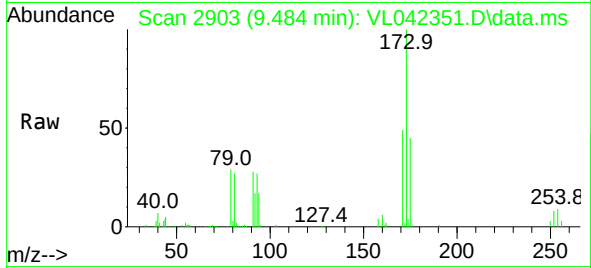
Tgt Ion:	129	Resp:	25948
Ion	Ratio	Lower	Upper
129	100		
127	78.4	39.1	117.3





#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

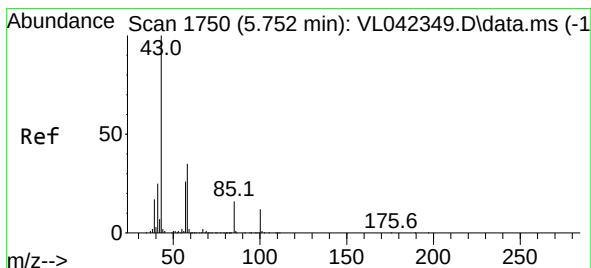
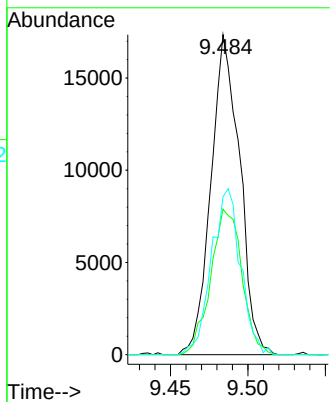
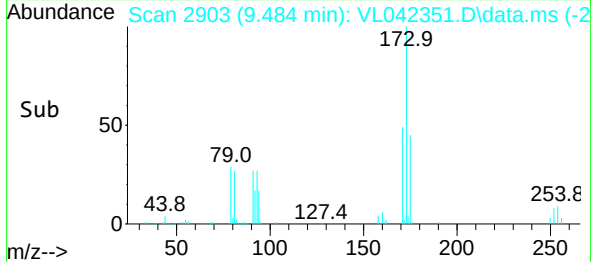
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



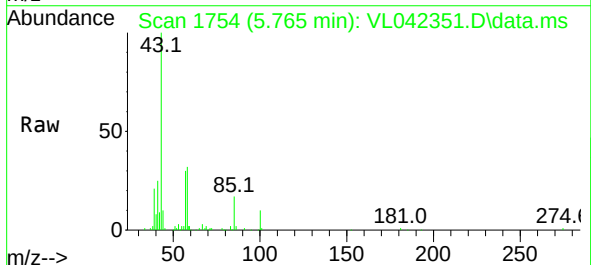
Tgt Ion:173 Resp: 2241
Ion Ratio Lower Upper
173 100
175 49.3 38.2 57.2
171 52.7 40.9 61.3

Manual Integrations
APPROVED

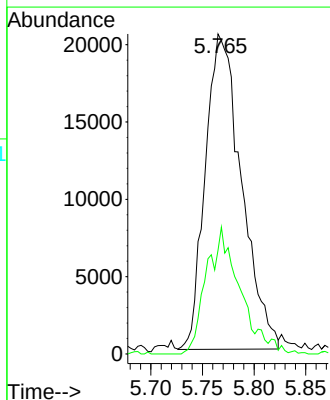
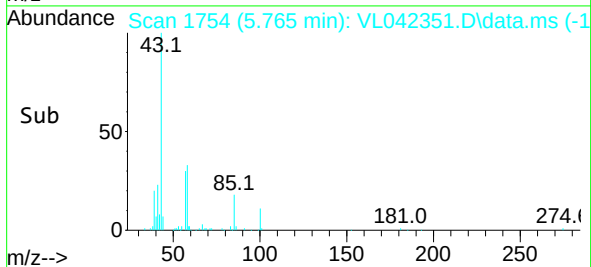
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

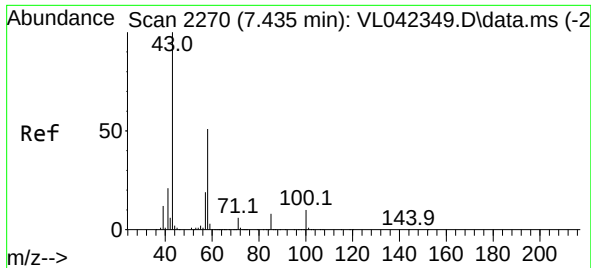


#50
4-Methyl-2-Pentanone
Concen: 1.049 ppbv
RT: 5.765 min Scan# 1754
Delta R.T. 0.013 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48



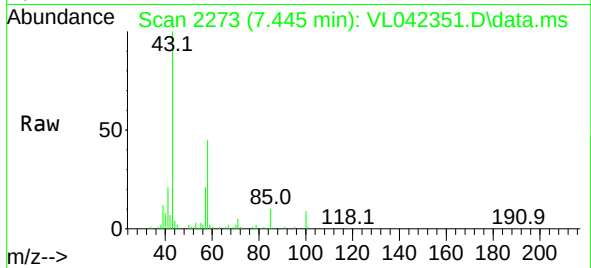
Tgt Ion: 43 Resp: 49725
Ion Ratio Lower Upper
43 100
58 37.7 28.6 43.0





#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

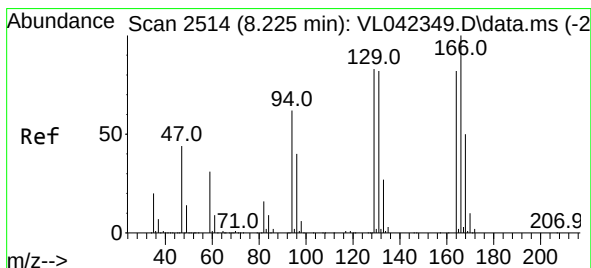
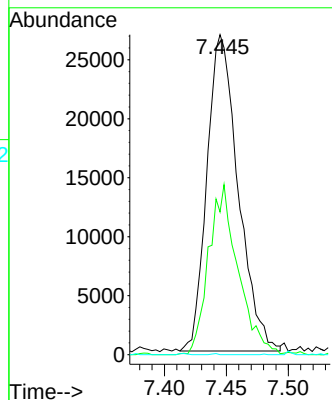
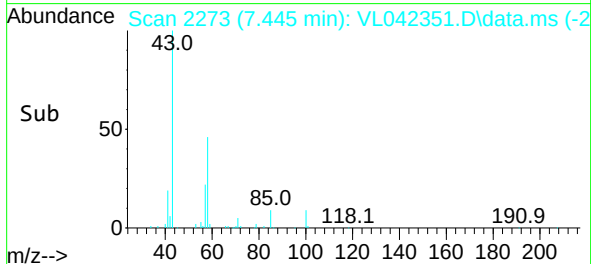
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



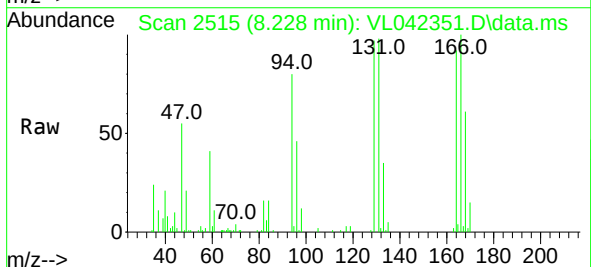
Tgt Ion: 43 Resp: 47178
Ion Ratio Lower Upper
43 100
58 50.8 40.2 60.4
98 0.1 0.1 0.1

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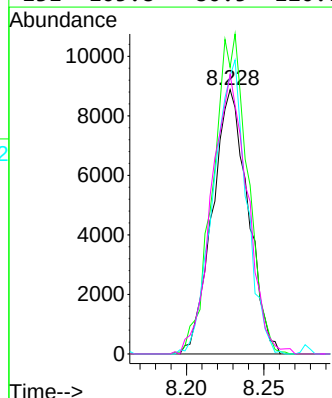
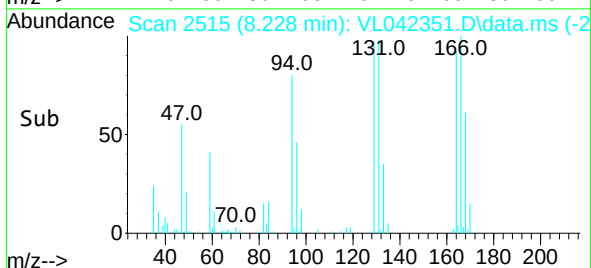
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

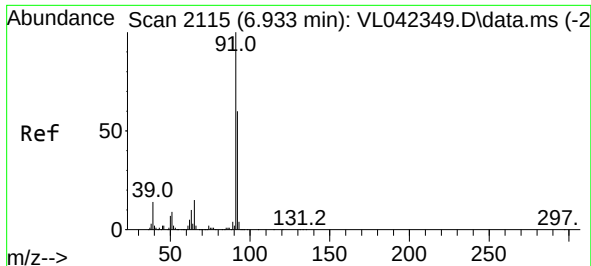


#52
Tetrachloroethene
Concen: 0.943 ppbv
RT: 8.228 min Scan# 2515
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48



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





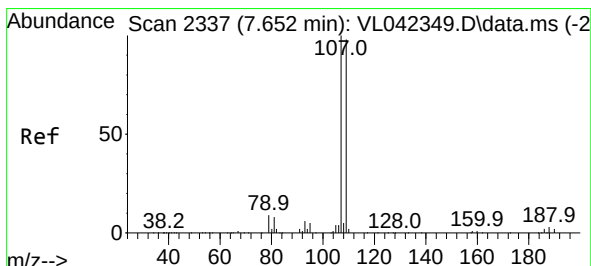
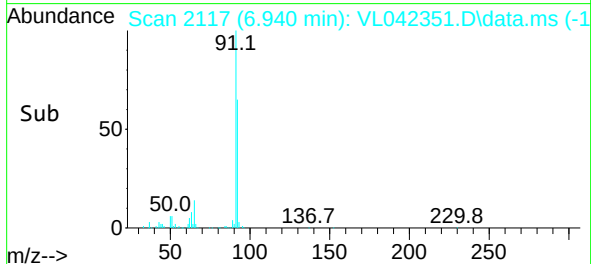
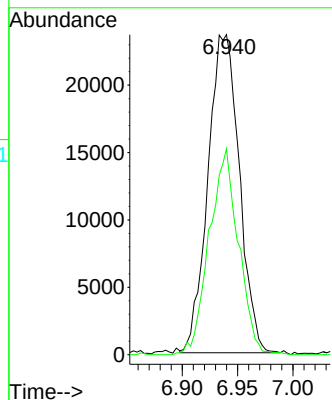
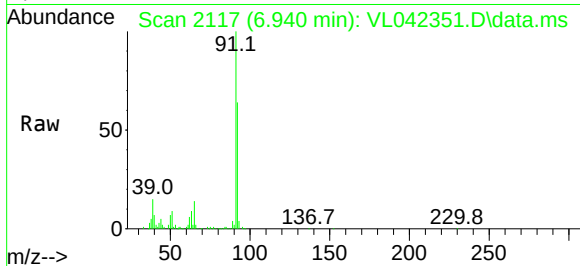
#53
Toluene
Concen: 1.001 ppbv
RT: 6.940 min Scan# 2115
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 91 Resp: 4661
Ion Ratio Lower Upper
91 100
92 60.4 48.2 72.4

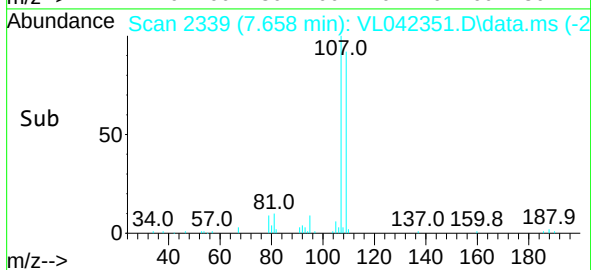
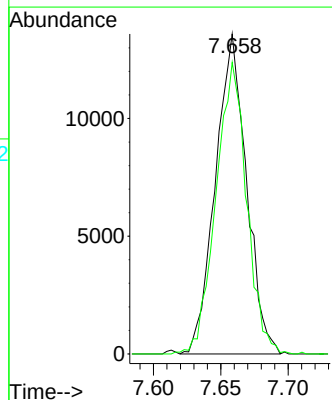
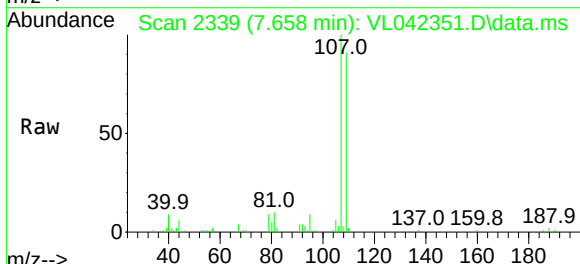
Manual Integrations
APPROVED

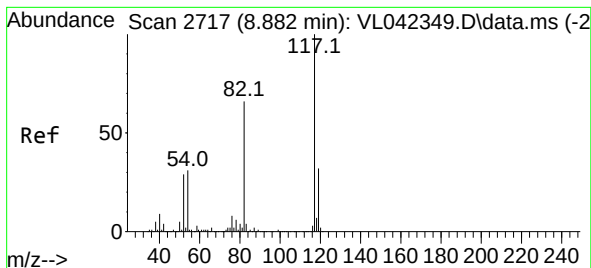
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

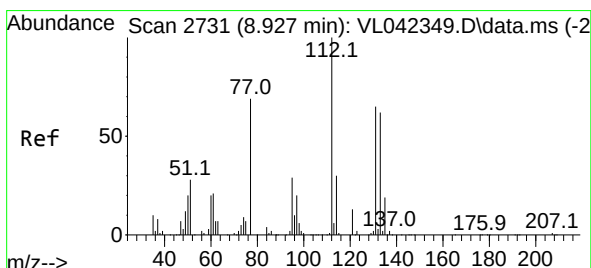
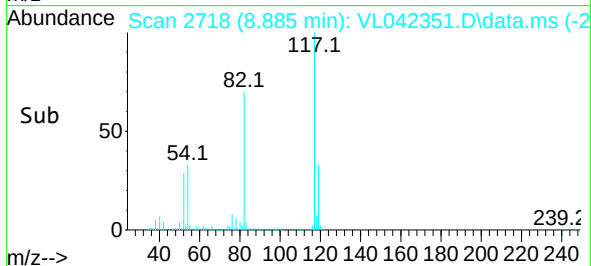
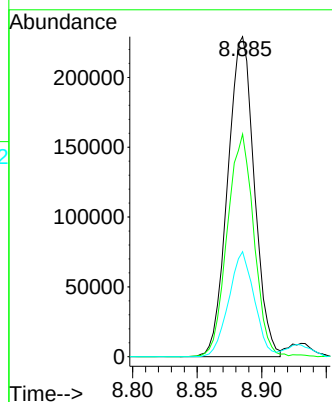
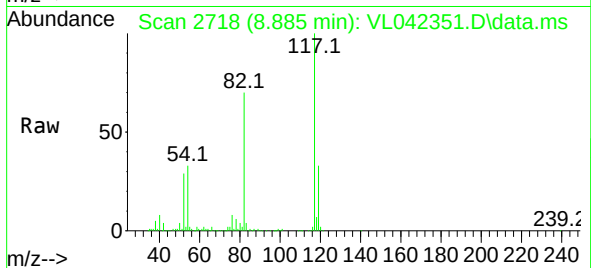
ClientSampleId :

VSTDICC001

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



#56

1,1,1,2-Tetrachloroethane

Concen: 1.057 ppbv

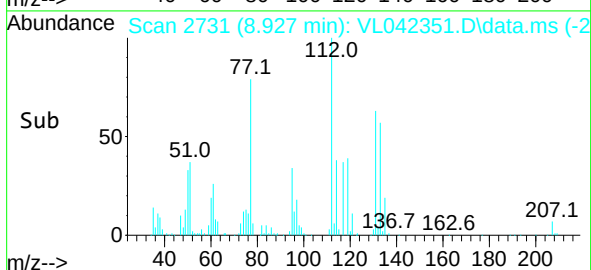
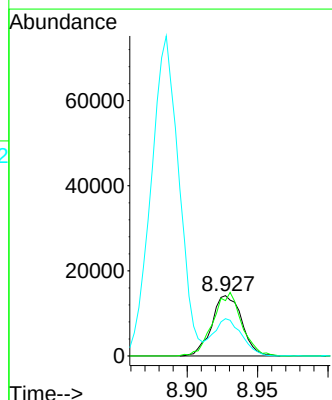
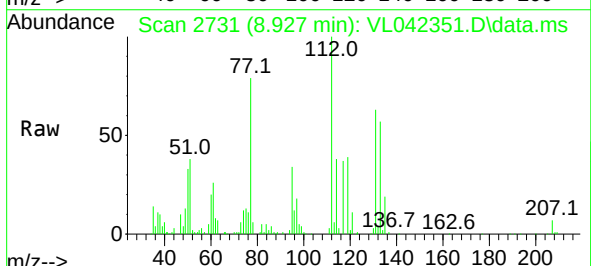
RT: 8.927 min Scan# 2731

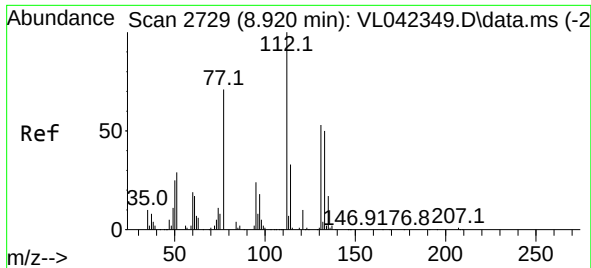
Delta R.T. 0.000 min

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





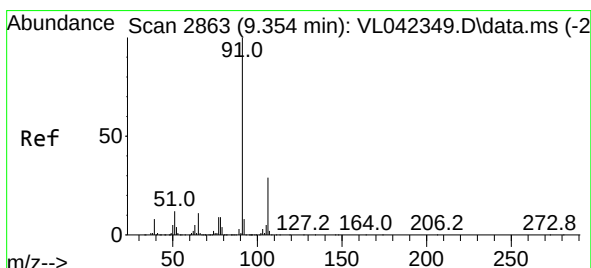
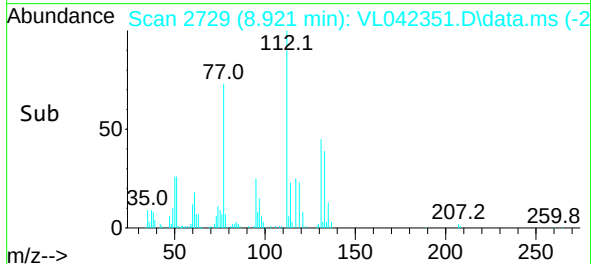
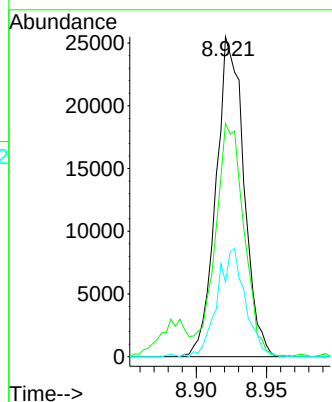
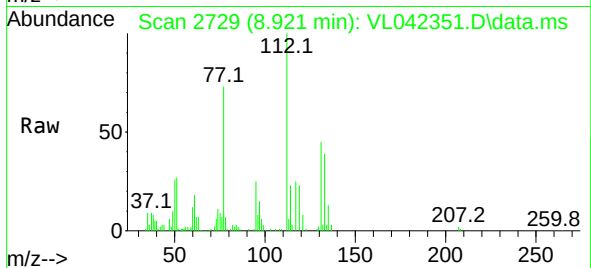
#57
Chlorobenzene
Concen: 1.026 ppbv
RT: 8.921 min Scan# 2729
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

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

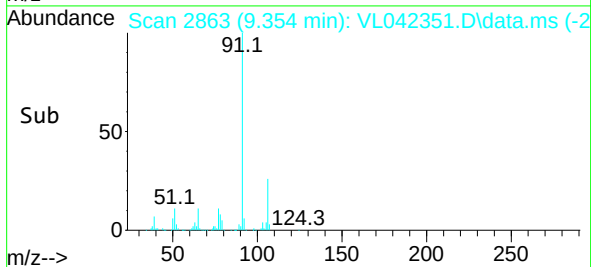
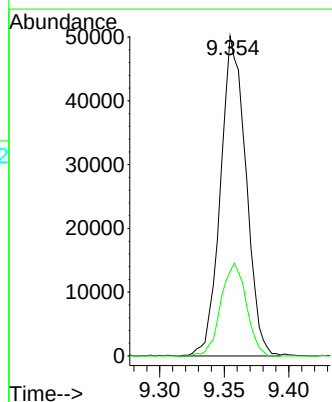
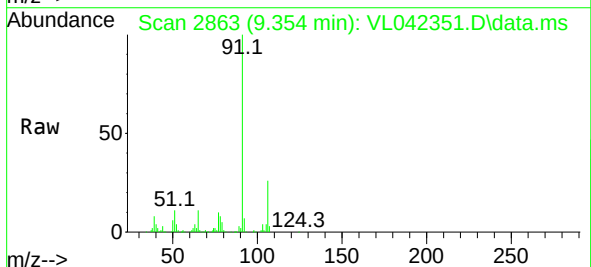
Manual Integrations
APPROVED

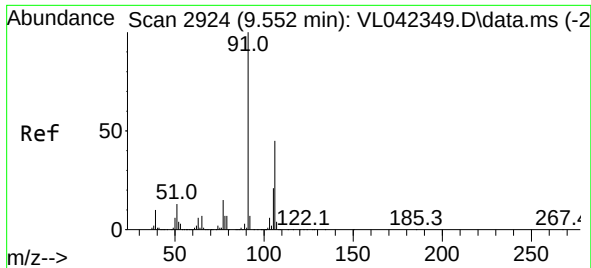
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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





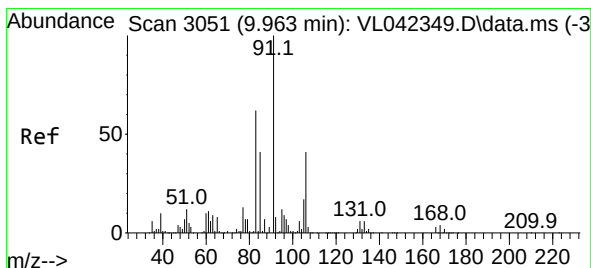
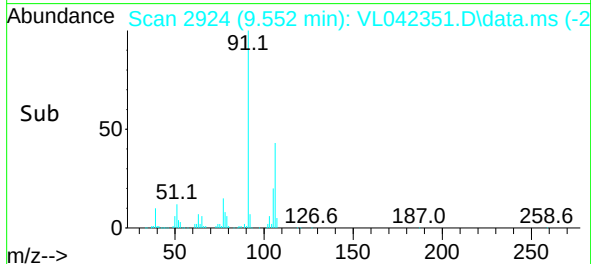
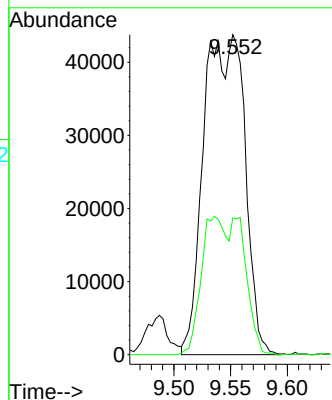
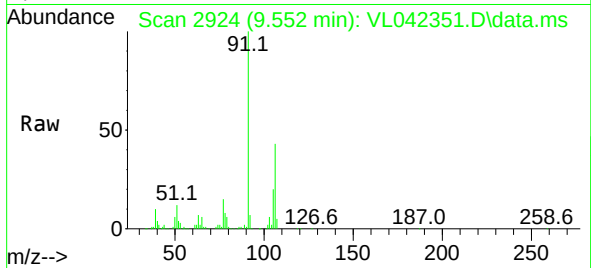
#59
m/p-Xylene
Concen: 2.101 ppbv m
RT: 9.552 min Scan# 2924
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 91 Resp: 11070
Ion Ratio Lower Upper
91 100
106 0.0 35.4 53.2

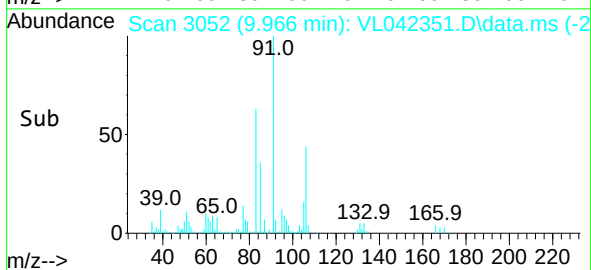
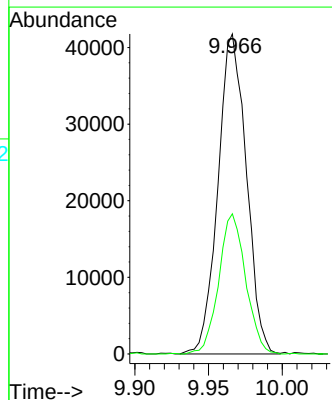
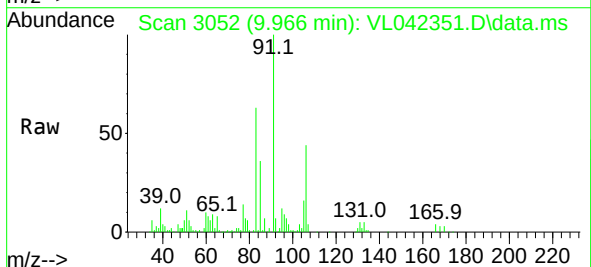
Manual Integrations
APPROVED

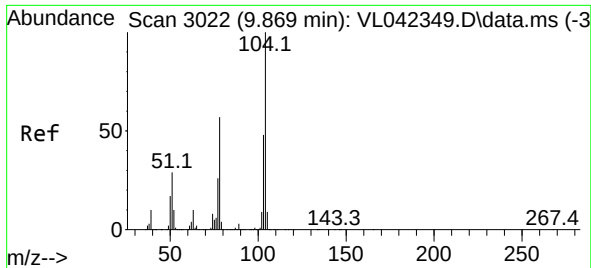
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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





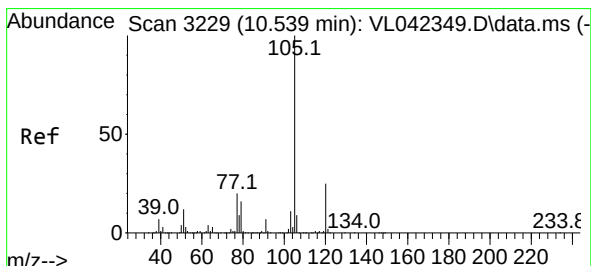
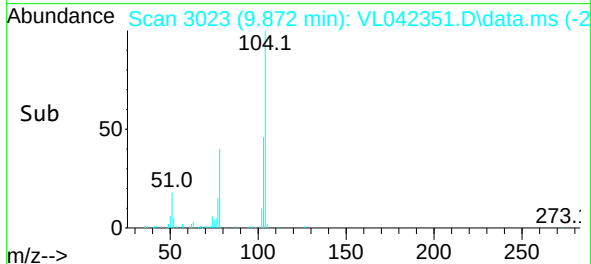
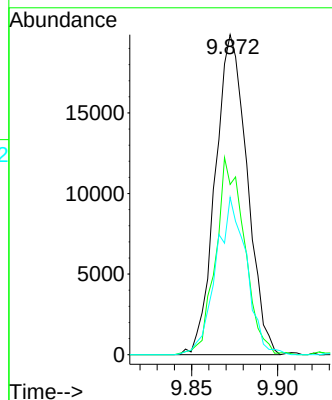
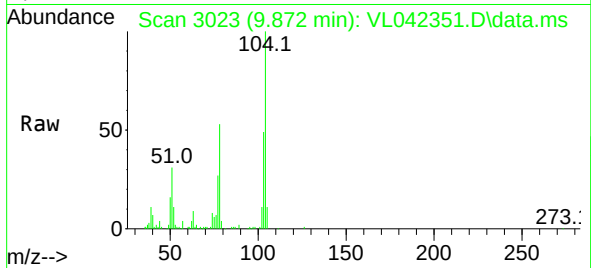
#61
Styrene
Concen: 1.012 ppbv
RT: 9.872 min Scan# 3022
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_1
ClientSampleId :
VSTDICC001

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

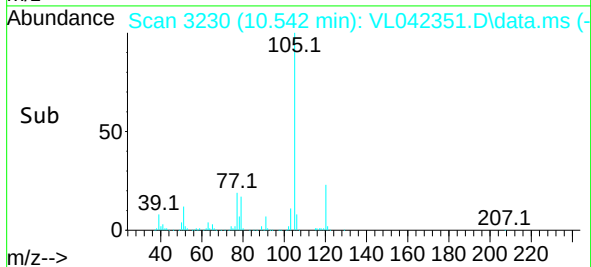
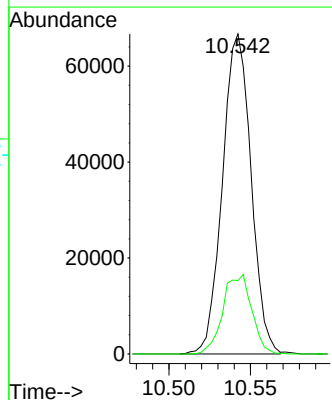
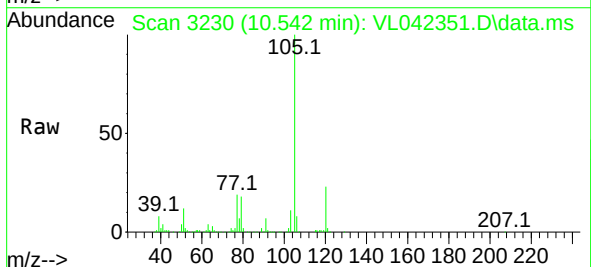
Manual Integrations
APPROVED

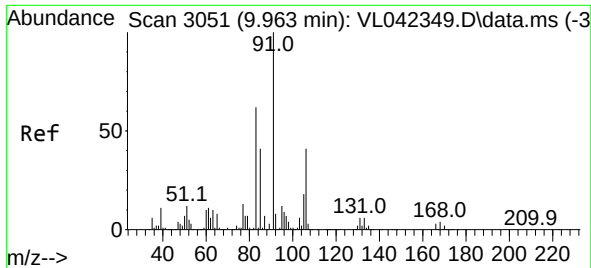
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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





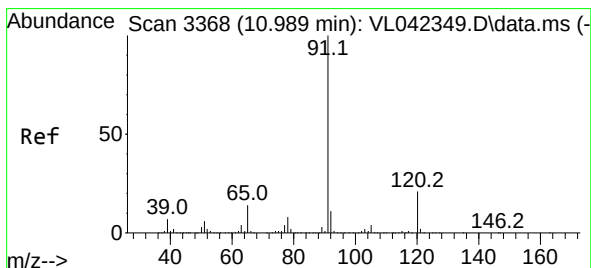
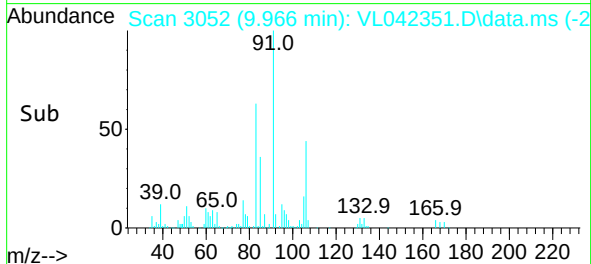
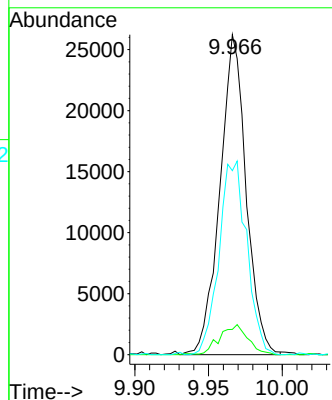
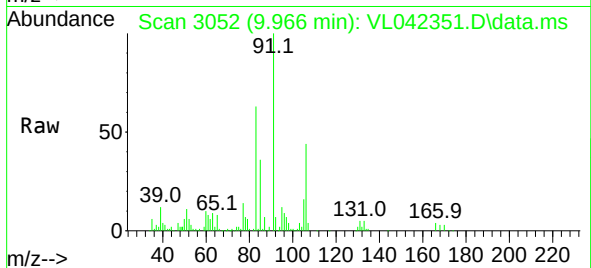
#63
1,1,2,2-Tetrachloroethane
Concen: 0.943 ppbv
RT: 9.966 min Scan# 3051
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 83 Resp: 32410
Ion Ratio Lower Upper
83 100
131 10.2 4.5 13.7
85 64.4 32.4 97.0

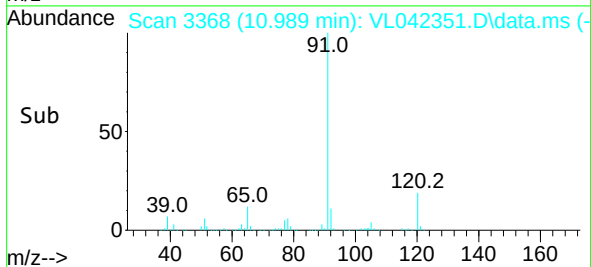
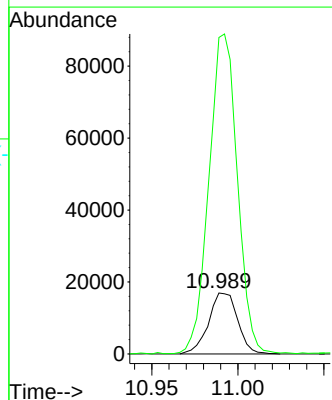
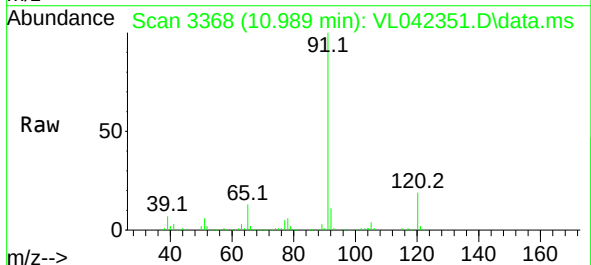
Manual Integrations
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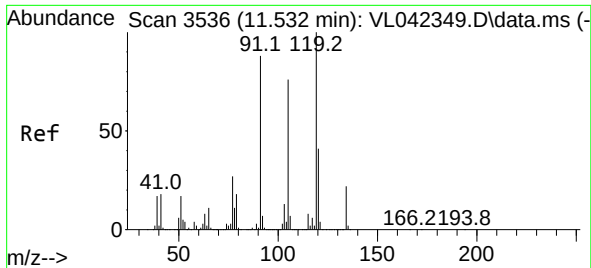
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#64
n-propylbenzene
Concen: 1.019 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

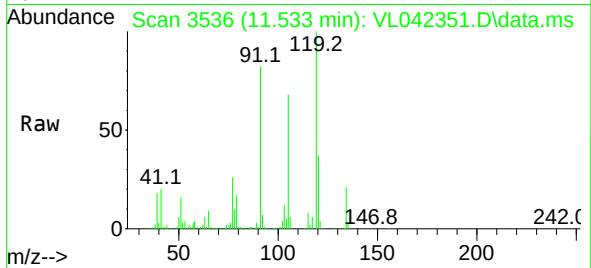
Tgt Ion:120 Resp: 19898
Ion Ratio Lower Upper
120 100
91 517.6 392.4 588.6





#65
tert-Butylbenzene
Concen: 1.087 ppbv
RT: 11.533 min Scan# 3536
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

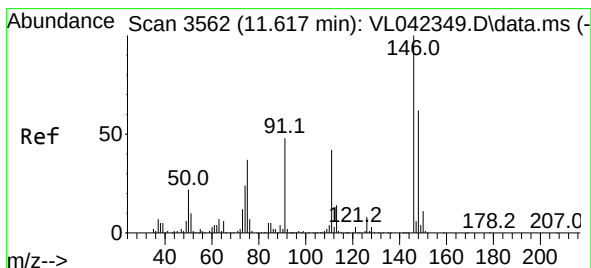
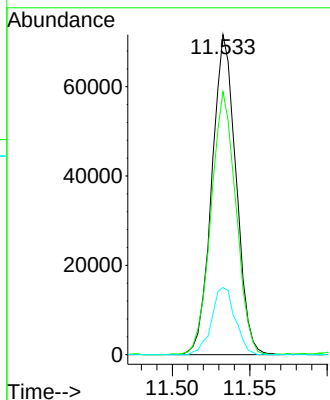
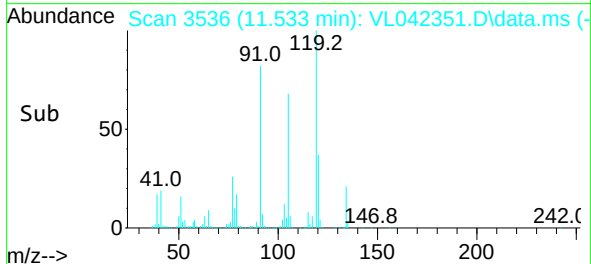
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



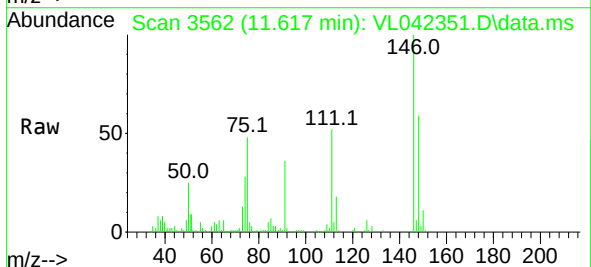
Tgt Ion: 119 Resp: 77598
Ion Ratio Lower Upper
119 100
91 85.0 74.6 111.8
134 20.5 18.8 28.2

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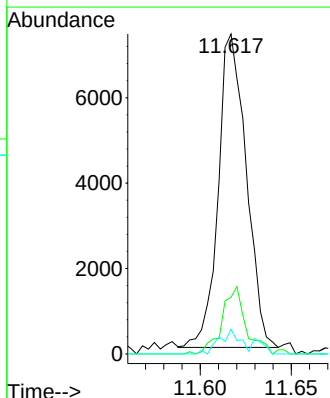
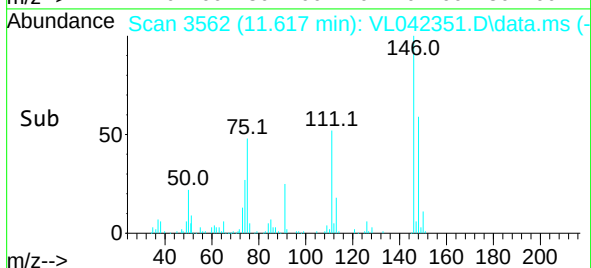
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

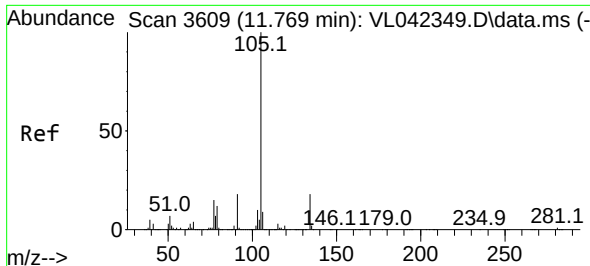


#66
Benzyl Chloride
Concen: 1.003 ppbv
RT: 11.617 min Scan# 3562
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48



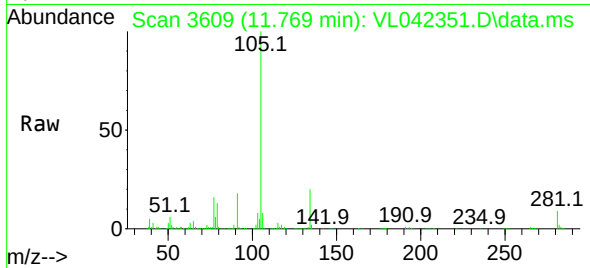
Tgt Ion: 91 Resp: 7864
Ion Ratio Lower Upper
91 100
126 18.6 11.8 17.6#
128 7.7 4.5 6.7#





#67
 sec-Butylbenzene
 Concen: 1.067 ppbv
 RT: 11.769 min Scan# 3609
 Delta R.T. 0.000 min
 Lab File: VL042351.D
 Acq: 17 Apr 2025 10:48

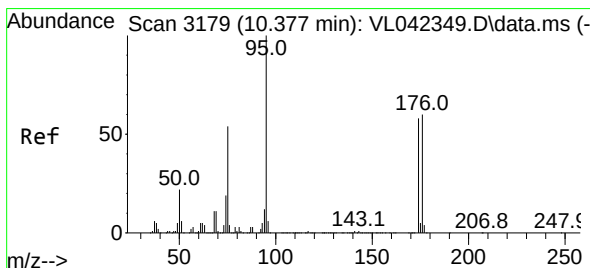
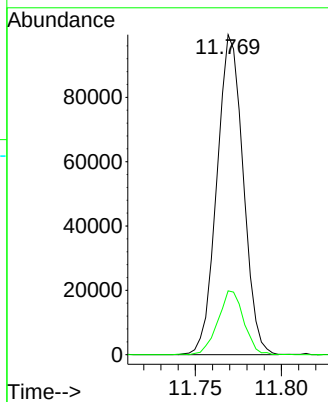
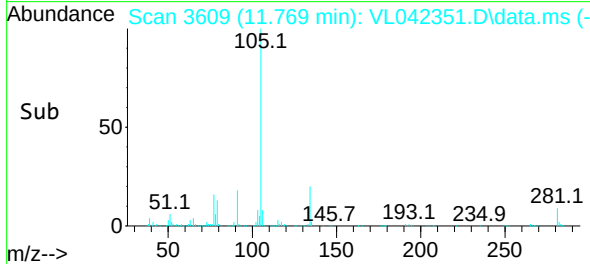
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001



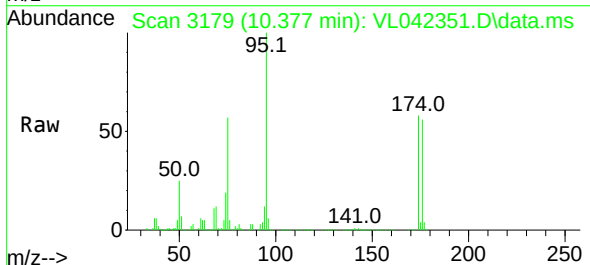
Tgt Ion:105 Resp: 105919
 Ion Ratio Lower Upper
 105 100
 134 19.6 14.6 21.8

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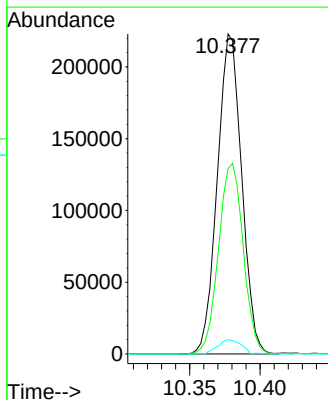
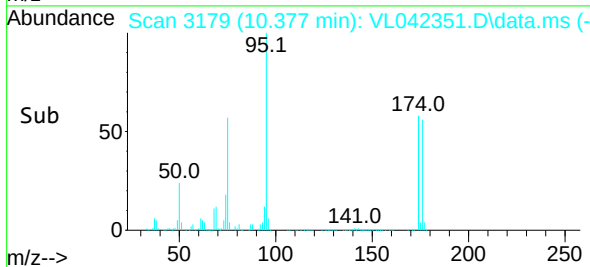
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

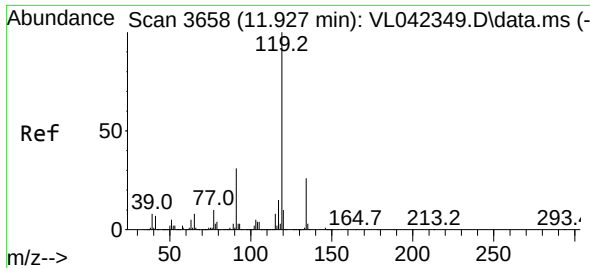


#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.950 ppbv
 RT: 10.377 min Scan# 3179
 Delta R.T. 0.000 min
 Lab File: VL042351.D
 Acq: 17 Apr 2025 10:48



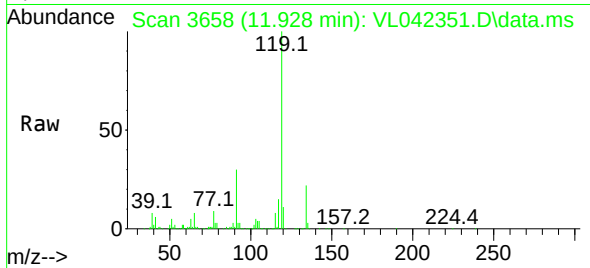
Tgt Ion: 95 Resp: 269087
 Ion Ratio Lower Upper
 95 100
 174 60.4 48.5 72.7
 175 4.3 3.7 5.5





#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

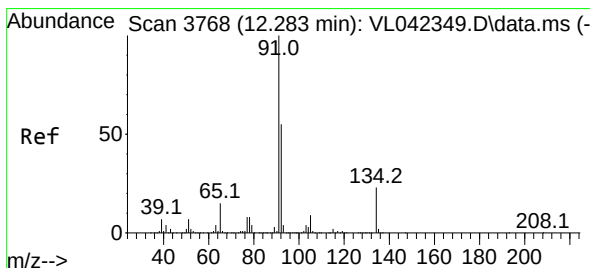
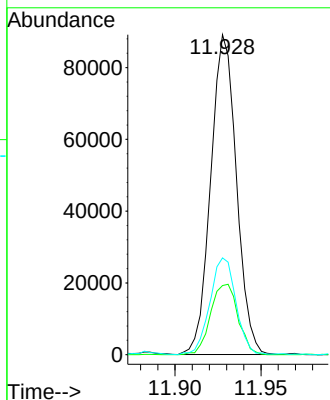
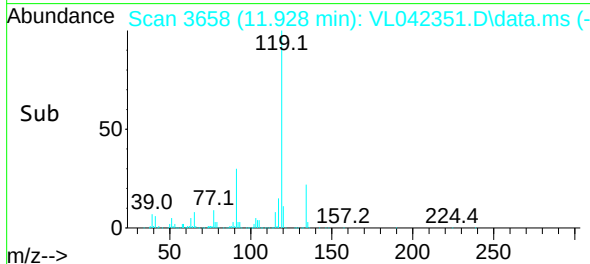
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



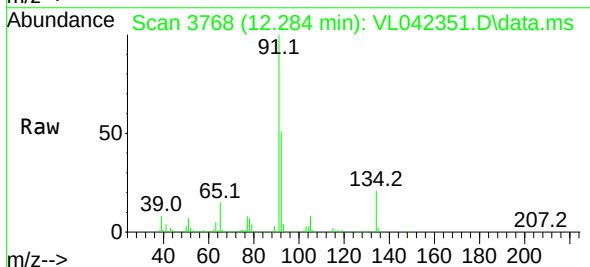
Tgt Ion: 119 Resp: 9273
Ion Ratio Lower Upper
119 100
134 23.5 20.0 30.0
91 32.1 24.4 36.6

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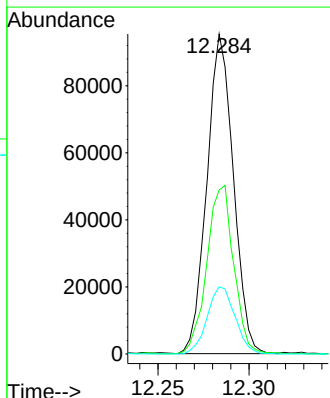
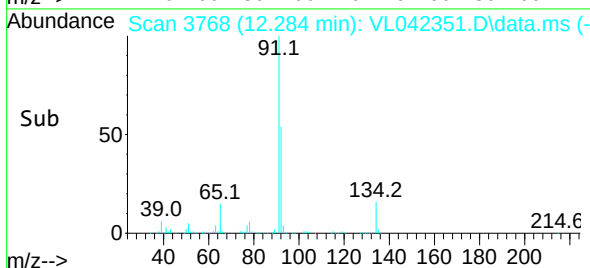
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

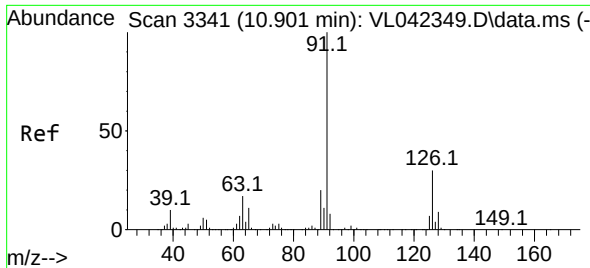


#70
n-Butylbenzene
Concen: 1.072 ppbv
RT: 12.284 min Scan# 3768
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48



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





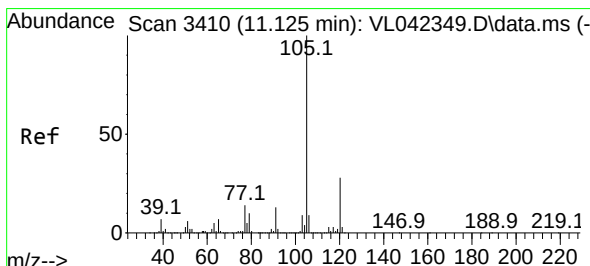
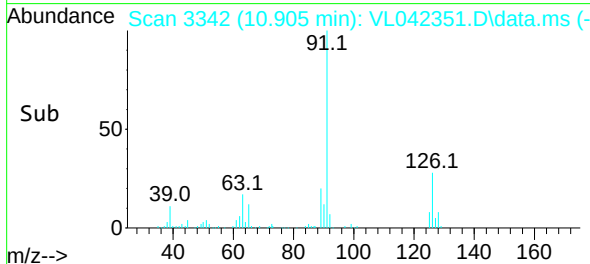
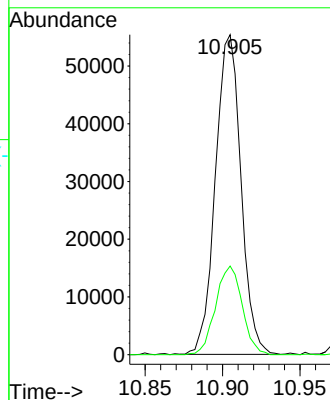
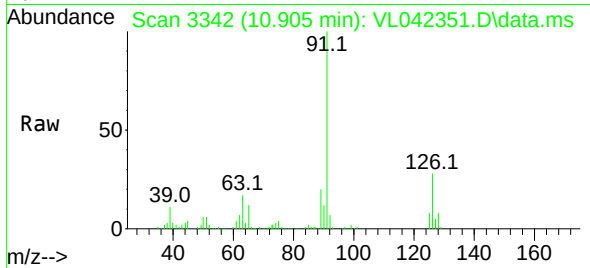
#71
2-Chlorotoluene
Concen: 1.040 ppbv
RT: 10.905 min Scan# 3111
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 91 Resp: 6332
Ion Ratio Lower Upper
91 100
126 28.9 11.4 45.4

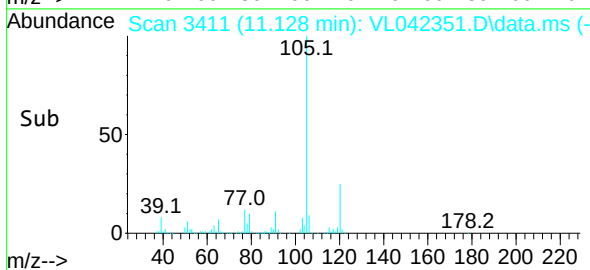
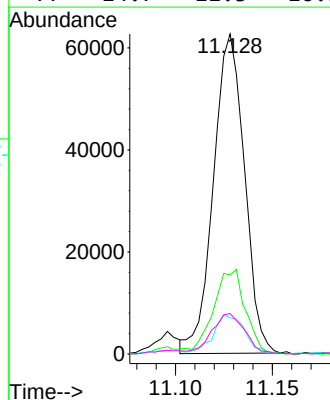
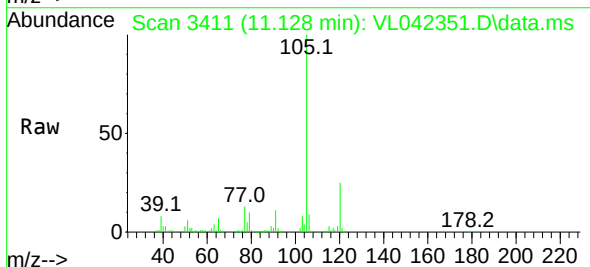
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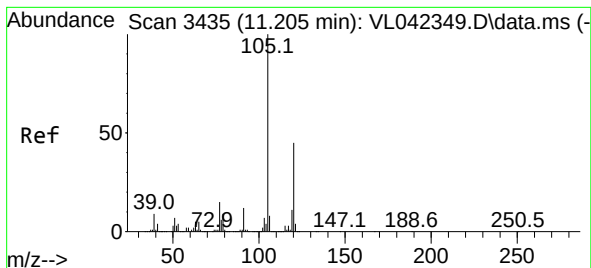
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

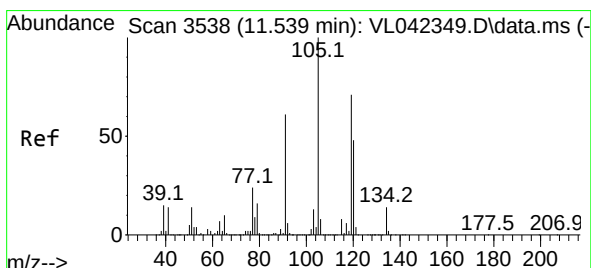
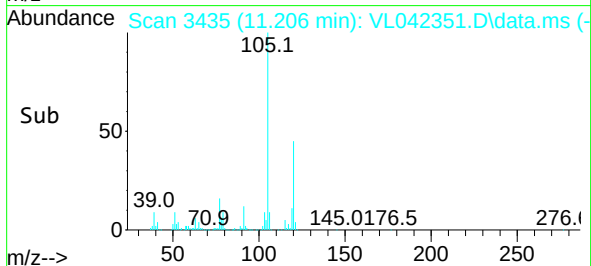
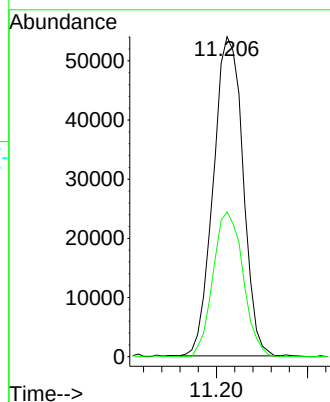
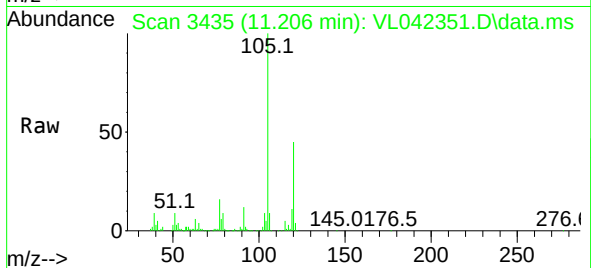
ClientSampleId :

VSTDIC001

Tgt Ion:105 Resp: 6092
Ion Ratio Lower Upper
105 100
120 45.3 35.6 53.4

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



#74

1,2,4-Trimethylbenzene

Concen: 1.108 ppbv

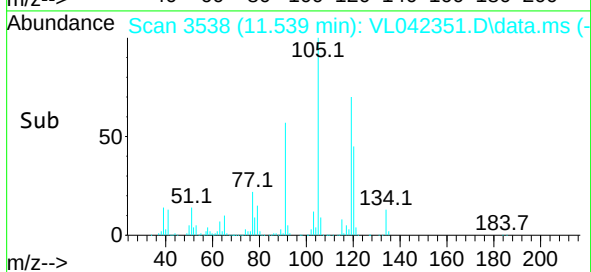
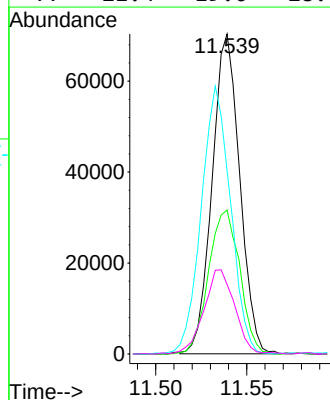
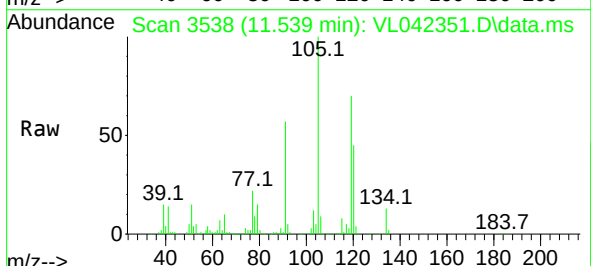
RT: 11.539 min Scan# 3538

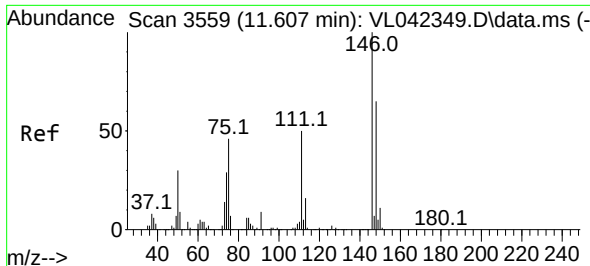
Delta R.T. 0.000 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

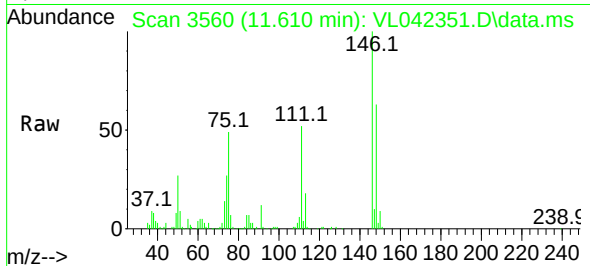
Tgt Ion:105 Resp: 73888
Ion Ratio Lower Upper
105 100
120 45.0 38.1 57.1
91 57.0 48.8 73.2
77 21.4 19.0 28.4





#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

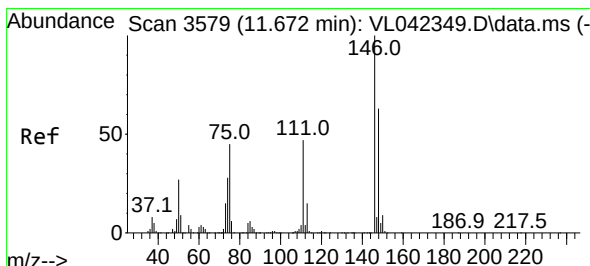
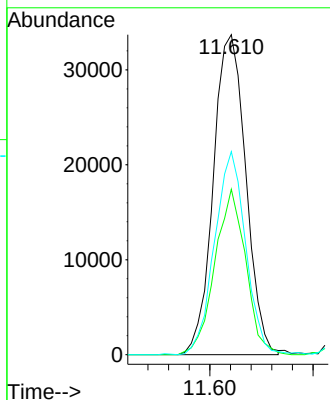
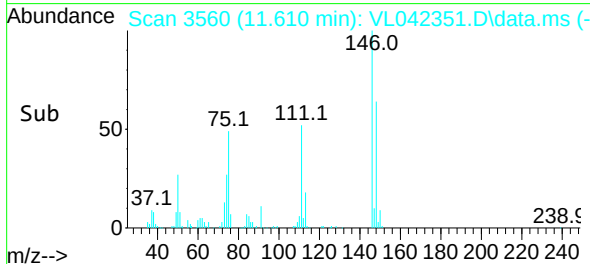
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



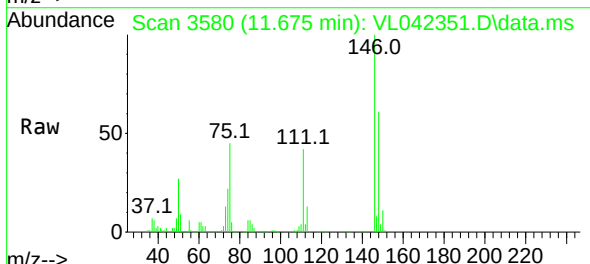
Tgt Ion:146 Resp: 3687
Ion Ratio Lower Upper
146 100
111 48.9 24.3 72.8
148 60.8 31.6 94.8

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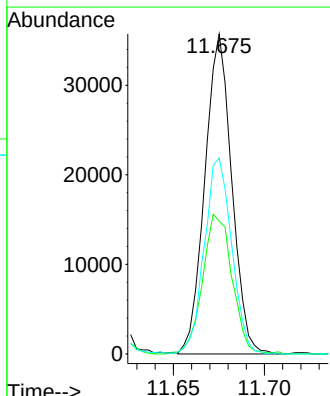
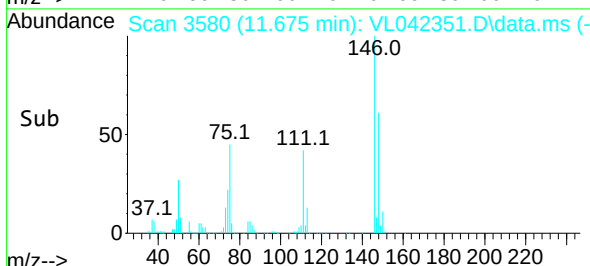
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

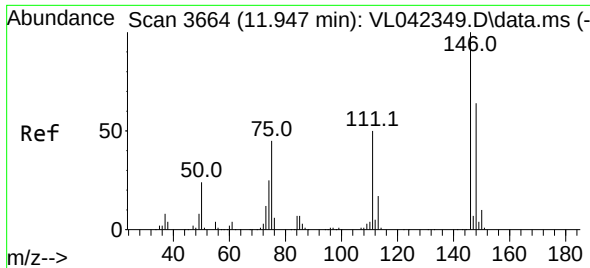


#76
1,4-Dichlorobenzene
Concen: 1.053 ppbv
RT: 11.675 min Scan# 3580
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48



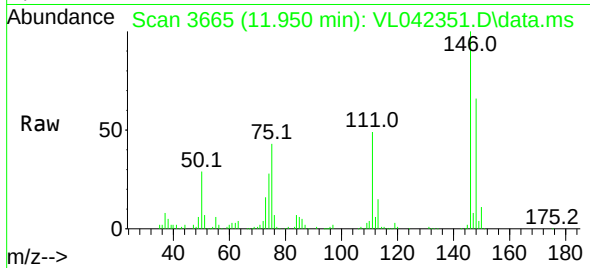
Tgt Ion:146 Resp: 36692
Ion Ratio Lower Upper
146 100
111 47.7 24.2 72.6
148 62.3 32.1 96.5





#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

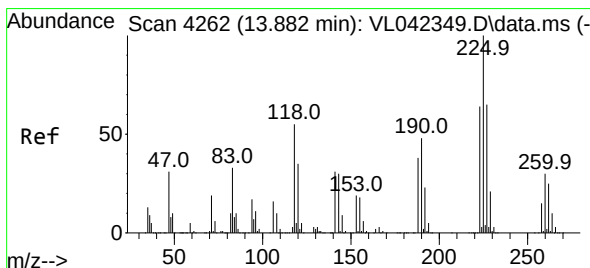
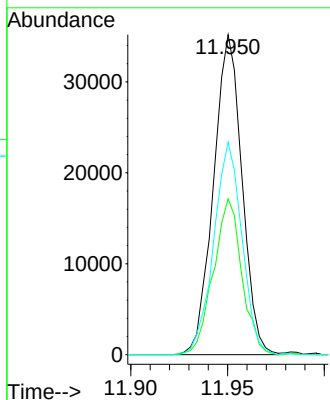
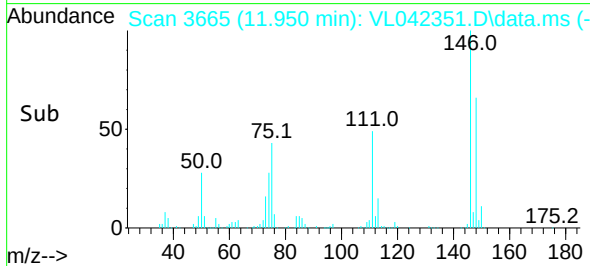
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



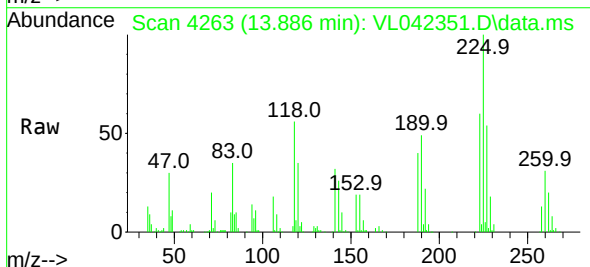
Tgt Ion:146 Resp: 3597
Ion Ratio Lower Upper
146 100
111 48.7 25.3 75.9
148 65.9 31.5 94.5

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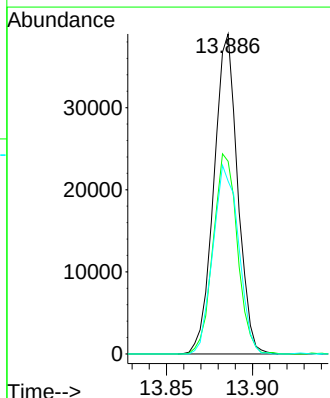
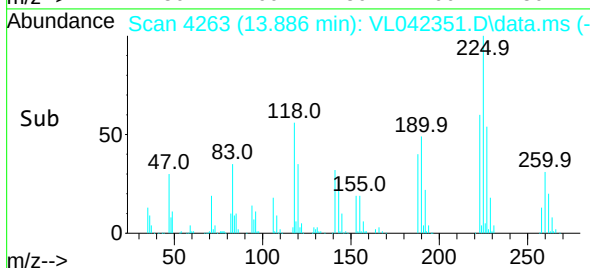
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

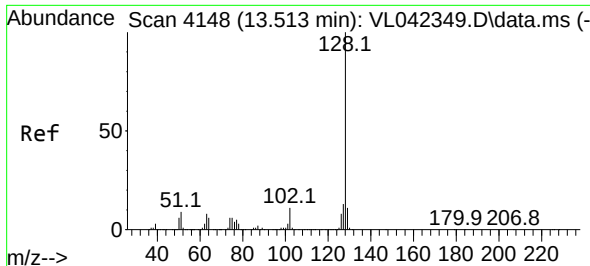


#78
Hexachloro-1,3-Butadiene
Concen: 1.098 ppbv
RT: 13.886 min Scan# 4263
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48



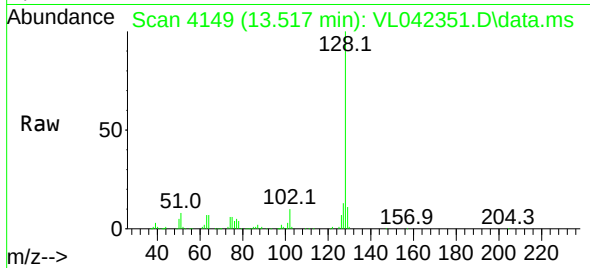
Tgt Ion:225 Resp: 37377
Ion Ratio Lower Upper
225 100
223 64.1 50.3 75.5
227 63.6 51.5 77.3





#79
Naphthalene
Concen: 1.138 ppbv
RT: 13.517 min Scan# 4149
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

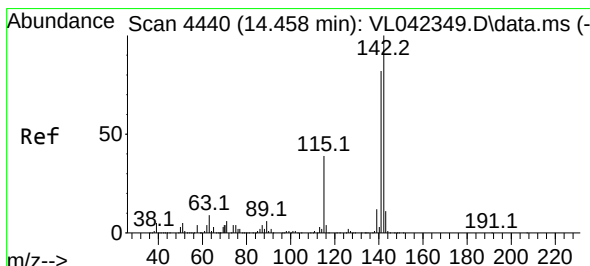
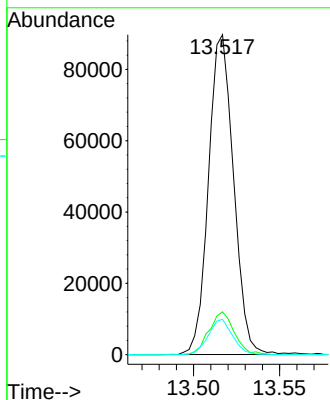
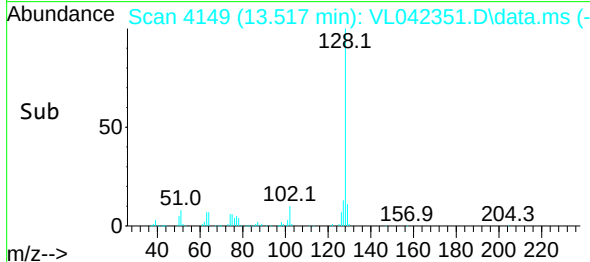
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



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

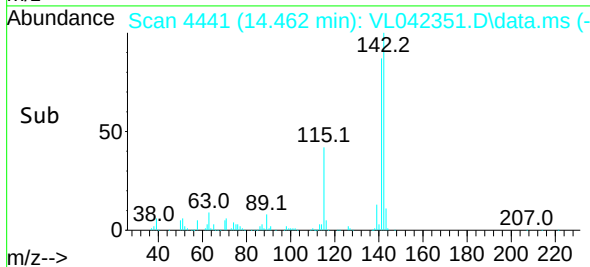
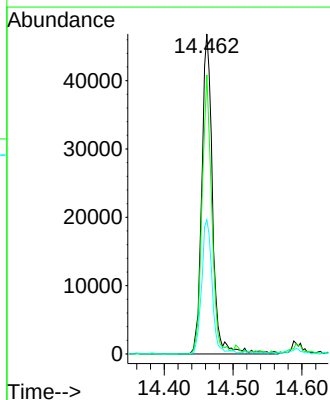
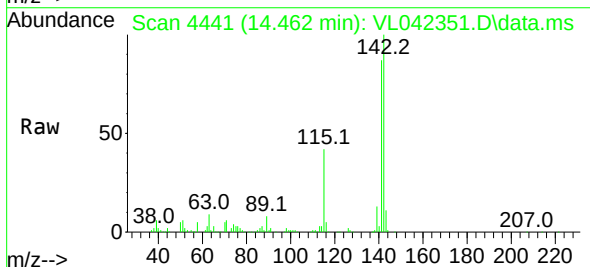
Manual Integrations
APPROVED

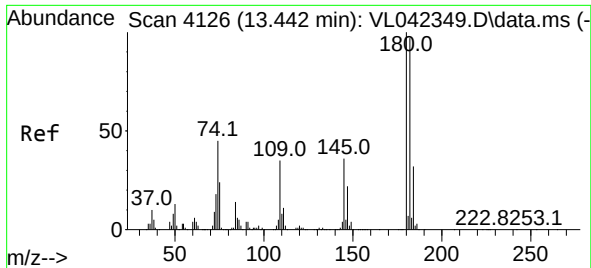
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

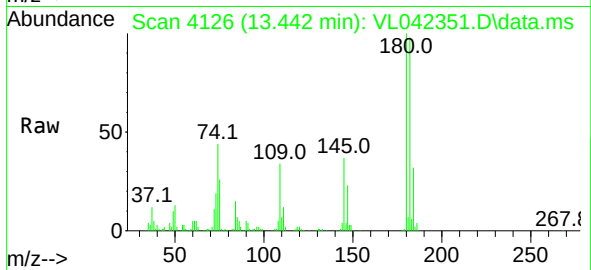
Tgt Ion:142 Resp: 50487
Ion Ratio Lower Upper
142 100
141 80.9 66.8 100.2
115 41.2 33.4 50.2





#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

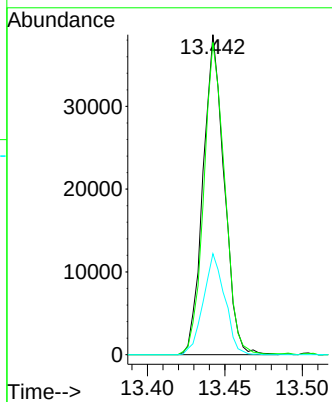
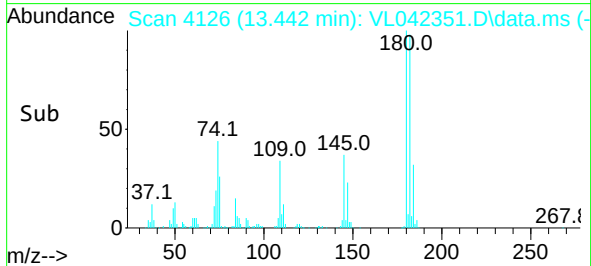
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001



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 : 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 2

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	2.784	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 : VSTDIC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

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 2

QLast Update : Fri Apr 18 01:24:29 2025

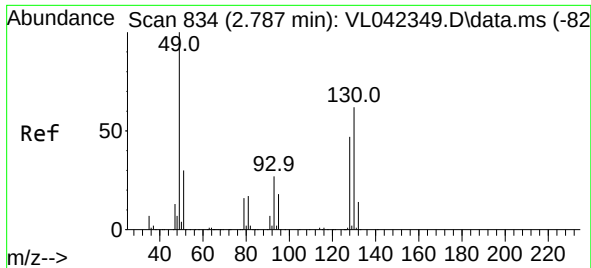
Response via : Initial Calibration

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)
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



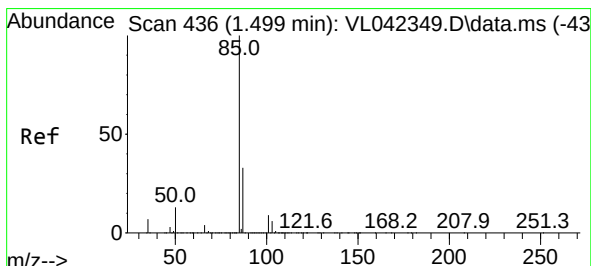
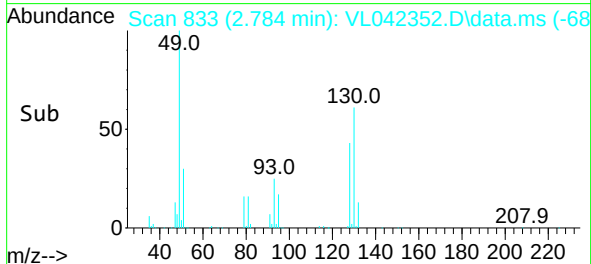
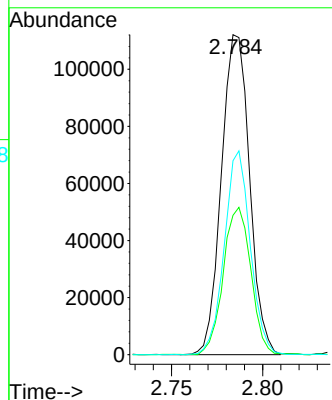
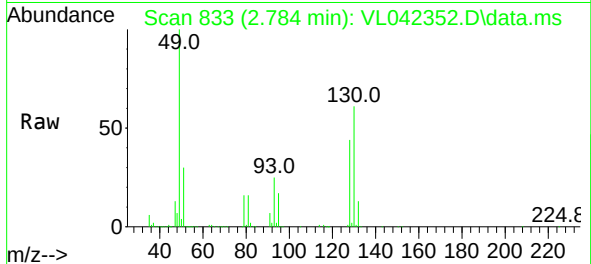
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 49 Resp: 12054
Ion Ratio Lower Upper
49 100
128 45.3 22.8 68.4
130 59.0 29.3 88.0

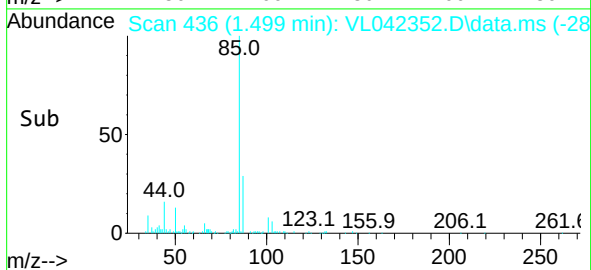
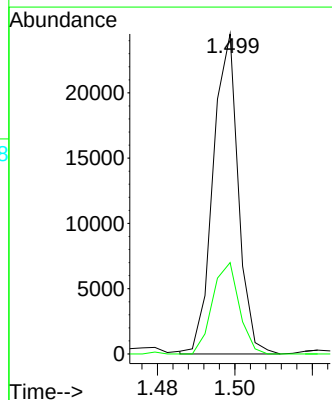
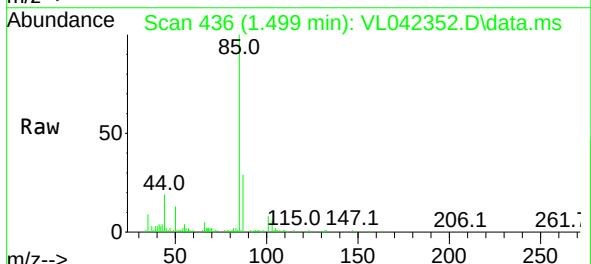
Manual Integrations
APPROVED

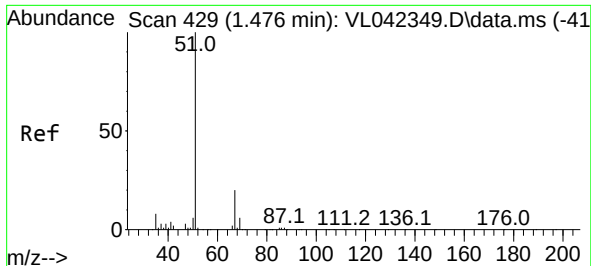
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

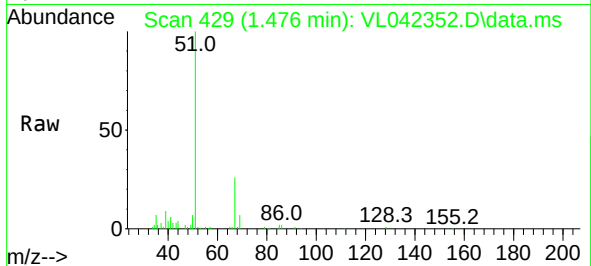
Tgt Ion: 85 Resp: 11036
Ion Ratio Lower Upper
85 100
87 28.6 26.6 39.8





#3
Chlorodifluoromethane
Concen: 0.557 ppbv
RT: 1.476 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

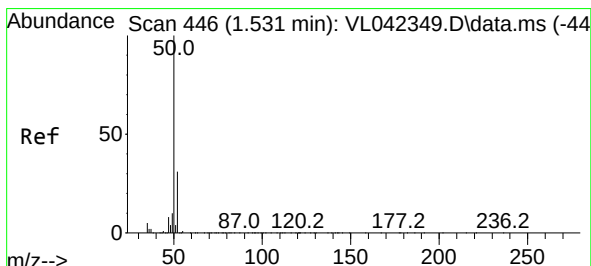
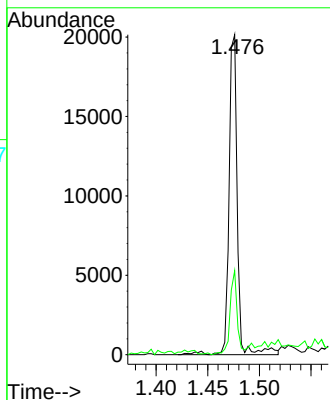
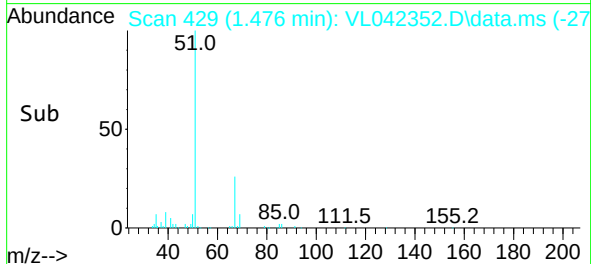
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



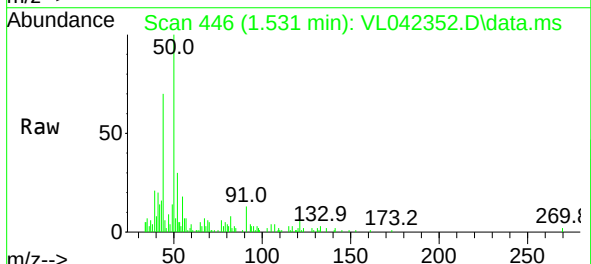
Tgt Ion: 51 Resp: 11304
Ion Ratio Lower Upper
51 100
67 27.8 16.2 24.4

Manual Integrations
APPROVED

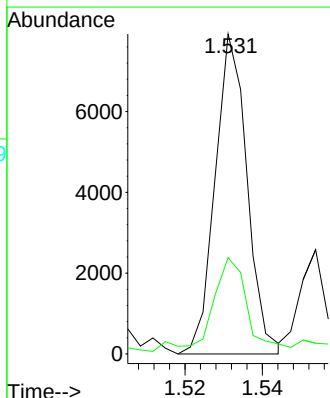
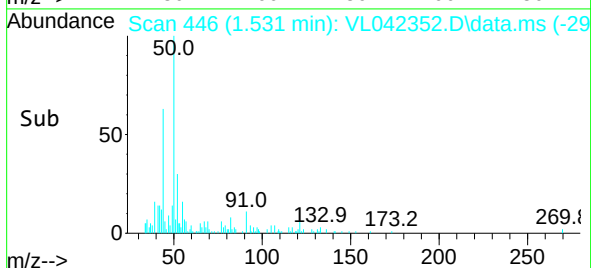
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

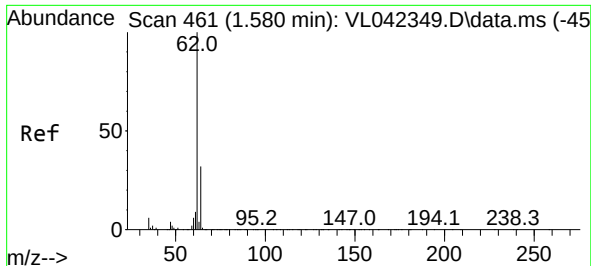


#4
Chloromethane
Concen: 0.538 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19



Tgt Ion: 50 Resp: 4534
Ion Ratio Lower Upper
50 100
52 32.8 24.7 37.1





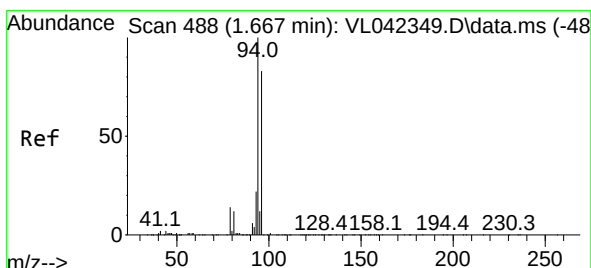
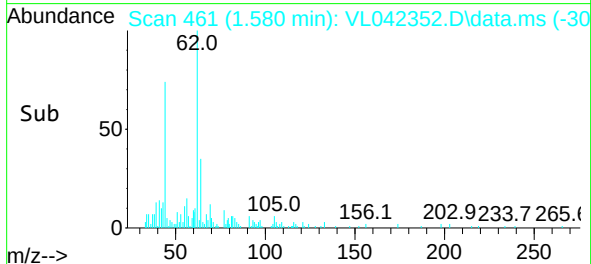
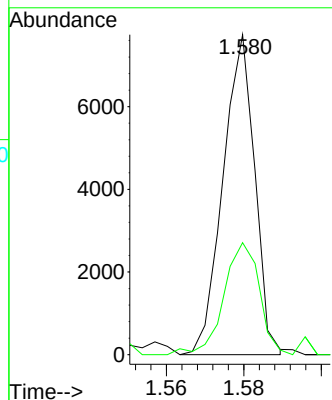
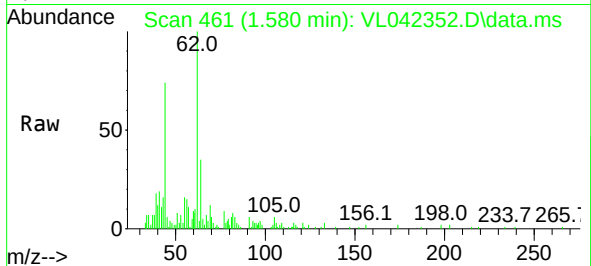
#5
 Vinyl Chloride
 Concen: 0.480 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. -0.000 min
 Lab File: VL042352.D
 Acq: 17 Apr 2025 11:19

Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.5

Tgt Ion: 62 Resp: 4400
 Ion Ratio Lower Upper
 62 100
 64 33.5 25.4 38.0

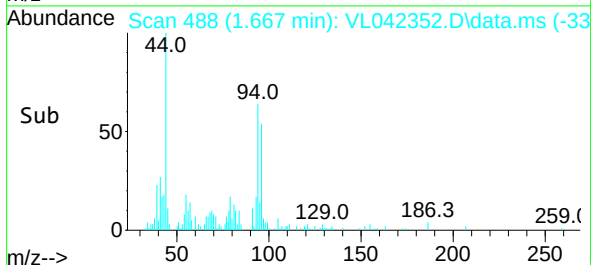
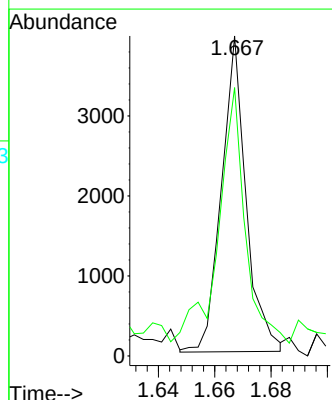
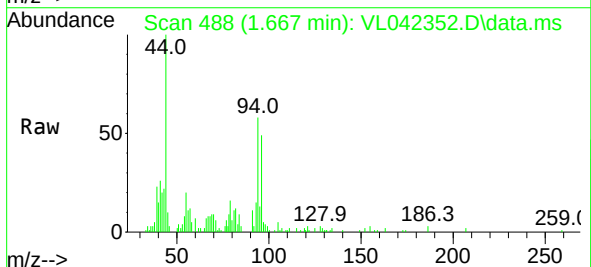
Manual Integrations
 APPROVED

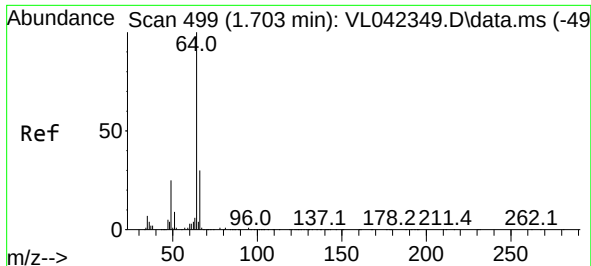
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



#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

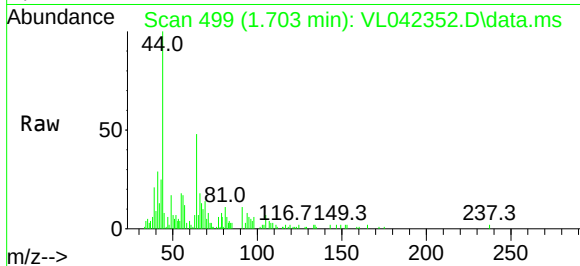
Tgt Ion: 94 Resp: 2394
 Ion Ratio Lower Upper
 94 100
 96 78.1 66.2 99.2





#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

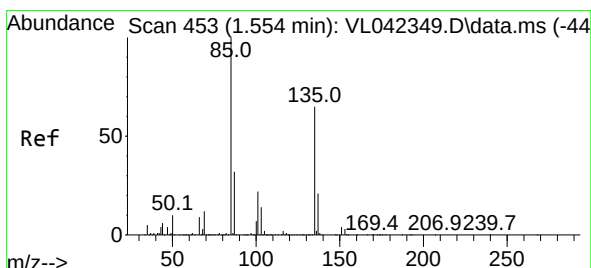
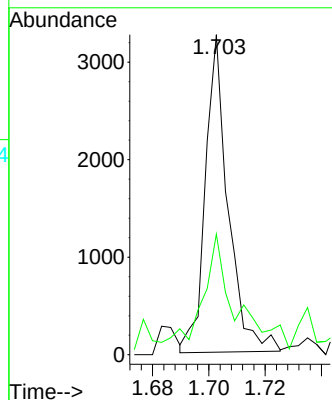
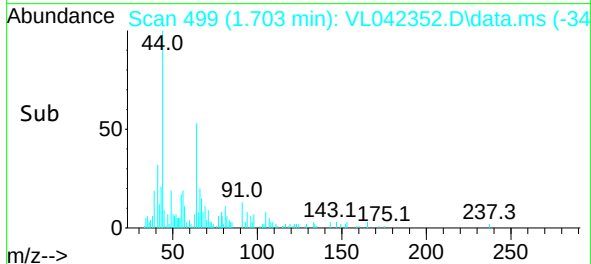
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



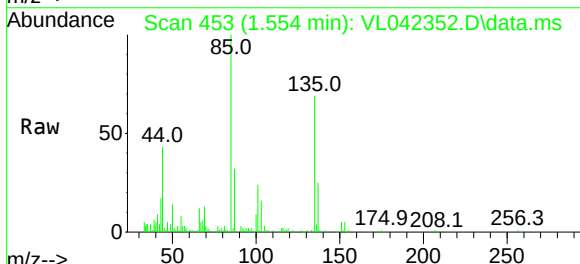
Tgt Ion: 64 Resp: 1824
Ion Ratio Lower Upper
64 100
66 37.7 24.6 37.0

Manual Integrations
APPROVED

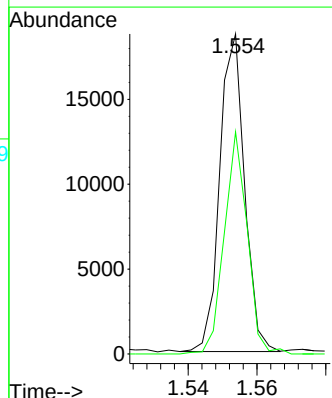
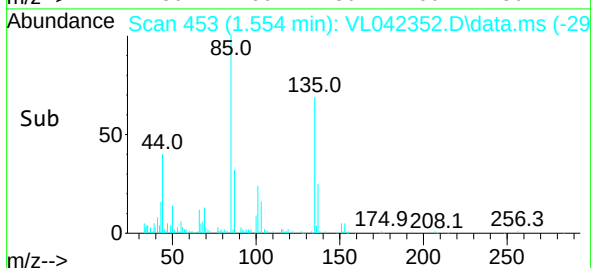
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

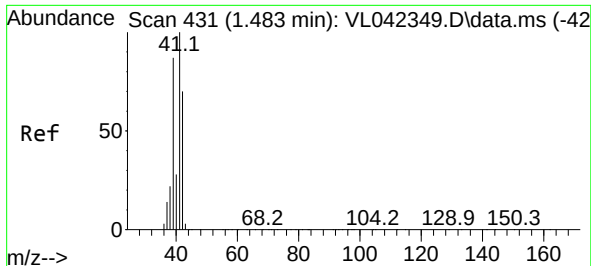


#8
Dichlorotetrafluoroethane
Concen: 0.513 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19



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 :

VSTDIC0.5

Tgt Ion: 41 Resp: 530

Ion Ratio Lower Upper

41 100

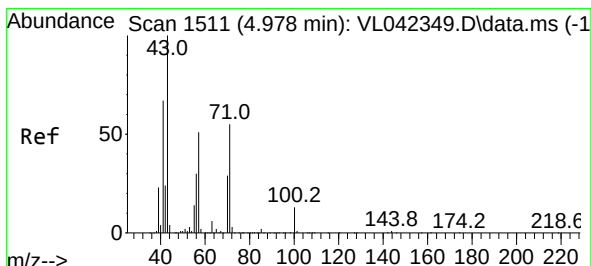
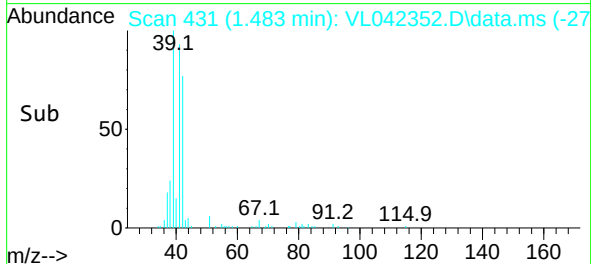
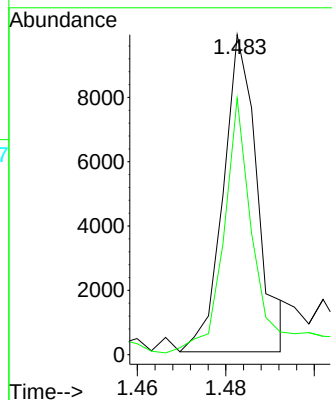
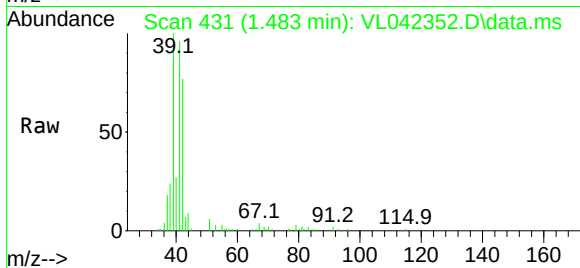
42 64.8 56.2 84.4

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

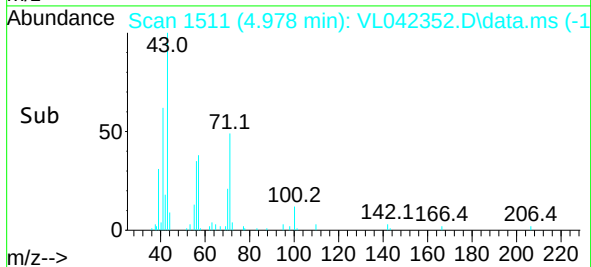
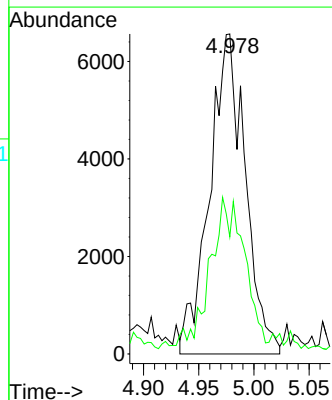
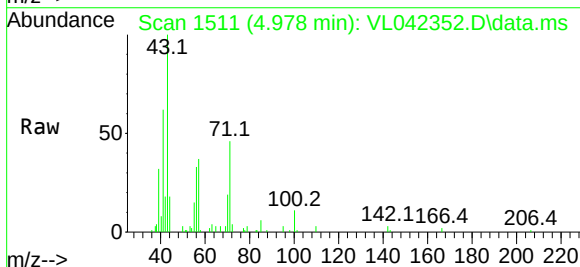
Acq: 17 Apr 2025 11:19

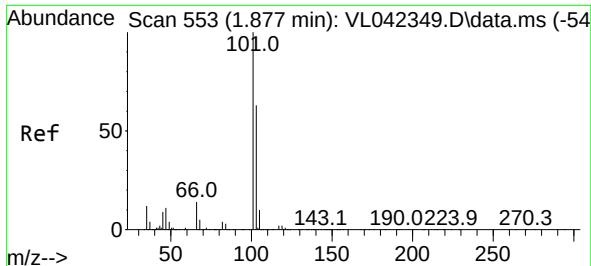
Tgt Ion: 43 Resp: 14728

Ion Ratio Lower Upper

43 100

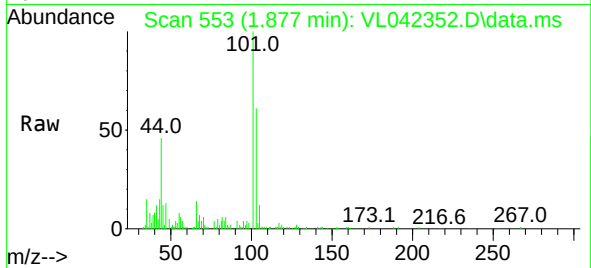
57 51.1 39.9 59.9





#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

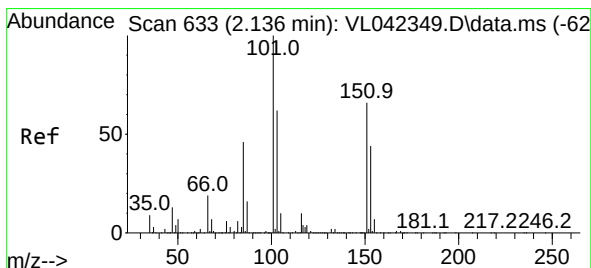
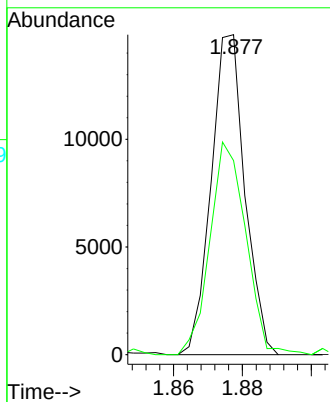
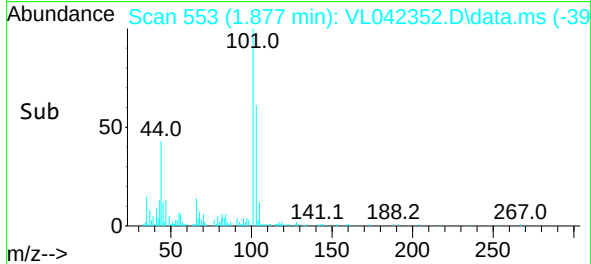
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



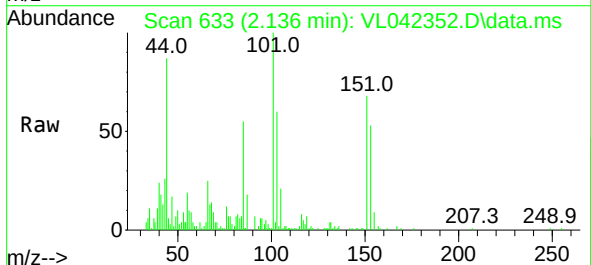
Tgt Ion:101 Resp: 10150
Ion Ratio Lower Upper
101 100
103 60.6 50.1 75.1

Manual Integrations
APPROVED

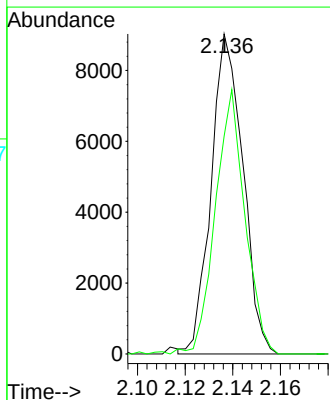
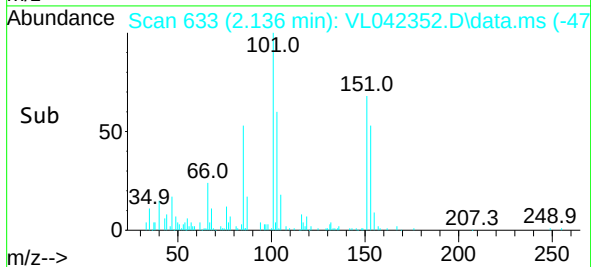
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

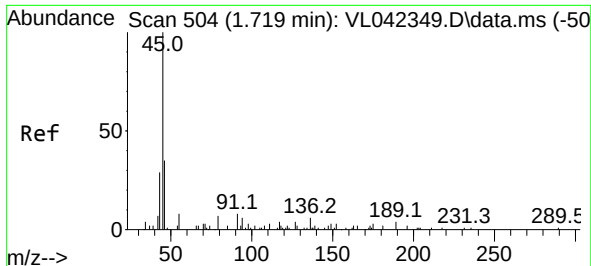


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.506 ppbv
RT: 2.136 min Scan# 633
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19



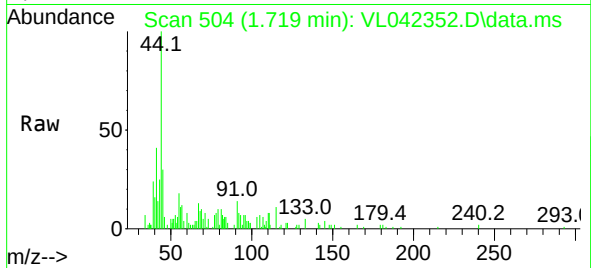
Tgt Ion:101 Resp: 8371
Ion Ratio Lower Upper
101 100
151 77.4 57.0 85.6





#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

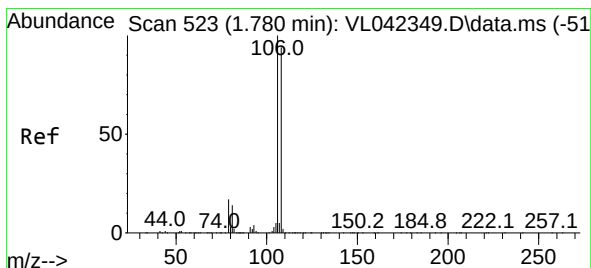
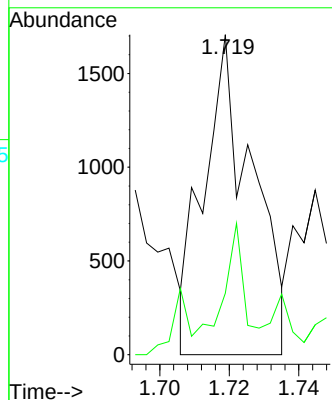
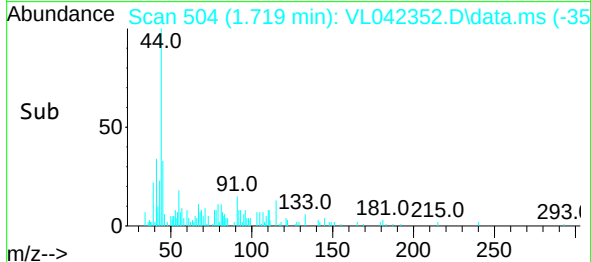
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



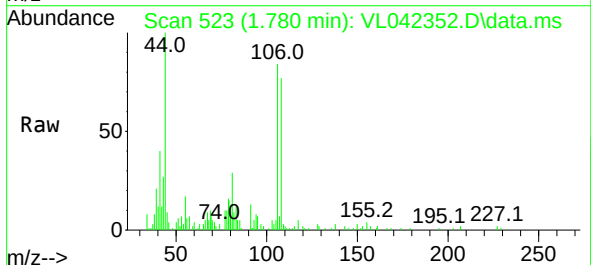
Tgt Ion: 45 Resp: 1650
Ion Ratio Lower Upper
45 100
46 0.0 21.9 87.7

Manual Integrations
APPROVED

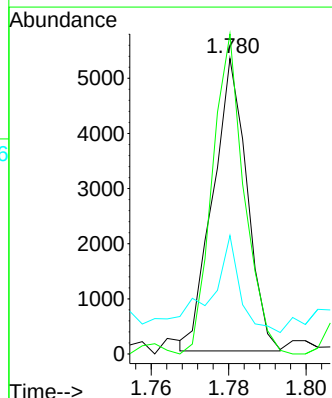
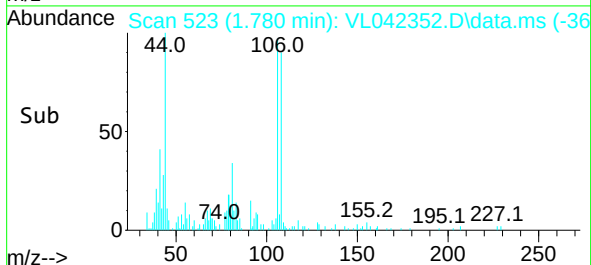
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

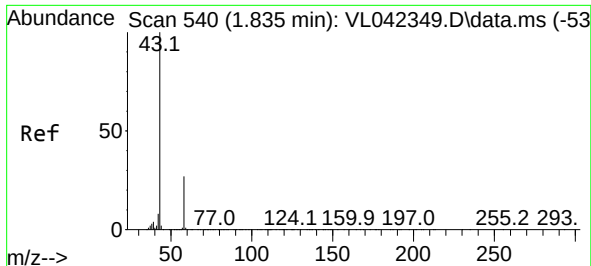


#14
Bromoethene
Concen: 0.519 ppbv
RT: 1.780 min Scan# 523
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19



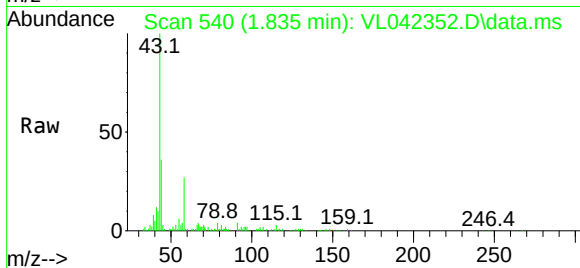
Tgt Ion:108 Resp: 3238
Ion Ratio Lower Upper
108 100
106 110.3 85.9 128.9
79 33.0 13.9 20.9





#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

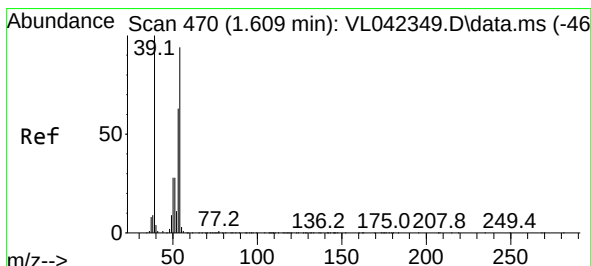
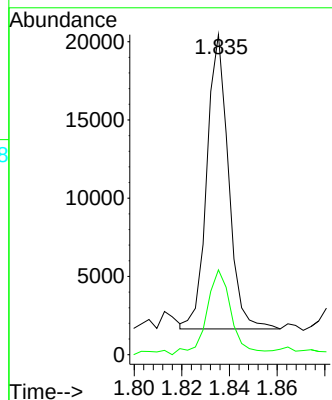
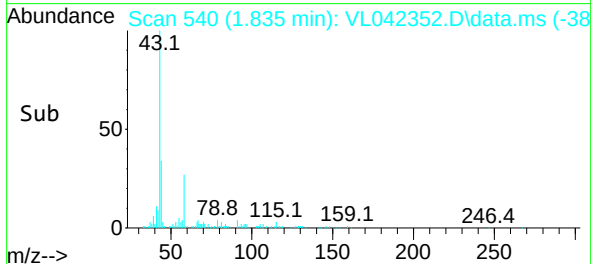
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



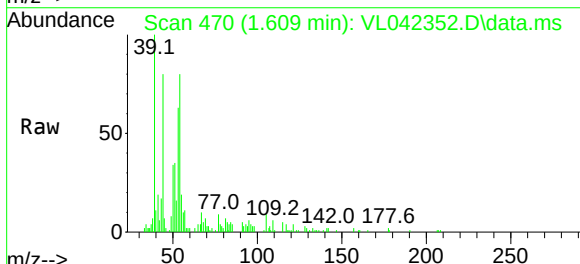
Tgt Ion: 43 Resp: 11859
Ion Ratio Lower Upper
43 100
58 41.7 22.4 33.6

Manual Integrations
APPROVED

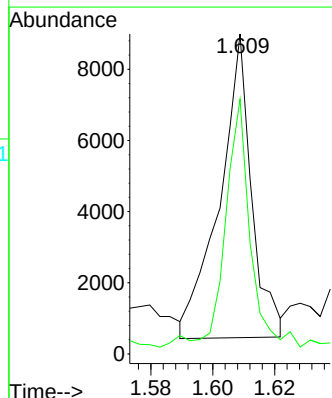
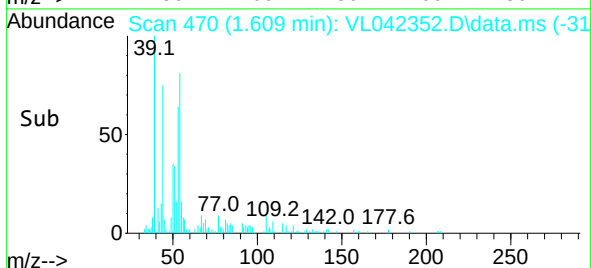
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

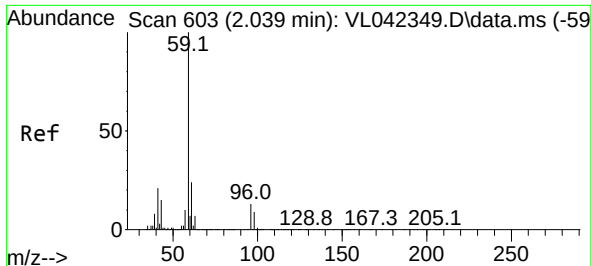


#16
1,3-Butadiene
Concen: 0.660 ppbv
RT: 1.609 min Scan# 470
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19



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 :

VSTDICC0.5

Tgt Ion: 59 Resp: 13640

Ion Ratio Lower Upper

59 100

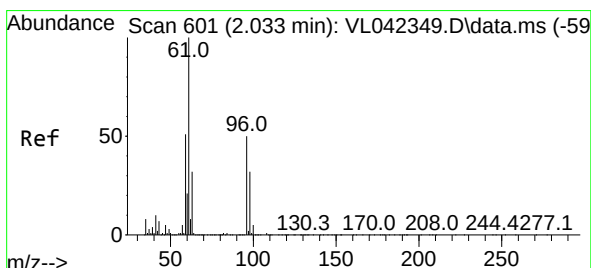
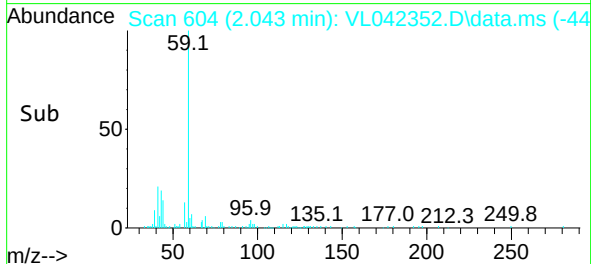
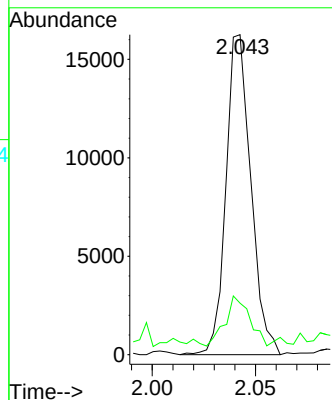
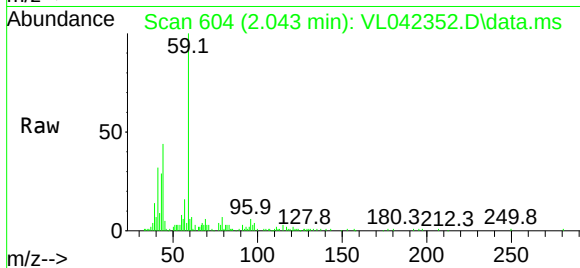
57 16.5 8.7 13.1

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

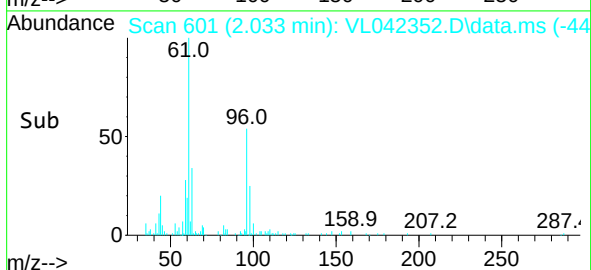
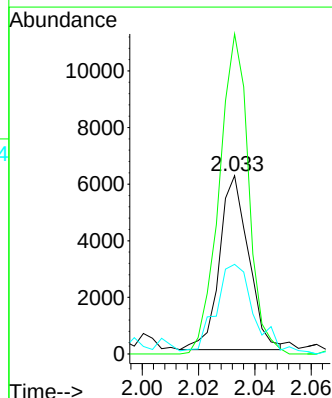
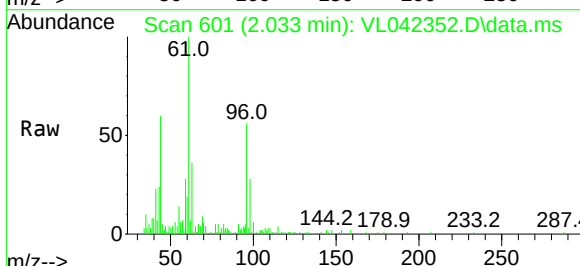
Tgt Ion: 96 Resp: 4430

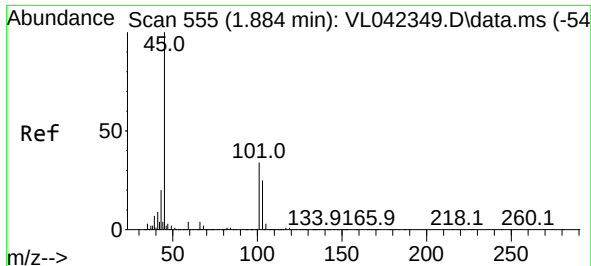
Ion Ratio Lower Upper

96 100

61 183.9 160.2 240.2

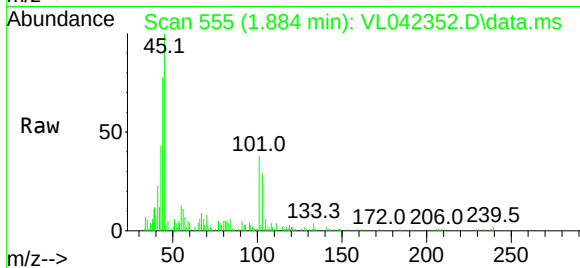
98 49.7 51.0 76.4





#19
Isopropyl Alcohol
Concen: 0.577 ppbv
RT: 1.884 min Scan# 511
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

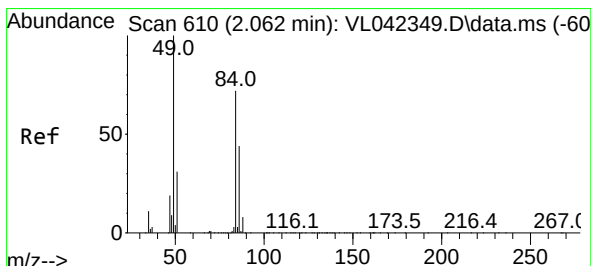
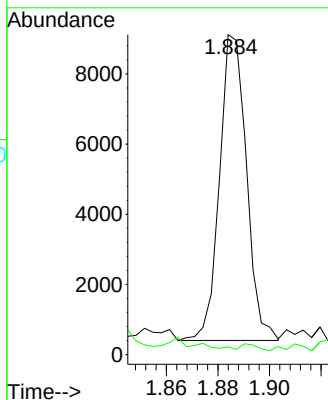
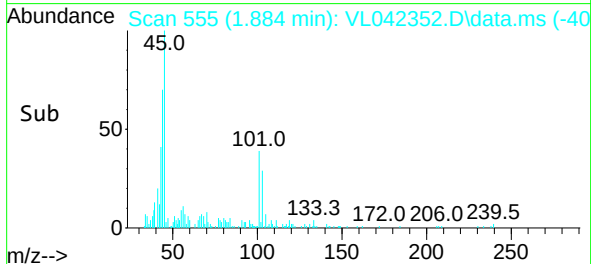
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



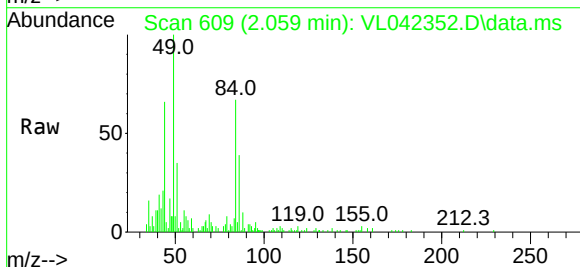
Tgt Ion: 45 Resp: 632
Ion Ratio Lower Upper
45 100
58 3.8 34.5 51.7

Manual Integrations
APPROVED

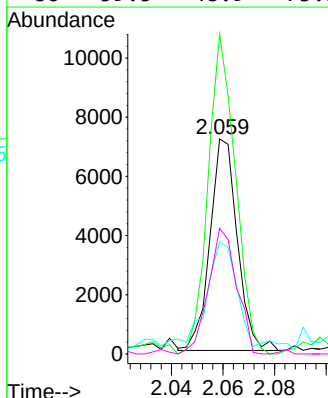
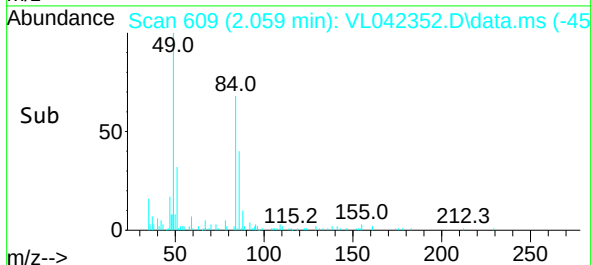
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

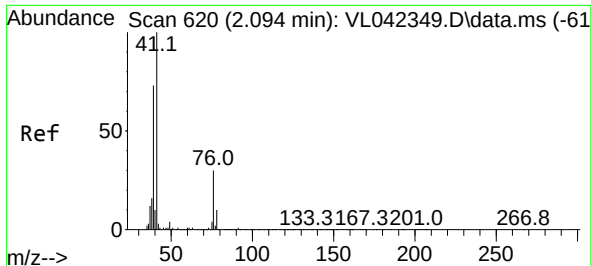


#20
Methylene Chloride
Concen: 0.682 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19



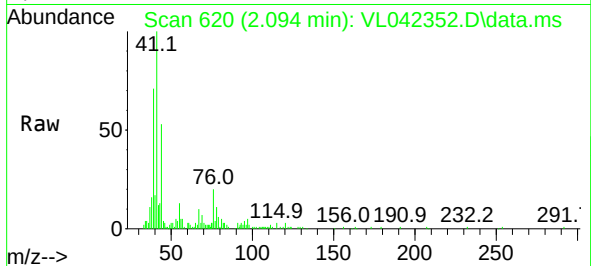
Tgt Ion: 84 Resp: 5273
Ion Ratio Lower Upper
84 100
49 151.3 111.6 167.4
51 48.1 35.1 52.7
86 59.5 48.9 73.3





#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

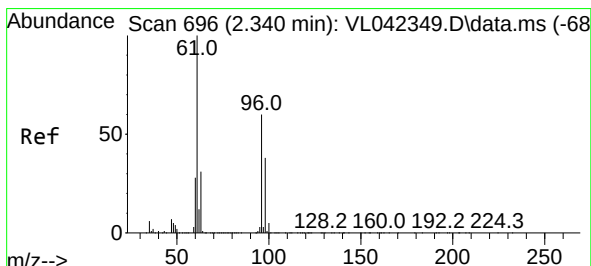
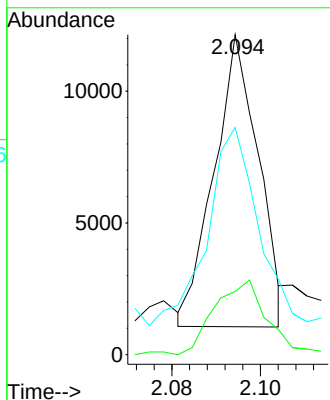
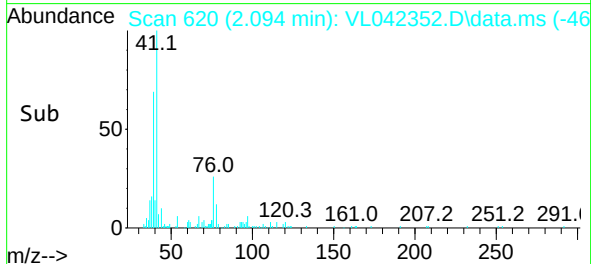
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5



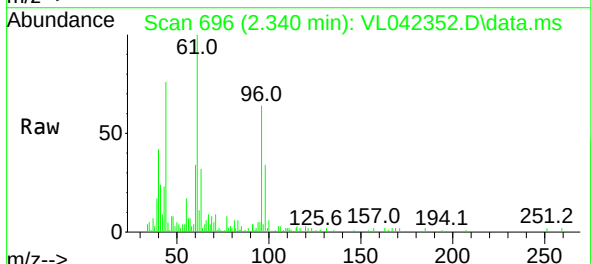
Tgt Ion: 41 Resp: 7692
 Ion Ratio Lower Upper
 41 100
 76 31.1 24.8 37.2
 39 98.8 60.6 90.8

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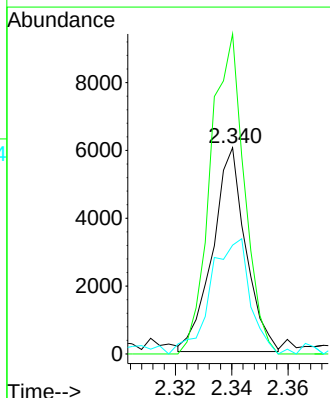
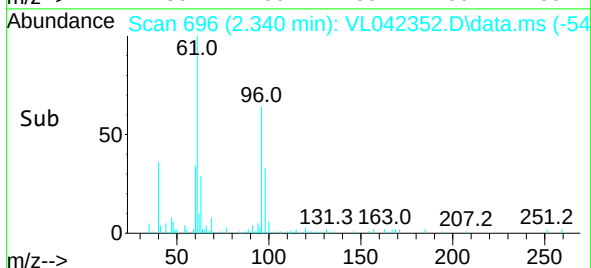
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

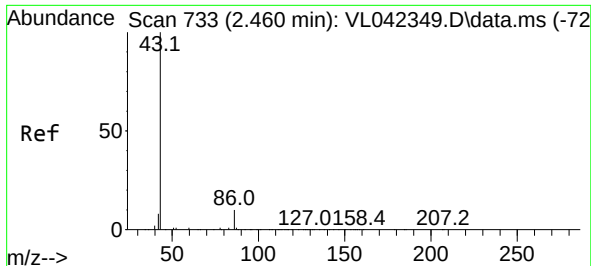


#22
 trans-1,2-Dichloroethene
 Concen: 0.557 ppbv
 RT: 2.340 min Scan# 696
 Delta R.T. -0.000 min
 Lab File: VL042352.D
 Acq: 17 Apr 2025 11:19



Tgt Ion: 96 Resp: 4908
 Ion Ratio Lower Upper
 96 100
 61 158.7 133.7 200.5
 98 54.0 50.3 75.5





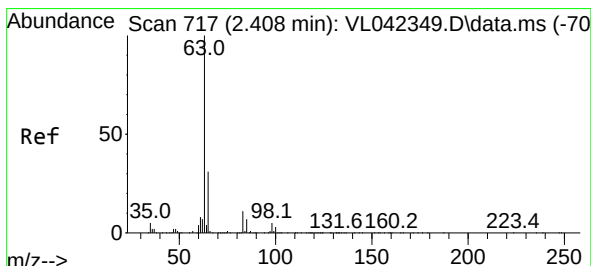
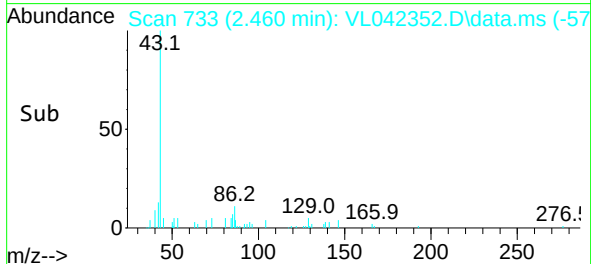
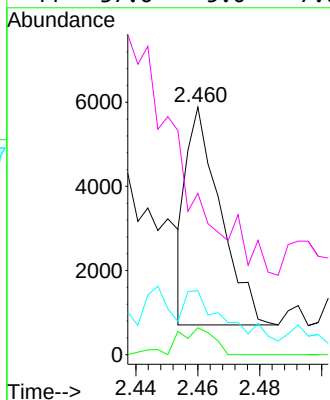
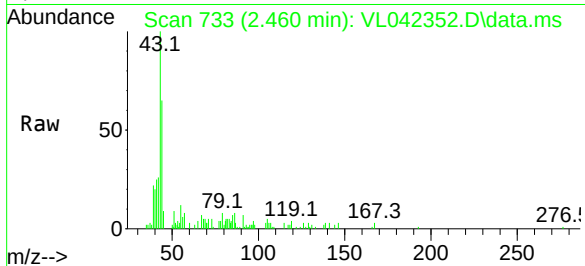
#23
 Vinyl Acetate
 Concen: 0.495 ppbv
 RT: 2.460 min Scan# 717
 Delta R.T. -0.000 min
 Lab File: VL042352.D
 Acq: 17 Apr 2025 11:19

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tgt Ion:	43	Resp:	395
Ion Ratio	Lower	Upper	
43	100		
86	12.4	6.5	9.7
42	23.2	7.8	11.8
44	37.6	5.0	7.6

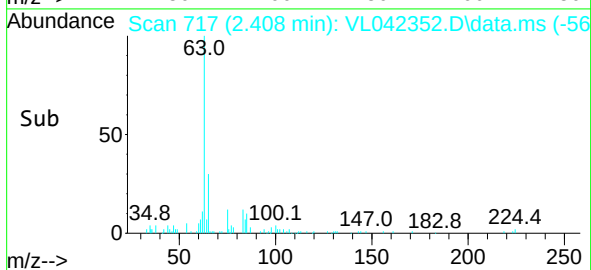
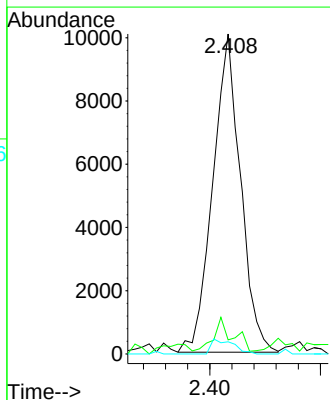
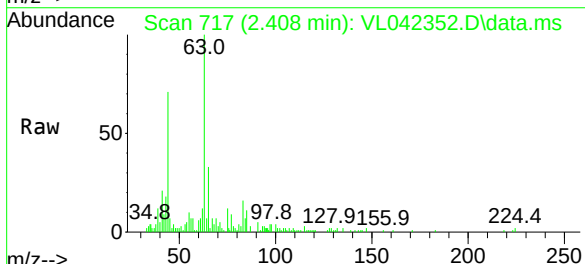
Manual Integrations
 APPROVED

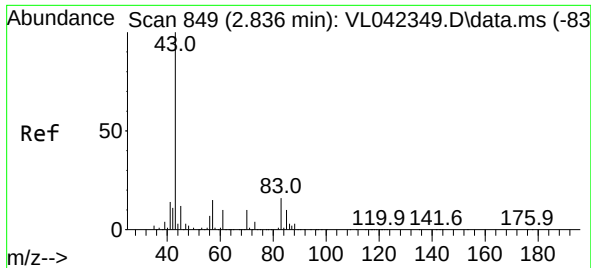
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



#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





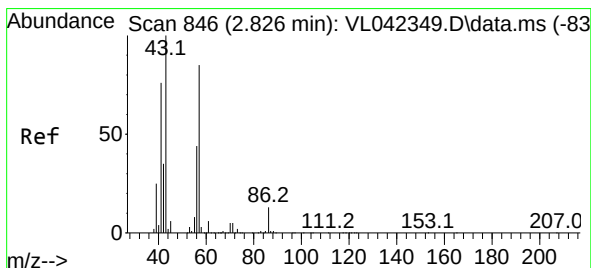
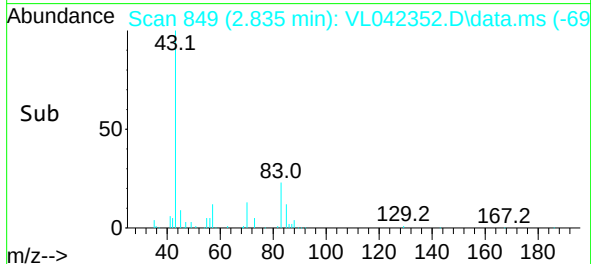
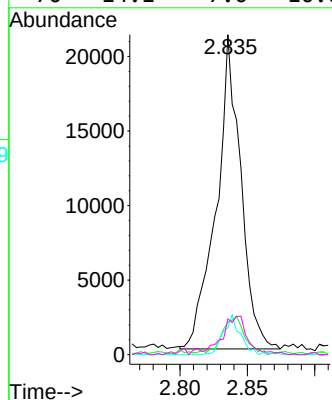
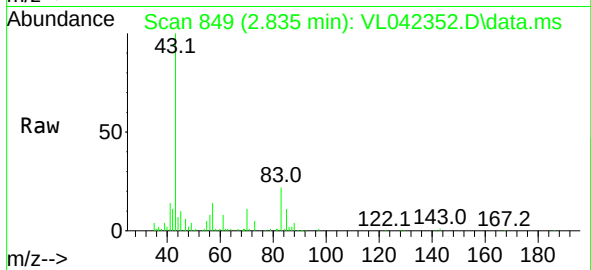
#25
Ethyl Acetate
Concen: 0.548 ppbv
RT: 2.835 min Scan# 849
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

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

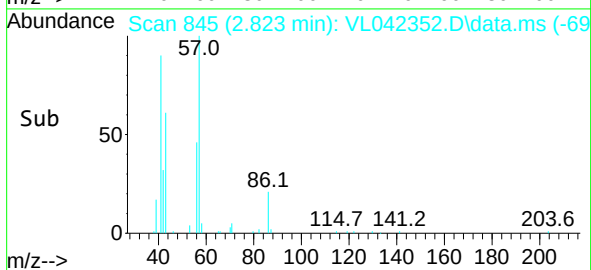
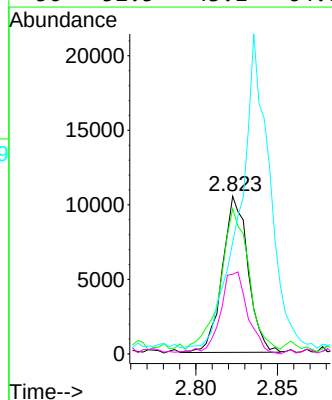
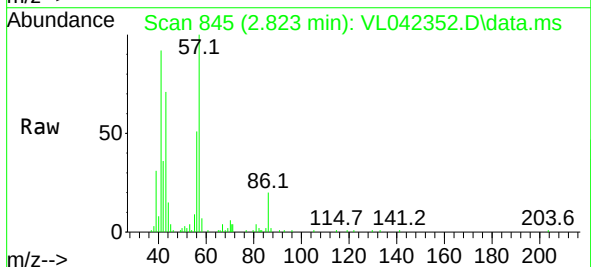
Manual Integrations
APPROVED

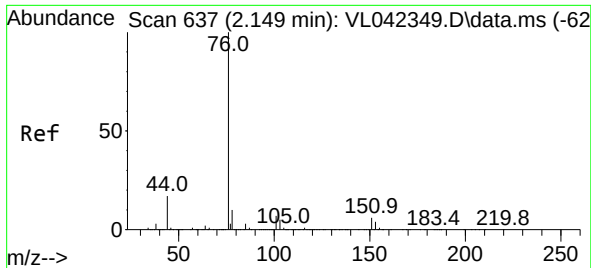
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

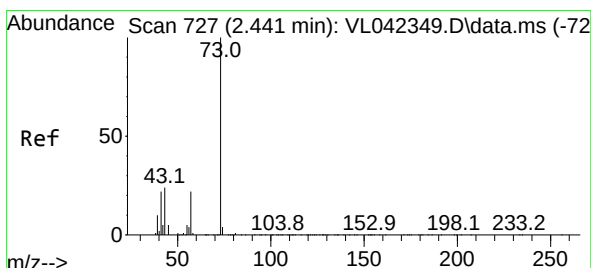
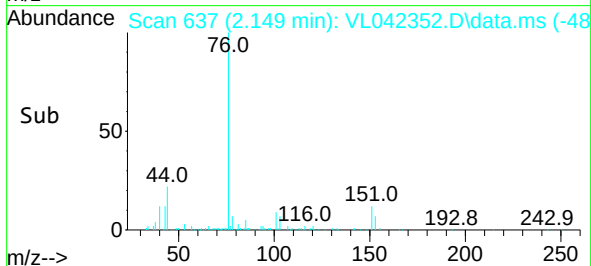
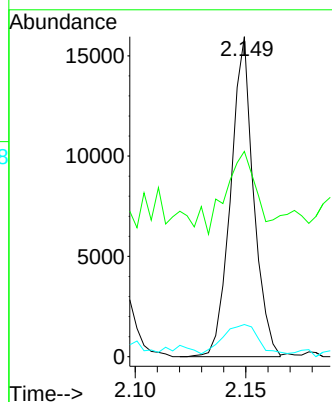
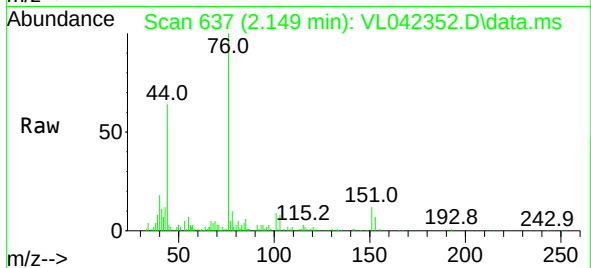
ClientSampleId :

VSTDIC0.5

Tgt Ion: 76 Resp: 11472
 Ion Ratio Lower Upper
 76 100
 44 123.7 15.5 23.3
 78 18.8 9.3 13.9

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



#28

Methyl tert-Butyl Ether

Concen: 0.530 ppbv

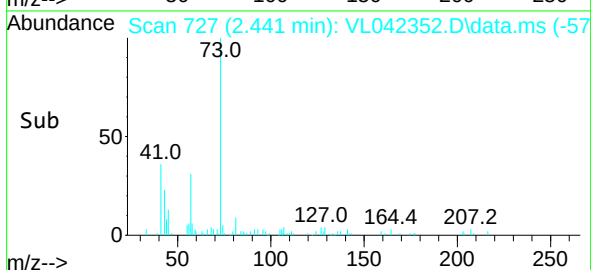
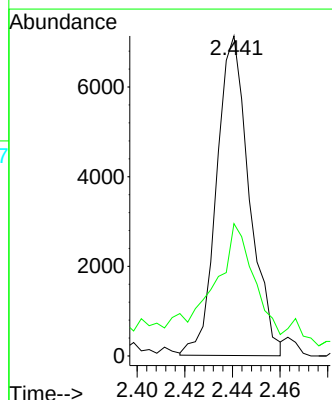
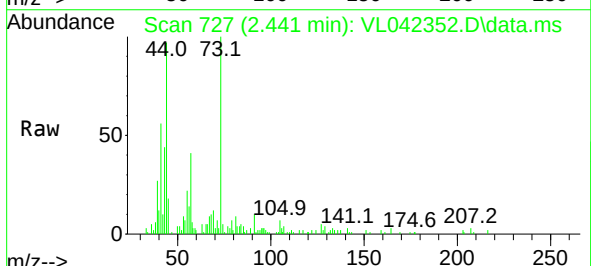
RT: 2.441 min Scan# 727

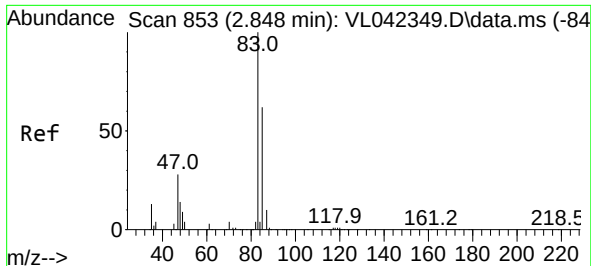
Delta R.T. -0.000 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

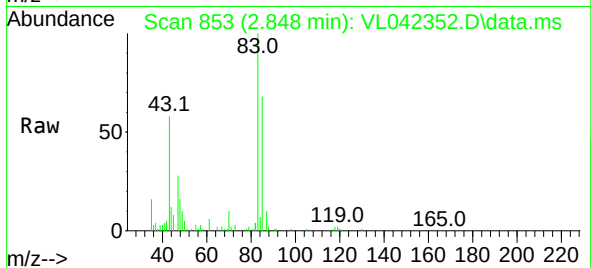
Tgt Ion: 73 Resp: 6833
 Ion Ratio Lower Upper
 73 100
 57 61.8 21.3 31.9





#29
Chloroform
Concen: 0.532 ppbv
RT: 2.848 min Scan# 853
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

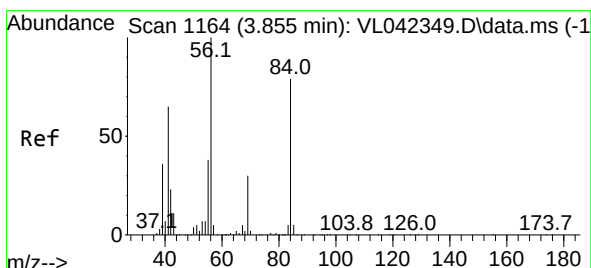
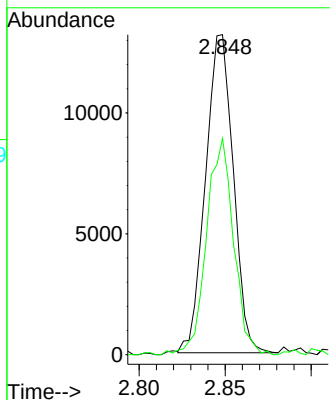
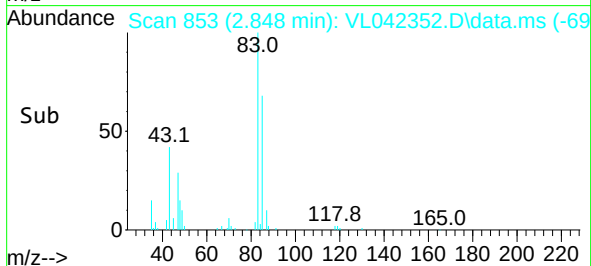
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



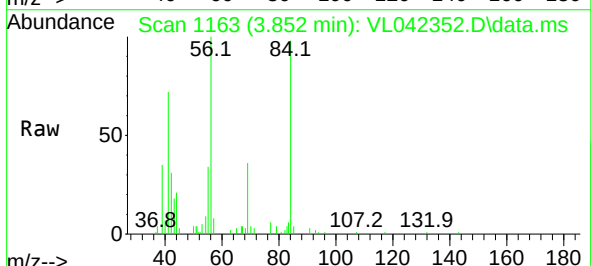
Tgt Ion: 83 Resp: 1481
Ion Ratio Lower Upper
83 100
85 68.0 50.0 75.0

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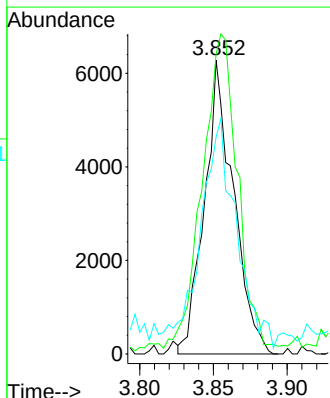
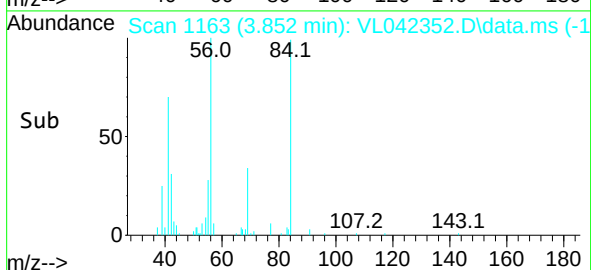
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

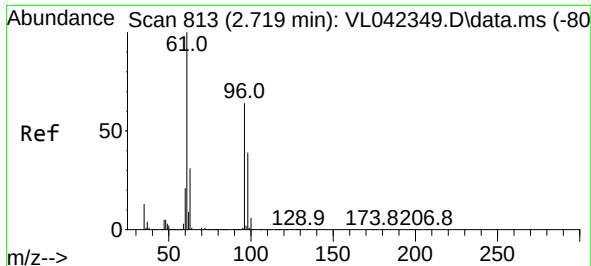


#30
Cyclohexane
Concen: 0.541 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19



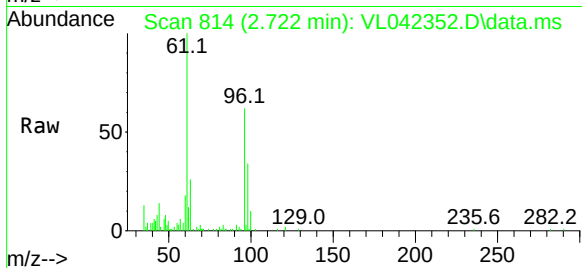
Tgt Ion: 84 Resp: 8572
Ion Ratio Lower Upper
84 100
56 132.8 101.0 151.4
41 89.8 67.4 101.0





#31
 cis-1,2-Dichloroethene
 Concen: 0.511 ppbv
 RT: 2.722 min Scan# 813
 Delta R.T. 0.003 min
 Lab File: VL042352.D
 Acq: 17 Apr 2025 11:19

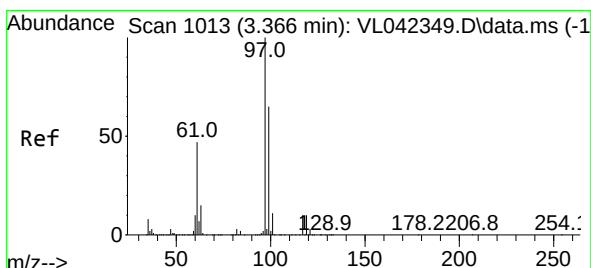
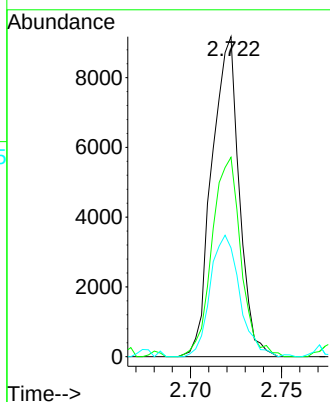
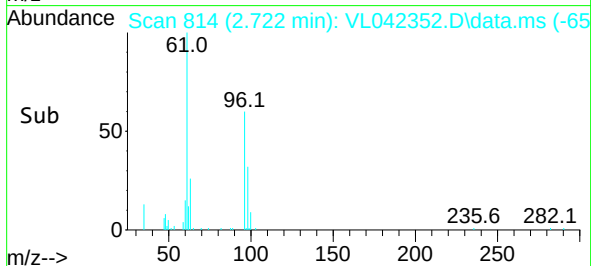
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5



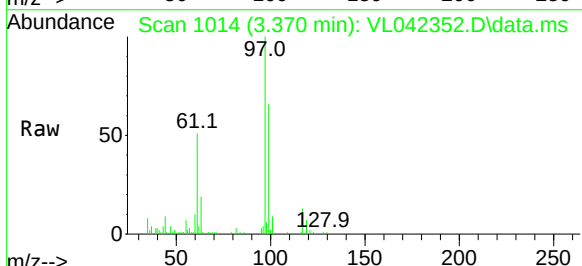
Tgt Ion: 61 Resp: 957
 Ion Ratio Lower Upper
 61 100
 96 62.3 50.8 76.2
 98 34.0 30.9 46.3

Manual Integrations
 APPROVED

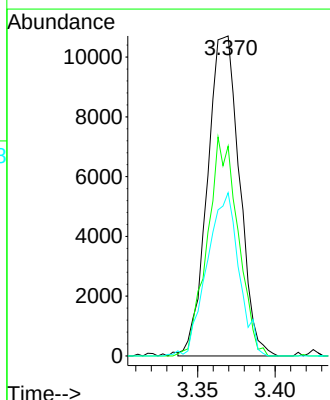
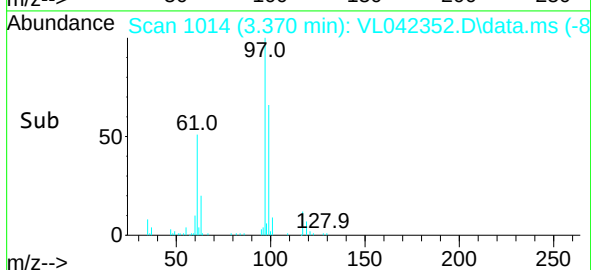
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

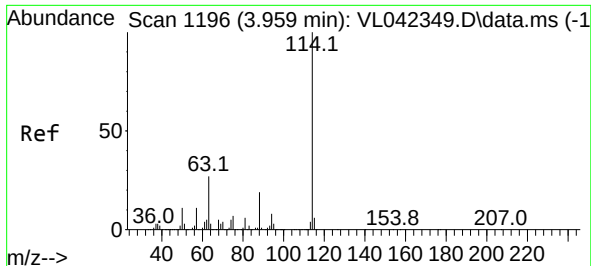


#32
 1,1,1-Trichloroethane
 Concen: 0.516 ppbv
 RT: 3.370 min Scan# 1014
 Delta R.T. 0.003 min
 Lab File: VL042352.D
 Acq: 17 Apr 2025 11:19



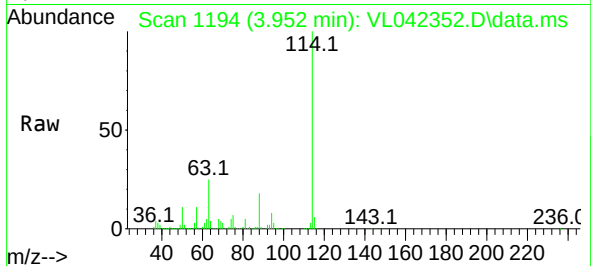
Tgt Ion: 97 Resp: 15413
 Ion Ratio Lower Upper
 97 100
 99 65.6 51.0 76.4
 61 50.8 38.8 58.2





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. -0.006 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

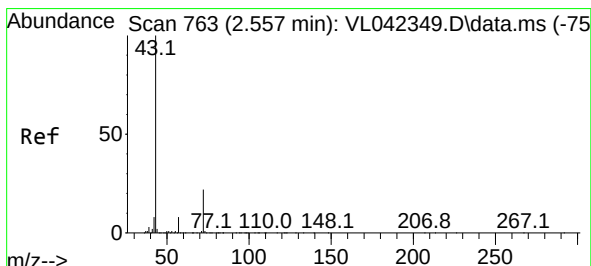
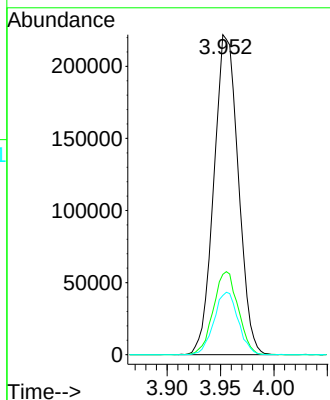
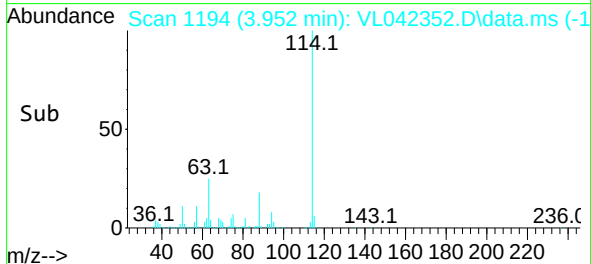
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



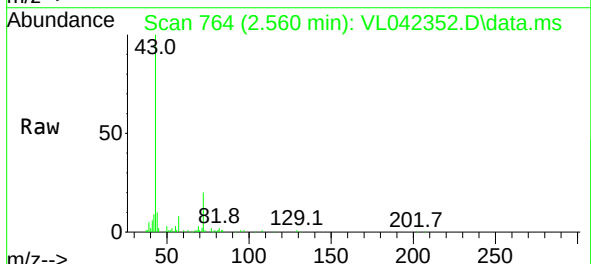
Tgt Ion: 114 Resp: 35313
Ion Ratio Lower Upper
114 100
63 26.3 21.8 32.6
88 19.4 15.5 23.3

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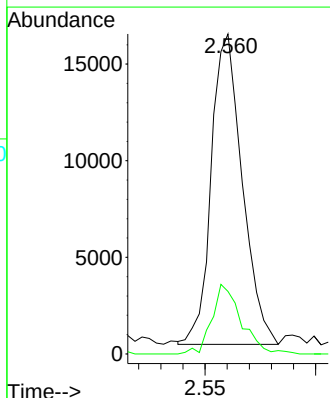
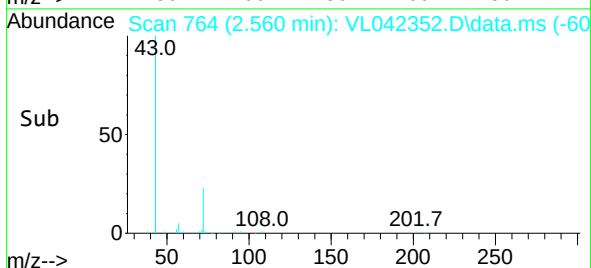
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

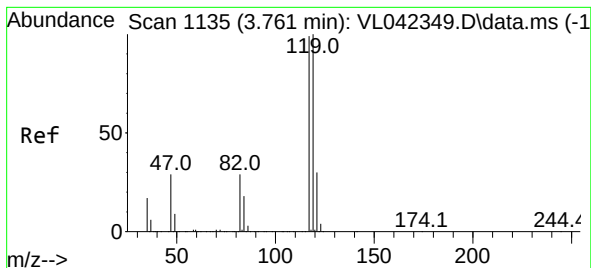


#34
2-Butanone
Concen: 0.560 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19



Tgt Ion: 43 Resp: 15640
Ion Ratio Lower Upper
43 100
72 21.3 18.2 27.2





#35

Carbon Tetrachloride

Concen: 0.459 ppbv

RT: 3.761 min Scan# 1135

Delta R.T. -0.000 min

Lab File: VL042352.D

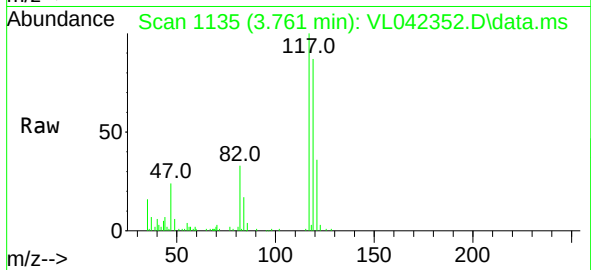
Acq: 17 Apr 2025 11:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5



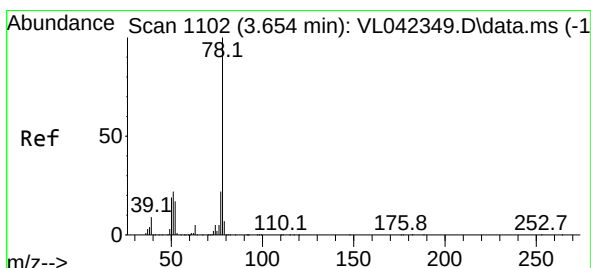
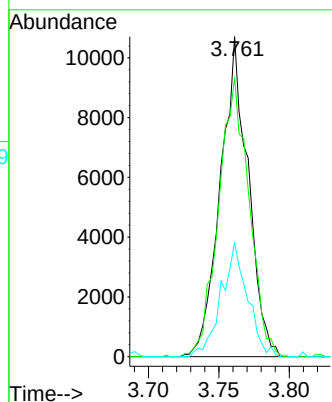
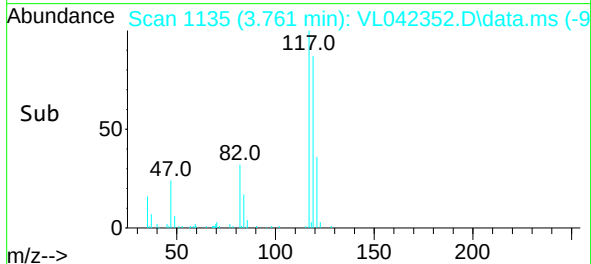
Tgt Ion:	117	Resp:	1468
Ion	Ratio	Lower	Upper
117	100		
119	87.2	80.5	120.7
121	35.6	24.2	36.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#36

Benzene

Concen: 0.531 ppbv

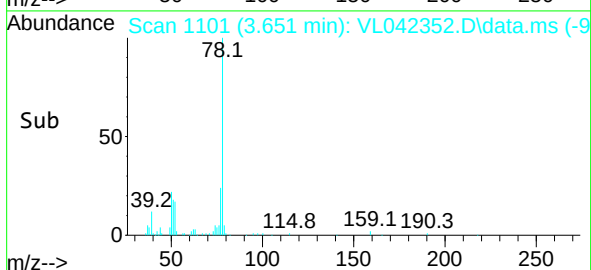
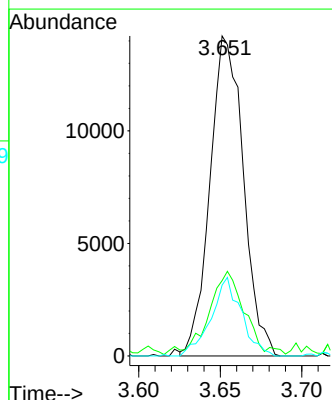
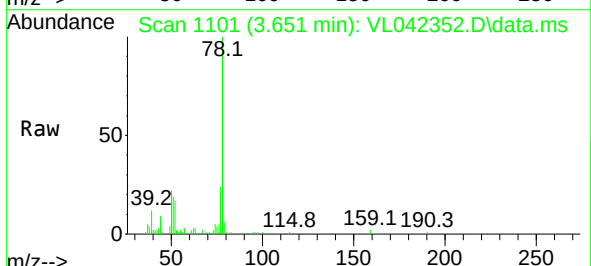
RT: 3.651 min Scan# 1101

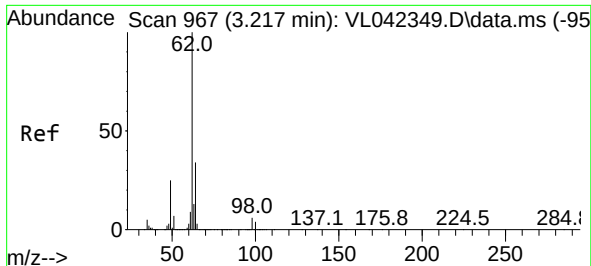
Delta R.T. -0.003 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Tgt Ion:	78	Resp:	20233
Ion	Ratio	Lower	Upper
78	100		
77	21.7	17.4	26.0
50	22.1	15.5	23.3





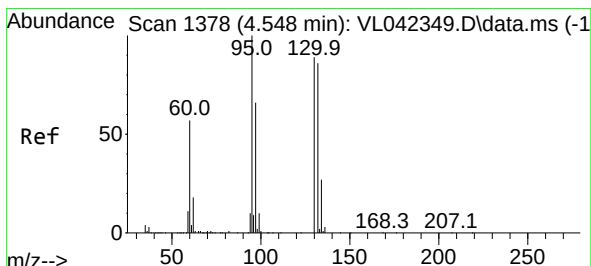
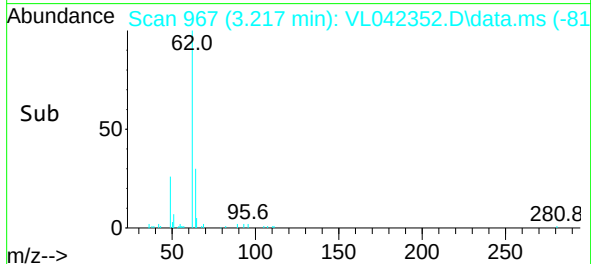
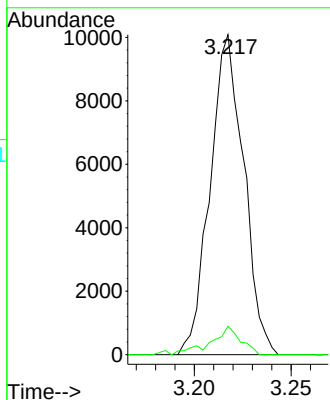
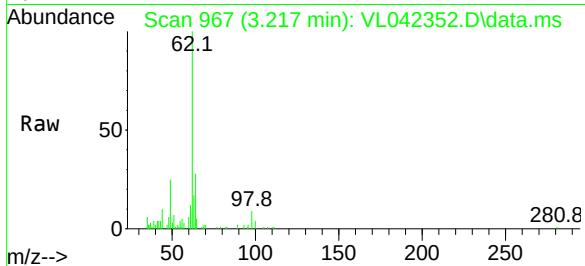
#37
1,2-Dichloroethane
Concen: 0.533 ppbv
RT: 3.217 min Scan# 967
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 62 Resp: 12194
Ion Ratio Lower Upper
62 100
98 8.1 5.1 7.7

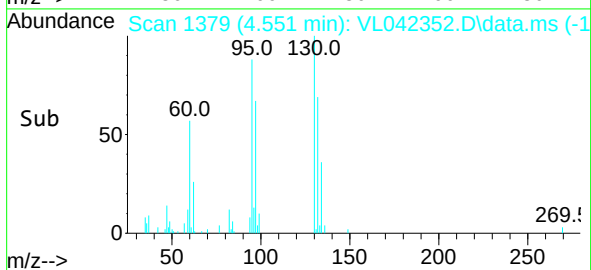
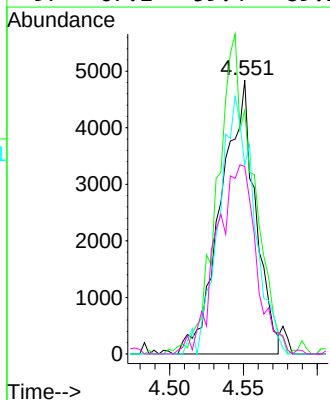
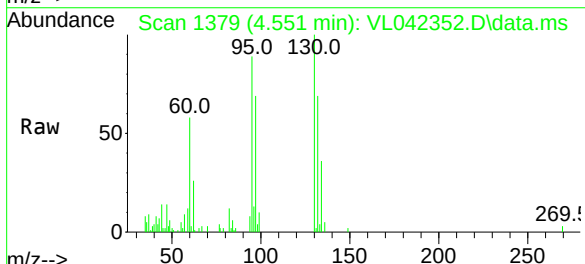
Manual Integrations
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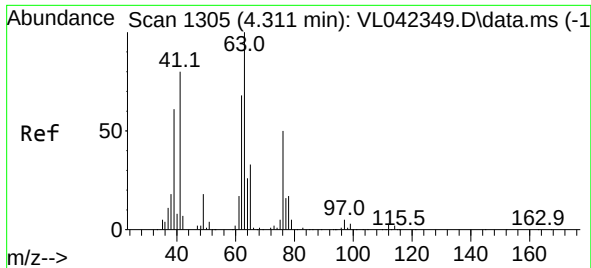
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#38
Trichloroethene
Concen: 0.468 ppbv
RT: 4.551 min Scan# 1379
Delta R.T. 0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

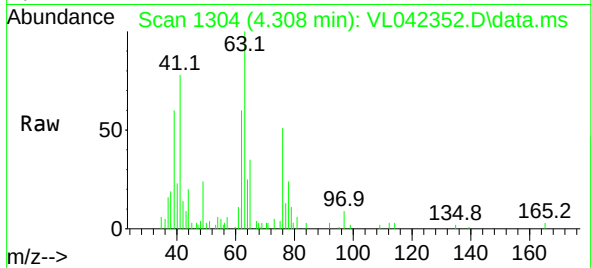
Tgt Ion:130 Resp: 7819
Ion Ratio Lower Upper
130 100
95 86.2 89.8 134.6#
132 69.1 77.7 116.5#
97 67.2 59.4 89.2





#39
1,2-Dichloropropane
Concen: 0.548 ppbv m
RT: 4.308 min Scan# 1304
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

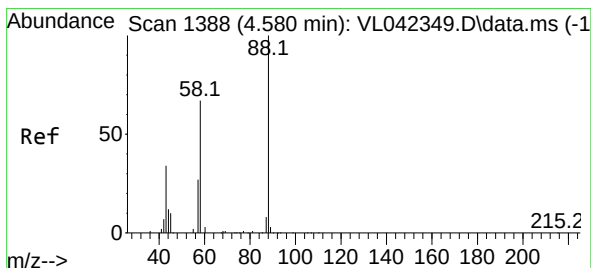
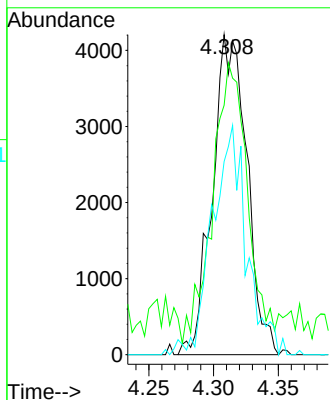
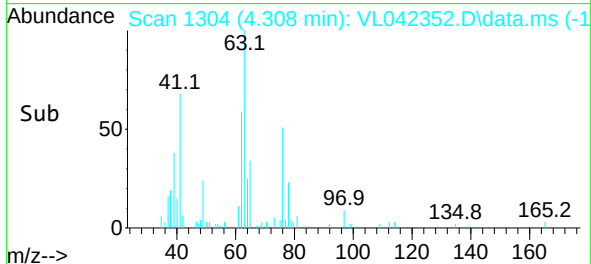
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



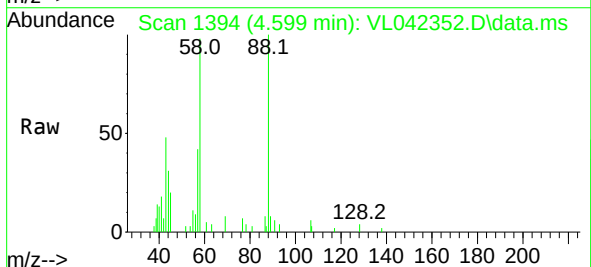
Tgt Ion: 63 Resp: 7790
Ion Ratio Lower Upper
63 100
41 78.0 64.2 96.2
62 60.4 54.3 81.5

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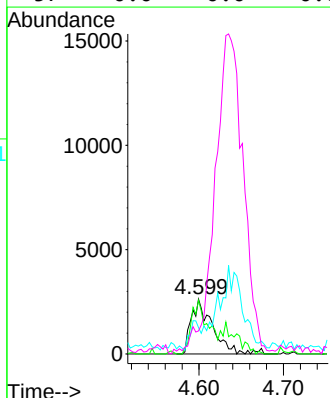
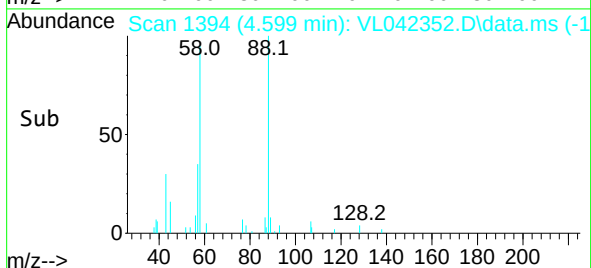
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

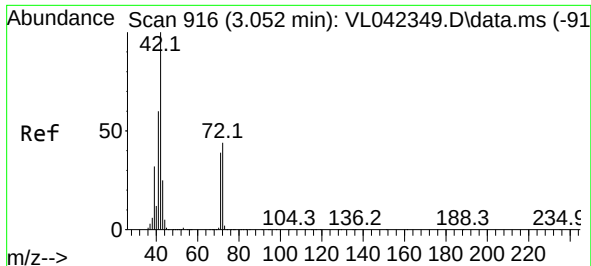


#40
1,4-Dioxane
Concen: 0.603 ppbv m
RT: 4.599 min Scan# 1394
Delta R.T. 0.019 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19



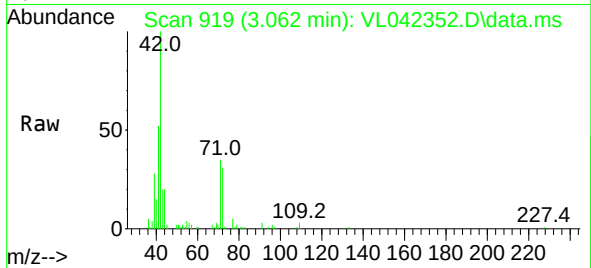
Tgt Ion: 88 Resp: 4637
Ion Ratio Lower Upper
88 100
58 118.1 61.4 92.0#
43 0.0 23.2 34.8#
57 0.0 0.0 0.0





#41
Tetrahydrofuran
Concen: 0.567 ppbv m
RT: 3.062 min Scan# 916
Delta R.T. 0.010 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

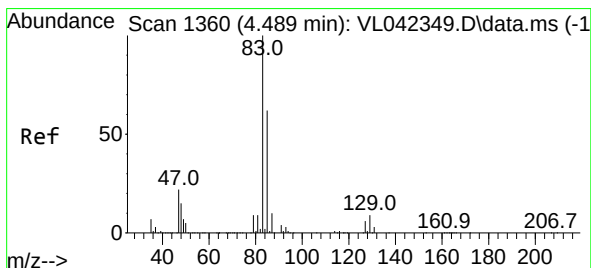
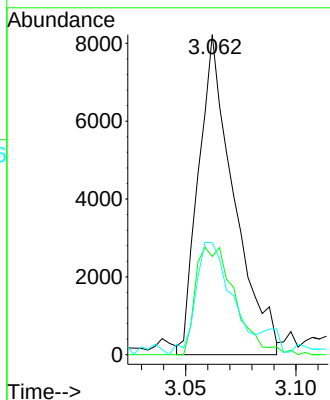
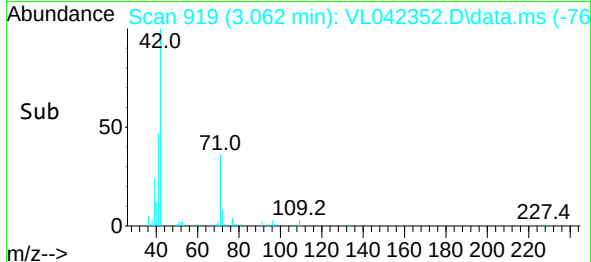
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



Tgt Ion: 42 Resp: 914
Ion Ratio Lower Upper
42 100
72 37.7 32.3 48.5
71 43.1 31.4 47.2

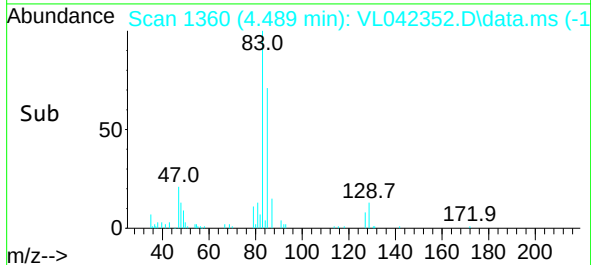
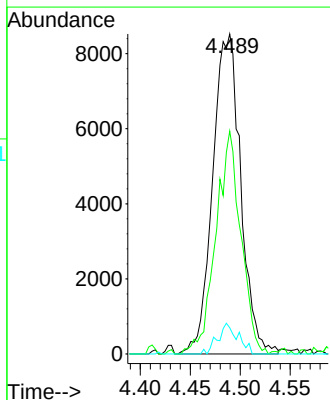
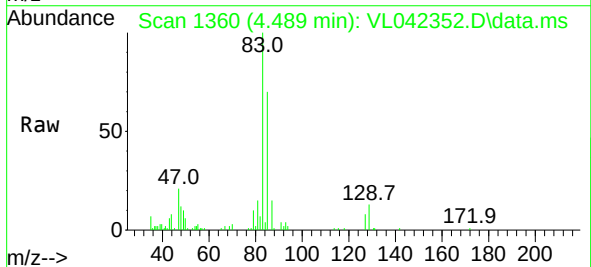
Manual Integrations
APPROVED

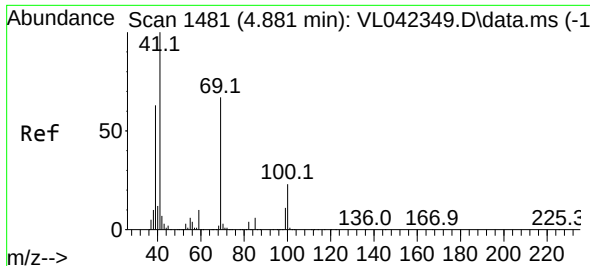
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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#





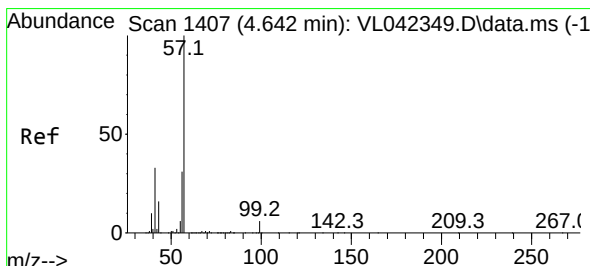
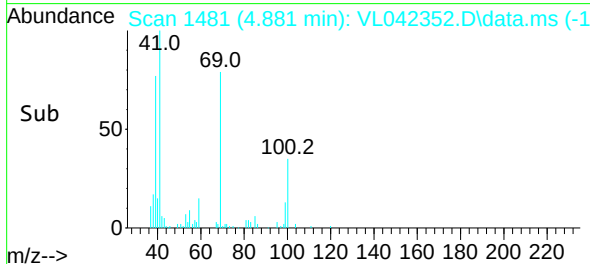
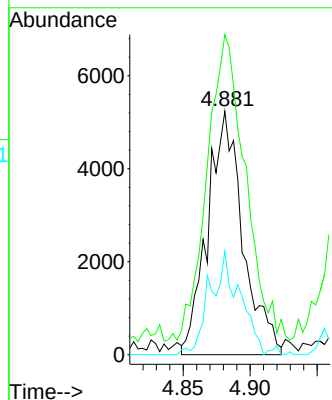
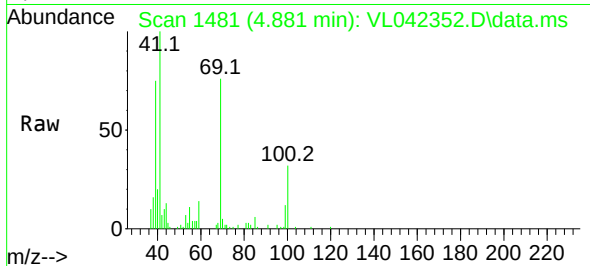
#43
Methyl Methacrylate
Concen: 0.563 ppbv
RT: 4.881 min Scan# 1481
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 69 Resp: 9620
Ion Ratio Lower Upper
69 100
41 0.0 118.6 177.8
100 0.0 28.2 42.2

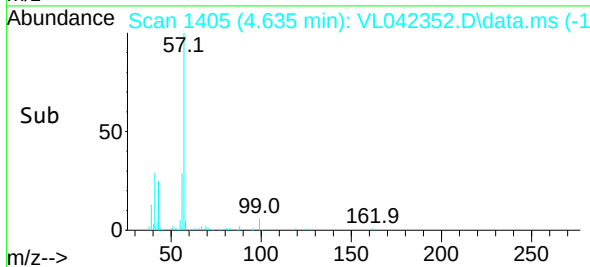
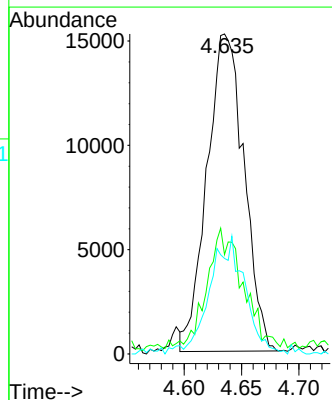
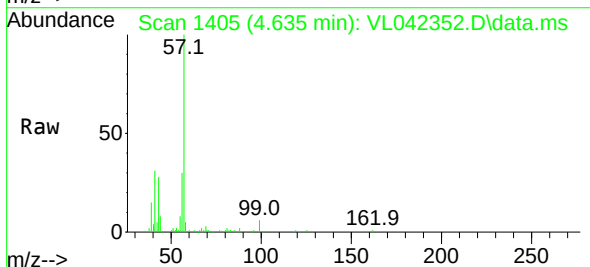
Manual Integrations
APPROVED

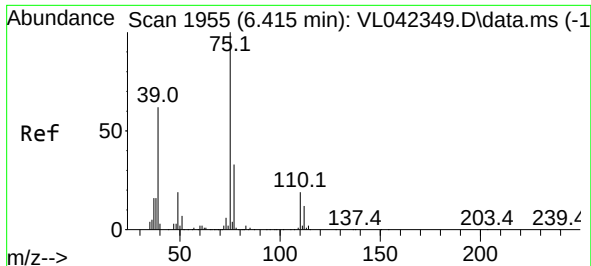
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#44
2,2,4-Trimethylpentane
Concen: 0.519 ppbv
RT: 4.635 min Scan# 1405
Delta R.T. -0.006 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

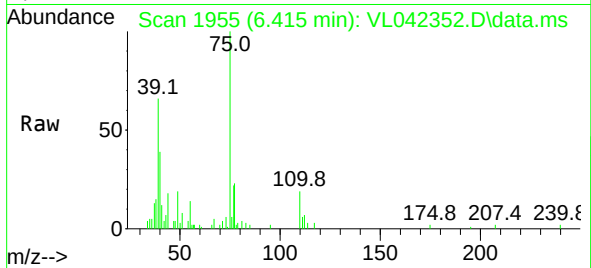
Tgt Ion: 57 Resp: 34170
Ion Ratio Lower Upper
57 100
41 39.1 27.2 40.8
56 37.1 25.7 38.5





#45
t-1,3-Dichloropropene
Concen: 0.517 ppbv m
RT: 6.415 min Scan# 1955
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

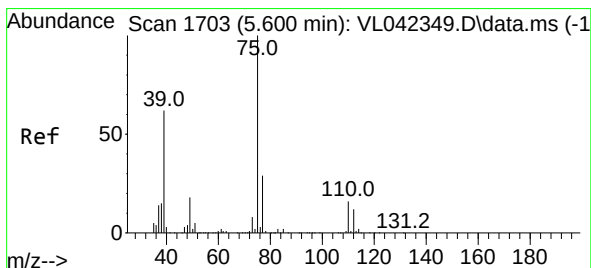
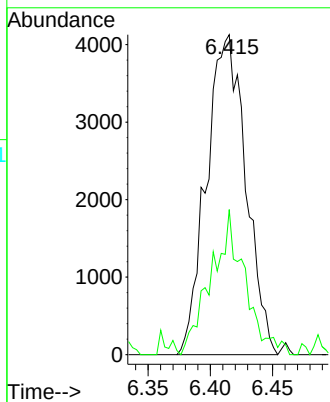
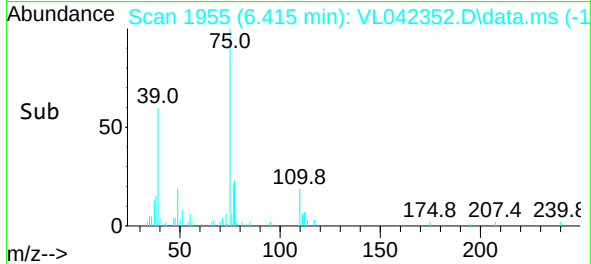
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



Tgt Ion: 75 Resp: 9073
Ion Ratio Lower Upper
75 100
77 23.1 27.0 40.6

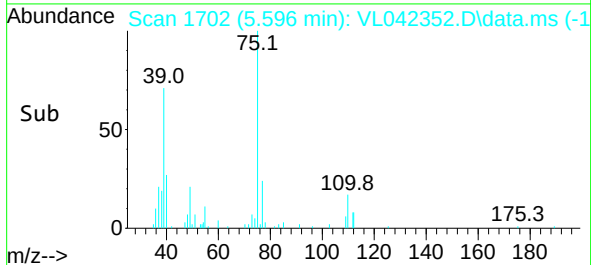
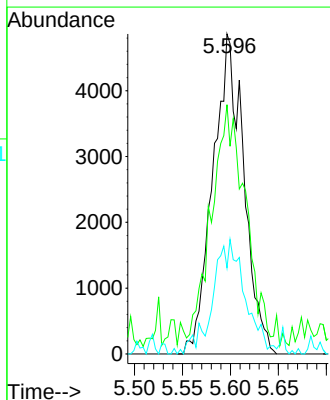
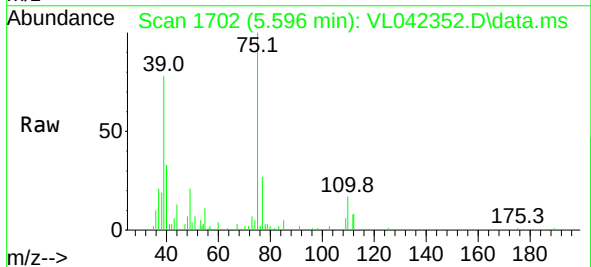
Manual Integrations
APPROVED

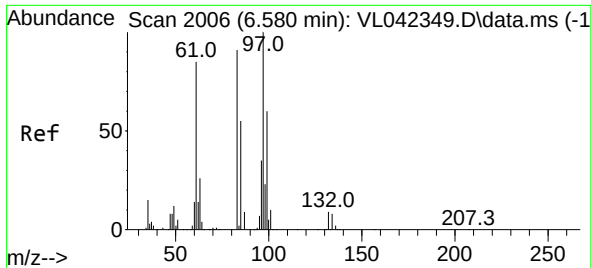
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#46
cis-1,3-Dichloropropene
Concen: 0.505 ppbv m
RT: 5.596 min Scan# 1702
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 75 Resp: 10827
Ion Ratio Lower Upper
75 100
39 77.9 50.0 75.0#
77 26.9 23.0 34.6





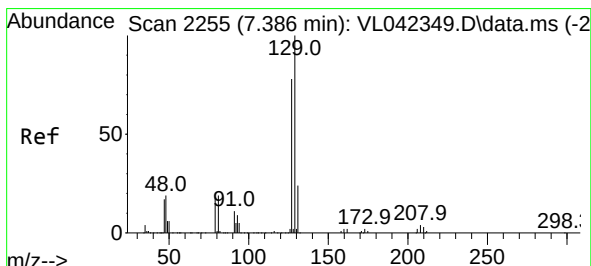
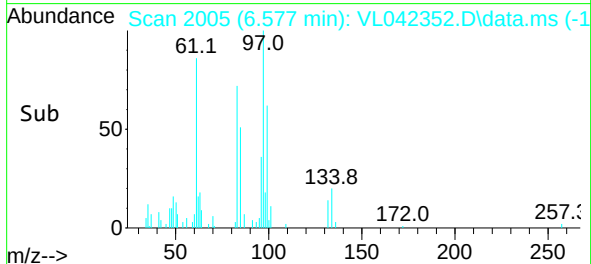
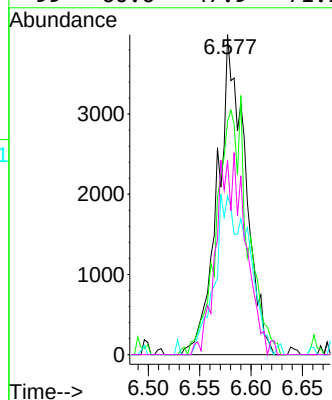
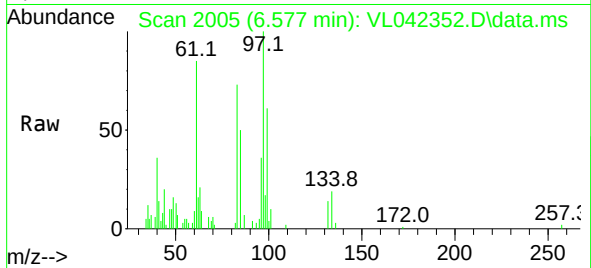
#47
1,1,2-Trichloroethane
Concen: 0.516 ppbv m
RT: 6.577 min Scan# 2006
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion:	97	Resp:	746
Ion	Ratio	Lower	Upper
97	100		
83	72.9	72.8	109.2
85	49.6	44.2	66.4
99	60.6	47.9	71.9

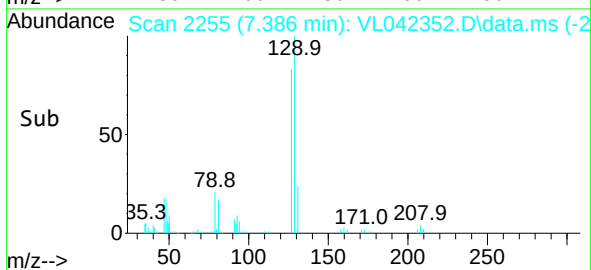
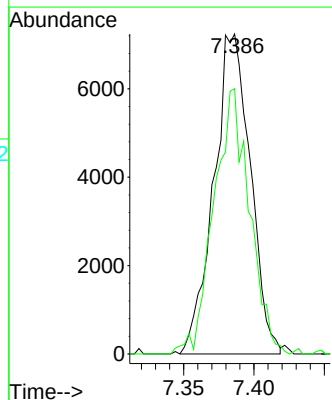
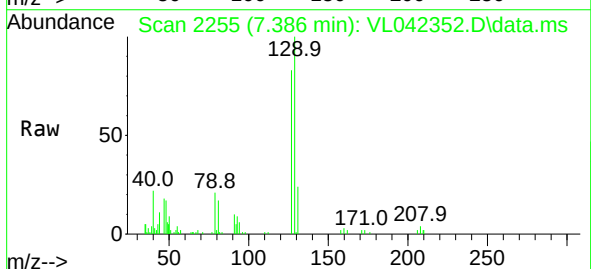
Manual Integrations
APPROVED

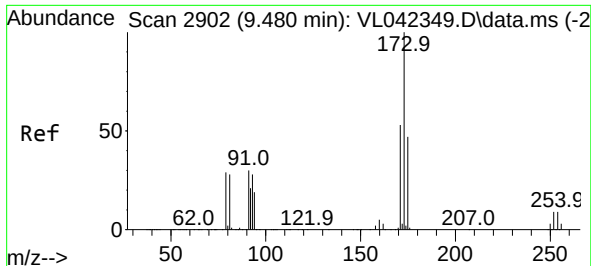
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

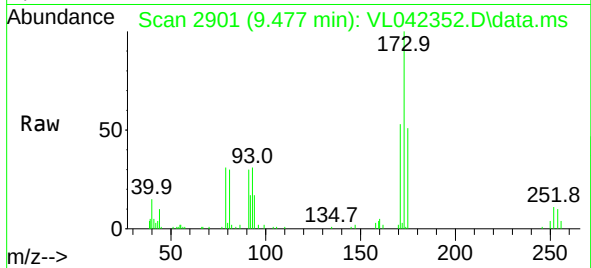
Tgt Ion:	129	Resp:	13122
Ion	Ratio	Lower	Upper
129	100		
127	80.9	39.1	117.3





#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

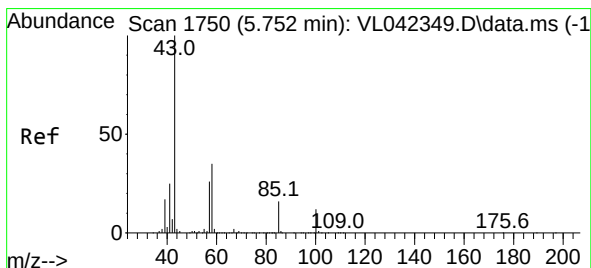
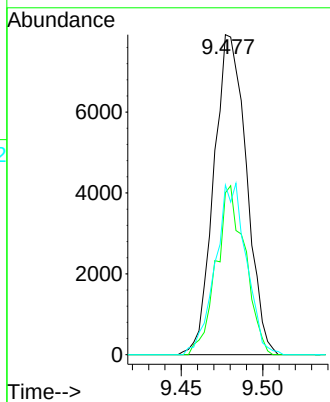
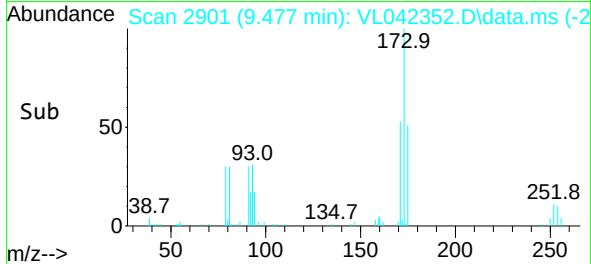
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



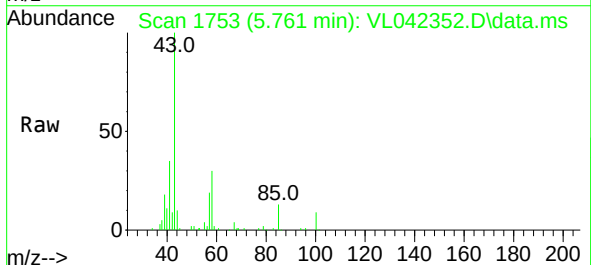
Tgt Ion: 173 Resp: 1098
Ion Ratio Lower Upper
173 100
175 46.8 38.2 57.2
171 51.2 40.9 61.3

Manual Integrations
APPROVED

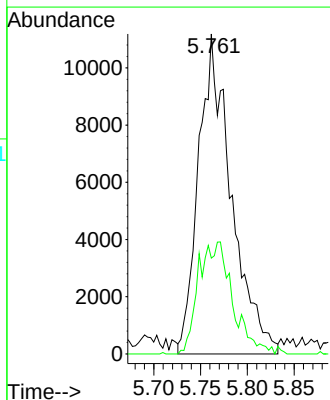
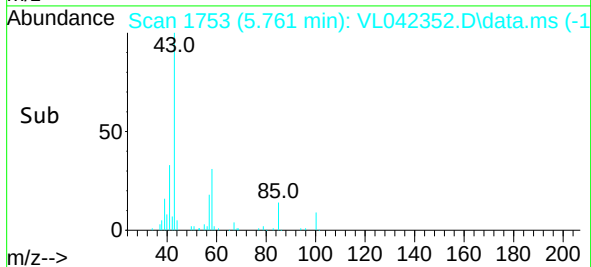
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

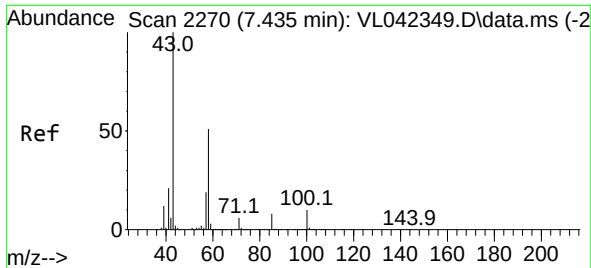


#50
4-Methyl-2-Pentanone
Concen: 0.585 ppbv m
RT: 5.761 min Scan# 1753
Delta R.T. 0.010 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19



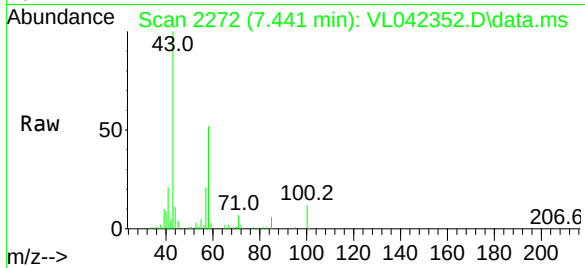
Tgt Ion: 43 Resp: 27206
Ion Ratio Lower Upper
43 100
58 0.0 28.6 43.0#





#51
2-Hexanone
Concen: 0.564 ppbv
RT: 7.441 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

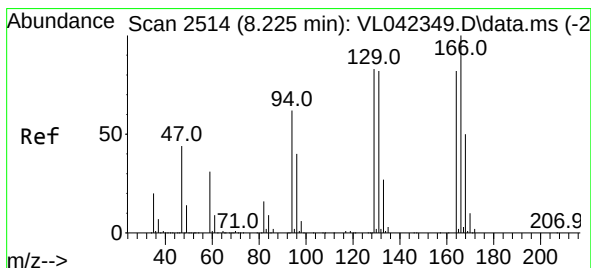
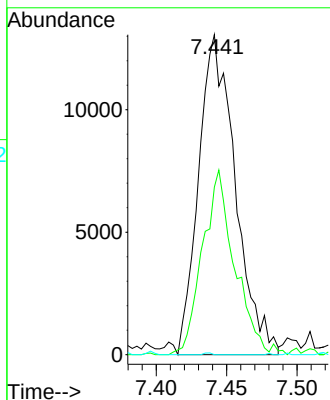
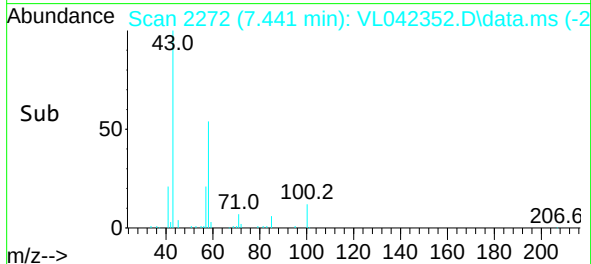
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



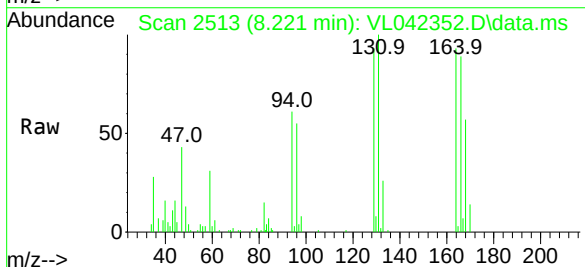
Tgt Ion: 43 Resp: 23684
Ion Ratio Lower Upper
43 100
58 51.7 40.2 60.4
98 0.1 0.1 0.1

Manual Integrations
APPROVED

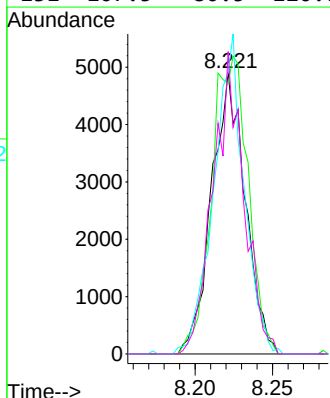
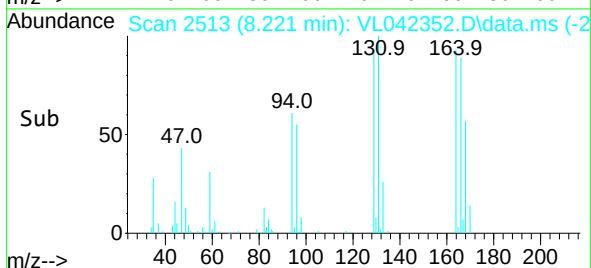
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

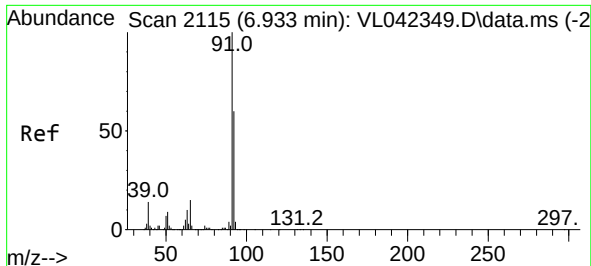


#52
Tetrachloroethene
Concen: 0.503 ppbv
RT: 8.221 min Scan# 2513
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19



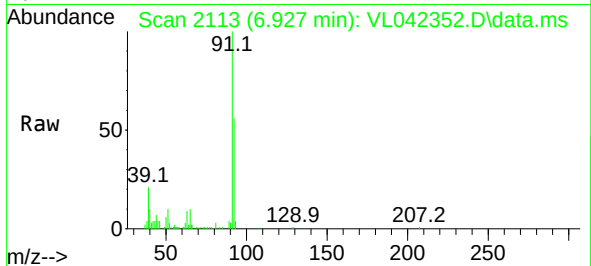
Tgt Ion:164 Resp: 7412
Ion Ratio Lower Upper
164 100
166 96.1 98.2 147.2#
129 97.8 81.8 122.8
131 107.5 80.5 120.7





#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

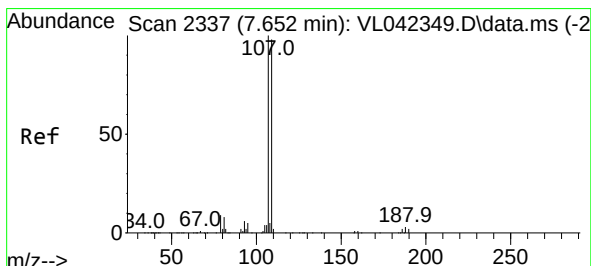
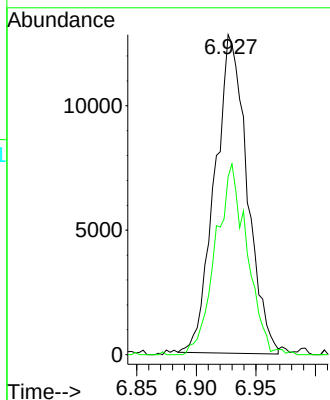
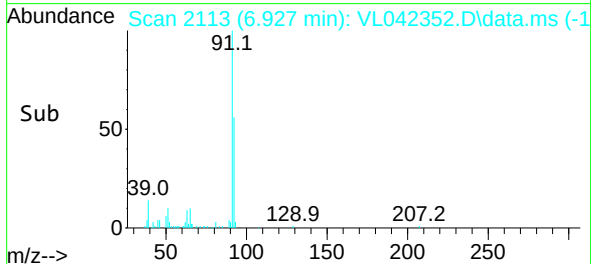
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



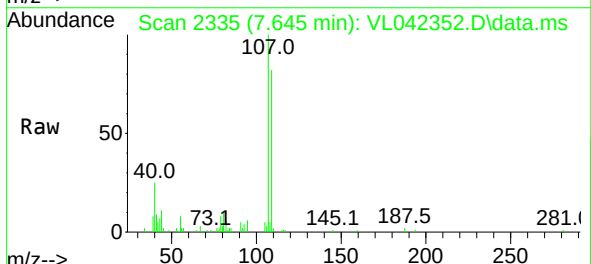
Tgt Ion: 91 Resp: 24200
Ion Ratio Lower Upper
91 100
92 58.4 48.2 72.4

Manual Integrations
APPROVED

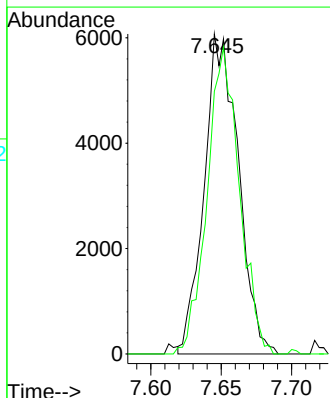
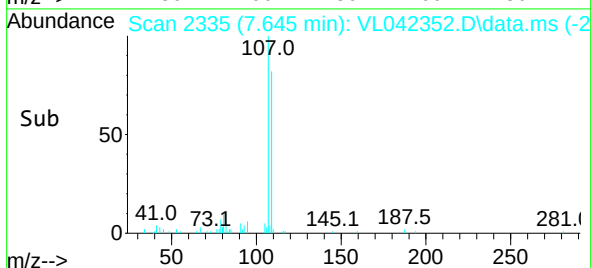
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

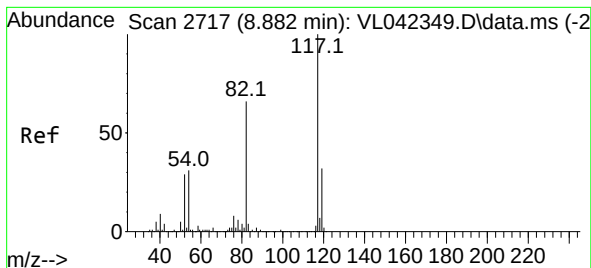


#54
1,2-Dibromoethane
Concen: 0.499 ppbv
RT: 7.645 min Scan# 2335
Delta R.T. -0.006 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19



Tgt Ion:107 Resp: 10282
Ion Ratio Lower Upper
107 100
109 82.1 78.2 117.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.878 min Scan# 21

Delta R.T. -0.003 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Instrument :

MSVOA_L

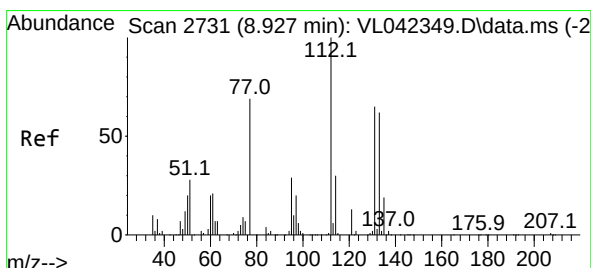
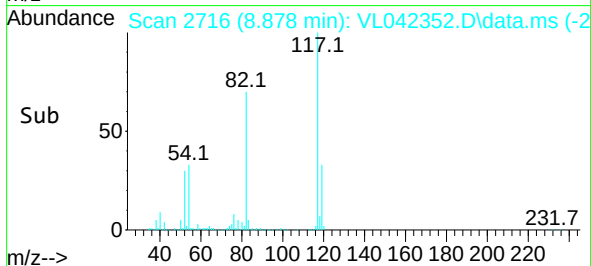
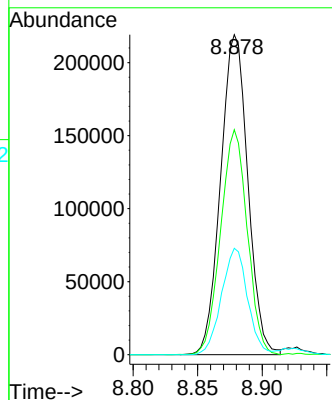
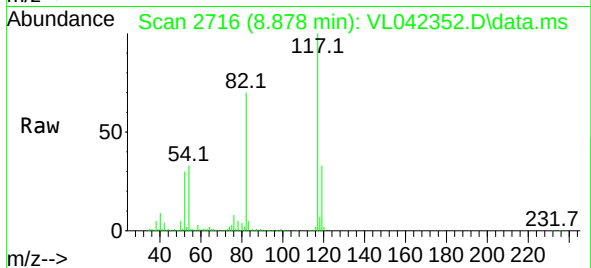
ClientSampleId :

VSTDIC0.5

Tgt Ion:	117	Resp:	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

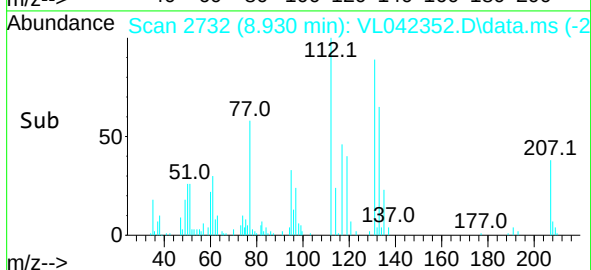
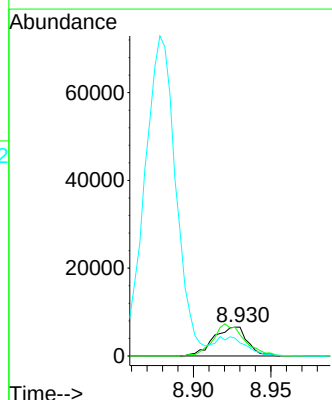
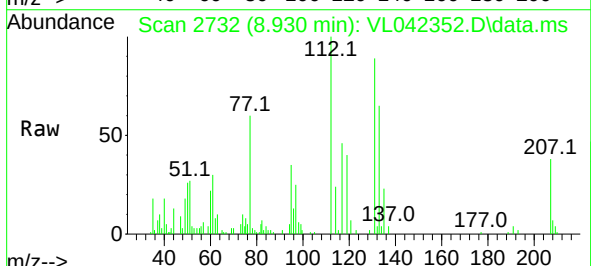
RT: 8.930 min Scan# 2732

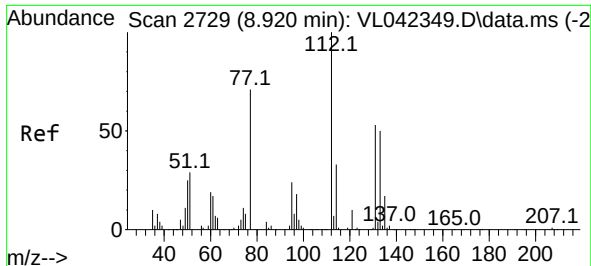
Delta R.T. 0.003 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

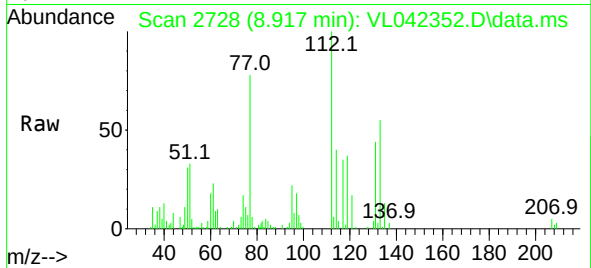
Tgt Ion:	131	Resp:	9987
Ion Ratio	Lower	Upper	
131	100		
133	102.0	78.3	117.5
119	1087.9	48.7	73.1#





#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

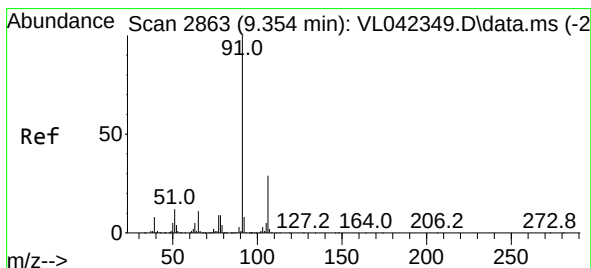
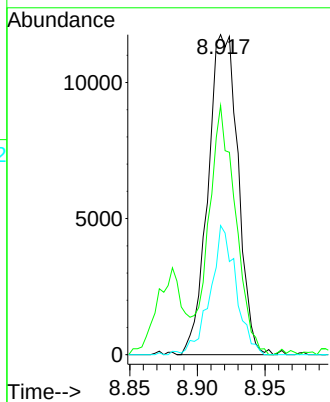
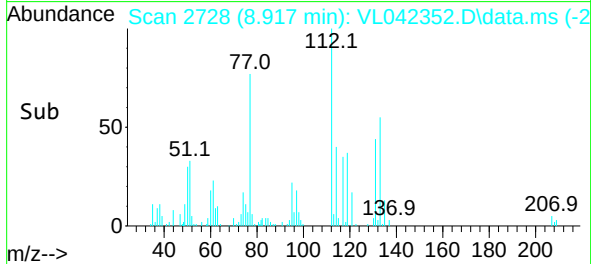
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



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

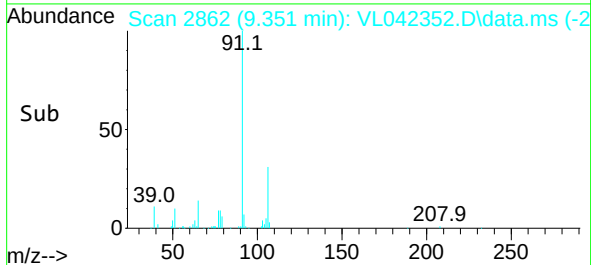
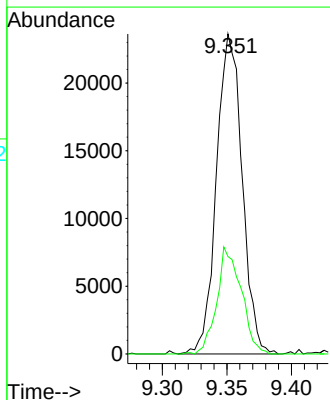
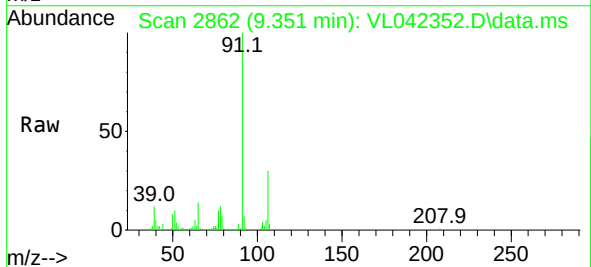
Manual Integrations
APPROVED

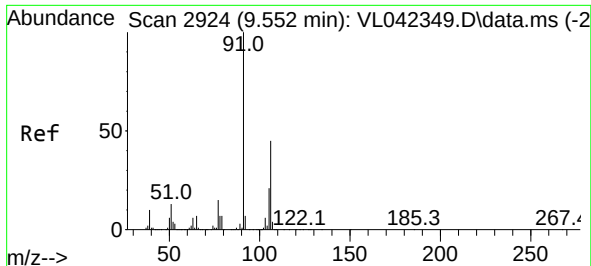
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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





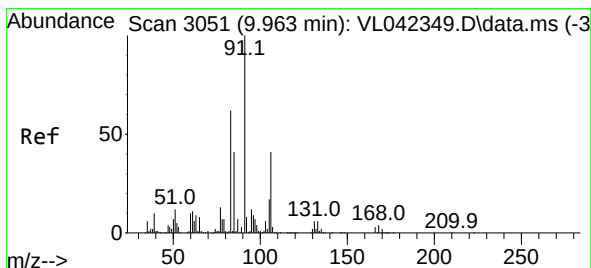
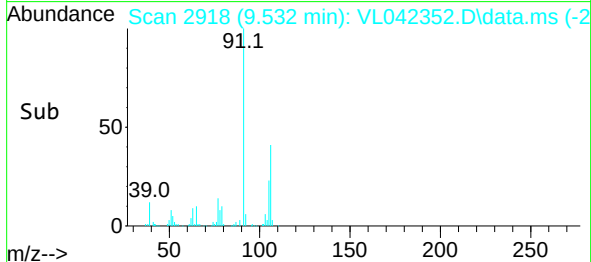
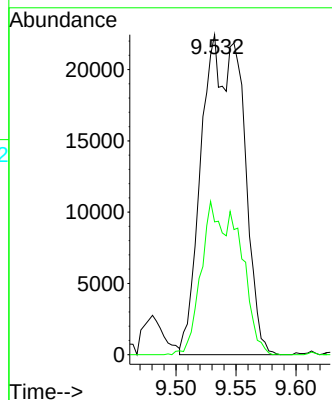
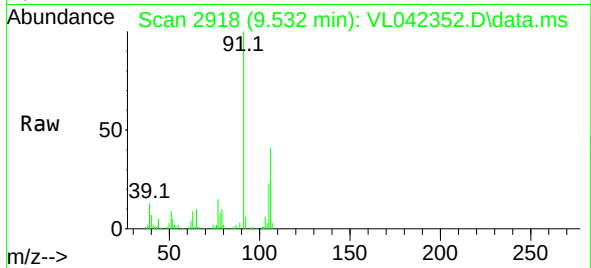
#59
m/p-Xylene
Concen: 1.053 ppbv m
RT: 9.532 min Scan# 2918
Delta R.T. -0.019 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 91 Resp: 5419
Ion Ratio Lower Upper
91 100
106 0.0 35.4 53.2

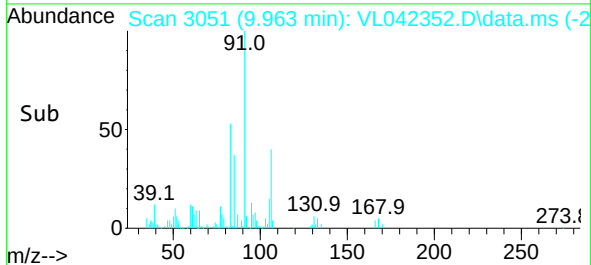
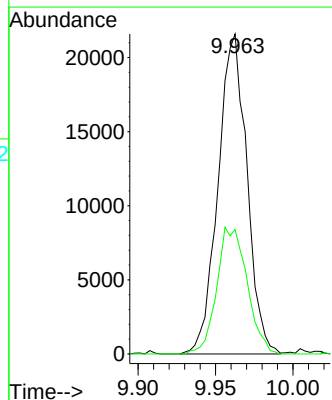
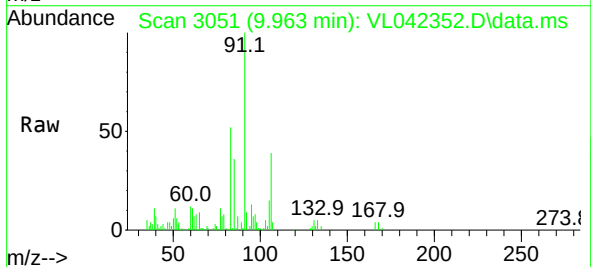
Manual Integrations
APPROVED

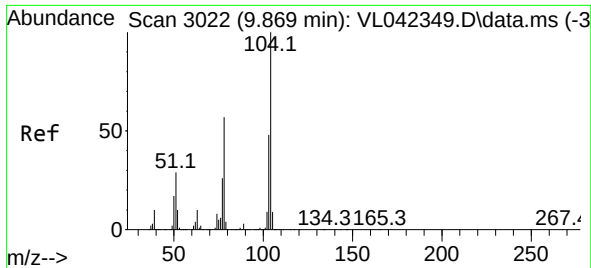
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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





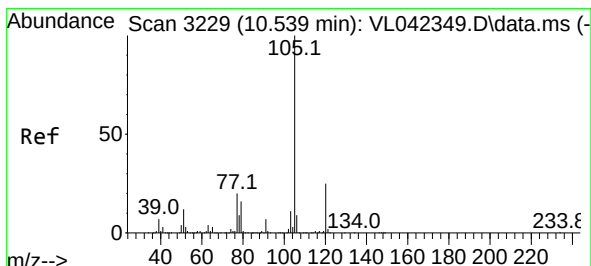
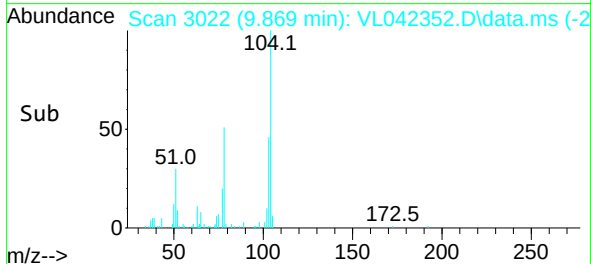
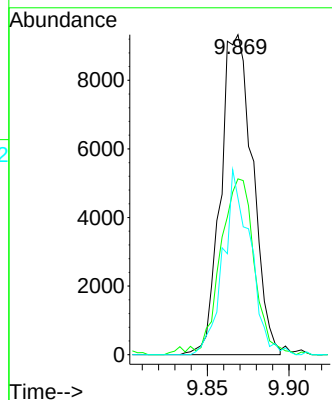
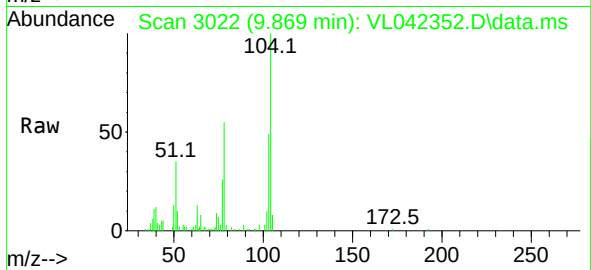
#61
Styrene
Concen: 0.516 ppbv
RT: 9.869 min Scan# 3022
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

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

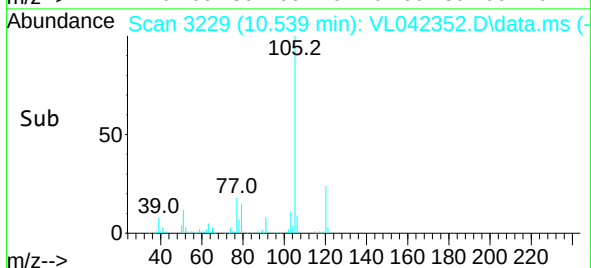
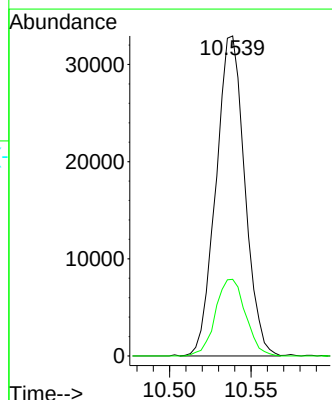
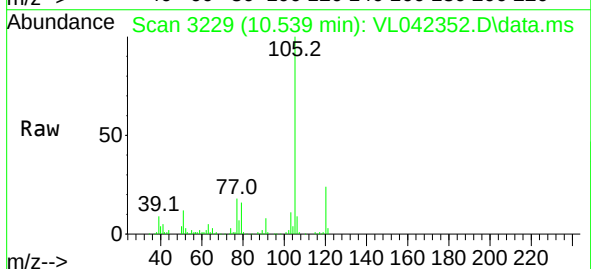
Manual Integrations
APPROVED

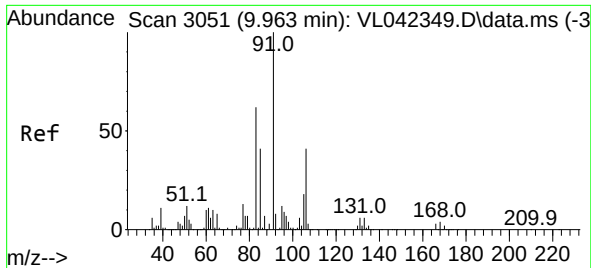
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

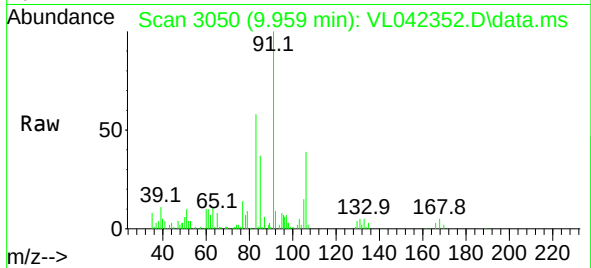
Tgt Ion:105 Resp: 40481
Ion Ratio Lower Upper
105 100
120 24.9 19.8 29.8





#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

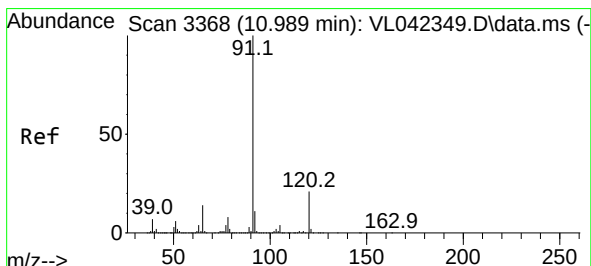
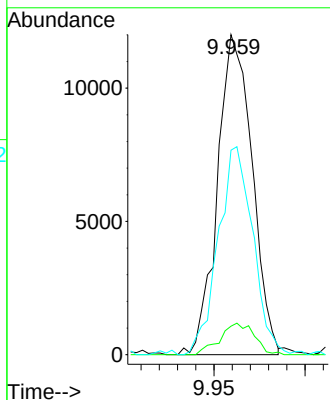
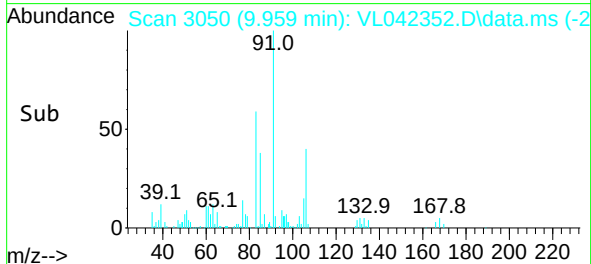
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



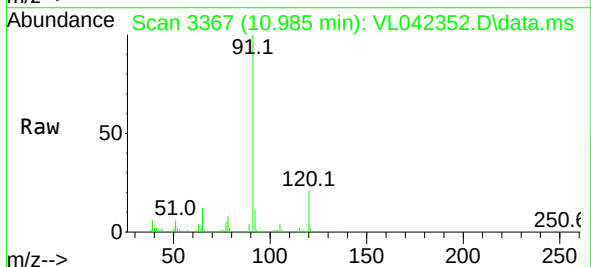
Tgt Ion: 83 Resp: 15920
Ion Ratio Lower Upper
83 100
131 9.8 4.5 13.7
85 65.6 32.4 97.0

Manual Integrations
APPROVED

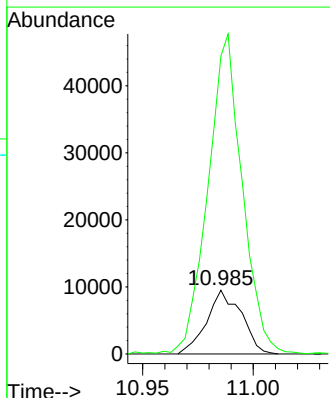
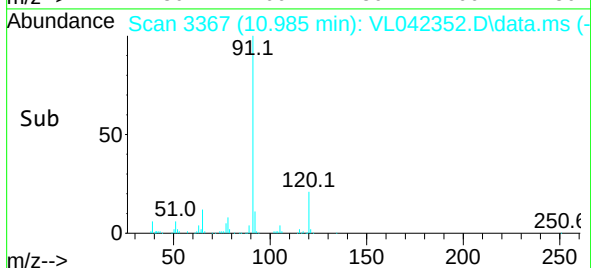
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

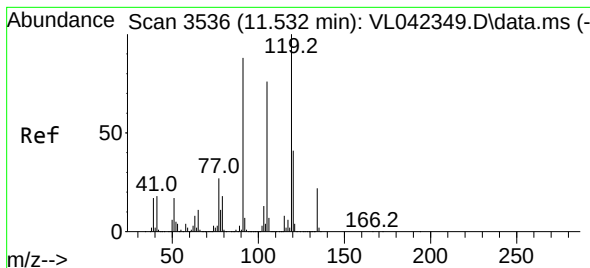


#64
n-propylbenzene
Concen: 0.544 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19



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 :

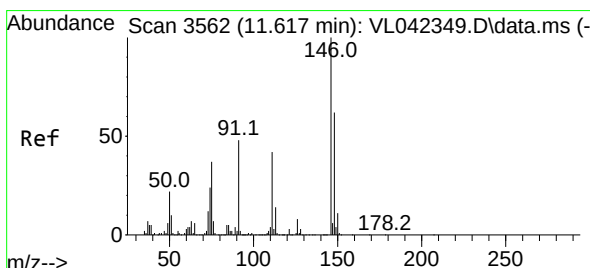
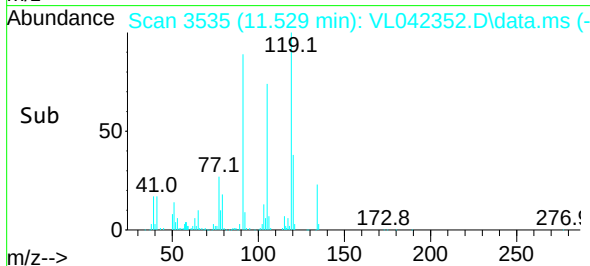
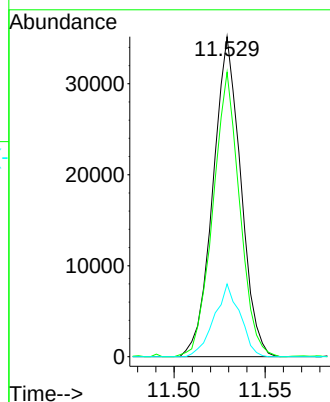
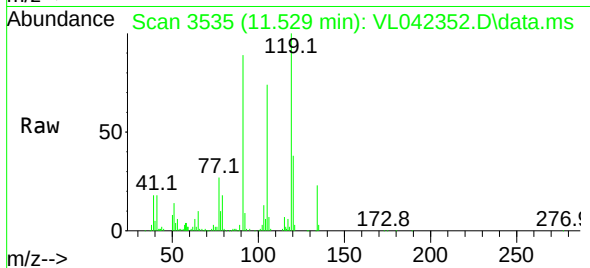
VSTDIC0.5

Tgt Ion:	119	Resp:	37294
Ion	Ratio	Lower	Upper
119	100		
91	85.8	74.6	111.8
134	21.1	18.8	28.2

Manual Integrations

APPROVED

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



#66

Benzyl Chloride

Concen: 0.506 ppbv

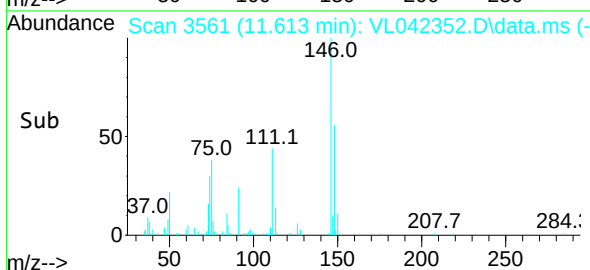
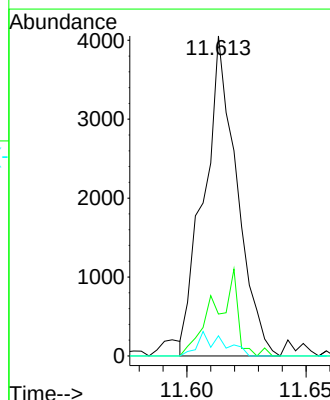
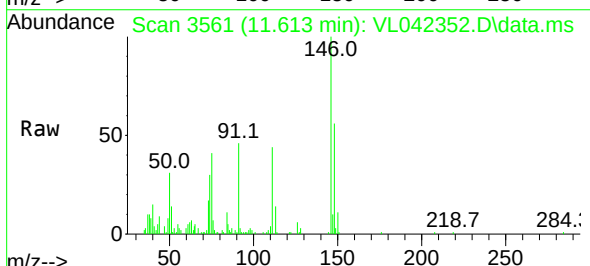
RT: 11.613 min Scan# 3561

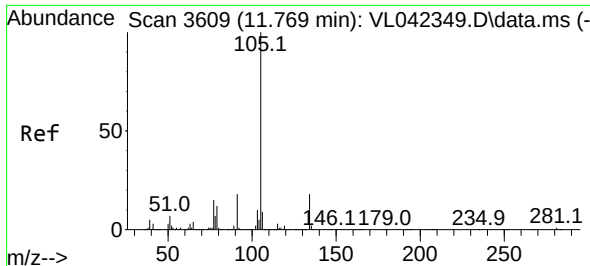
Delta R.T. -0.003 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Tgt Ion:	91	Resp:	3878
Ion	Ratio	Lower	Upper
91	100		
126	19.8	11.8	17.6#
128	5.8	4.5	6.7





#67

sec-Butylbenzene

Concen: 0.537 ppbv

RT: 11.765 min Scan# 30

Delta R.T. -0.003 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Instrument :

MSVOA_L

ClientSampleId :

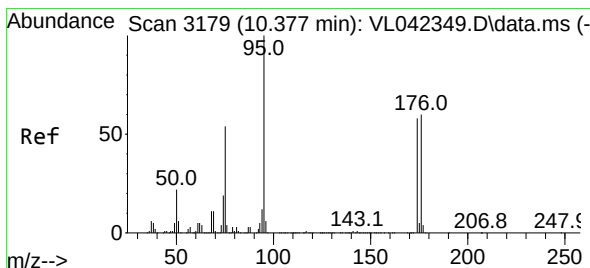
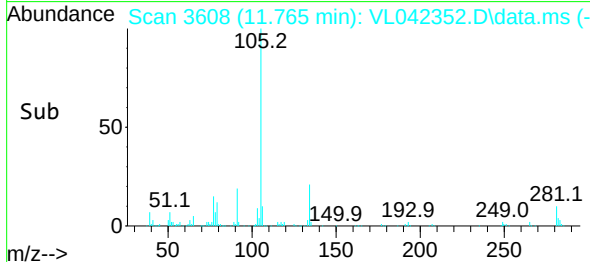
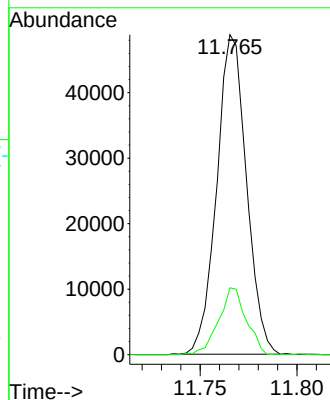
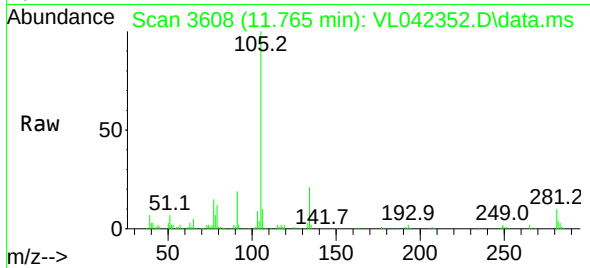
VSTDIC0.5

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

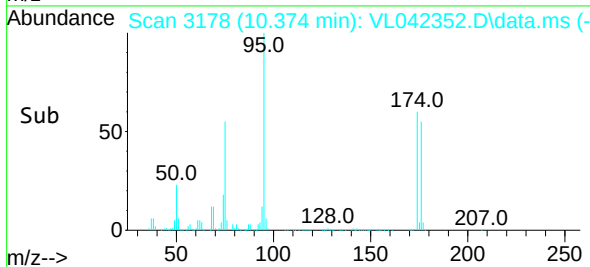
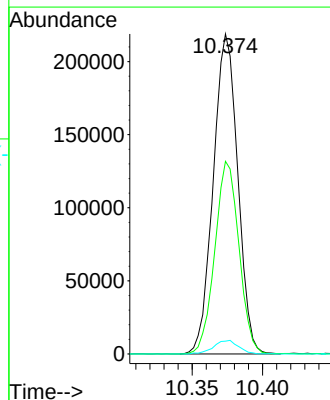
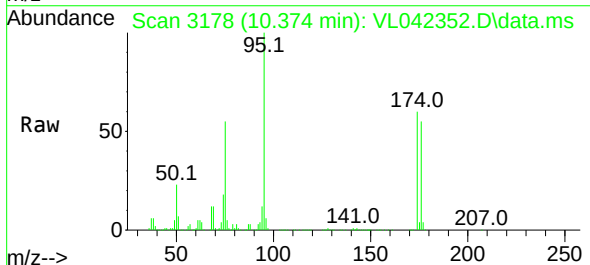
RT: 10.374 min Scan# 3178

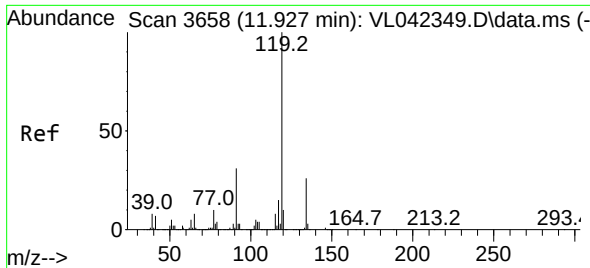
Delta R.T. -0.003 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

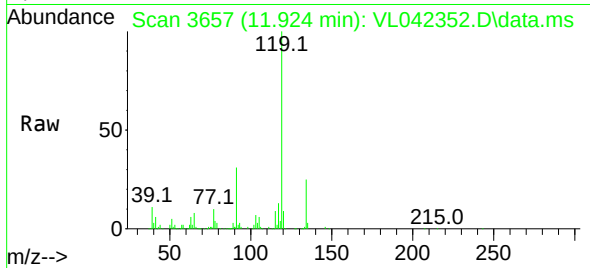
Tgt Ion:	95	Resp:	265161
Ion Ratio	Lower	Upper	
95	100		
174	59.4	48.5	72.7
175	4.3	3.7	5.5





#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

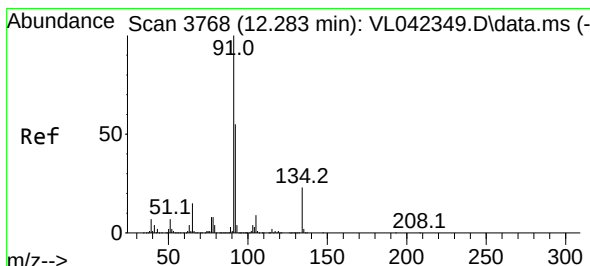
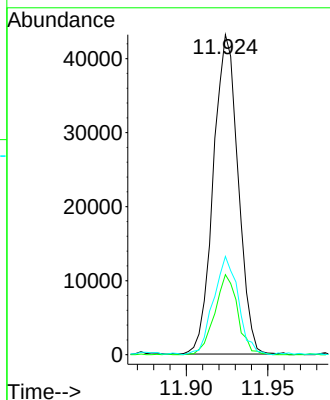
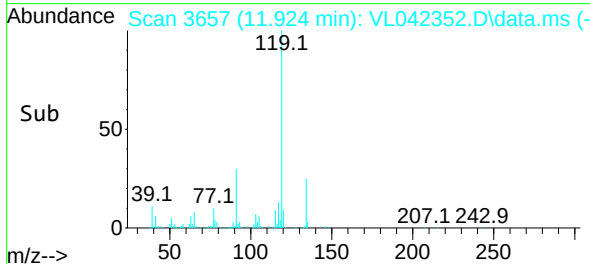
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



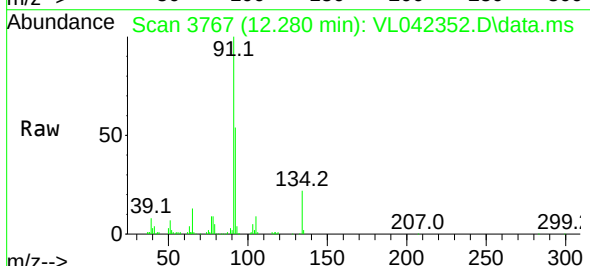
Tgt Ion:119 Resp: 45574
Ion Ratio Lower Upper
119 100
134 23.3 20.0 30.0
91 31.4 24.4 36.6

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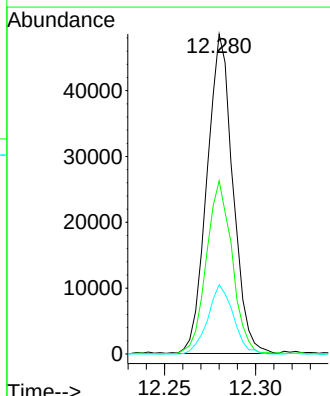
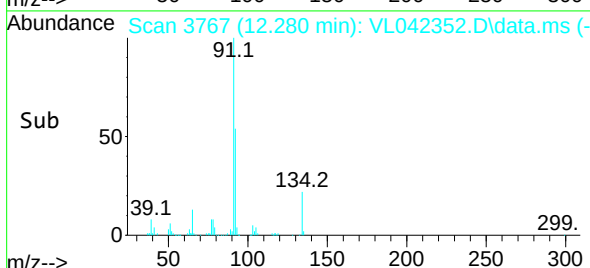
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

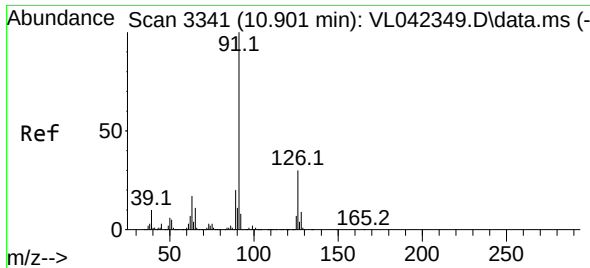


#70
n-Butylbenzene
Concen: 0.547 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19



Tgt Ion: 91 Resp: 48004
Ion Ratio Lower Upper
91 100
92 54.7 44.2 66.4
134 21.4 18.2 27.4





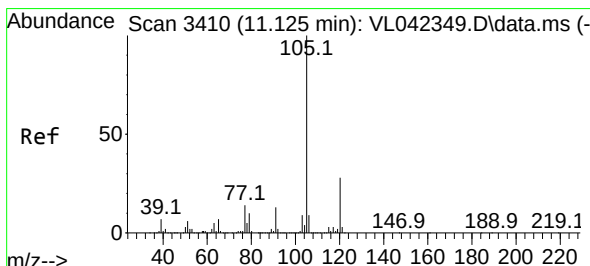
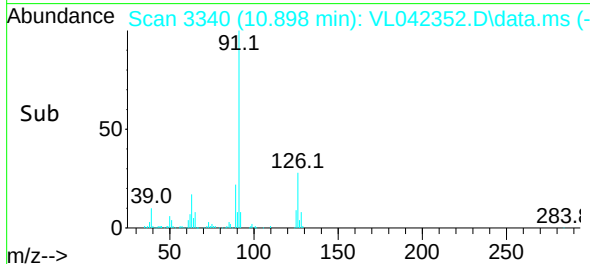
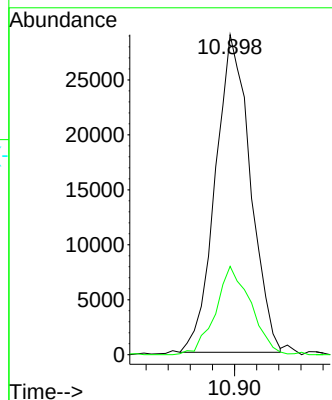
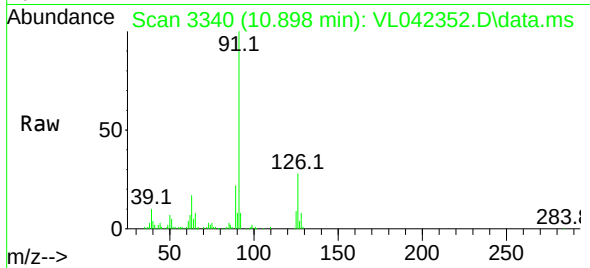
#71
2-Chlorotoluene
Concen: 0.533 ppbv
RT: 10.898 min Scan# 3170
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 91 Resp: 3170
Ion Ratio Lower Upper
91 100
126 28.3 11.4 45.4

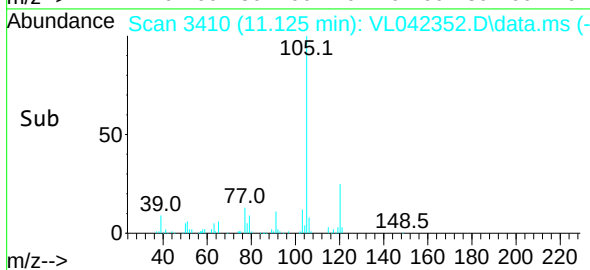
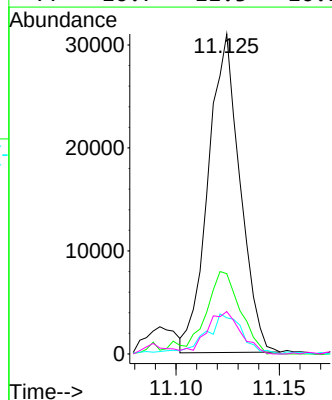
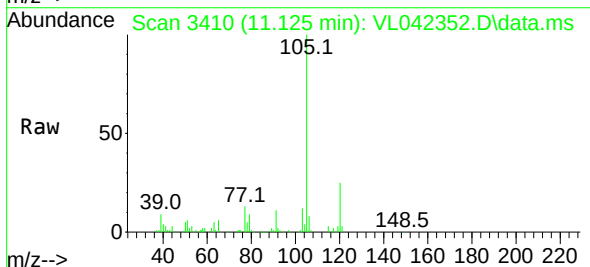
Manual Integrations
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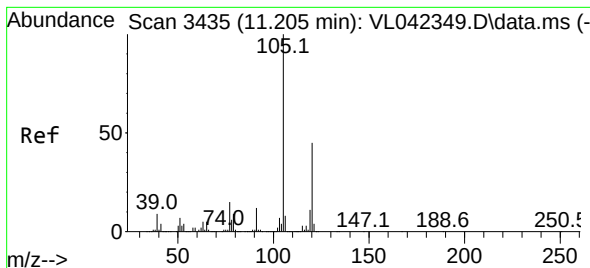
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

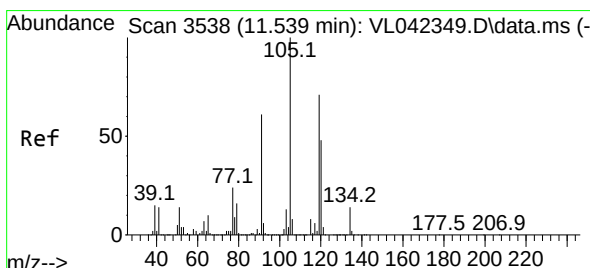
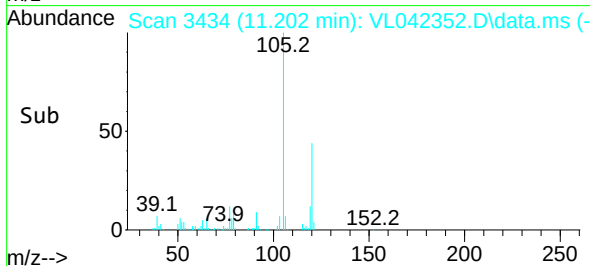
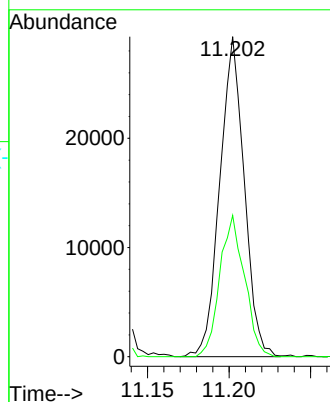
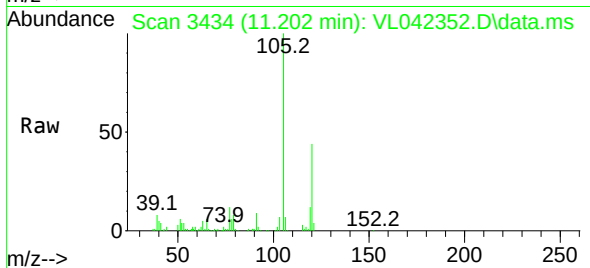
ClientSampleId :

VSTDIC0.5

Tgt Ion:105 Resp: 30464
 Ion Ratio Lower Upper
 105 100
 120 44.1 35.6 53.4

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



#74

1,2,4-Trimethylbenzene

Concen: 0.579 ppbv

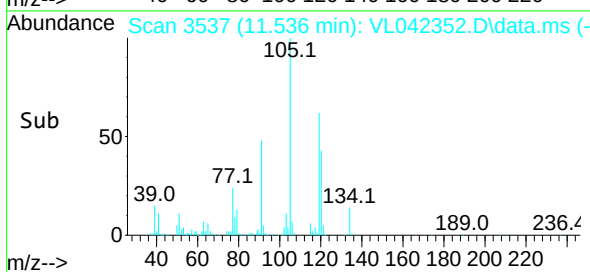
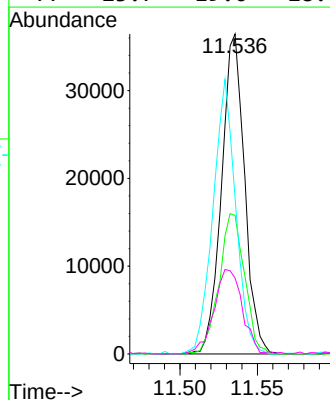
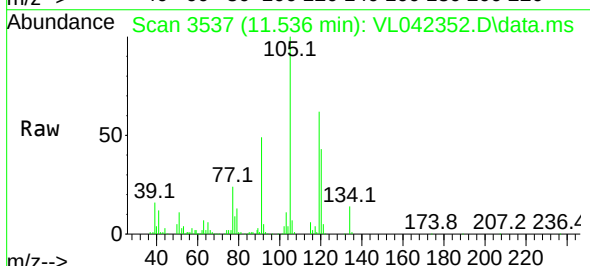
RT: 11.536 min Scan# 3537

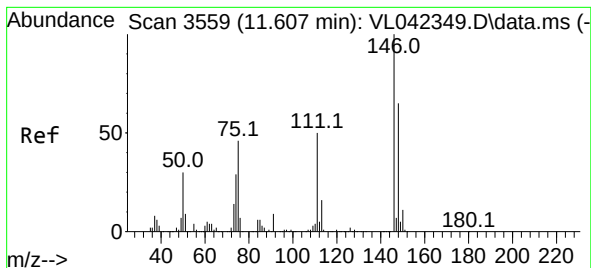
Delta R.T. -0.003 min

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





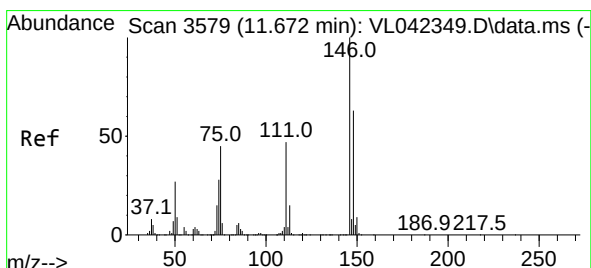
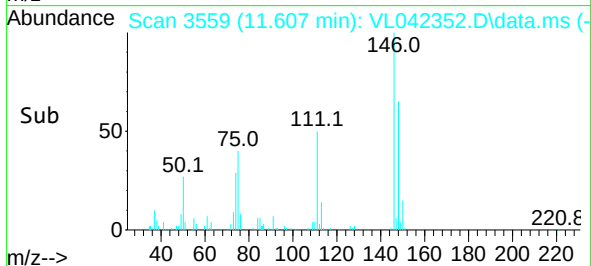
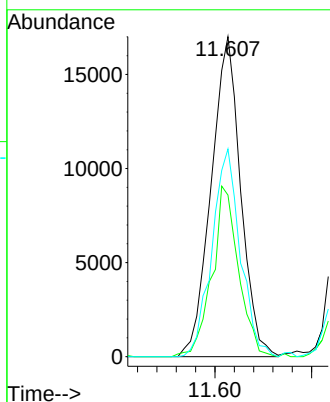
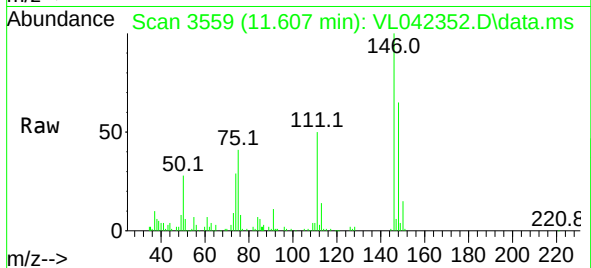
#75
1,3-Dichlorobenzene
Concen: 0.531 ppbv
RT: 11.607 min Scan# 3559
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:146 Resp: 18000
Ion Ratio Lower Upper
146 100
111 47.9 24.3 72.8
148 62.9 31.6 94.8

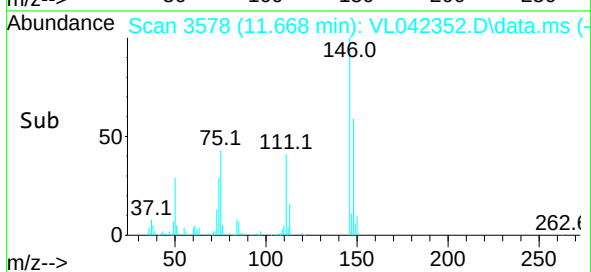
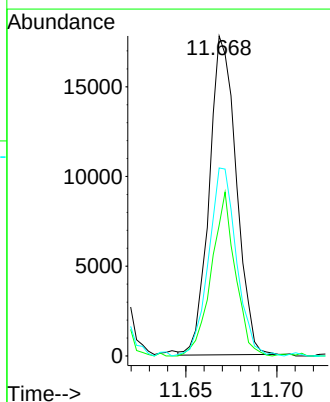
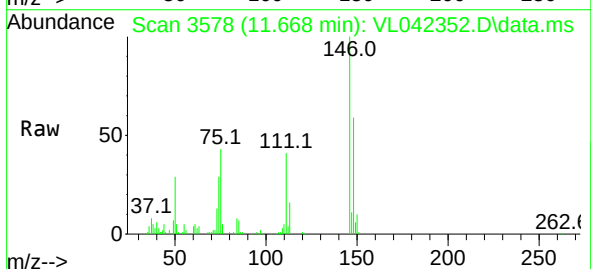
Manual Integrations
APPROVED

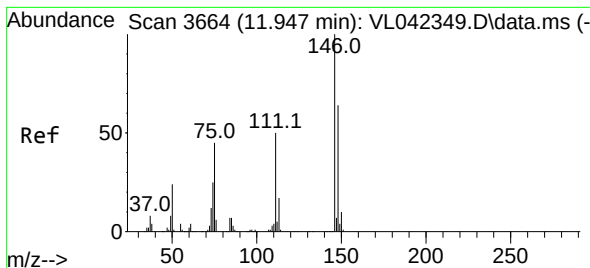
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#76
1,4-Dichlorobenzene
Concen: 0.537 ppbv
RT: 11.668 min Scan# 3578
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:146 Resp: 18300
Ion Ratio Lower Upper
146 100
111 45.9 24.2 72.6
148 61.2 32.1 96.5





#77

1,2-Dichlorobenzene

Concen: 0.530 ppbv

RT: 11.947 min Scan# 30

Delta R.T. -0.000 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Instrument :

MSVOA_L

ClientSampleId :

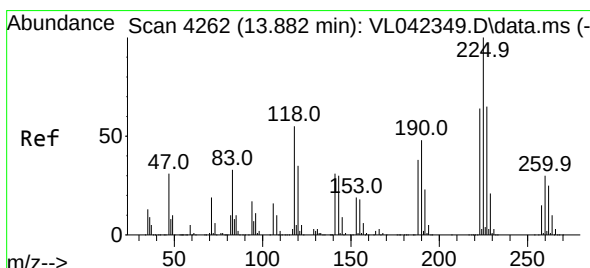
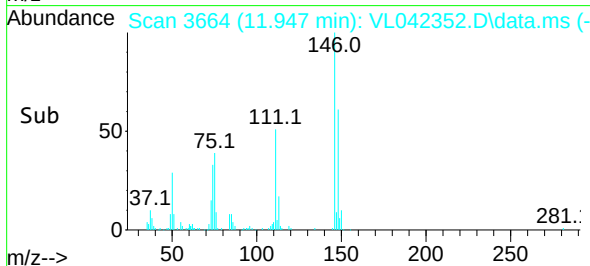
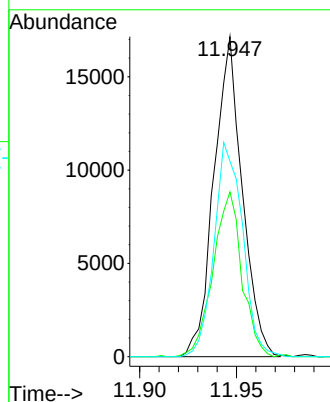
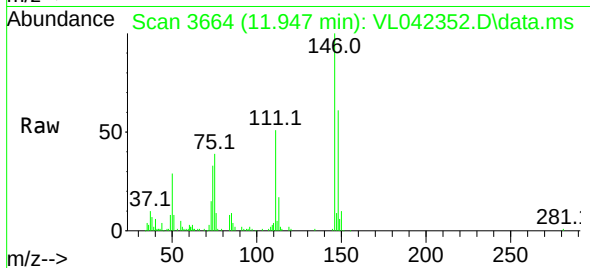
VSTDICC0.5

Tgt Ion:	146	Resp:	17440
Ion Ratio	Lower	Upper	
146	100		
111	52.6	25.3	75.9
148	67.5	31.5	94.5

Manual Integrations

APPROVED

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



#78

Hexachloro-1,3-Butadiene

Concen: 0.562 ppbv

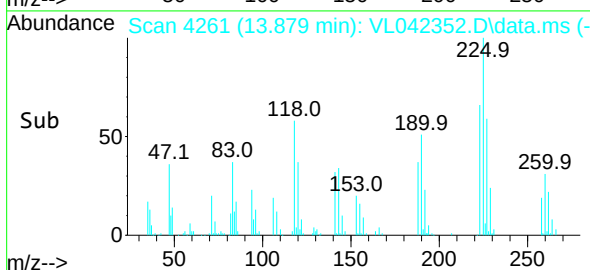
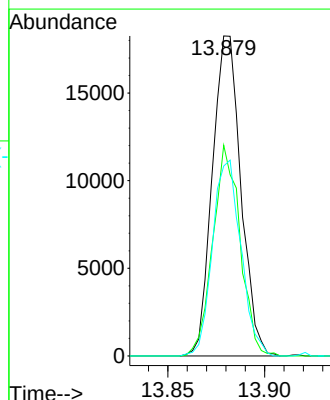
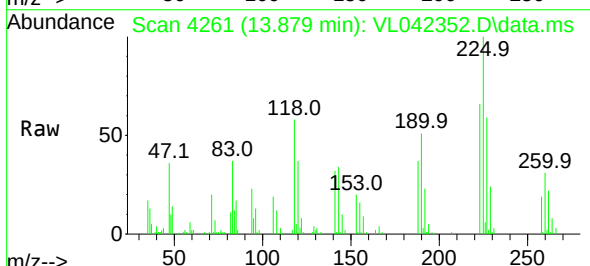
RT: 13.879 min Scan# 4261

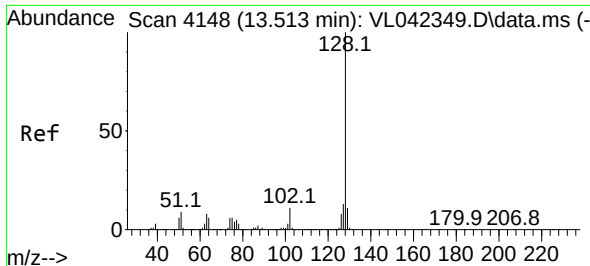
Delta R.T. -0.003 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

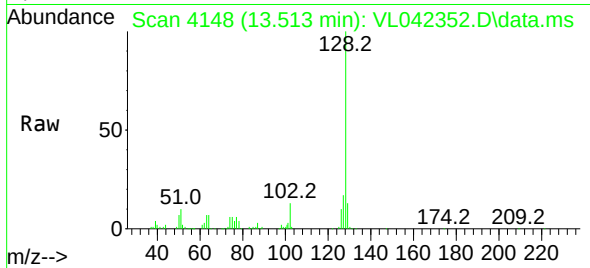
Tgt Ion:	225	Resp:	18705
Ion Ratio	Lower	Upper	
225	100		
223	62.8	50.3	75.5
227	61.1	51.5	77.3





#79
Naphthalene
Concen: 0.494 ppbv
RT: 13.513 min Scan# 4148
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

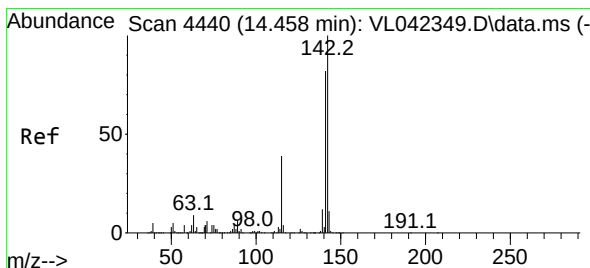
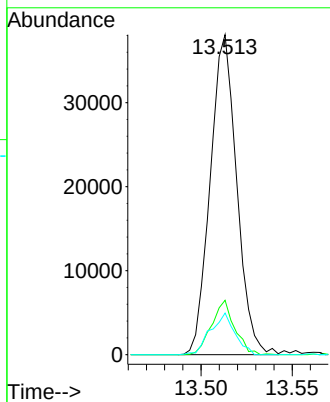
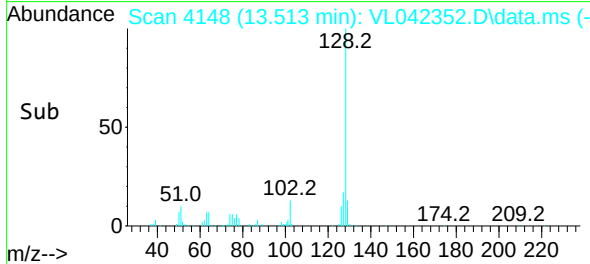
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



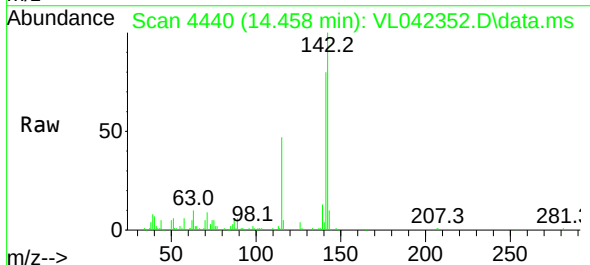
Tgt Ion:128 Resp: 3852
Ion Ratio Lower Upper
128 100
127 17.0 10.6 15.8
129 13.0 8.6 12.8

Manual Integrations
APPROVED

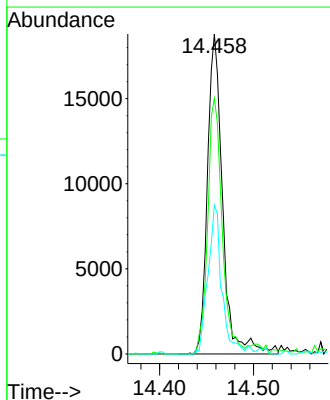
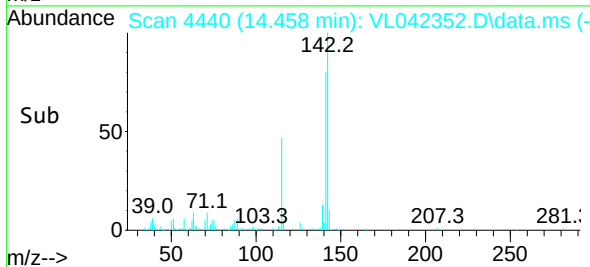
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

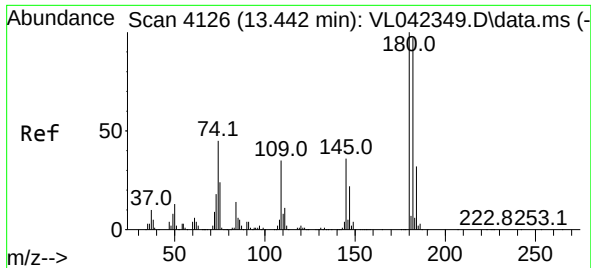


#80
Naphthalene,2-methyl-
Concen: 0.475 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19



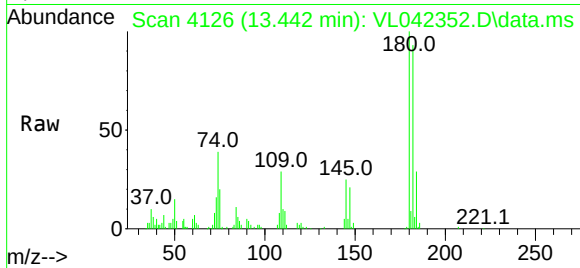
Tgt Ion:142 Resp: 21076
Ion Ratio Lower Upper
142 100
141 79.2 66.8 100.2
115 44.1 33.4 50.2





#81
 1,2,4-Trichlorobenzene
 Concen: 0.493 ppbv
 RT: 13.442 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VL042352.D
 Acq: 17 Apr 2025 11:19

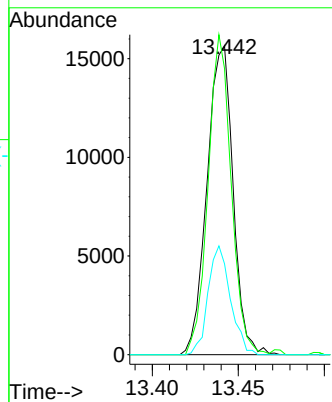
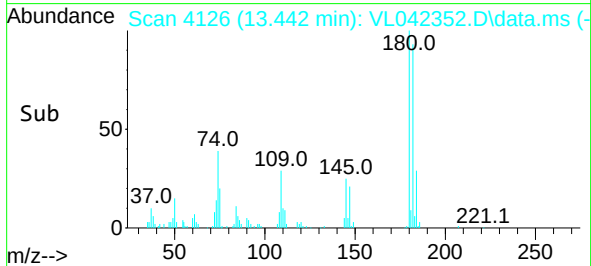
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5



Tgt Ion:180 Resp: 16504
 Ion Ratio Lower Upper
 180 100
 182 92.4 76.8 115.2
 184 30.2 24.6 36.8

Manual Integrations
 APPROVED

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042353.D
Acq On : 17 Apr 2025 11:50
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

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

Quant Time: Apr 18 01:29:39 2025

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

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

QLast Update : Fri Apr 18 01:24:29 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.791	49	119461	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	350484	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	315004	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.381	95	256417	9.906	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.100%
Target Compounds						
5) Vinyl Chloride	1.580	62	1088	0.120	ppbv #	74
32) 1,1,1-Trichloroethane	3.367	97	3393m	0.115	ppbv	
35) Carbon Tetrachloride	3.771	117	3204	0.101	ppbv #	94
38) Trichloroethene	4.551	130	1771m	0.107	ppbv	
52) Tetrachloroethene	8.222	164	1583m	0.108	ppbv	
54) 1,2-Dibromoethane	7.662	107	2177m	0.106	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.966	83	3706m	0.113	ppbv	
79) Naphthalene	13.517	128	7664	0.100	ppbv #	92

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

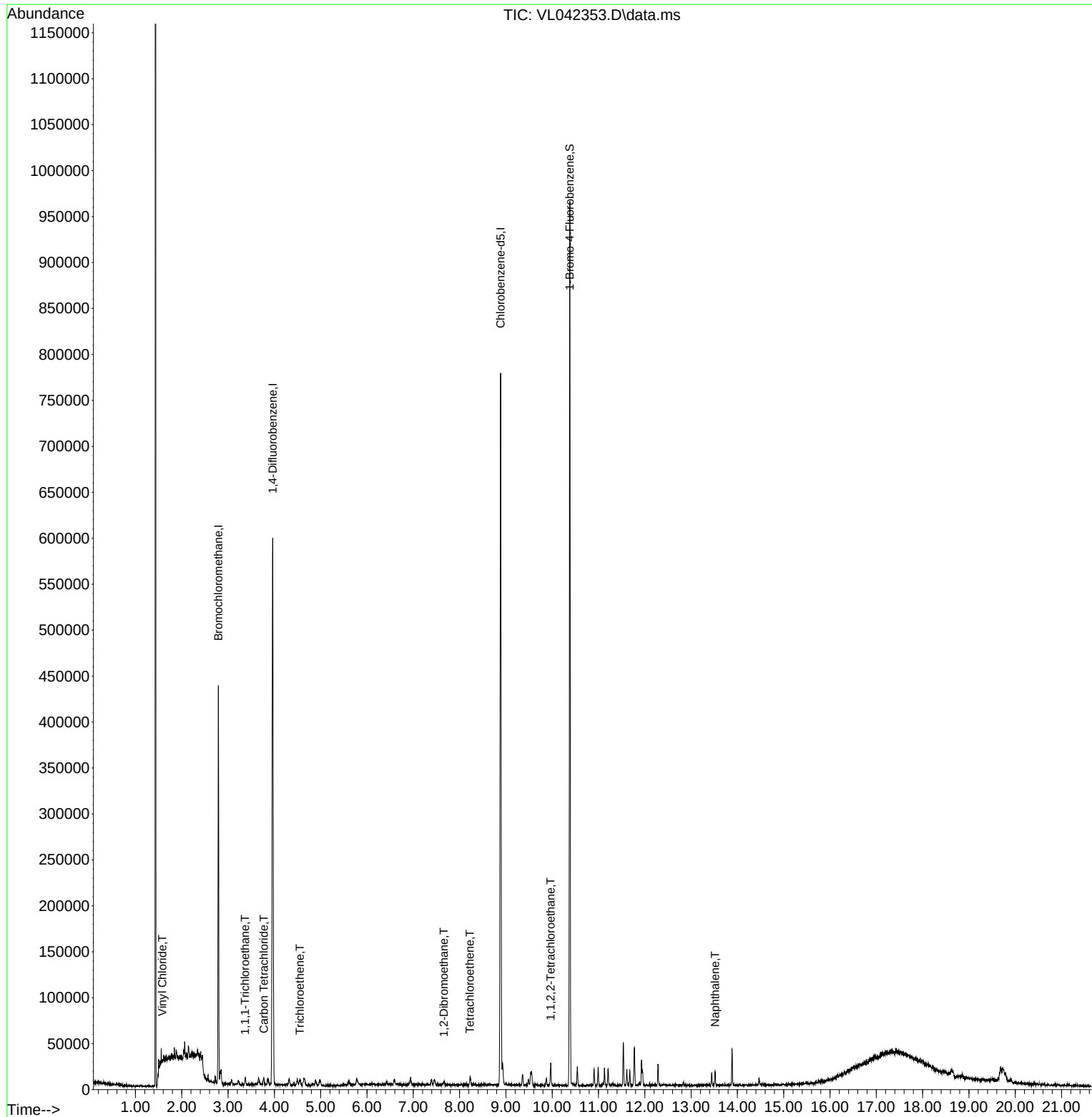
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042353.D
Acq On : 17 Apr 2025 11:50
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

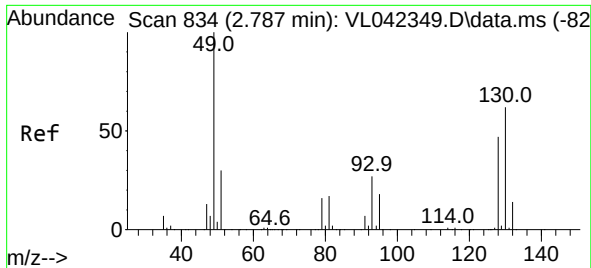
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

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

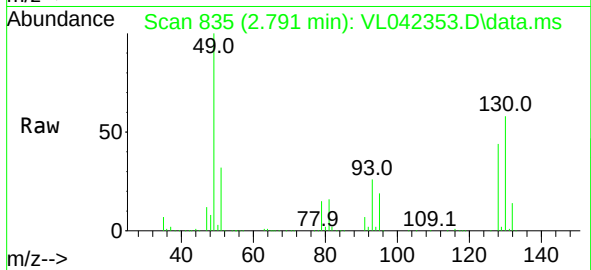
Quant Time: Apr 18 01:29:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration





#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

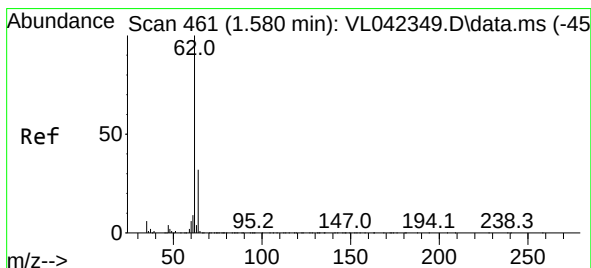
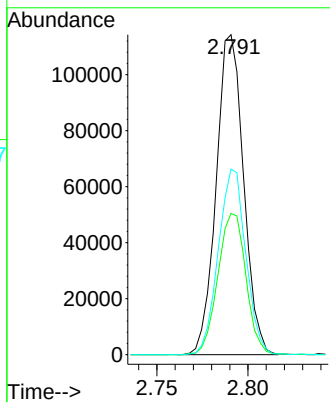
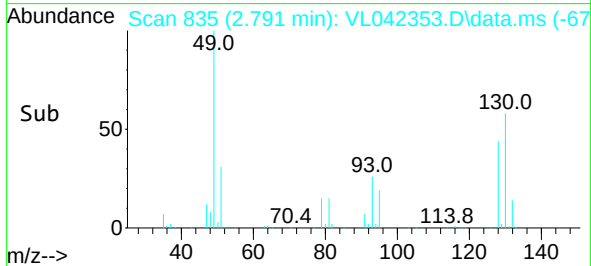
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1



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

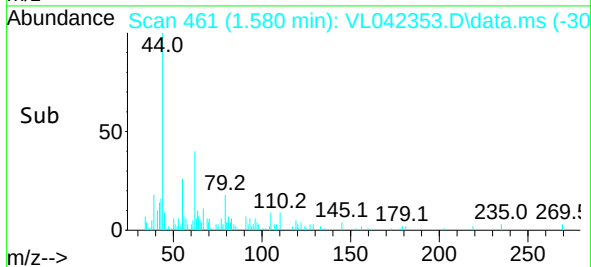
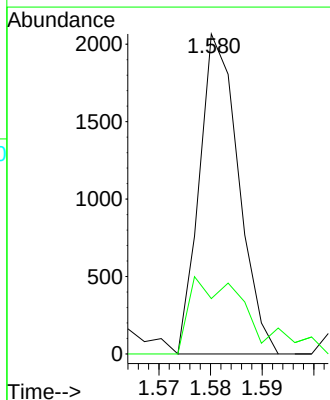
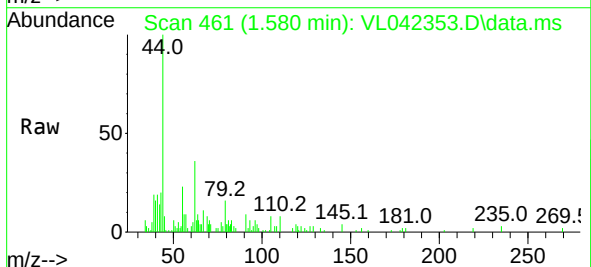
Manual Integrations
APPROVED

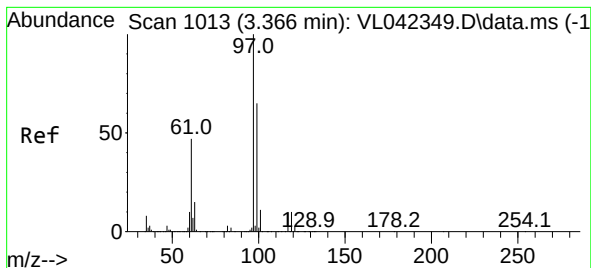
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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#





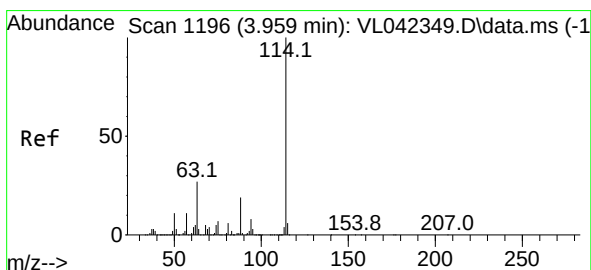
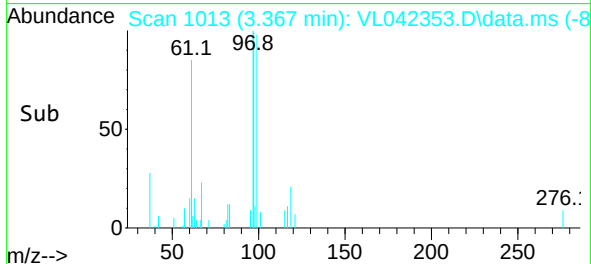
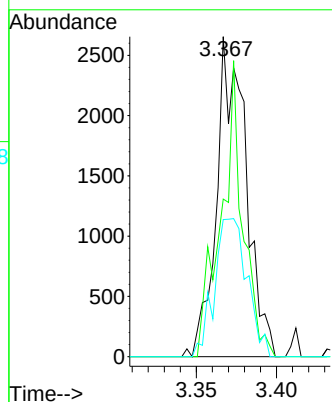
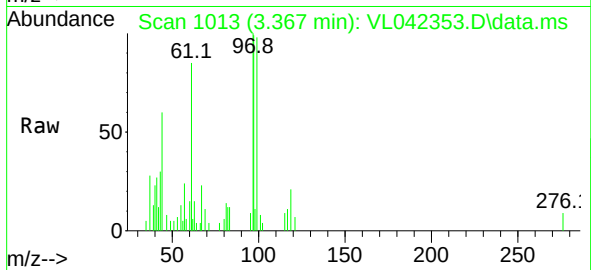
#32
1,1,1-Trichloroethane
Concen: 0.115 ppbv m
RT: 3.367 min Scan# 1013
Delta R.T. 0.000 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

Tgt Ion	Ratio	Lower	Upper
97	100		
99	68.2	51.0	76.4
61	47.9	38.8	58.2

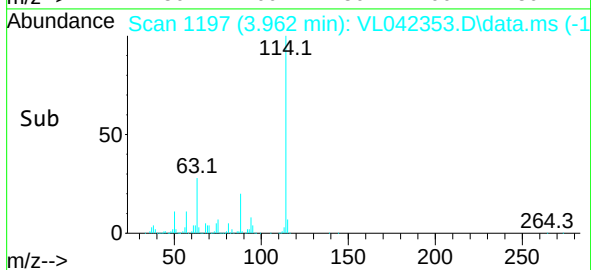
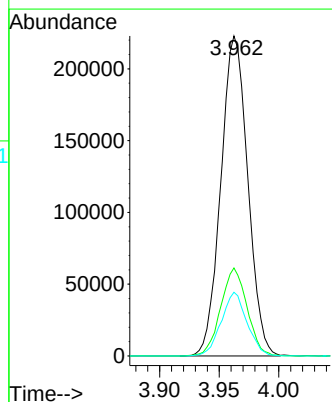
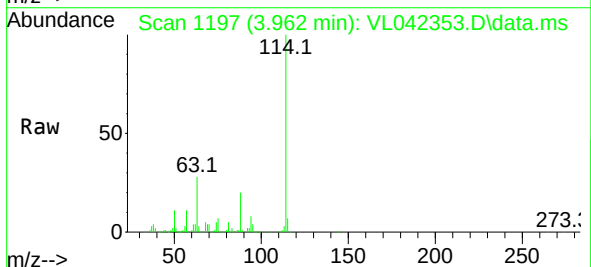
Manual Integrations
APPROVED

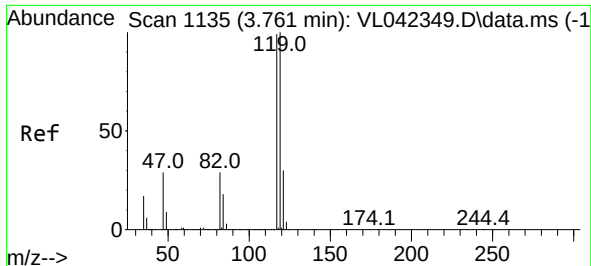
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

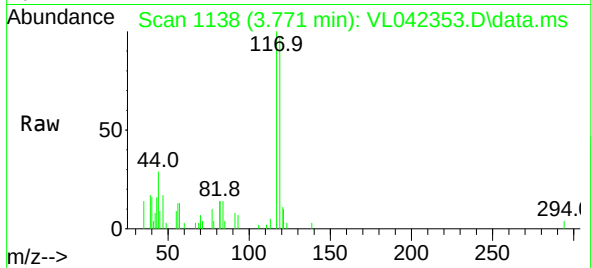
Tgt Ion	Ratio	Lower	Upper
114	100		
63	26.9	21.8	32.6
88	19.1	15.5	23.3





#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

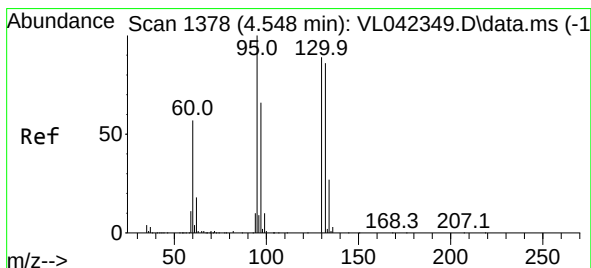
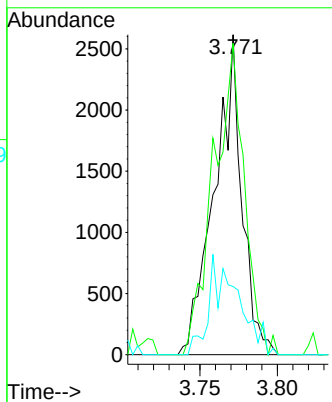
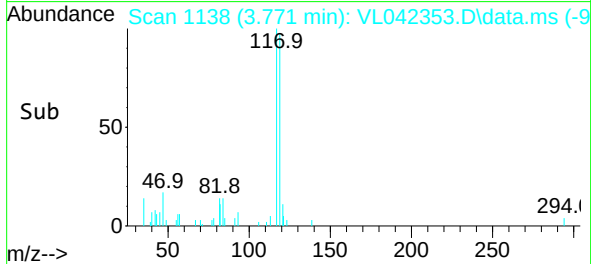
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1



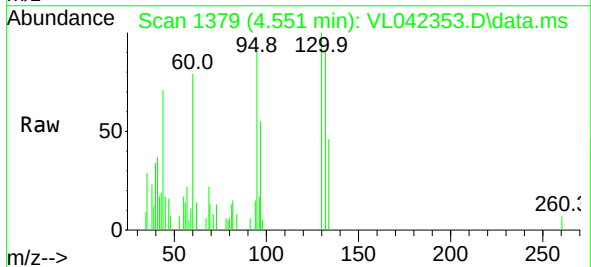
Tgt Ion:117 Resp: 3204
Ion Ratio Lower Upper
117 100
119 97.3 80.5 120.7
121 21.3 24.2 36.2

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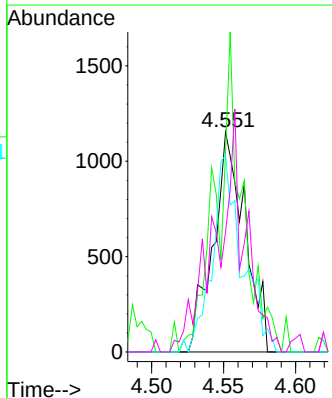
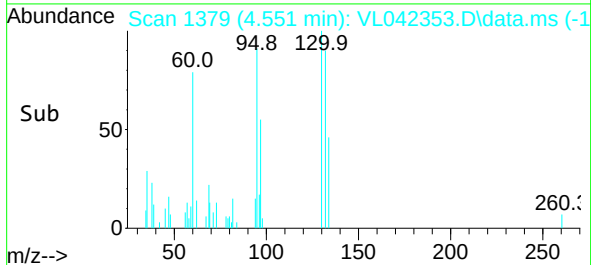
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

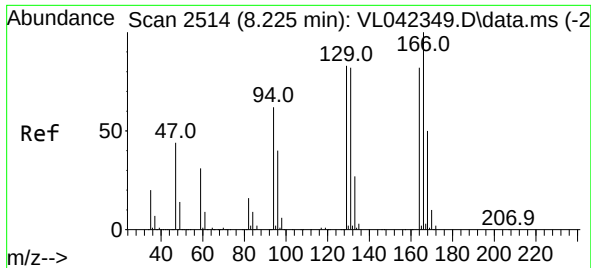


#38
Trichloroethene
Concen: 0.107 ppbv m
RT: 4.551 min Scan# 1379
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50



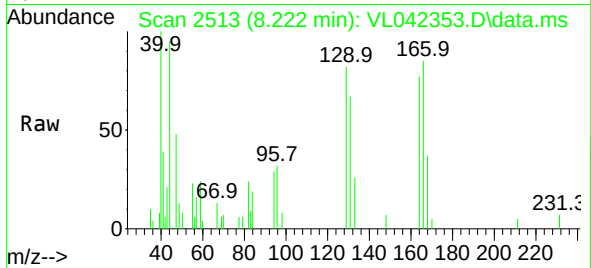
Tgt Ion:130 Resp: 1771
Ion Ratio Lower Upper
130 100
95 90.9 89.8 134.6
132 89.6 77.7 116.5
97 54.7 59.4 89.2





#52
Tetrachloroethene
Concen: 0.108 ppbv m
RT: 8.222 min Scan# 2514
Delta R.T. -0.003 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

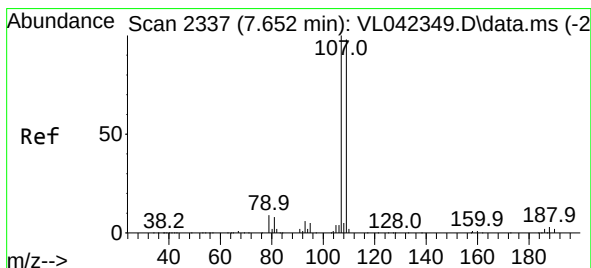
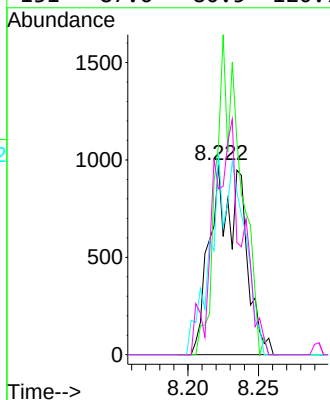
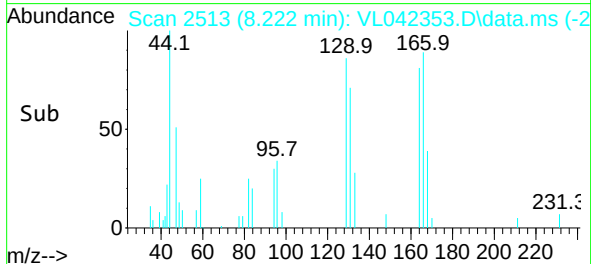
Instrument : MSVOA_1
ClientSampleId : VSTDIC0.1



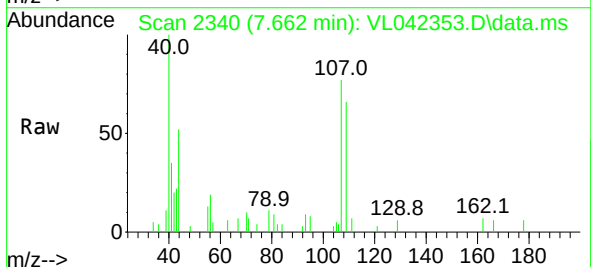
Tgt Ion:164 Resp: 158
Ion Ratio Lower Upper
164 100
166 110.6 98.2 147.2
129 106.5 81.8 122.8
131 87.6 80.5 120.7

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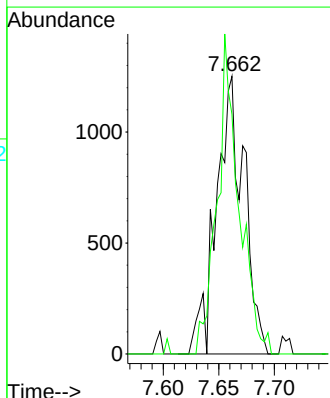
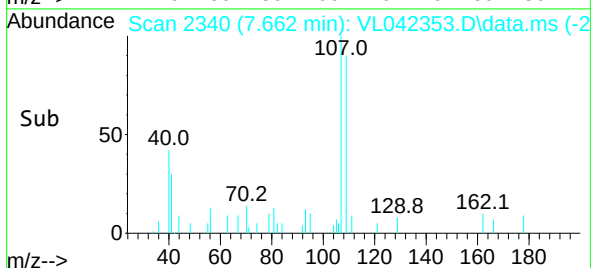
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

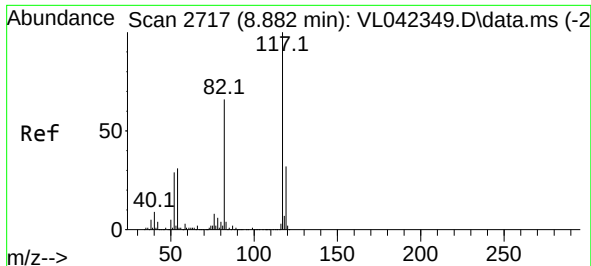


#54
1,2-Dibromoethane
Concen: 0.106 ppbv m
RT: 7.662 min Scan# 2340
Delta R.T. 0.010 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50



Tgt Ion:107 Resp: 2177
Ion Ratio Lower Upper
107 100
109 86.3 78.2 117.4





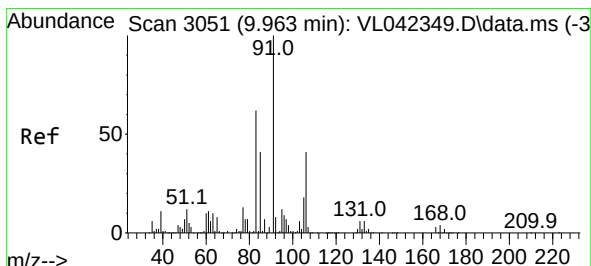
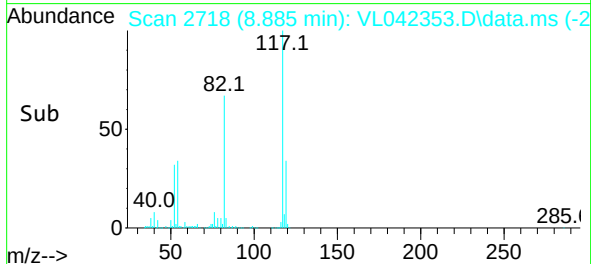
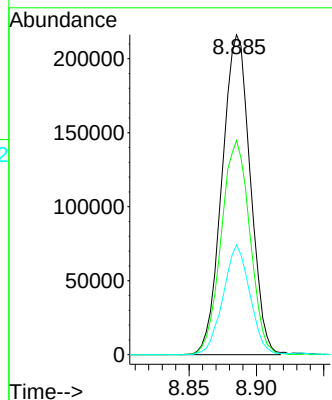
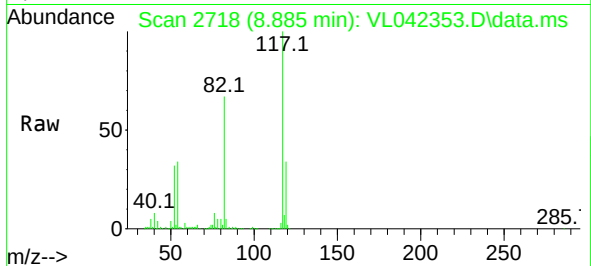
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 21
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

Tgt Ion:117 Resp: 315004
Ion Ratio Lower Upper
117 100
82 68.1 57.8 86.6
119 33.0 25.2 37.8

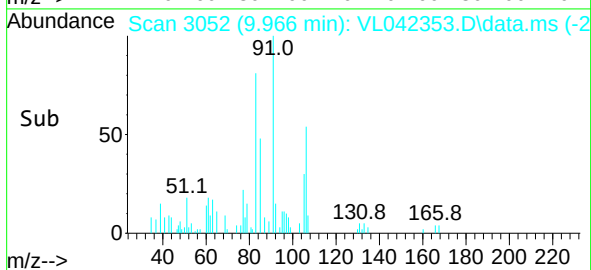
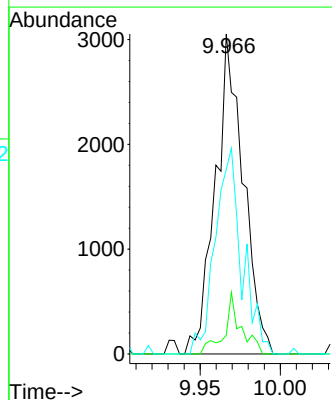
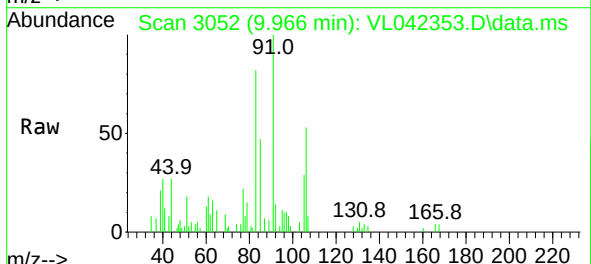
Manual Integrations
APPROVED

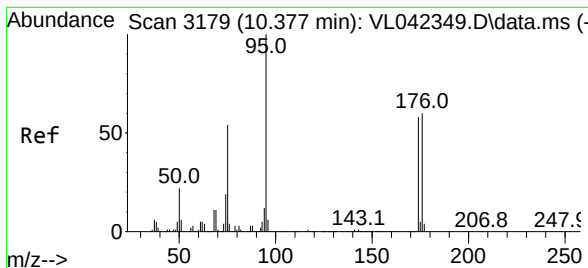
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

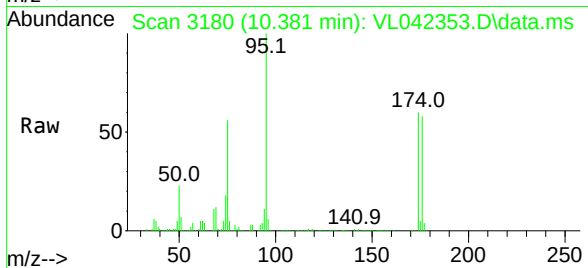
Tgt Ion: 83 Resp: 3706
Ion Ratio Lower Upper
83 100
131 11.2 4.5 13.7
85 61.7 32.4 97.0





#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

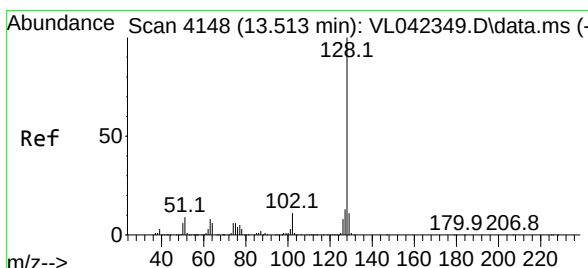
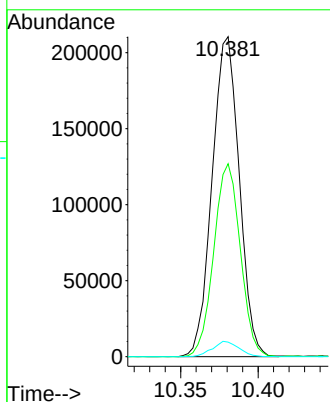
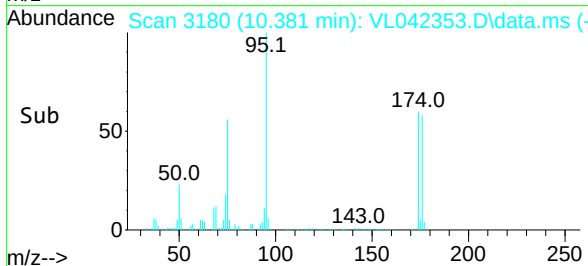
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1



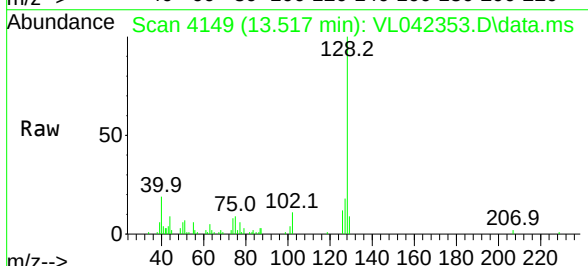
Tgt Ion: 95 Resp: 25641
Ion Ratio Lower Upper
95 100
174 59.3 48.5 72.7
175 4.7 3.7 5.5

Manual Integrations
APPROVED

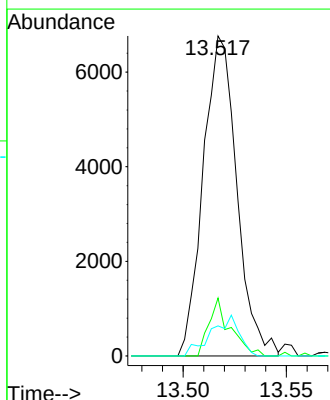
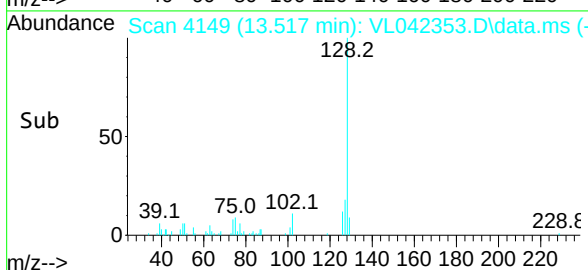
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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 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)

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

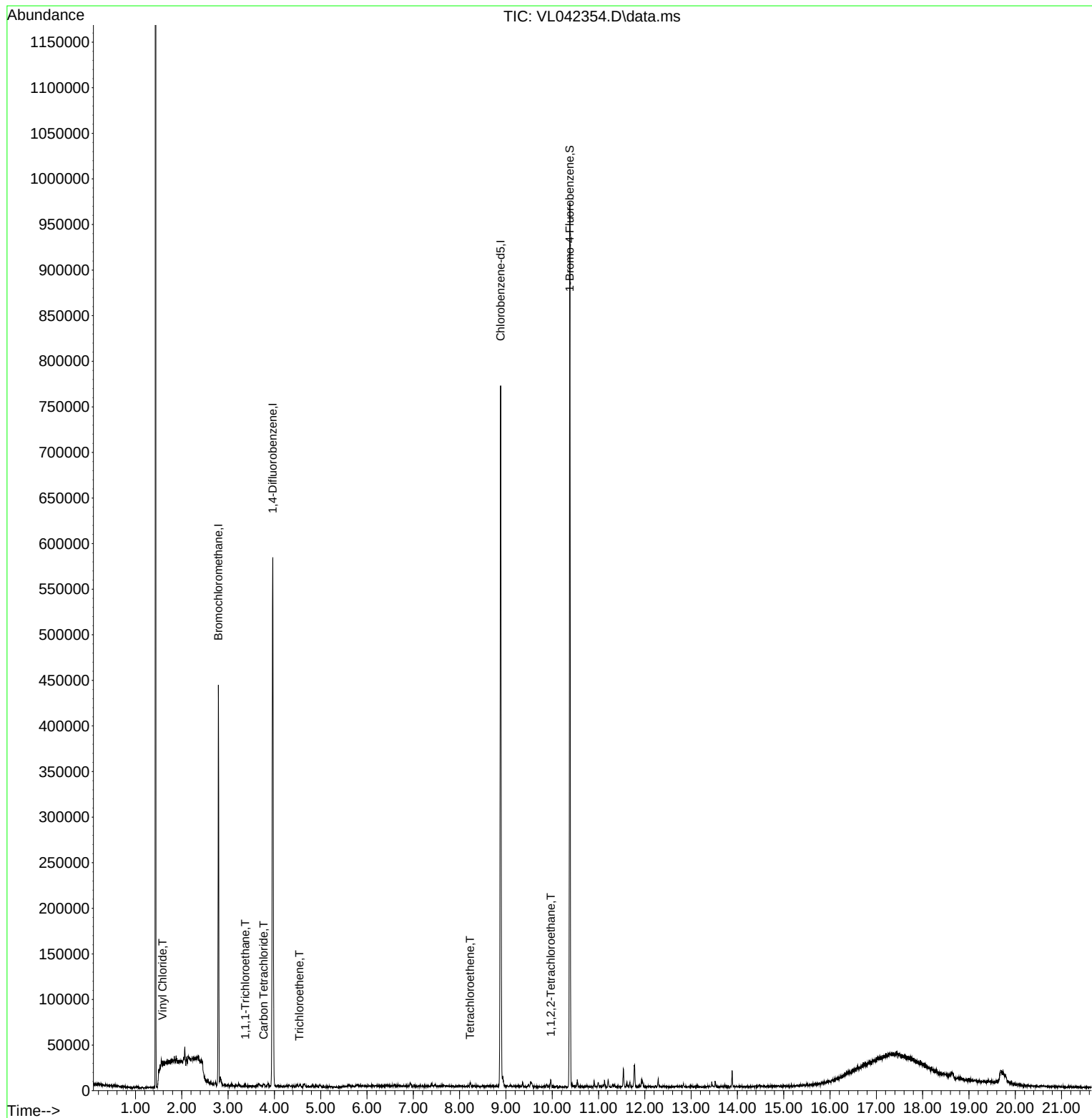
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Data File : VL042354.D
Acq On : 17 Apr 2025 12:22
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

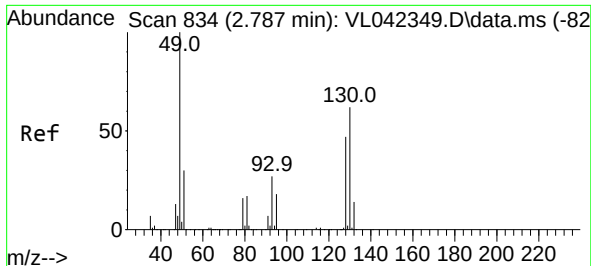
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

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

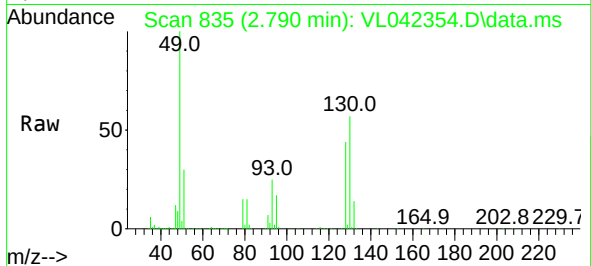
Reviewed By : Semsettin Yesilyurt 04/18/2025
Supervised By : Mahesh Dadoda 04/18/2025





#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

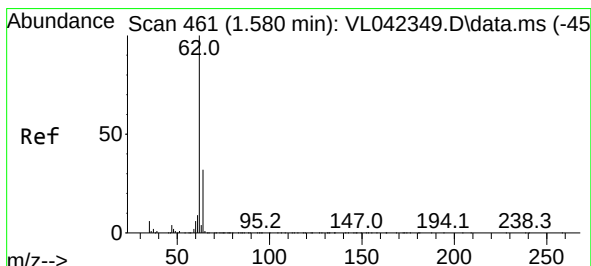
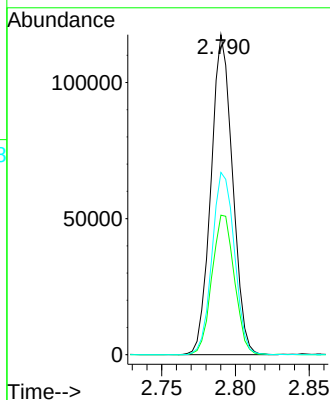
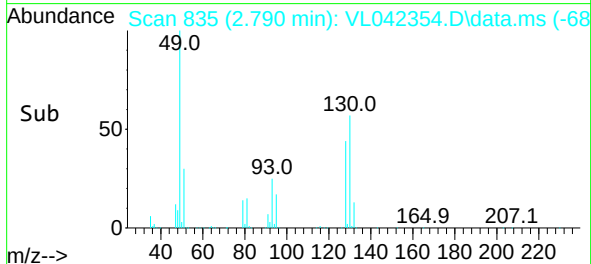
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03



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

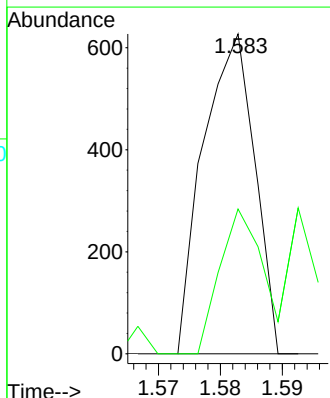
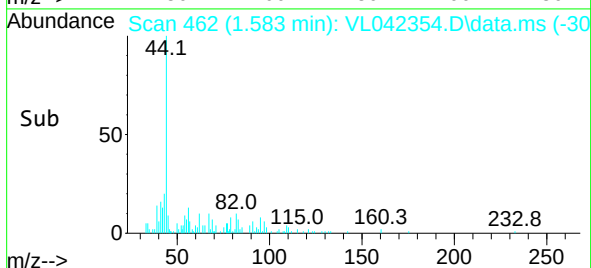
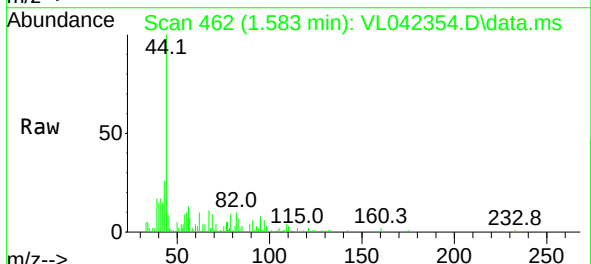
Manual Integrations
APPROVED

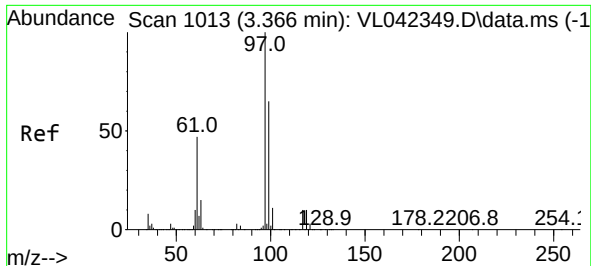
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

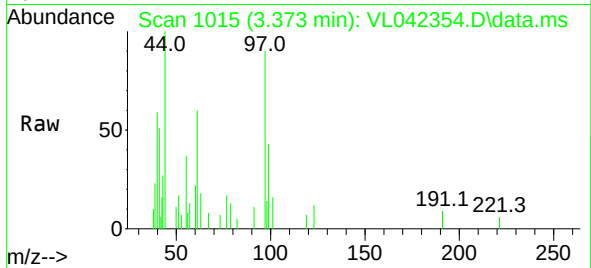
Tgt Ion: 62 Resp: 361
Ion Ratio Lower Upper
62 100
64 45.3 25.4 38.0#





#32
1,1,1-Trichloroethane
Concen: 0.038 ppbv
RT: 3.373 min Scan# 1015
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

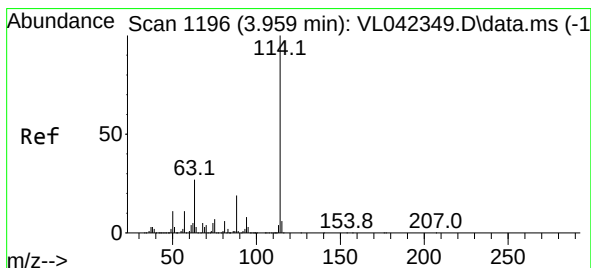
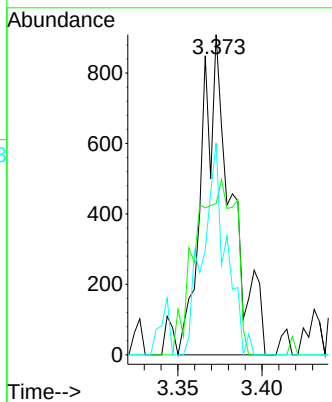
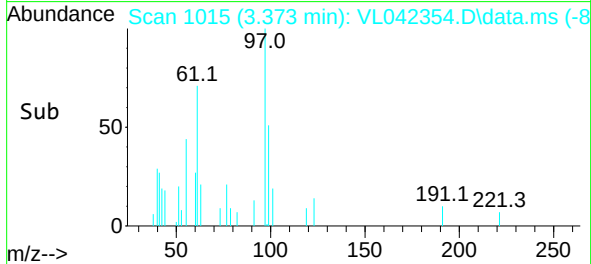
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03



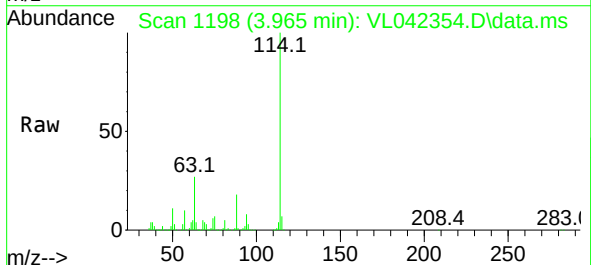
Tgt Ion: 97 Resp: 1120
Ion Ratio Lower Upper
97 100
99 74.4 51.0 76.4
61 56.9 38.8 58.2

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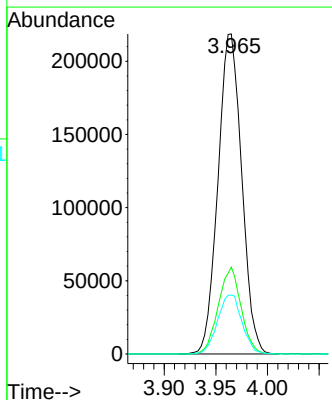
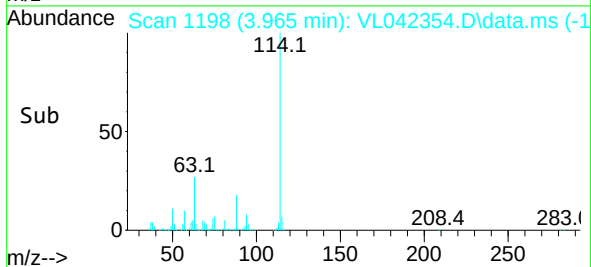
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

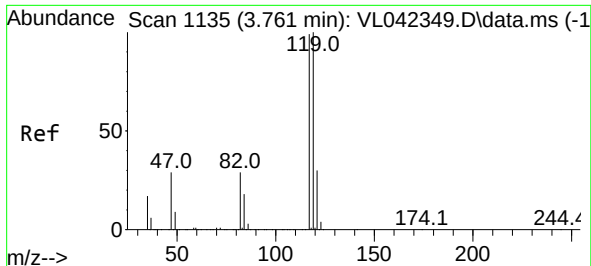


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 1198
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22



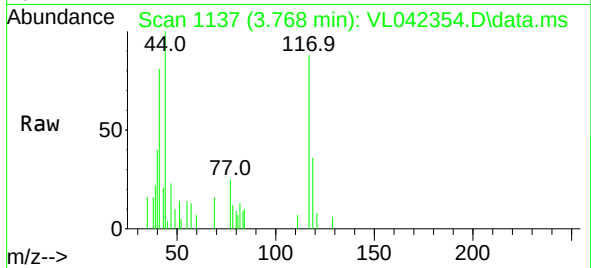
Tgt Ion:114 Resp: 349264
Ion Ratio Lower Upper
114 100
63 26.0 21.8 32.6
88 19.0 15.5 23.3





#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

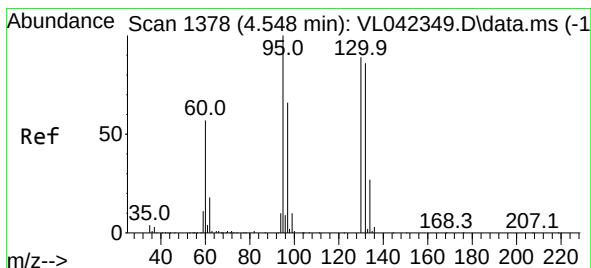
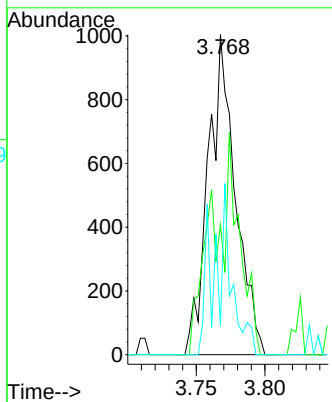
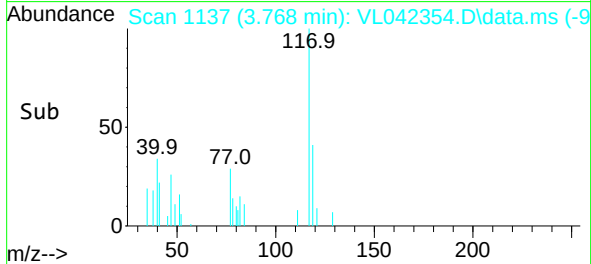
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03



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

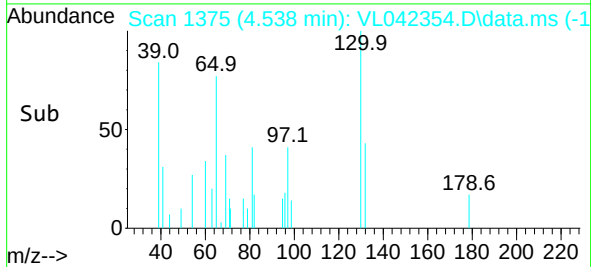
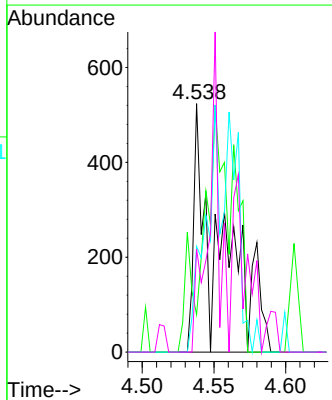
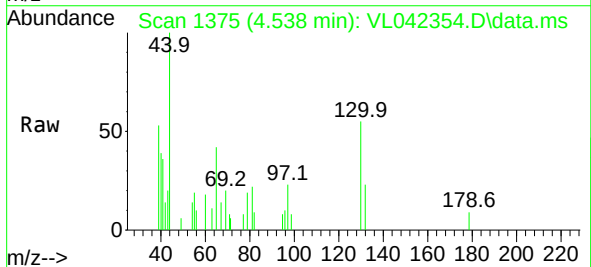
Manual Integrations
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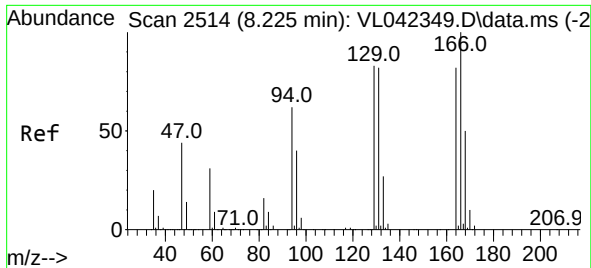
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

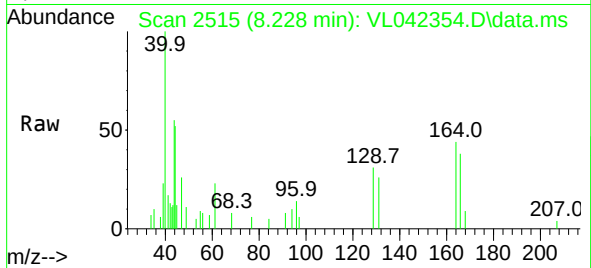
Tgt Ion:130 Resp: 674
Ion Ratio Lower Upper
130 100
95 15.1 89.8 134.6#
132 42.6 77.7 116.5#
97 41.4 59.4 89.2#





#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

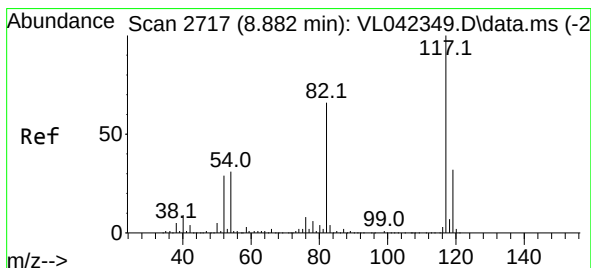
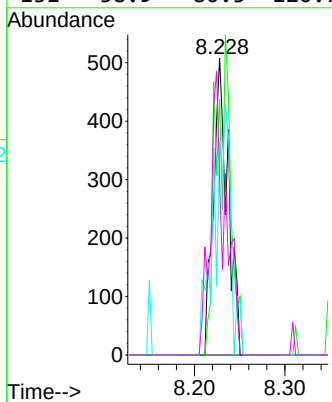
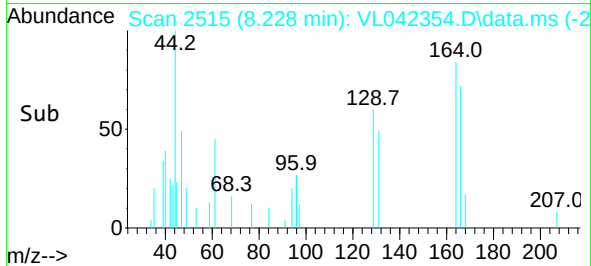
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03



Tgt Ion:164 Resp: 569
Ion Ratio Lower Upper
164 100
166 86.2 98.2 147.2
129 71.7 81.8 122.8
131 58.9 80.5 120.7

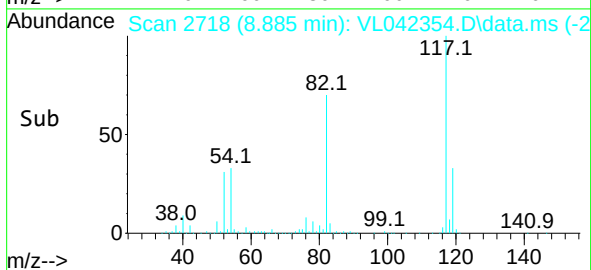
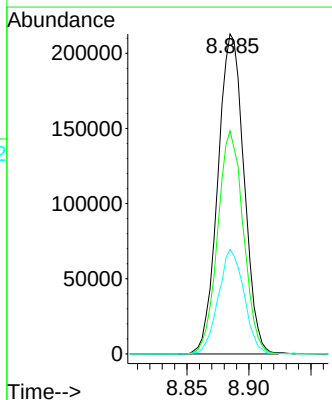
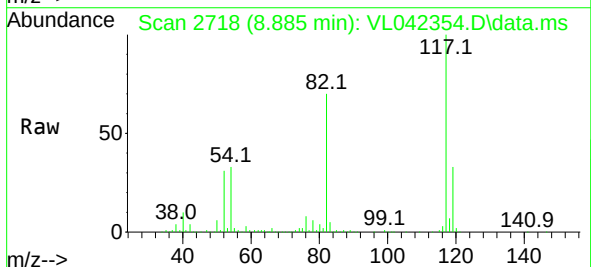
Manual Integrations
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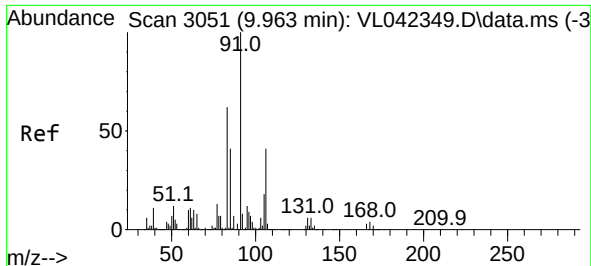
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2718
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion:117 Resp: 312999
Ion Ratio Lower Upper
117 100
82 68.5 57.8 86.6
119 32.2 25.2 37.8





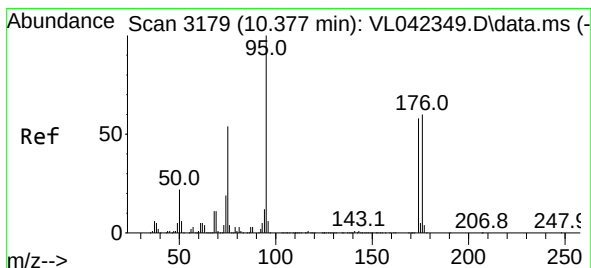
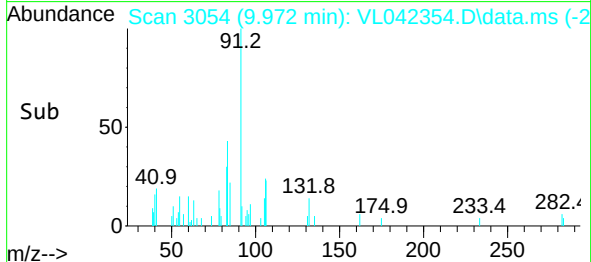
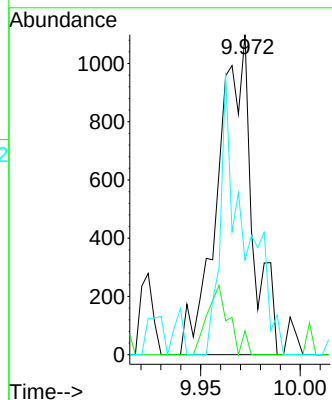
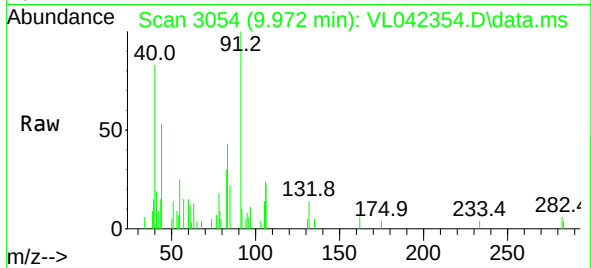
#63
1,1,2,2-Tetrachloroethane
Concen: 0.040 ppbv m
RT: 9.972 min Scan# 3051
Delta R.T. 0.010 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 83 Resp: 132
Ion Ratio Lower Upper
83 100
131 13.9 4.5 13.7
85 61.4 32.4 97.0

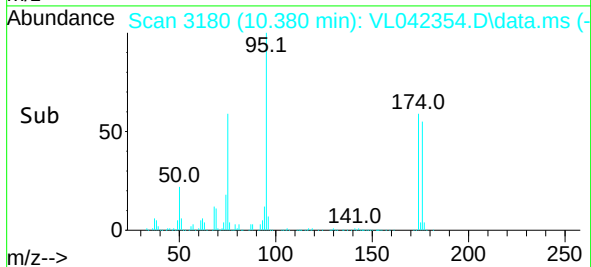
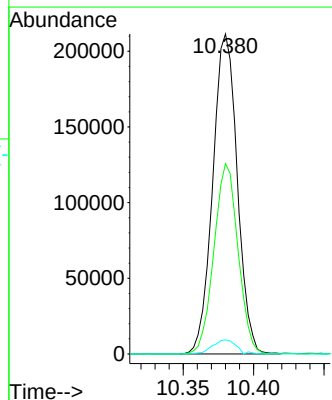
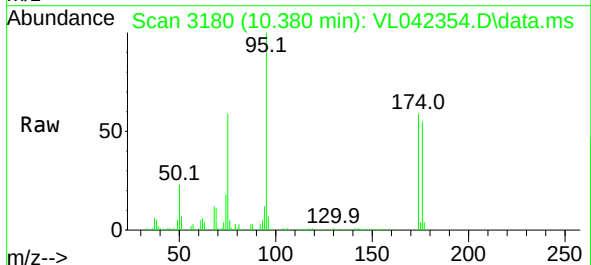
Manual Integrations
APPROVED

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



#68
1-Bromo-4-Fluorobenzene
Concen: 9.962 ppbv
RT: 10.380 min Scan# 3180
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 95 Resp: 256230
Ion Ratio Lower Upper
95 100
174 58.6 48.5 72.7
175 4.3 3.7 5.5



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042355.D
 Acq On : 17 Apr 2025 12:54
 Operator : SY/MD
 Sample : VSTDICC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC015

Manual Integrations APPROVED

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

Quant Time: Apr 18 01:31:10 2025

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

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_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

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

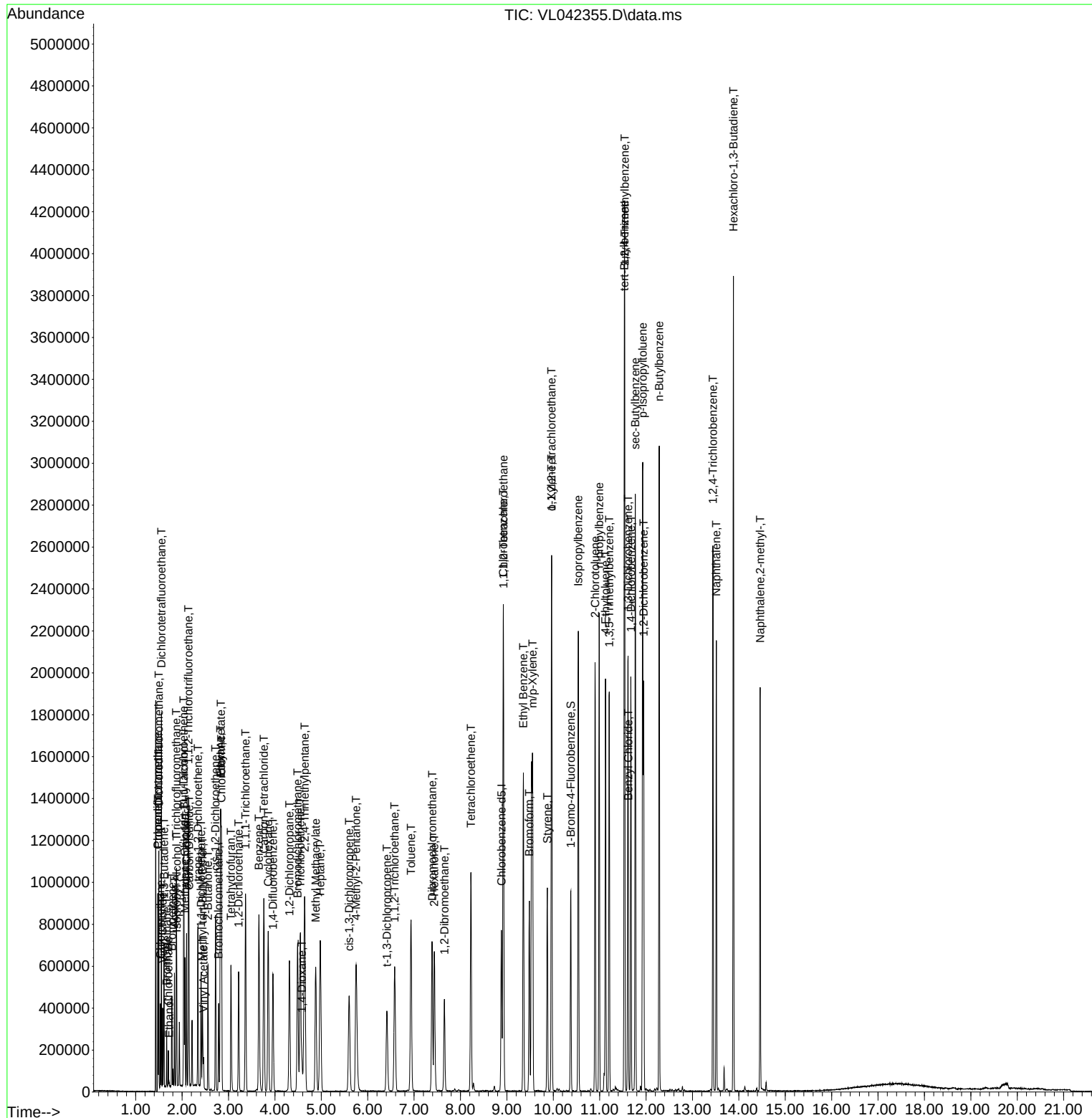
Quant Time: Apr 18 01:31:10 2025

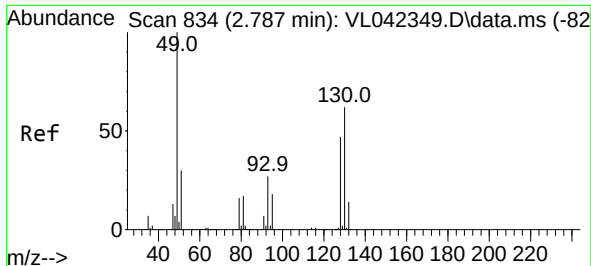
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M

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

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

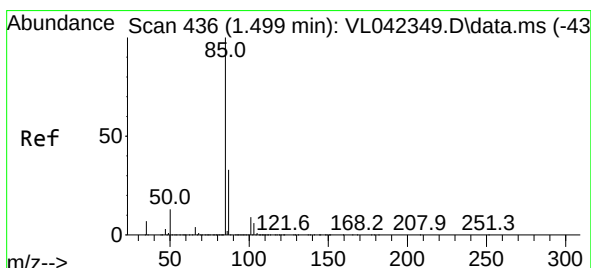
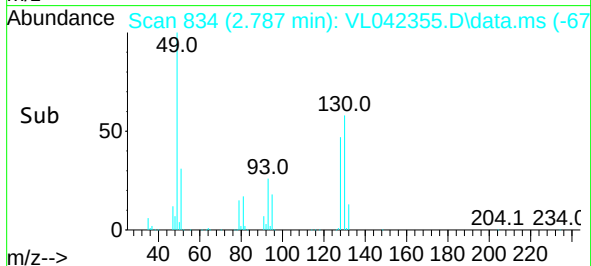
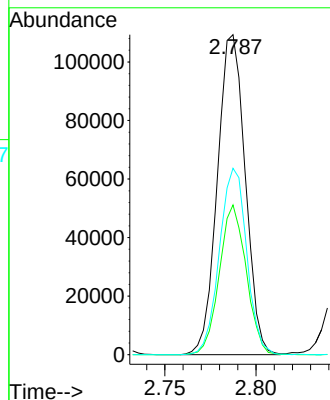
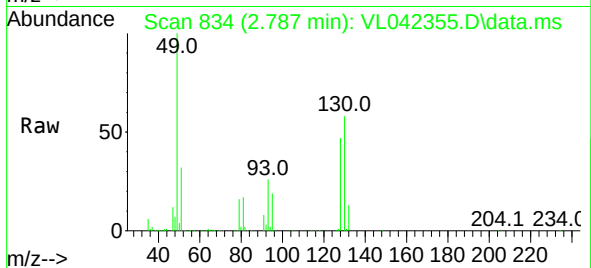
ClientSampleId :

VSTDICC015

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

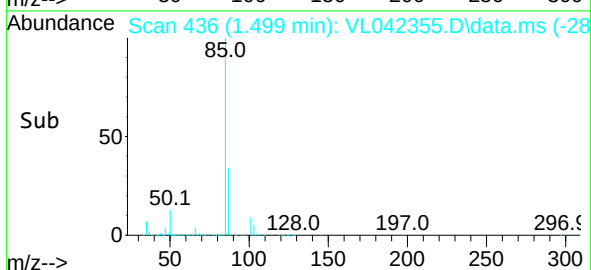
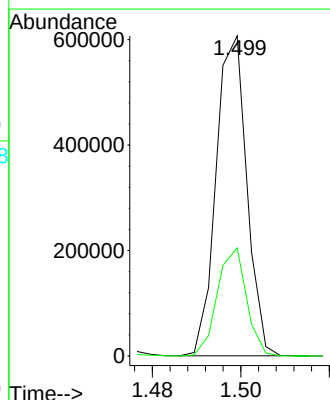
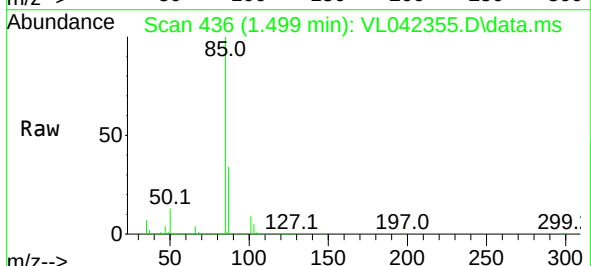
RT: 1.499 min Scan# 436

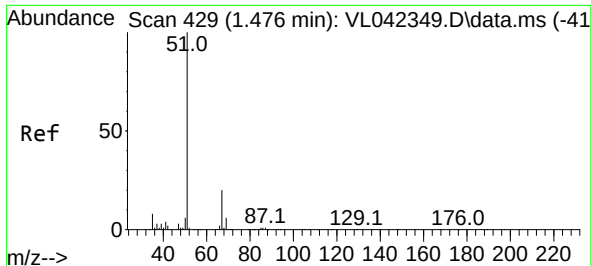
Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

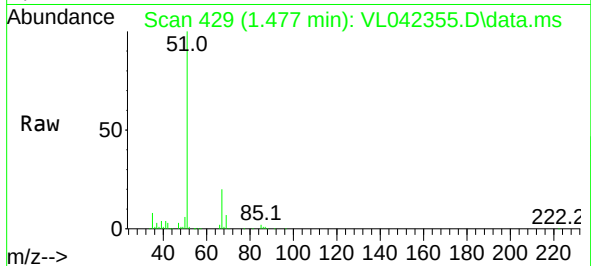
Tgt Ion: 85 Resp: 292784
Ion Ratio Lower Upper
85 100
87 33.8 26.6 39.8





#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

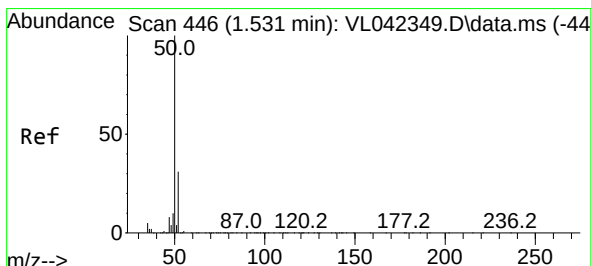
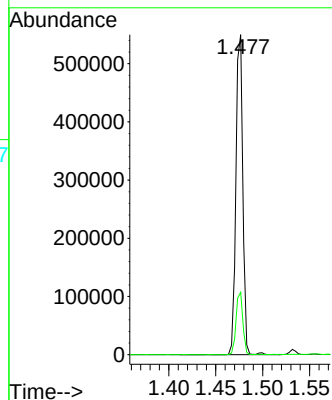
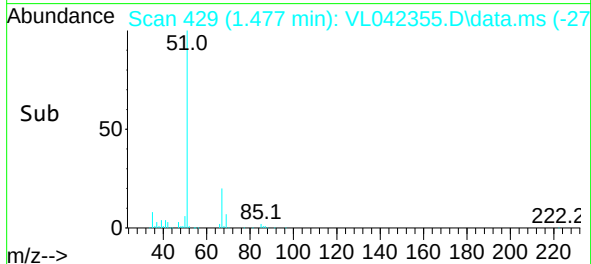
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



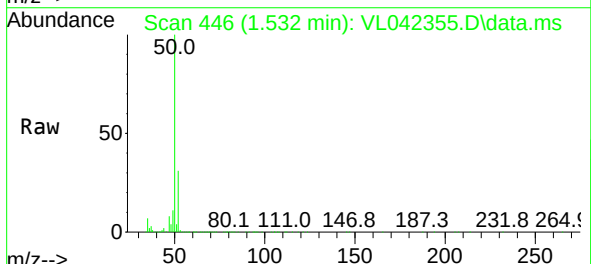
Tgt Ion: 51 Resp: 28004
Ion Ratio Lower Upper
51 100
67 19.5 16.2 24.4

Manual Integrations
APPROVED

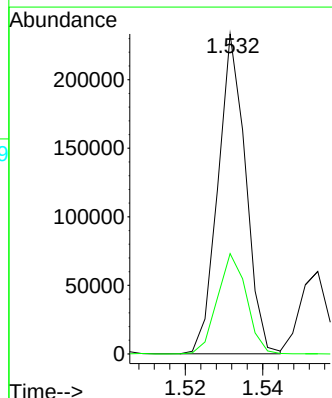
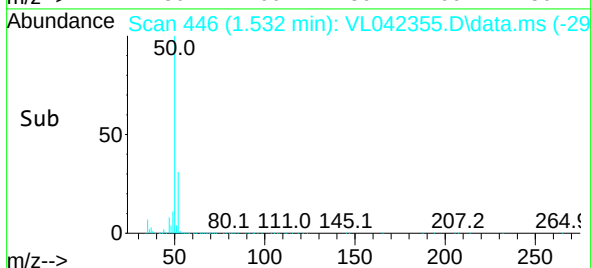
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

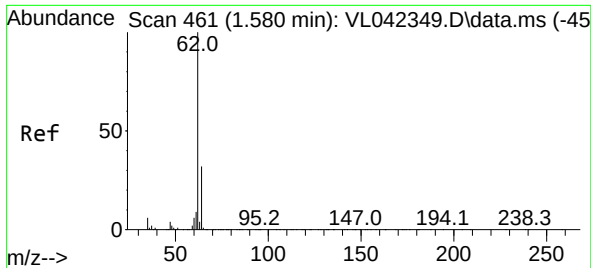


#4
Chloromethane
Concen: 14.266 ppbv
RT: 1.532 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54



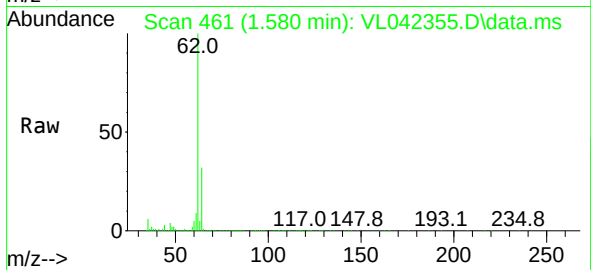
Tgt Ion: 50 Resp: 115775
Ion Ratio Lower Upper
50 100
52 31.3 24.7 37.1





#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

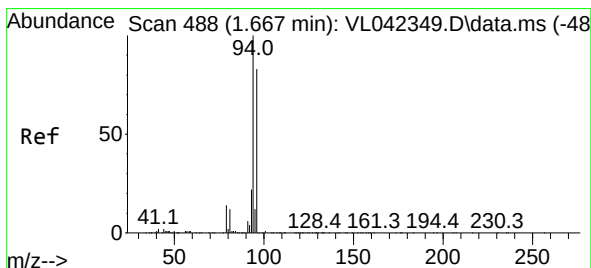
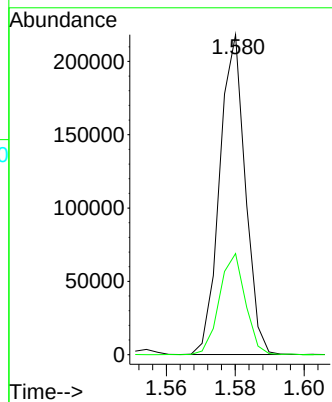
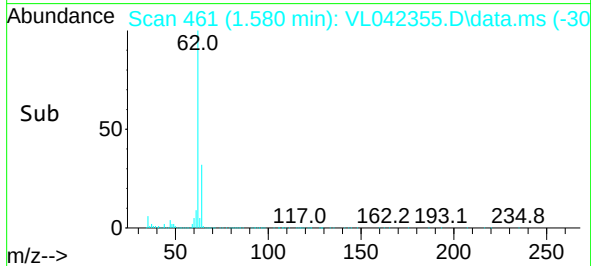
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



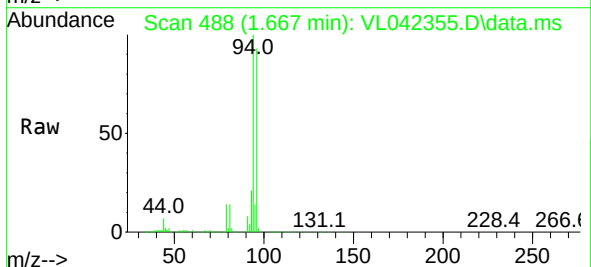
Tgt Ion: 62 Resp: 112650
Ion Ratio Lower Upper
62 100
64 31.6 25.4 38.0

Manual Integrations
APPROVED

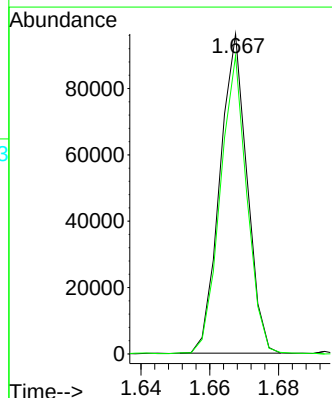
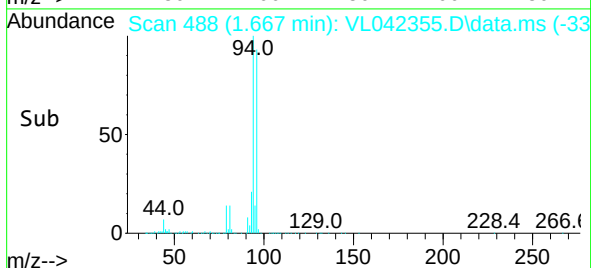
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

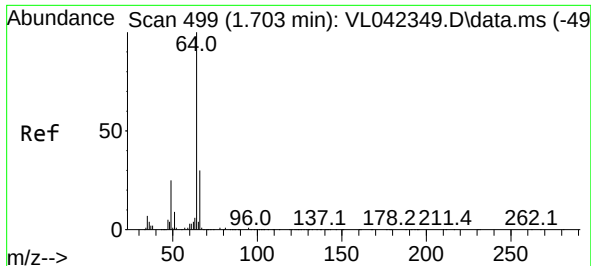


#6
Bromomethane
Concen: 13.800 ppbv
RT: 1.667 min Scan# 488
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54



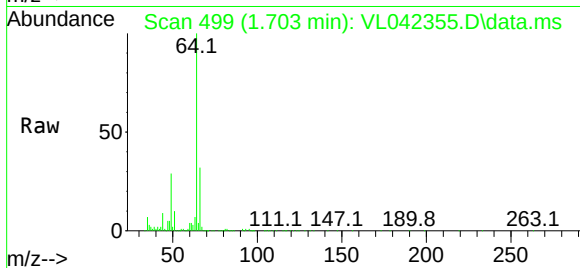
Tgt Ion: 94 Resp: 52805
Ion Ratio Lower Upper
94 100
96 93.1 66.2 99.2





#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

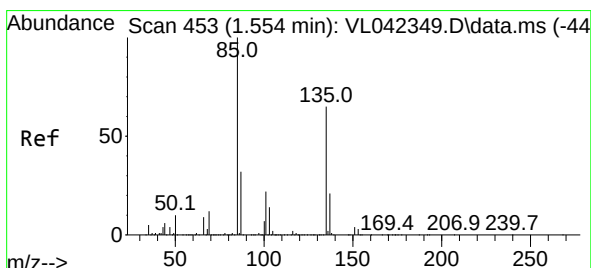
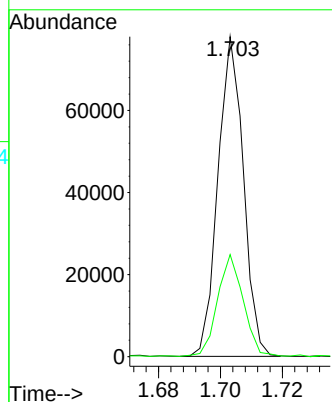
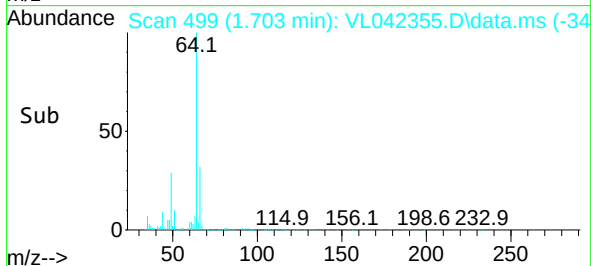
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



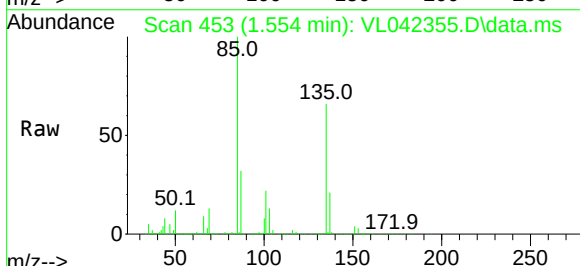
Tgt Ion: 64 Resp: 4434
Ion Ratio Lower Upper
64 100
66 31.9 24.6 37.0

Manual Integrations
APPROVED

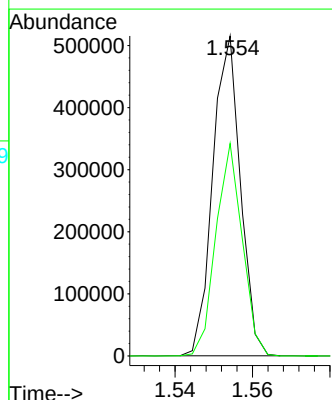
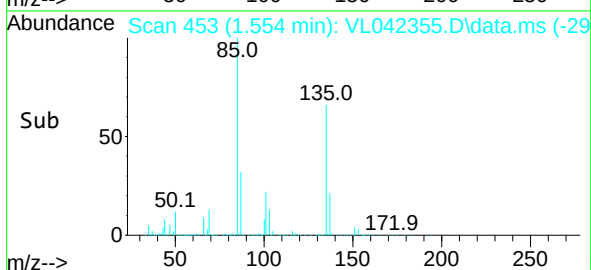
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

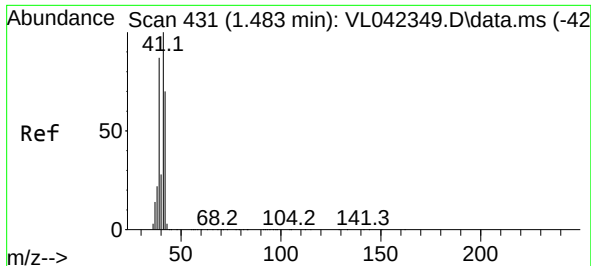


#8
Dichlorotetrafluoroethane
Concen: 14.484 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54



Tgt Ion: 85 Resp: 255029
Ion Ratio Lower Upper
85 100
135 63.6 52.2 78.2





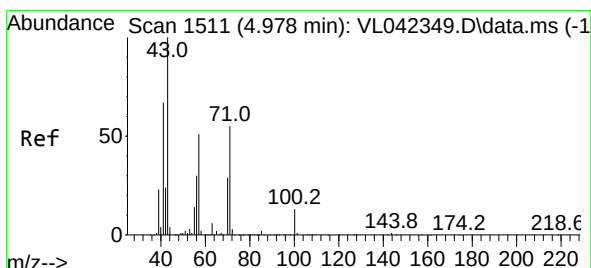
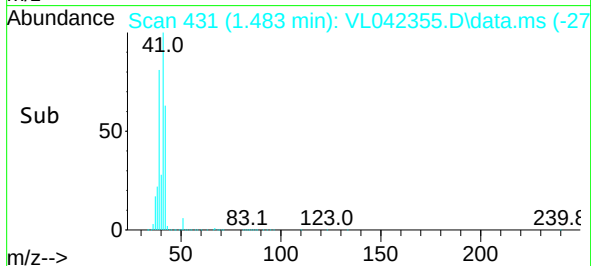
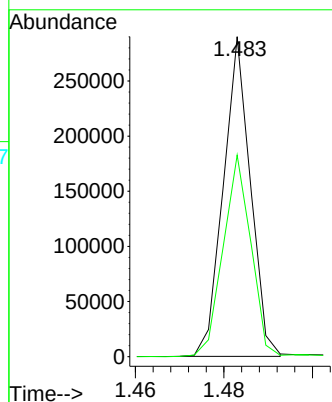
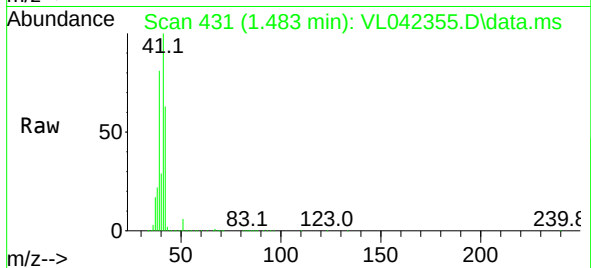
#9
Propene
Concen: 13.842 ppbv
RT: 1.483 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 41 Resp: 12310
Ion Ratio Lower Upper
41 100
42 66.0 56.2 84.4

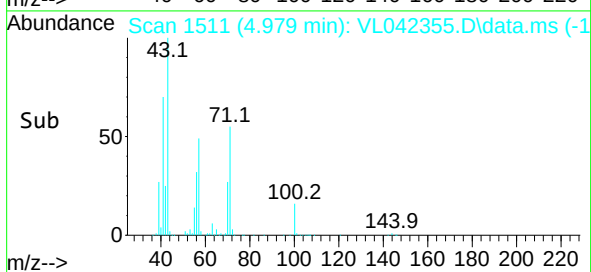
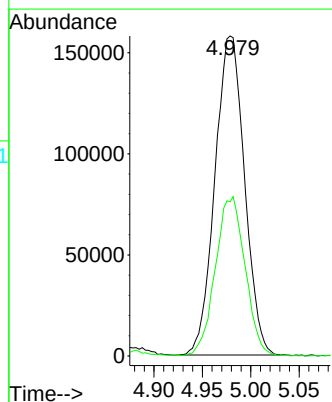
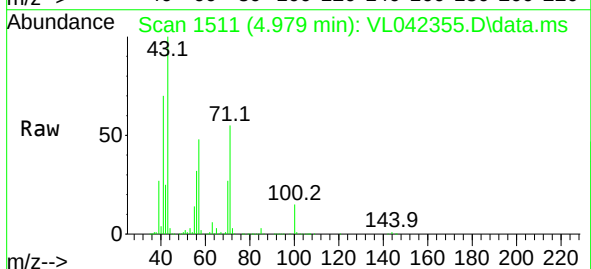
Manual Integrations
APPROVED

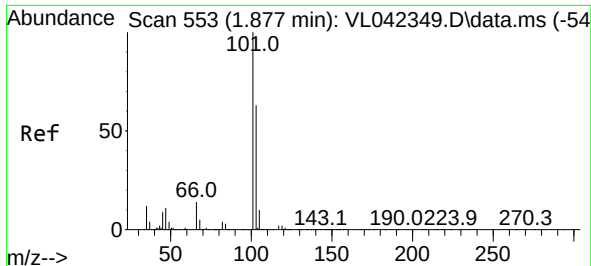
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

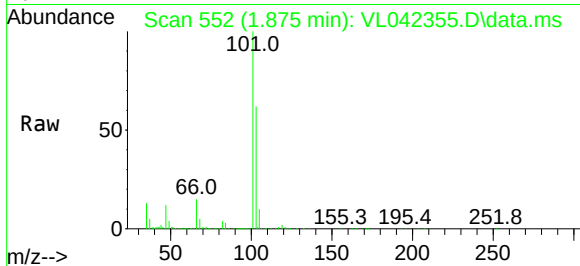
Tgt Ion: 43 Resp: 336134
Ion Ratio Lower Upper
43 100
57 50.0 39.9 59.9





#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

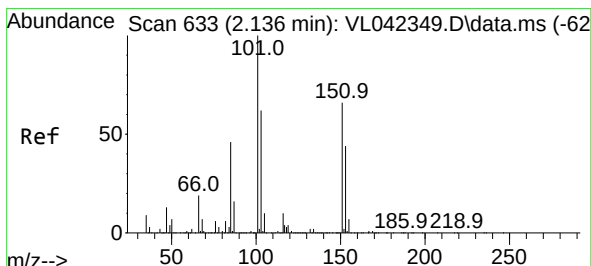
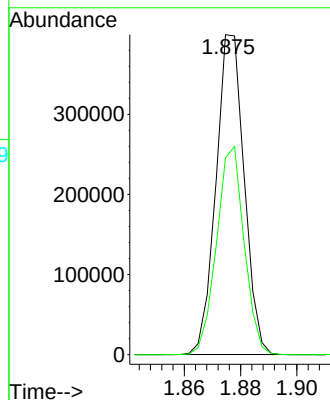
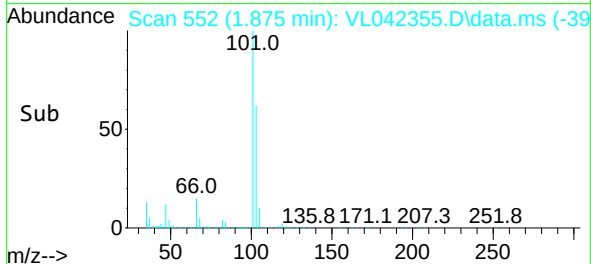
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



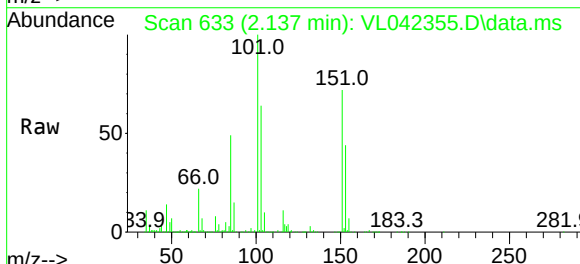
Tgt Ion:101 Resp: 278059
 Ion Ratio Lower Upper
 101 100
 103 61.6 50.1 75.1

Manual Integrations
 APPROVED

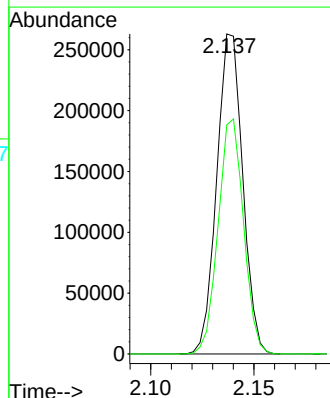
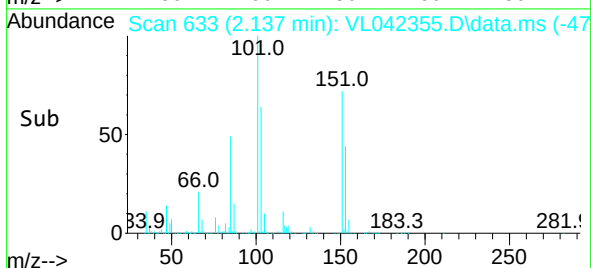
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

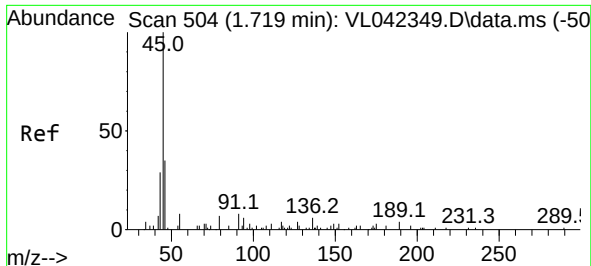


#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 14.447 ppbv
 RT: 2.137 min Scan# 633
 Delta R.T. 0.000 min
 Lab File: VL042355.D
 Acq: 17 Apr 2025 12:54



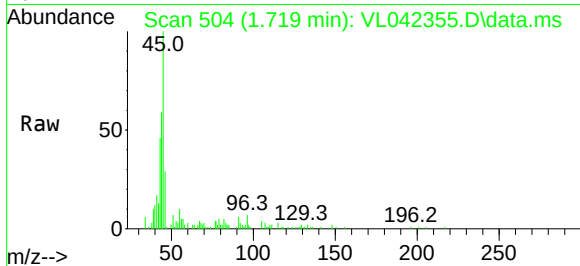
Tgt Ion:101 Resp: 230366
 Ion Ratio Lower Upper
 101 100
 151 71.8 57.0 85.6





#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

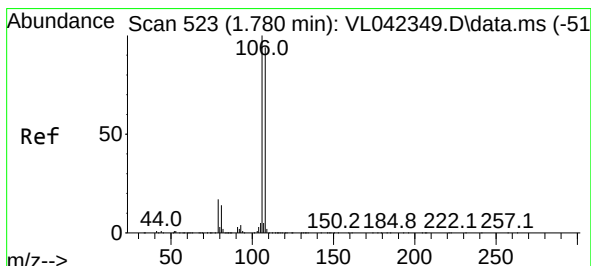
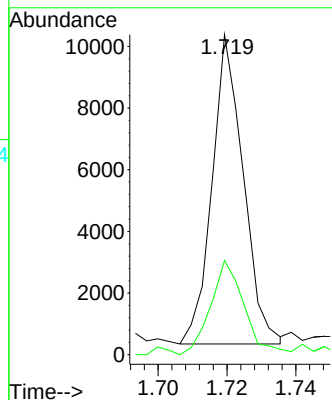
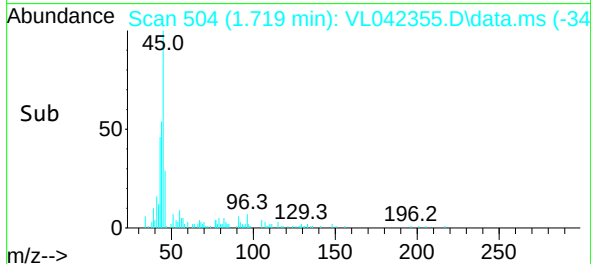
Instrument : MSVOA_L
ClientSampleId : VSTDICC015



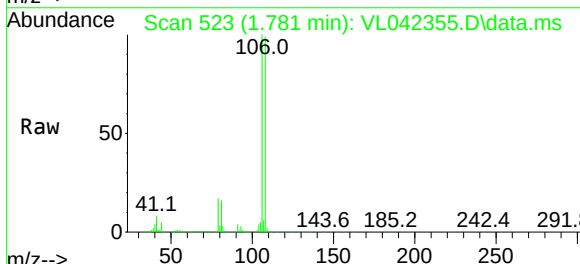
Tgt Ion: 45 Resp: 6324
Ion Ratio Lower Upper
45 100
46 37.6 21.9 87.7

Manual Integrations
APPROVED

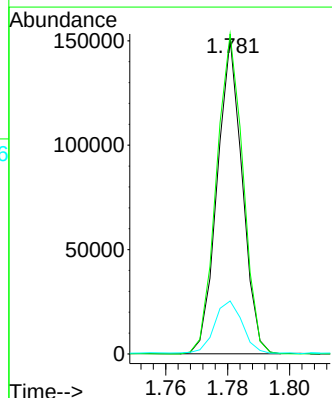
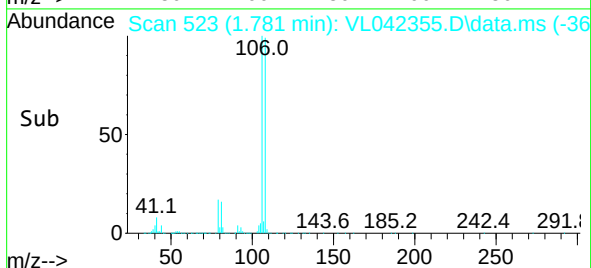
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

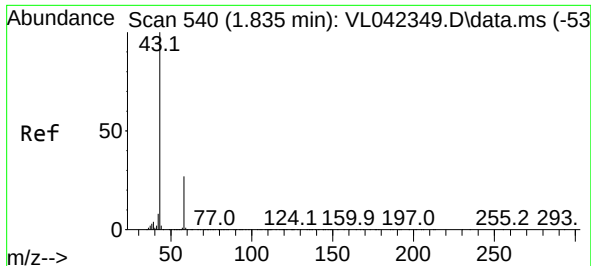


#14
Bromoethene
Concen: 14.117 ppbv
RT: 1.781 min Scan# 523
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54



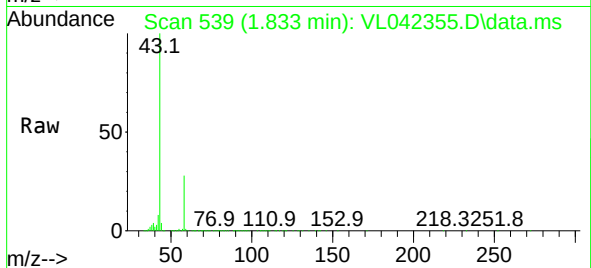
Tgt Ion:108 Resp: 84851
Ion Ratio Lower Upper
108 100
106 107.5 85.9 128.9
79 19.3 13.9 20.9





#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

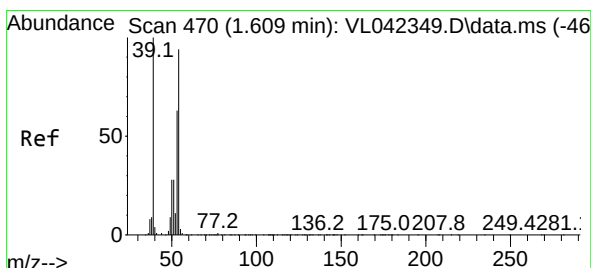
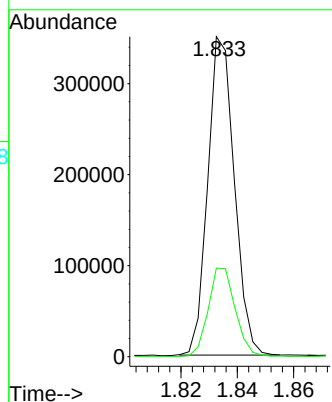
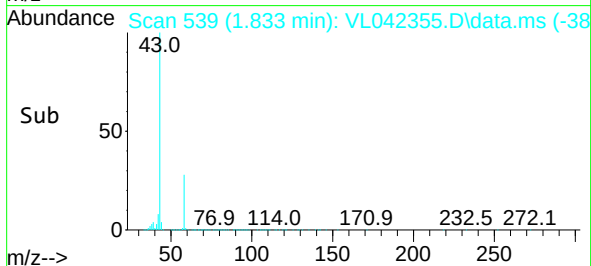
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



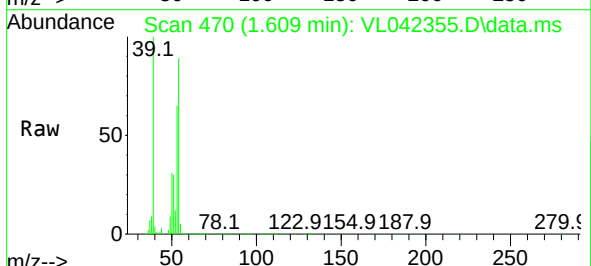
Tgt Ion: 43 Resp: 229080
Ion Ratio Lower Upper
43 100
58 28.4 22.4 33.6

Manual Integrations
APPROVED

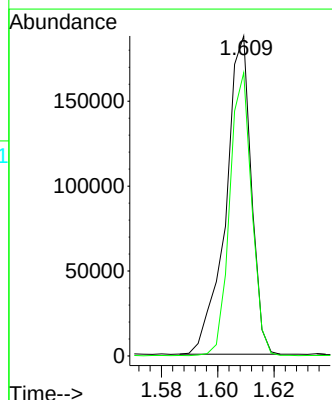
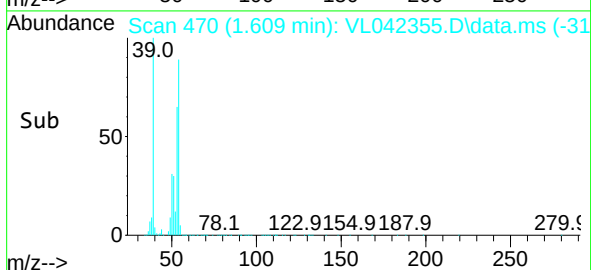
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

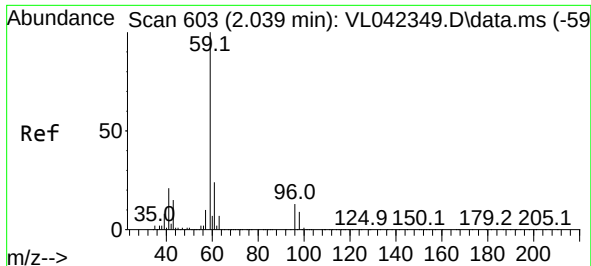


#16
1,3-Butadiene
Concen: 13.224 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54



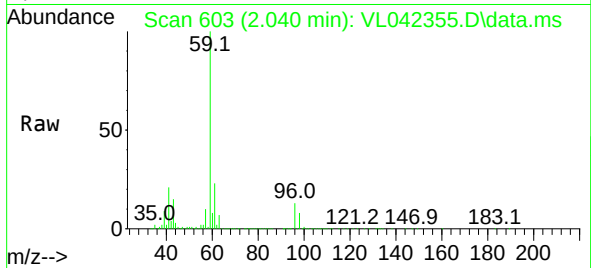
Tgt Ion: 39 Resp: 117997
Ion Ratio Lower Upper
39 100
54 77.2 64.9 97.3





#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

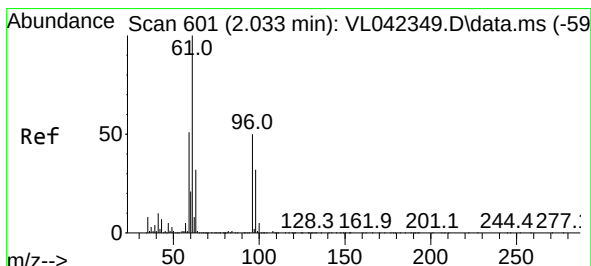
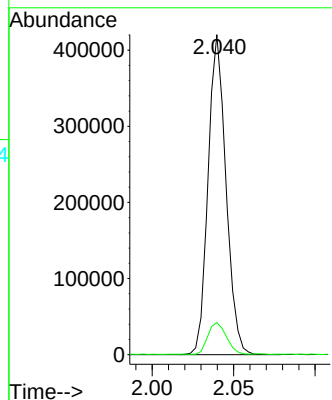
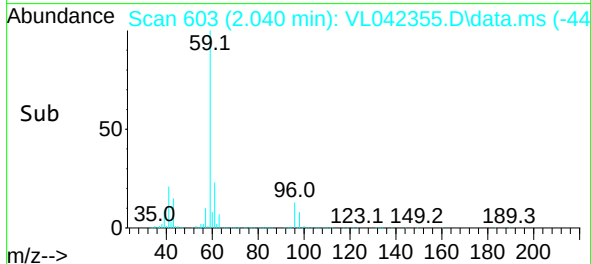
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC015



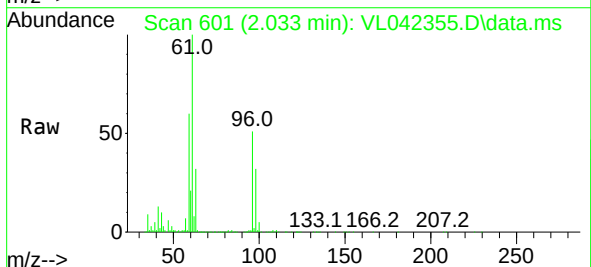
Tgt Ion: 59 Resp: 320609
Ion Ratio Lower Upper
59 100
57 10.6 8.7 13.1

Manual Integrations
APPROVED

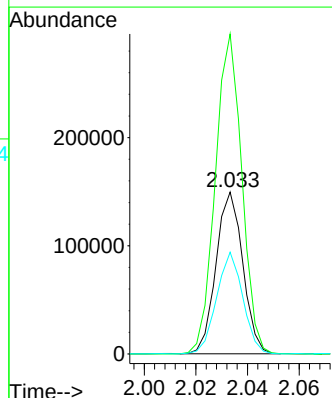
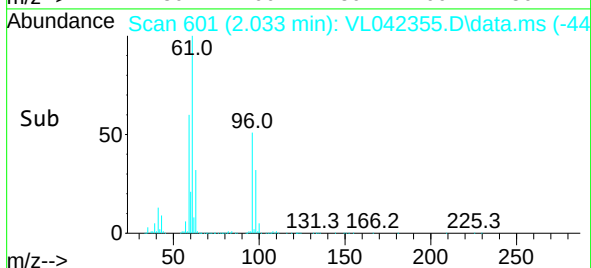
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

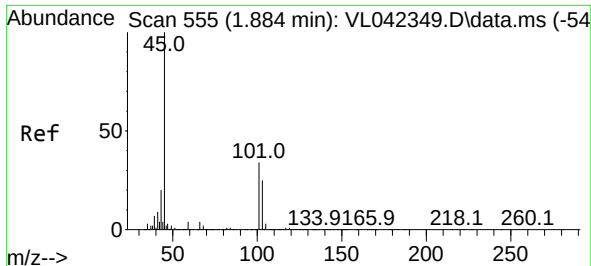


#18
1,1-Dichloroethene
Concen: 14.045 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54



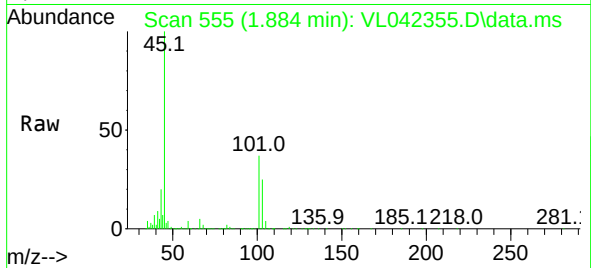
Tgt Ion: 96 Resp: 107666
Ion Ratio Lower Upper
96 100
61 197.8 160.2 240.2
98 62.9 51.0 76.4





#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

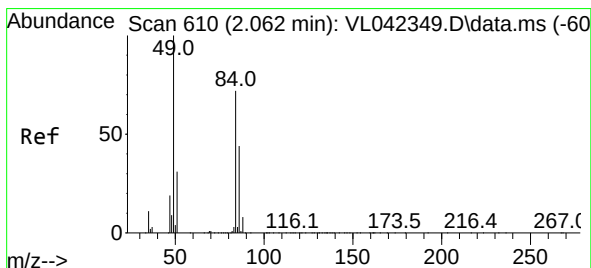
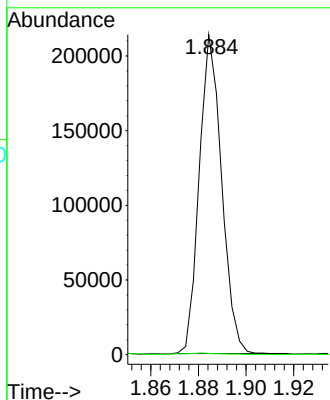
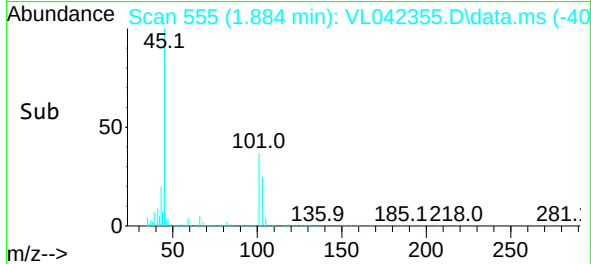
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



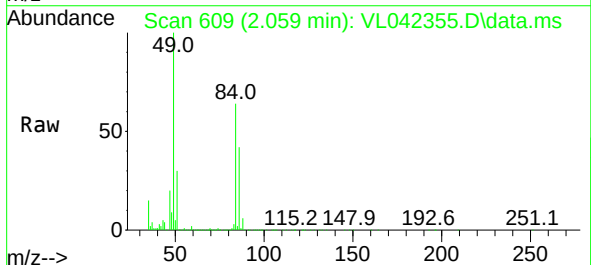
Tgt Ion: 45 Resp: 139004
Ion Ratio Lower Upper
45 100
58 46.9 34.5 51.7

Manual Integrations
APPROVED

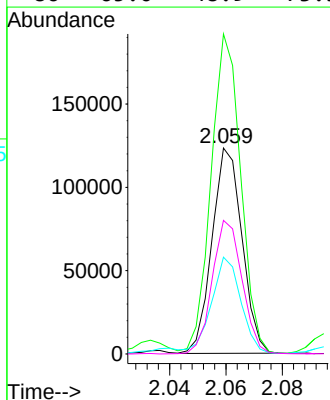
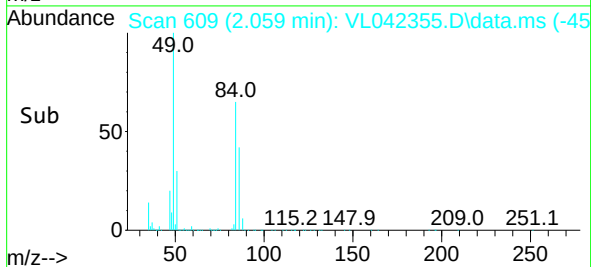
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

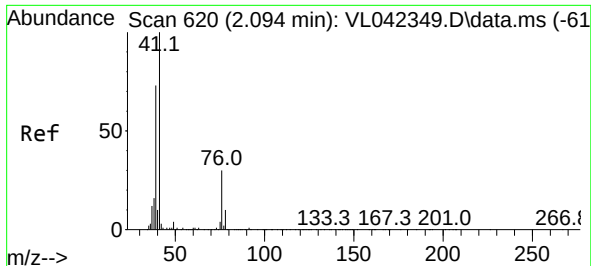


#20
Methylene Chloride
Concen: 12.241 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.003 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54



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

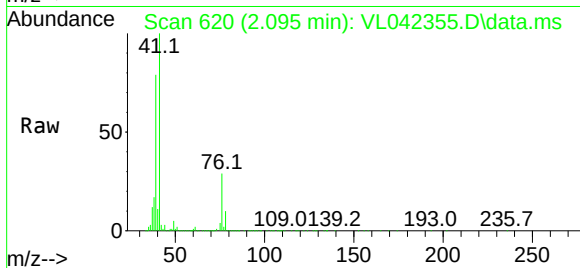
Acq: 17 Apr 2025 12:54

Instrument :

MSVOA_L

ClientSampleId :

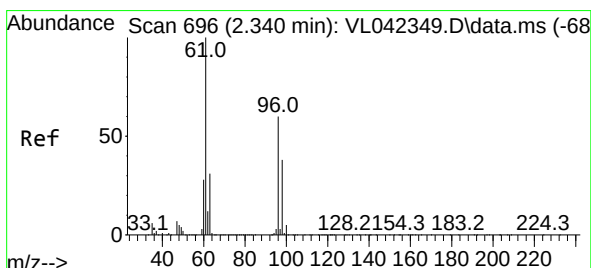
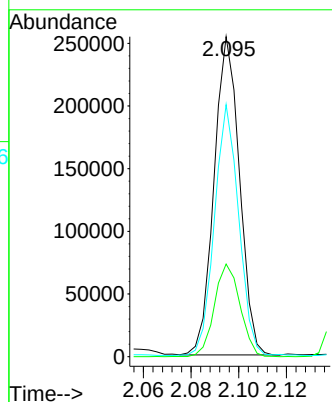
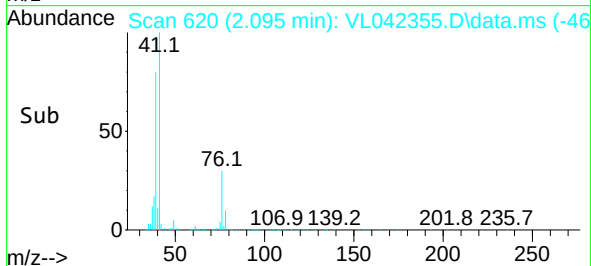
VSTDICC015



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

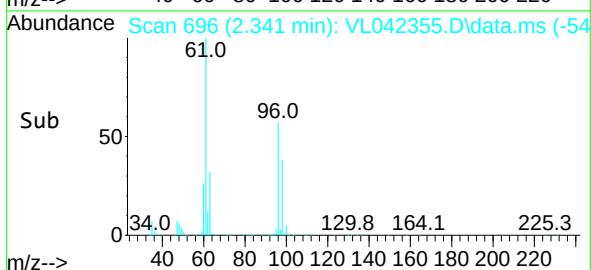
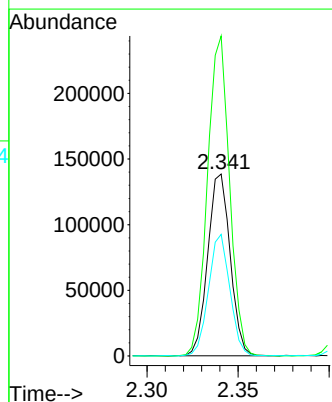
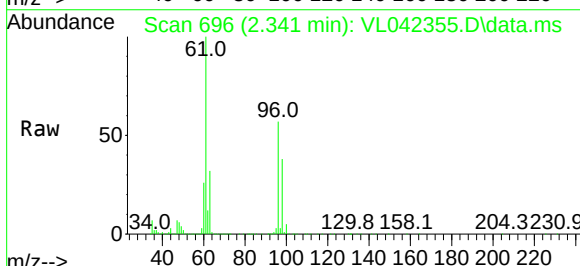
RT: 2.341 min Scan# 696

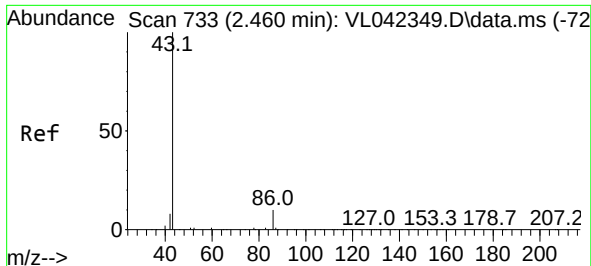
Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

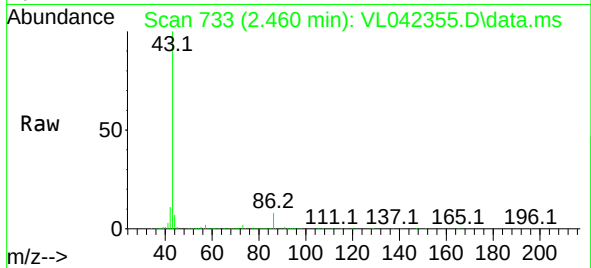
Tgt Ion:	96	Resp:	118492
Ion	Ratio	Lower	Upper
96	100		
61	176.1	133.7	200.5
98	66.8	50.3	75.5





#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

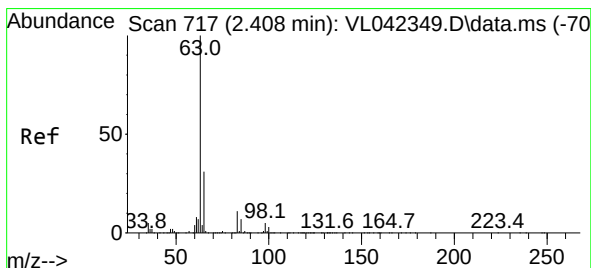
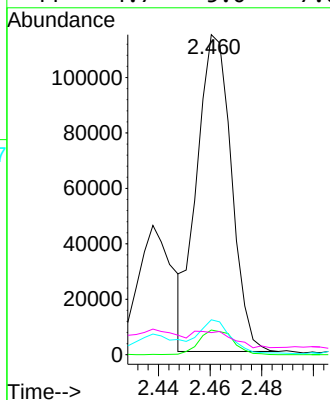
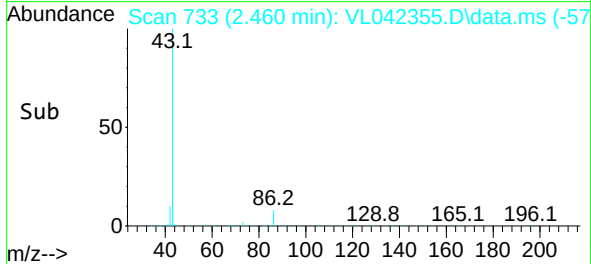
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC015



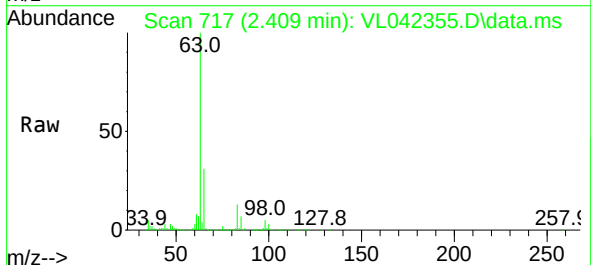
Tgt Ion	Ratio	Lower	Upper
43	100		
86	7.8	6.5	9.7
42	10.4	7.8	11.8
44	4.7	5.0	7.6

Manual Integrations
 APPROVED

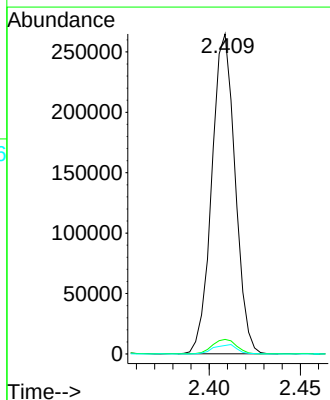
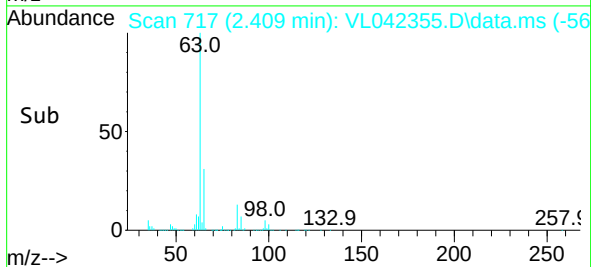
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

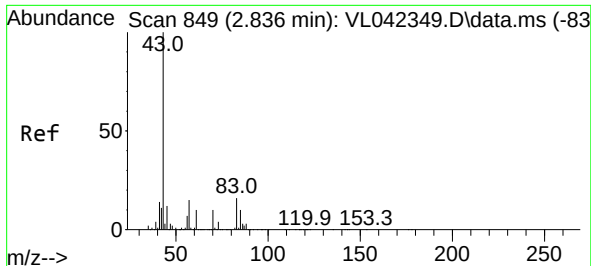


#24
 1,1-Dichloroethane
 Concen: 14.615 ppbv
 RT: 2.409 min Scan# 717
 Delta R.T. 0.000 min
 Lab File: VL042355.D
 Acq: 17 Apr 2025 12:54



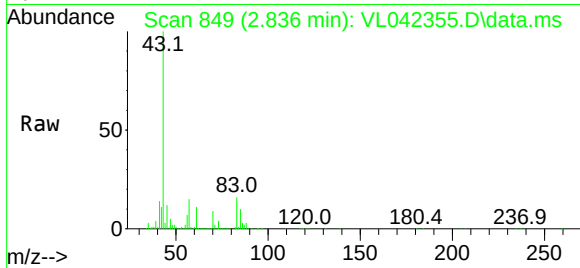
Tgt Ion	Ratio	Lower	Upper
63	100		
98	4.5	2.3	6.8
100	2.6	1.6	4.8





#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

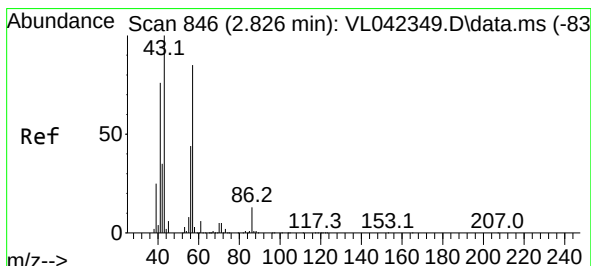
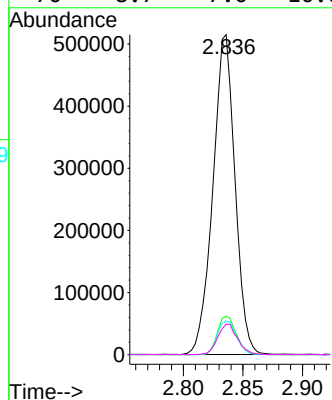
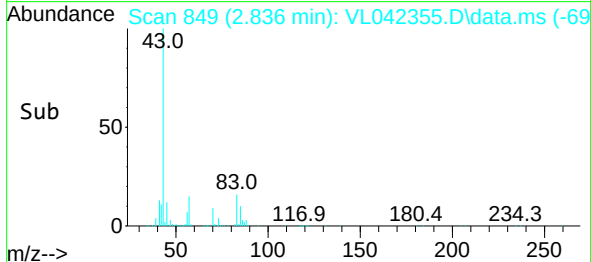
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



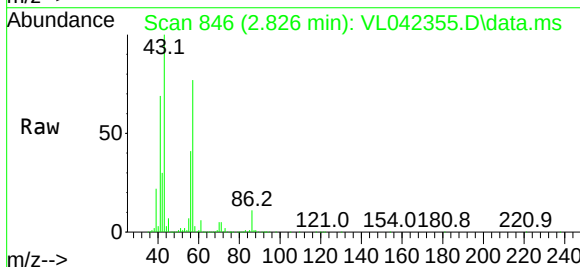
Tgt Ion:	43	Resp:	66364
Ion Ratio	100	Lower	Upper
43	100		
45	10.4	8.3	12.5
61	9.2	7.3	10.9
70	8.7	7.0	10.6

Manual Integrations
APPROVED

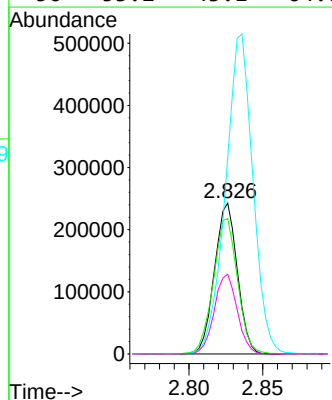
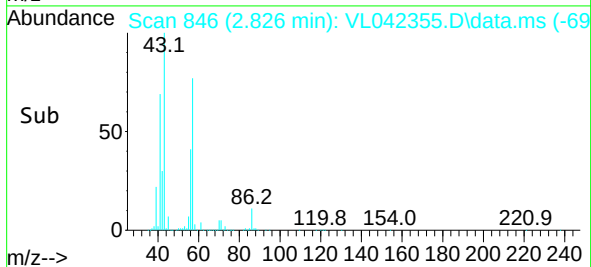
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

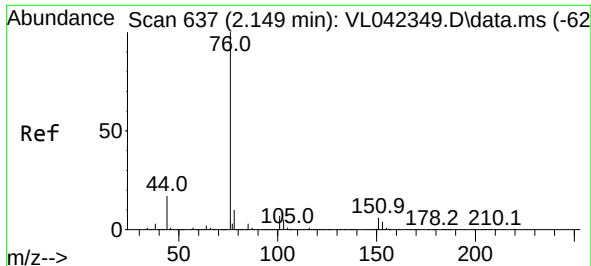


#26
Hexane
Concen: 13.765 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54



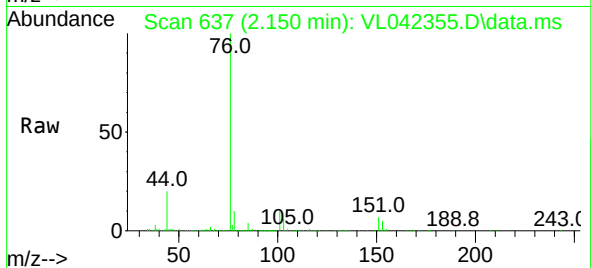
Tgt Ion:	57	Resp:	260975
Ion Ratio	100	Lower	Upper
41	95.3	77.9	116.9
43	254.5	208.4	312.6
56	53.2	43.1	64.7





#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

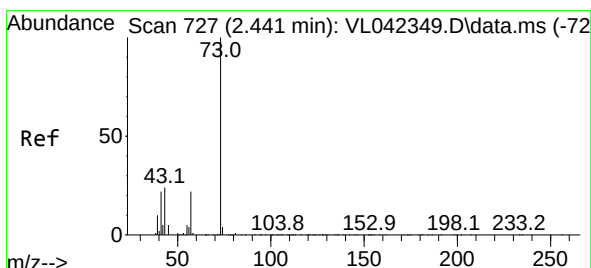
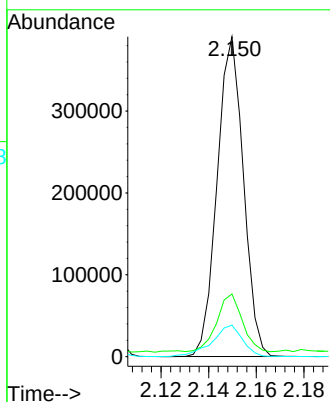
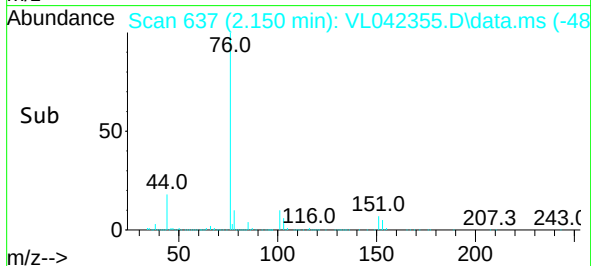
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



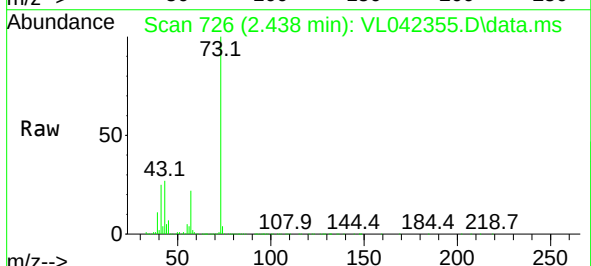
Tgt Ion: 76 Resp: 299098
Ion Ratio Lower Upper
76 100
44 17.3 15.5 23.3
78 11.4 9.3 13.9

Manual Integrations
APPROVED

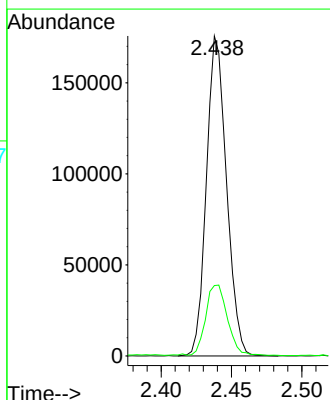
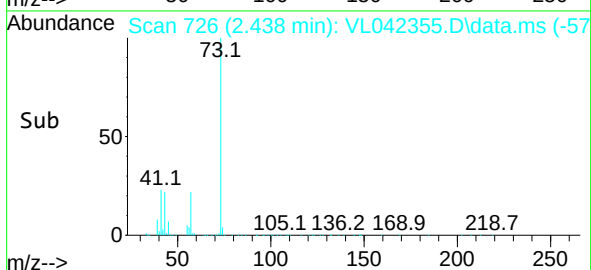
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

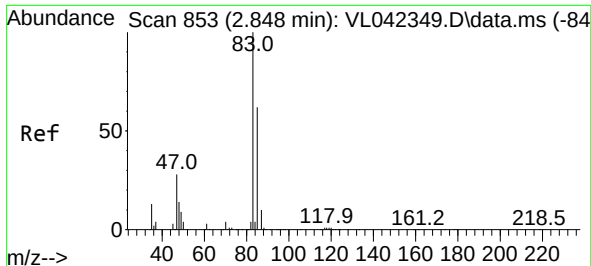


#28
Methyl tert-Butyl Ether
Concen: 14.076 ppbv
RT: 2.438 min Scan# 726
Delta R.T. -0.003 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54



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

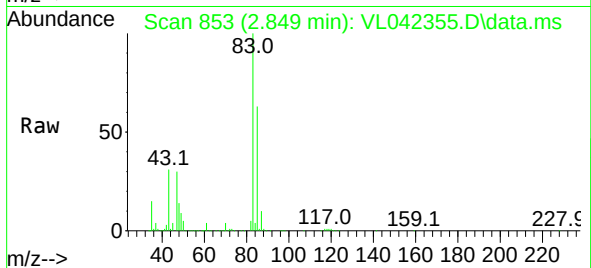
Acq: 17 Apr 2025 12:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC015



Tgt Ion: 83 Resp: 38568

Ion Ratio Lower Upper

83 100

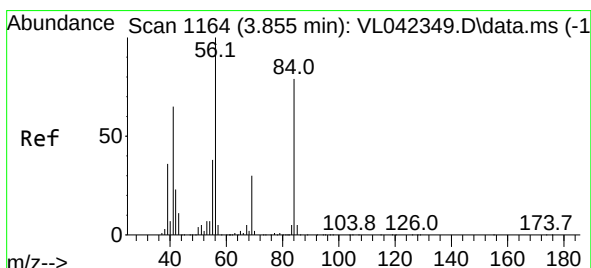
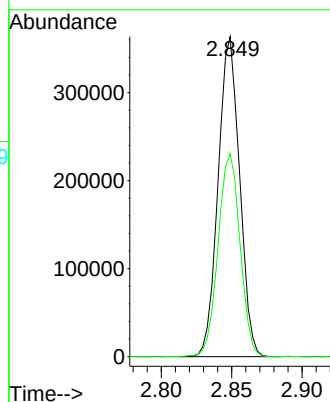
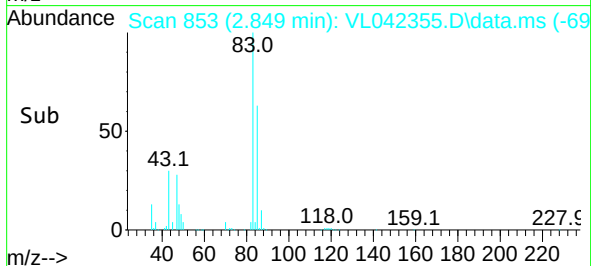
85 63.4 50.0 75.0

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

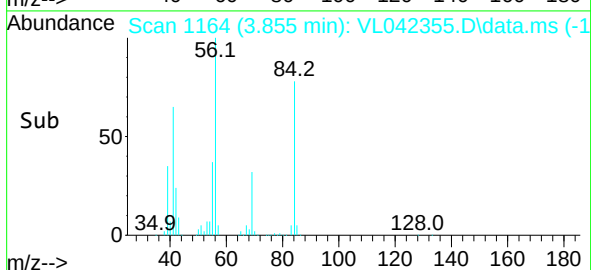
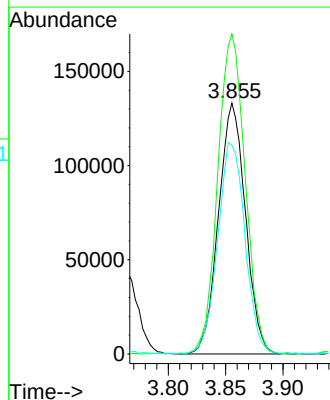
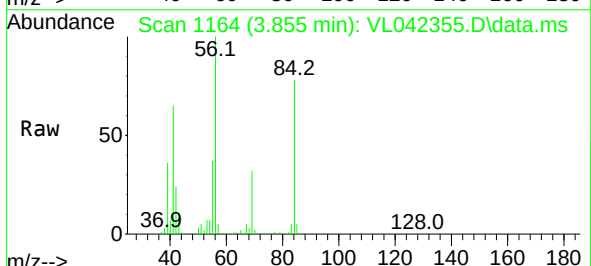
Tgt Ion: 84 Resp: 217375

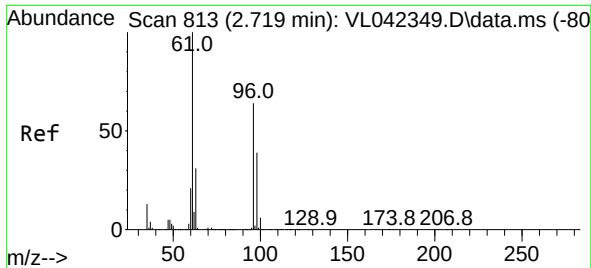
Ion Ratio Lower Upper

84 100

56 129.4 101.0 151.4

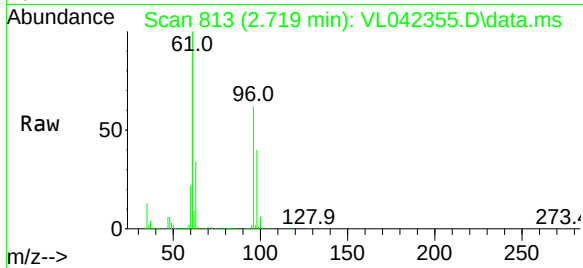
41 85.3 67.4 101.0





#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

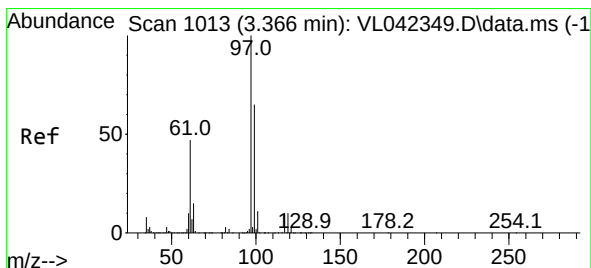
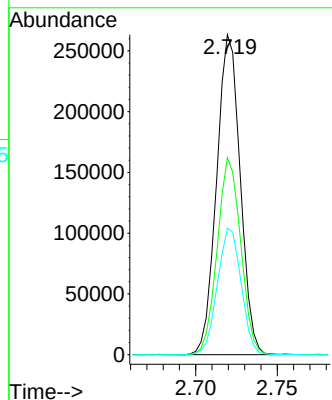
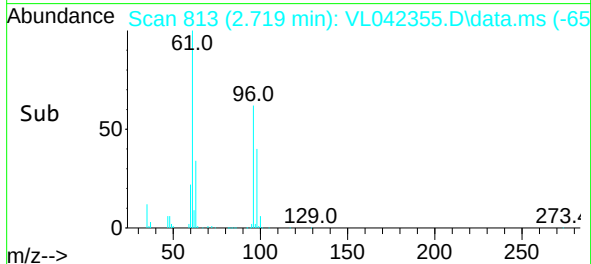
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



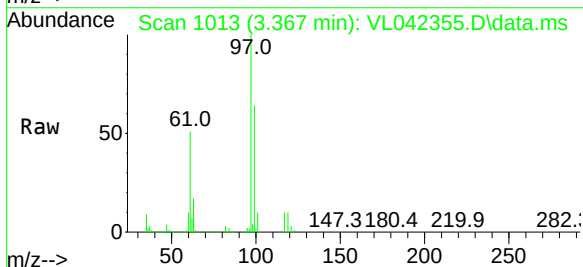
Tgt Ion: 61 Resp: 264972
 Ion Ratio Lower Upper
 61 100
 96 61.6 50.8 76.2
 98 39.5 30.9 46.3

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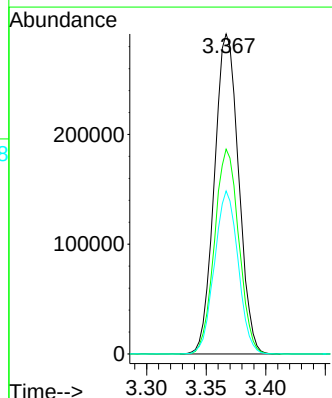
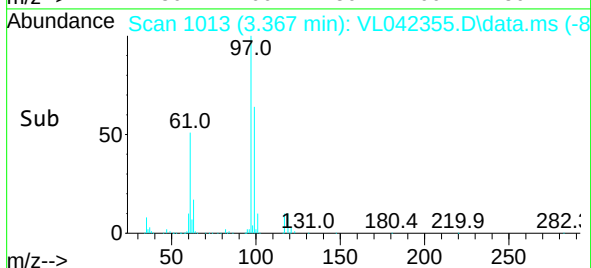
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

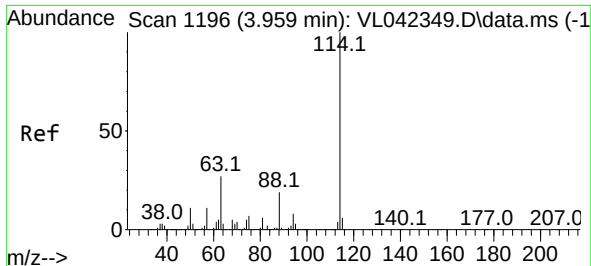


#32
 1,1,1-Trichloroethane
 Concen: 14.357 ppbv
 RT: 3.367 min Scan# 1013
 Delta R.T. 0.000 min
 Lab File: VL042355.D
 Acq: 17 Apr 2025 12:54



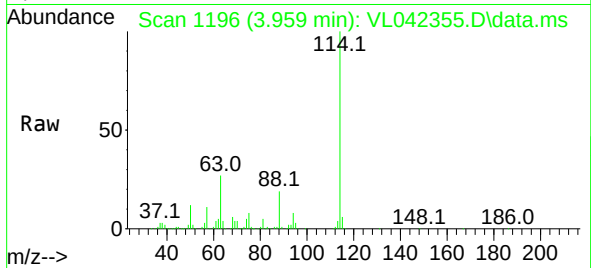
Tgt Ion: 97 Resp: 412537
 Ion Ratio Lower Upper
 97 100
 99 64.1 51.0 76.4
 61 49.8 38.8 58.2





#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

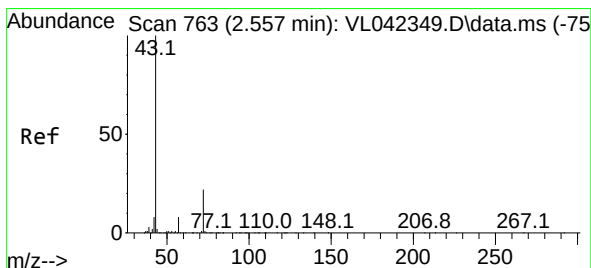
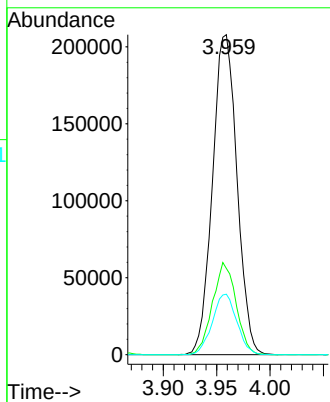
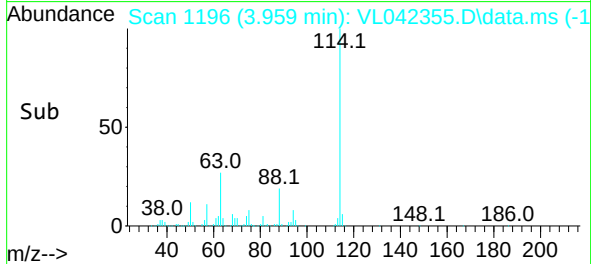
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



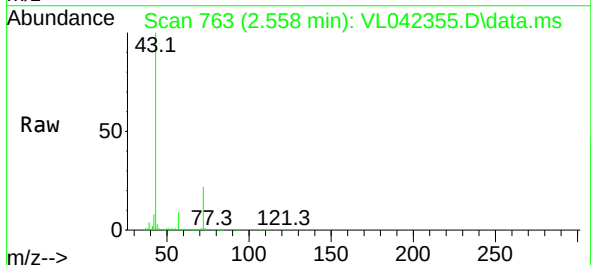
Tgt Ion:114 Resp: 332080
Ion Ratio Lower Upper
114 100
63 27.7 21.8 32.6
88 18.9 15.5 23.3

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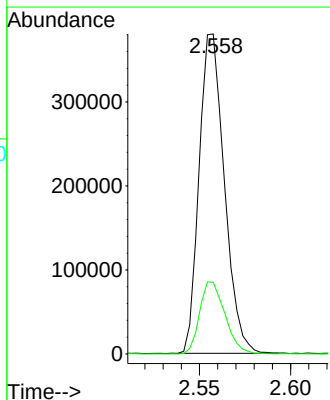
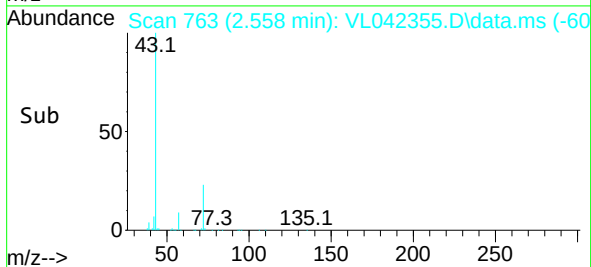
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

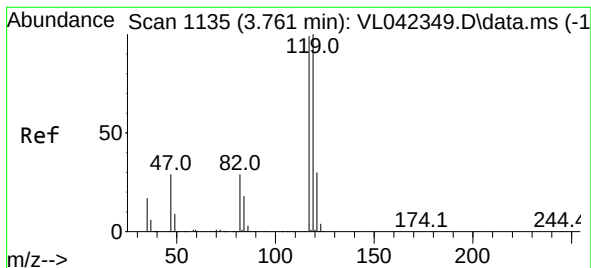


#34
2-Butanone
Concen: 13.986 ppbv
RT: 2.558 min Scan# 763
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54



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

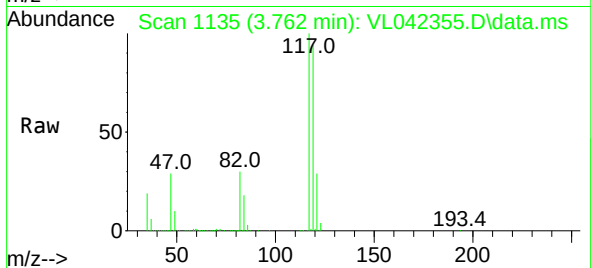
Acq: 17 Apr 2025 12:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015



Tgt Ion: 117 Resp: 409910

Ion Ratio Lower Upper

117 100

119 94.0 80.5 120.7

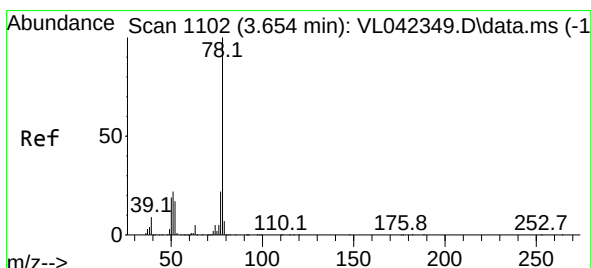
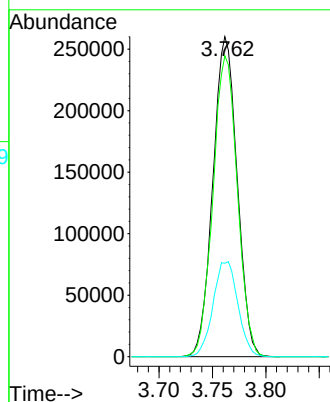
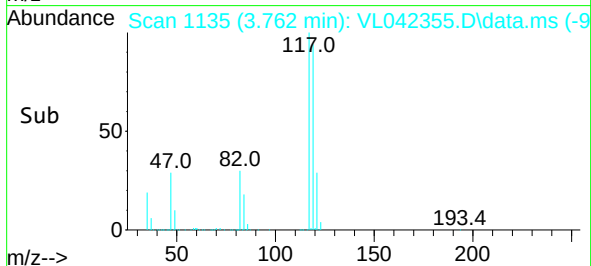
121 29.2 24.2 36.2

Manual Integrations

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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

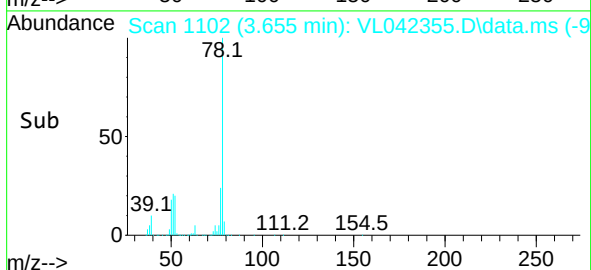
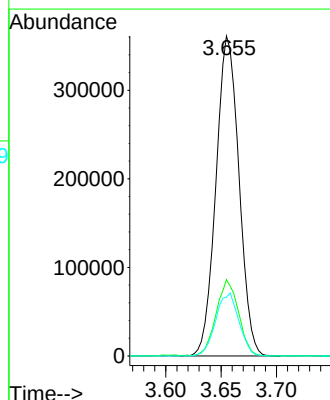
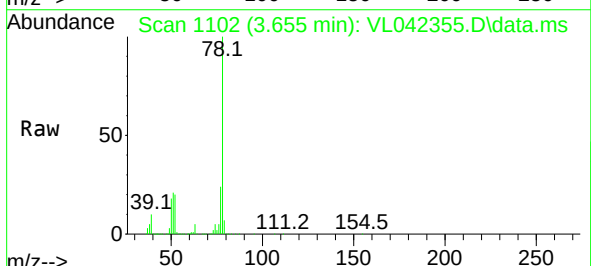
Tgt Ion: 78 Resp: 522156

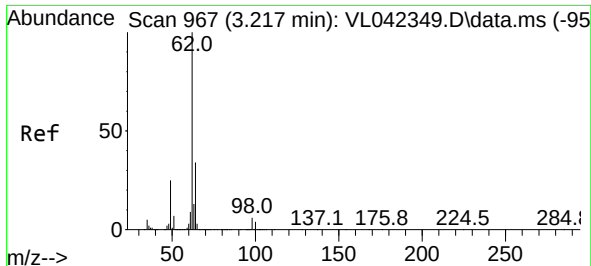
Ion Ratio Lower Upper

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# 9

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC015

Tgt Ion: 62 Resp: 31951

Ion Ratio Lower Upper

62 100

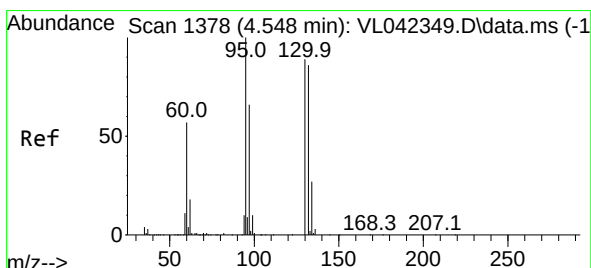
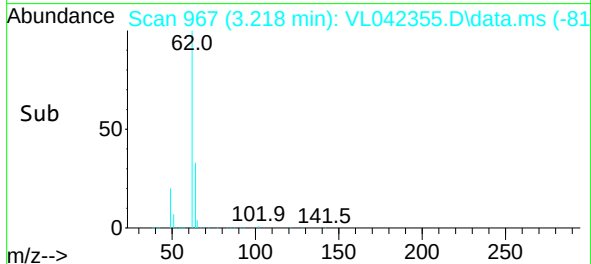
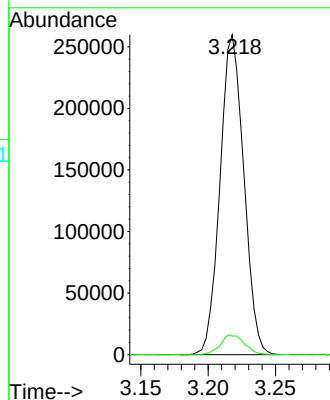
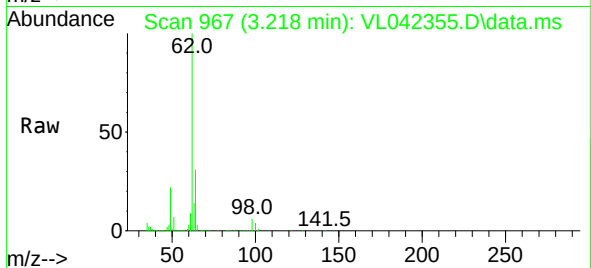
98 6.3 5.1 7.7

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#38

Trichloroethene

Concen: 13.278 ppbv

RT: 4.548 min Scan# 1378

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

Tgt Ion:130 Resp: 208508

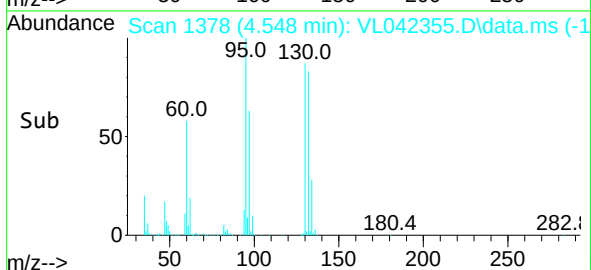
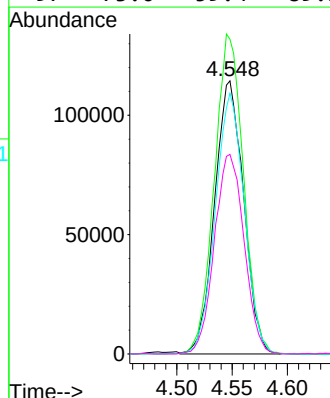
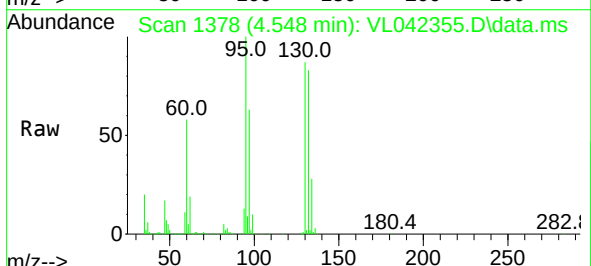
Ion Ratio Lower Upper

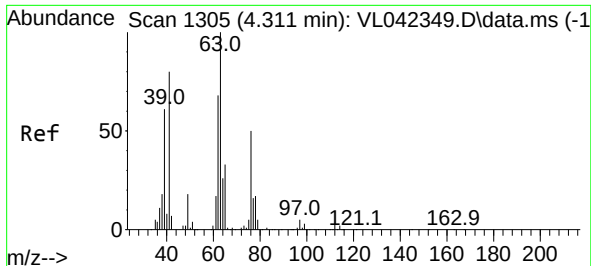
130 100

95 115.0 89.8 134.6

132 95.3 77.7 116.5

97 73.0 59.4 89.2





#39

1,2-Dichloropropane

Concen: 14.201 ppbv

RT: 4.312 min Scan# 1305

Delta R.T. 0.000 min

Lab File: VL042355.D

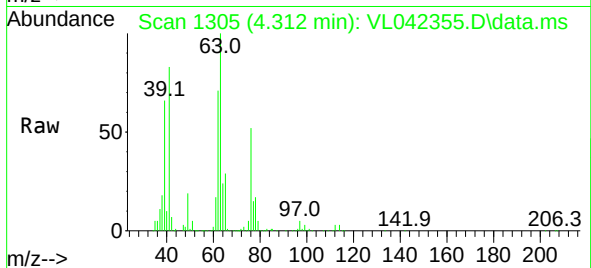
Acq: 17 Apr 2025 12:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC015



Tgt Ion: 63 Resp: 18969

Ion Ratio Lower Upper

63 100

41 82.7 64.2 96.2

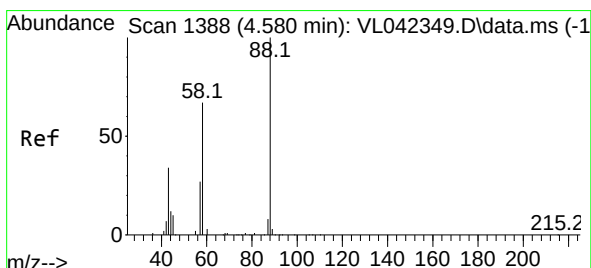
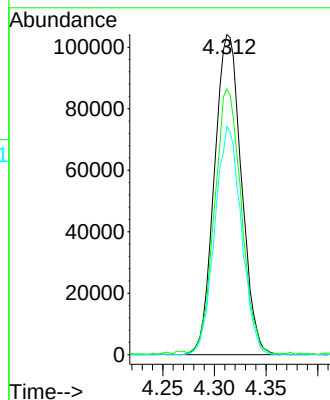
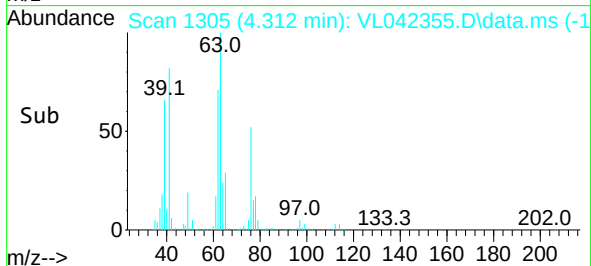
62 71.4 54.3 81.5

Manual Integrations

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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

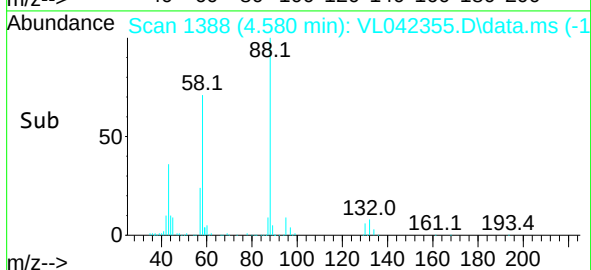
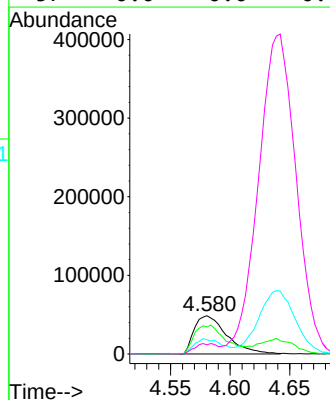
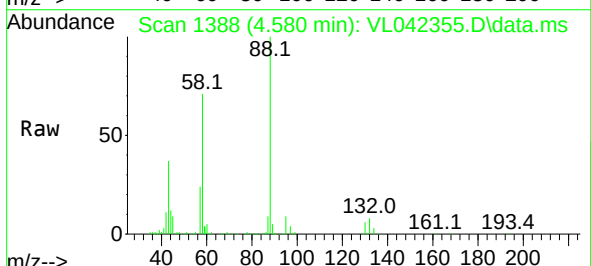
Ion Ratio Lower Upper

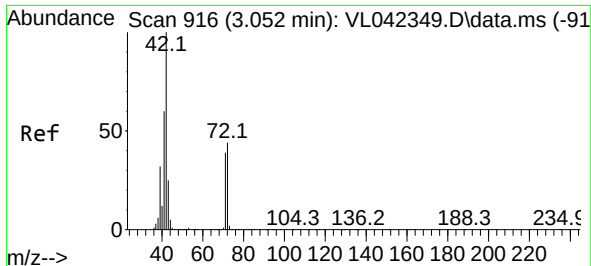
88 100

58 75.2 61.4 92.0

43 36.8 23.2 34.8#

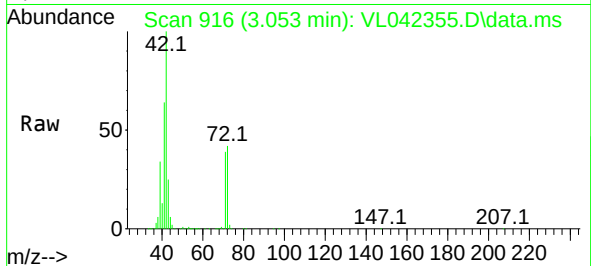
57 0.0 0.0 0.0





#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

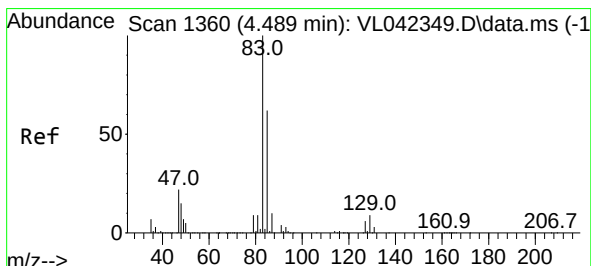
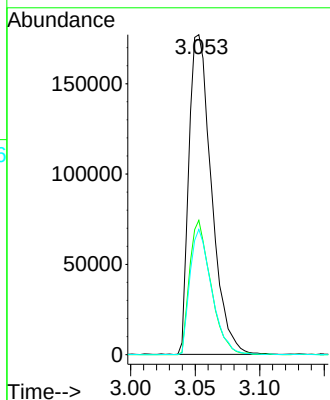
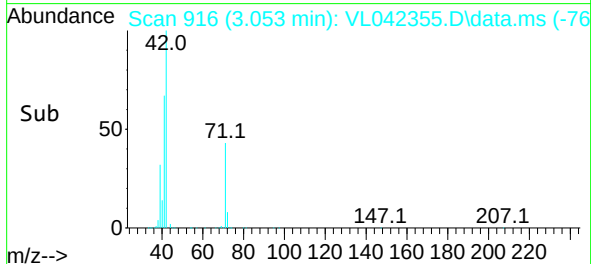
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



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

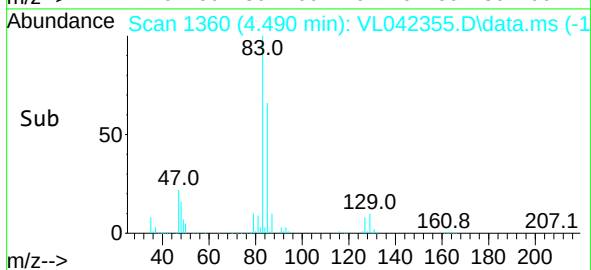
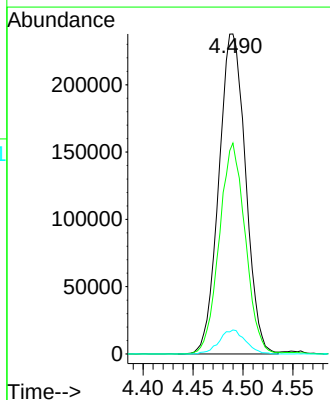
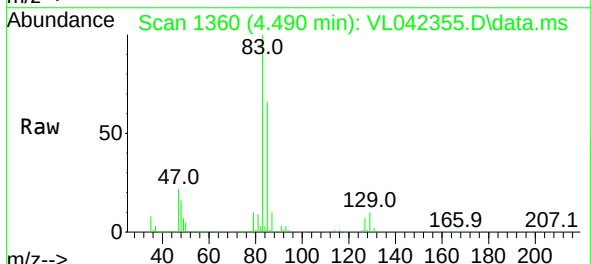
Manual Integrations
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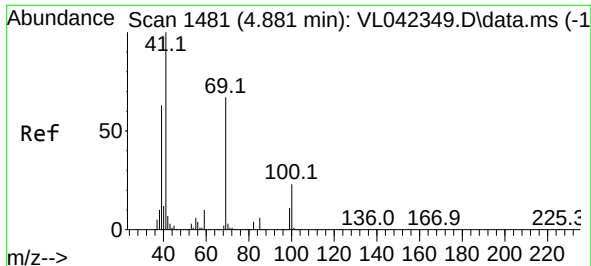
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

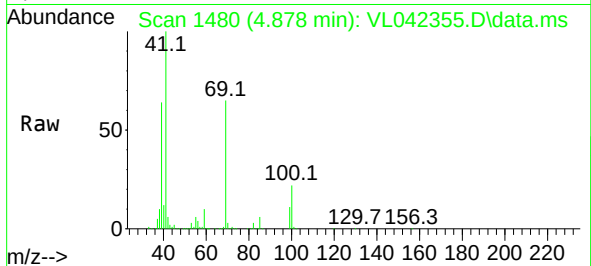
Tgt Ion: 83 Resp: 442735
Ion Ratio Lower Upper
83 100
85 65.9 49.7 74.5
127 7.5 5.1 7.7





#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

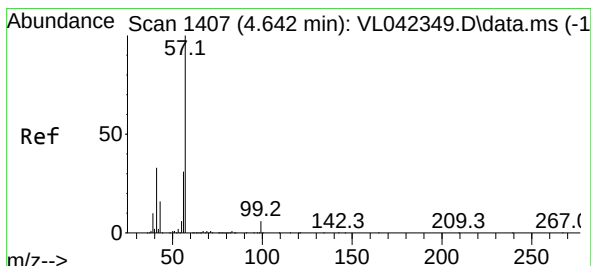
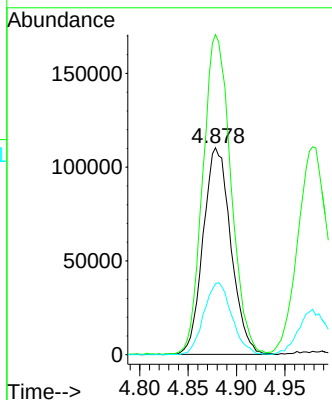
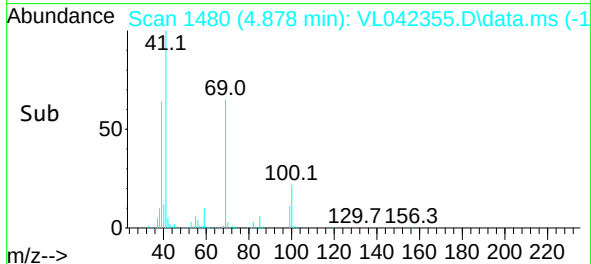
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



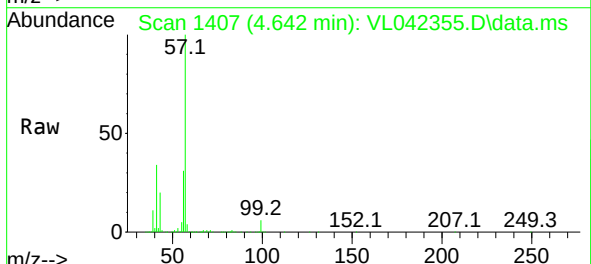
Tgt Ion: 69 Resp: 21975
Ion Ratio Lower Upper
69 100
41 156.6 118.6 177.8
100 35.2 28.2 42.2

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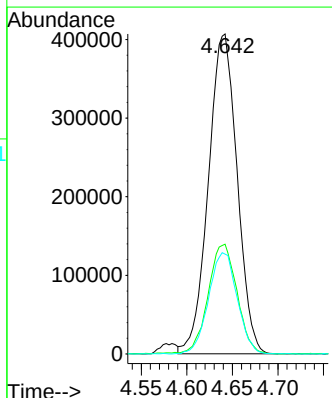
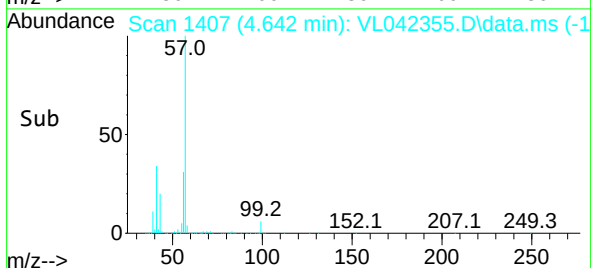
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

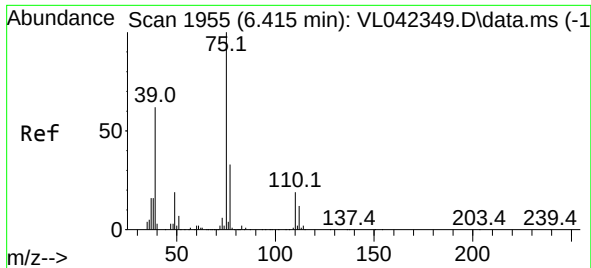


#44
2,2,4-Trimethylpentane
Concen: 14.425 ppbv
RT: 4.642 min Scan# 1407
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54



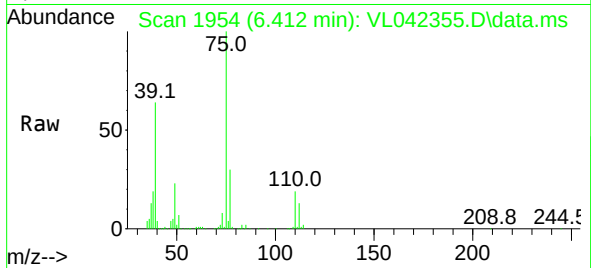
Tgt Ion: 57 Resp: 893529
Ion Ratio Lower Upper
57 100
41 34.4 27.2 40.8
56 31.6 25.7 38.5





#45
 t-1,3-Dichloropropene
 Concen: 14.810 ppbv
 RT: 6.412 min Scan# 1954
 Delta R.T. -0.003 min
 Lab File: VL042355.D
 Acq: 17 Apr 2025 12:54

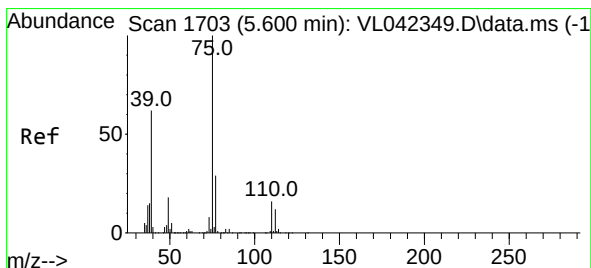
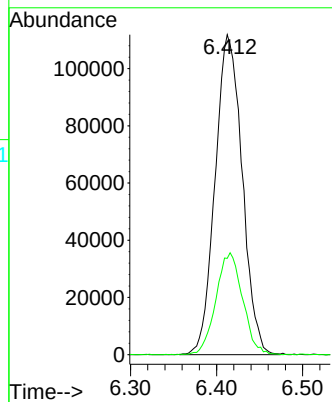
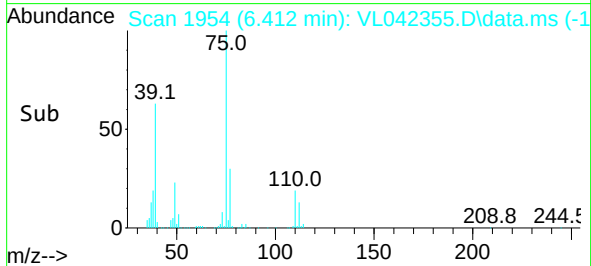
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



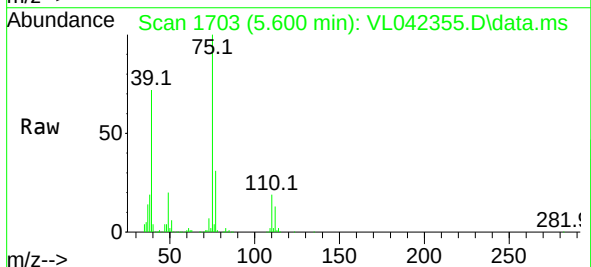
Tgt Ion: 75 Resp: 244470
 Ion Ratio Lower Upper
 75 100
 77 30.1 27.0 40.6

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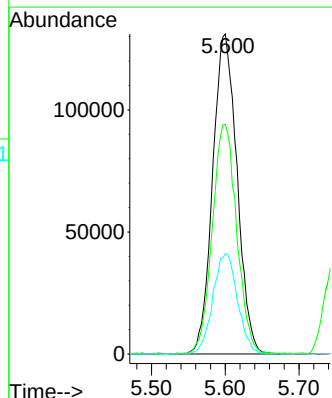
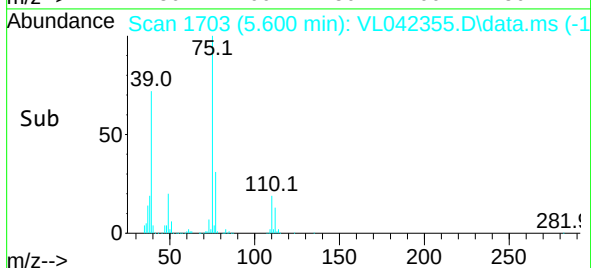
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

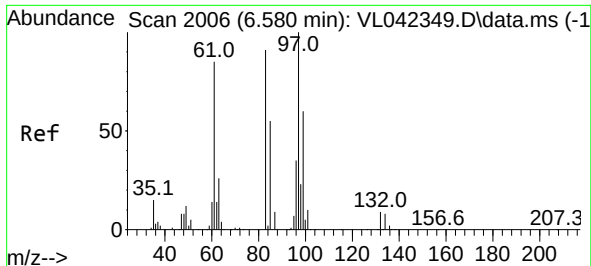


#46
 cis-1,3-Dichloropropene
 Concen: 14.878 ppbv
 RT: 5.600 min Scan# 1703
 Delta R.T. 0.000 min
 Lab File: VL042355.D
 Acq: 17 Apr 2025 12:54



Tgt Ion: 75 Resp: 300145
 Ion Ratio Lower Upper
 75 100
 39 71.6 50.0 75.0
 77 31.3 23.0 34.6





#47

1,1,2-Trichloroethane

Concen: 14.615 ppbv

RT: 6.581 min Scan# 2006

Delta R.T. 0.000 min

Lab File: VL042355.D

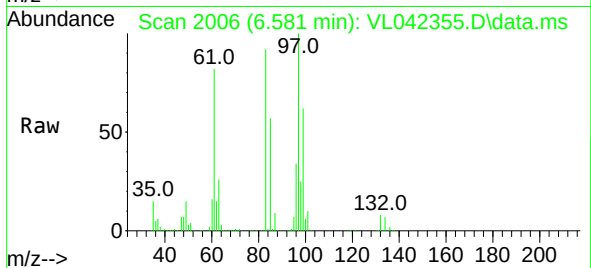
Acq: 17 Apr 2025 12:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015



Tgt Ion: 97 Resp: 198874

Ion Ratio Lower Upper

97 100

83 91.7 72.8 109.2

85 57.0 44.2 66.4

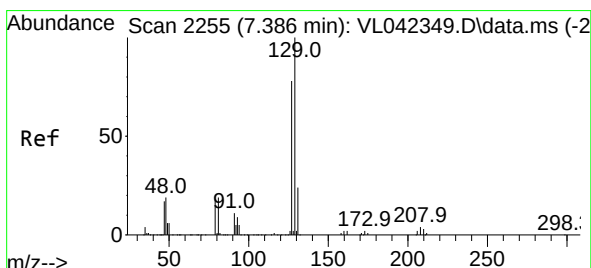
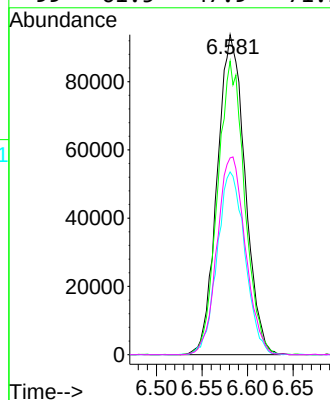
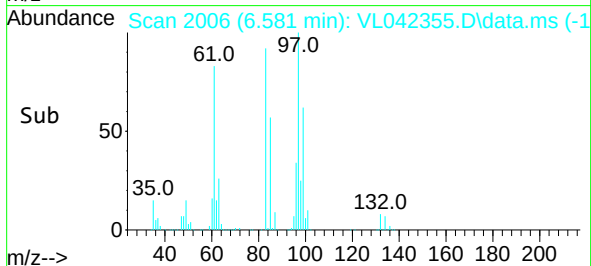
99 61.5 47.9 71.9

Manual Integrations

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

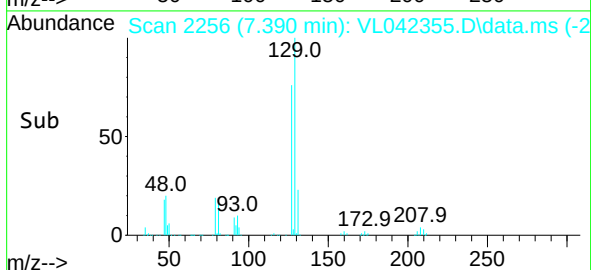
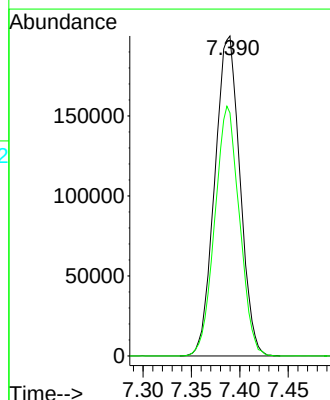
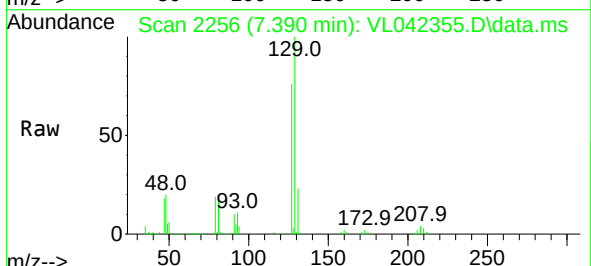
Acq: 17 Apr 2025 12:54

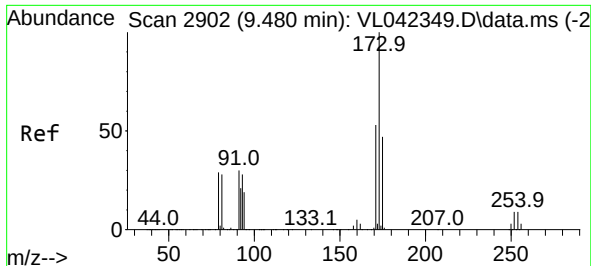
Tgt Ion:129 Resp: 362887

Ion Ratio Lower Upper

129 100

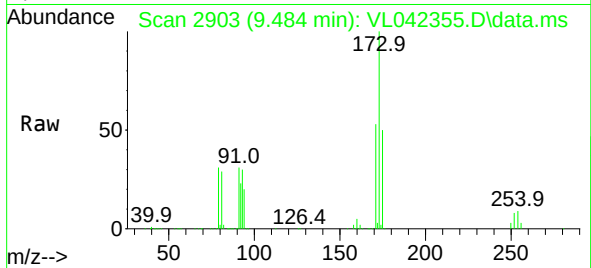
127 76.3 39.1 117.3





#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

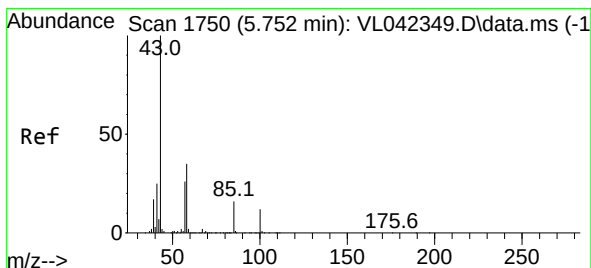
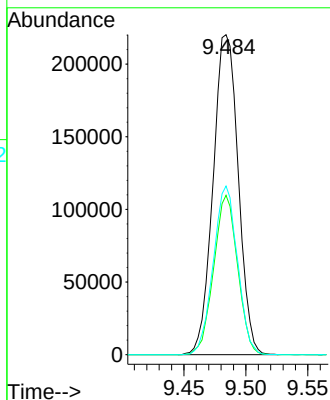
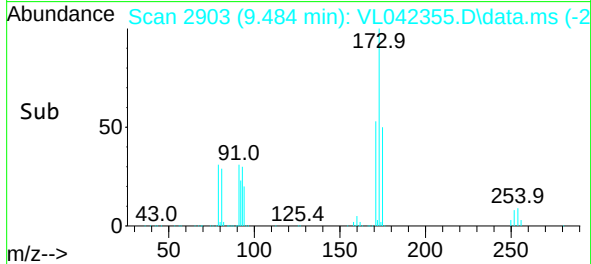
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



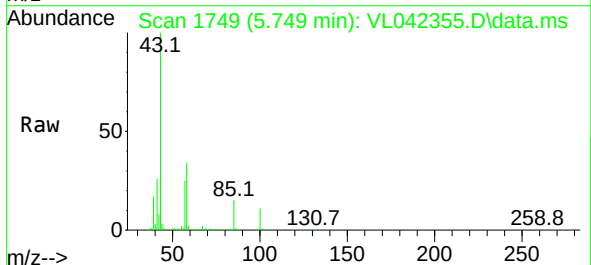
Tgt Ion:173 Resp: 31228
Ion Ratio Lower Upper
173 100
175 47.3 38.2 57.2
171 50.6 40.9 61.3

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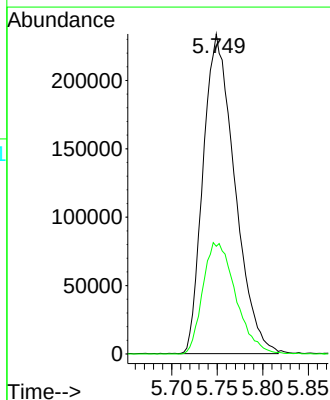
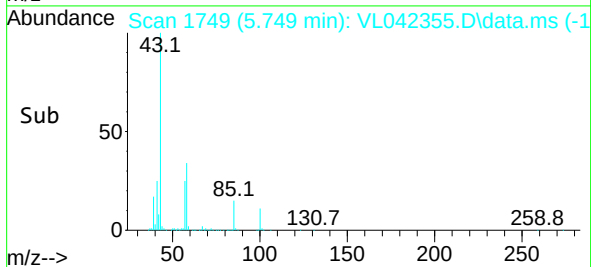
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

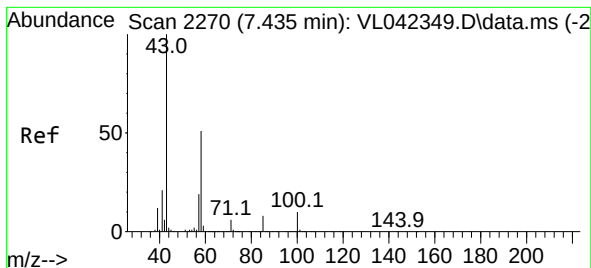


#50
4-Methyl-2-Pentanone
Concen: 12.889 ppbv
RT: 5.749 min Scan# 1749
Delta R.T. -0.003 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54



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 :

VSTDICC015

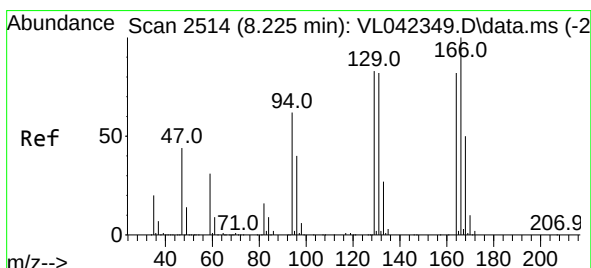
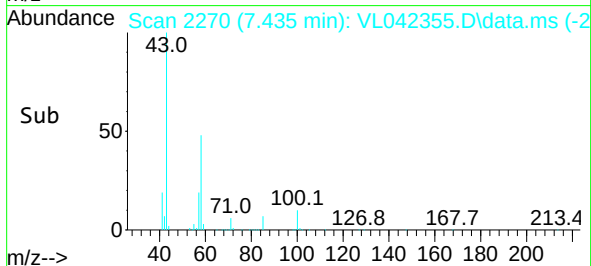
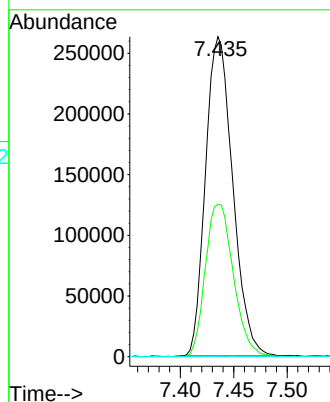
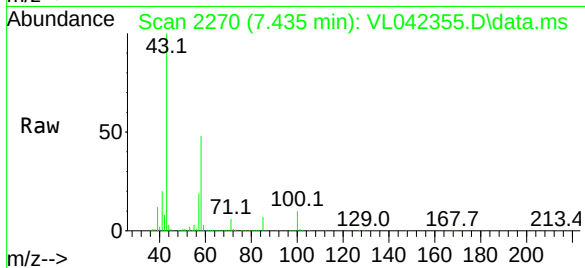
Tgt Ion: 43 Resp: 46700

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

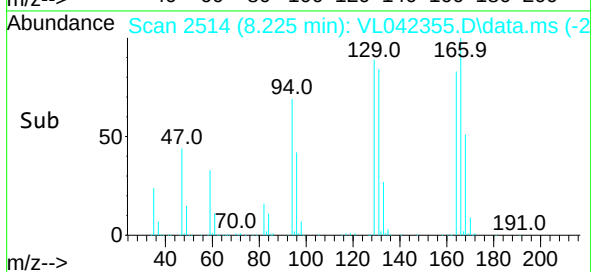
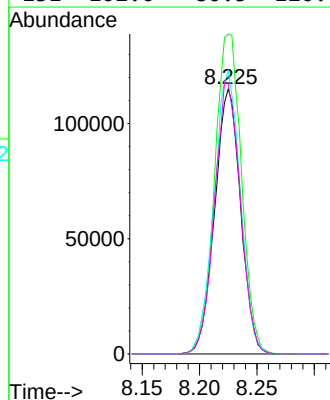
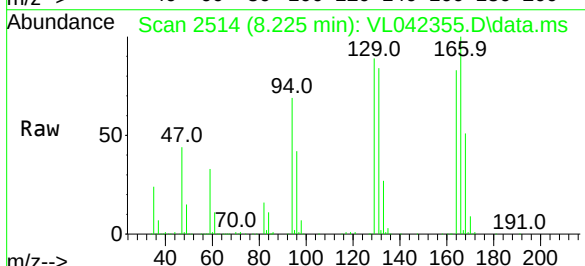
Delta R.T. 0.000 min

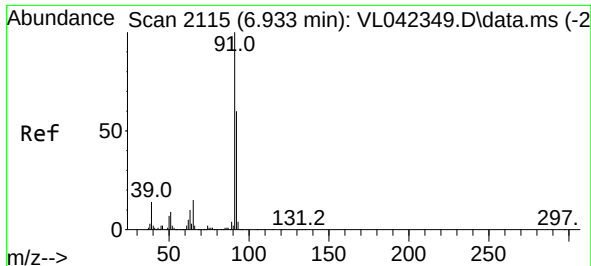
Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

Tgt Ion:164 Resp: 180631

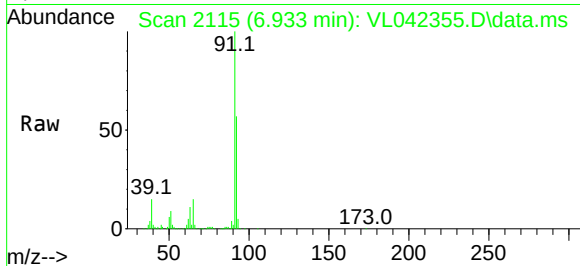
Ion	Ratio	Lower	Upper
164	100		
166	120.8	98.2	147.2
129	107.0	81.8	122.8
131	102.0	80.5	120.7





#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

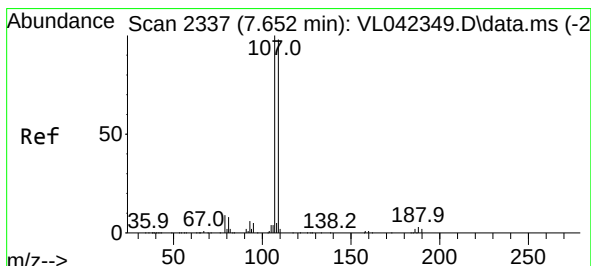
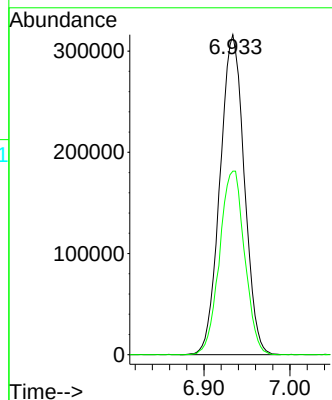
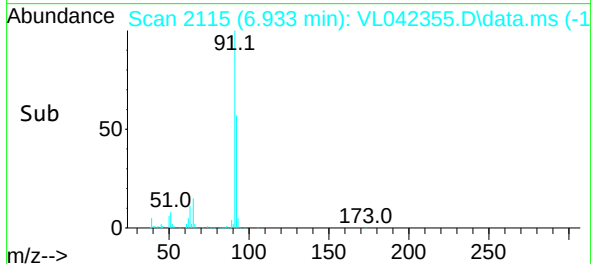
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



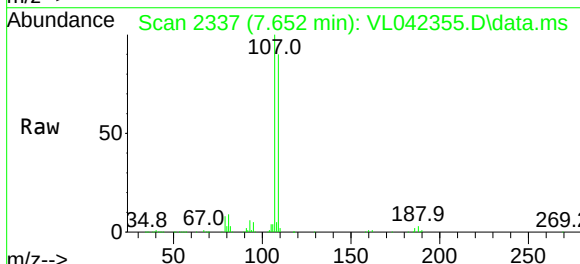
Tgt Ion: 91 Resp: 619420
Ion Ratio Lower Upper
91 100
92 59.3 48.2 72.4

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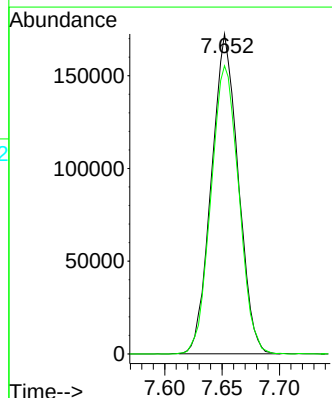
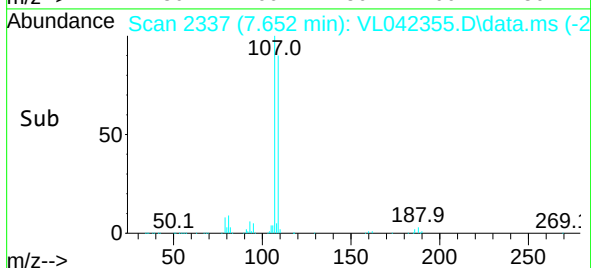
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

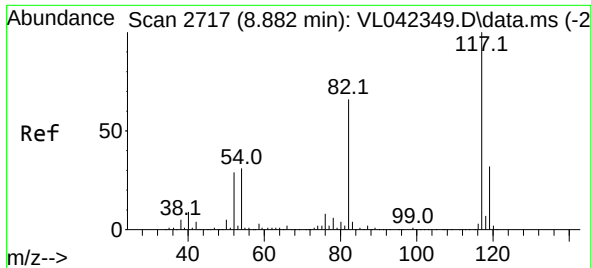


#54
1,2-Dibromoethane
Concen: 14.442 ppbv
RT: 7.652 min Scan# 2337
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54



Tgt Ion:107 Resp: 280071
Ion Ratio Lower Upper
107 100
109 89.9 78.2 117.4





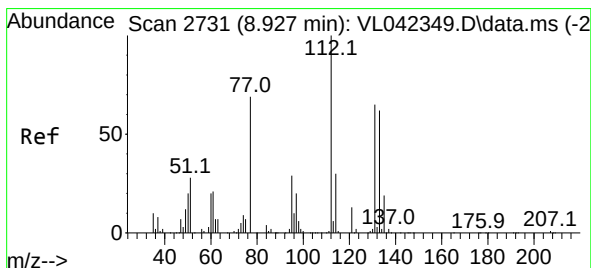
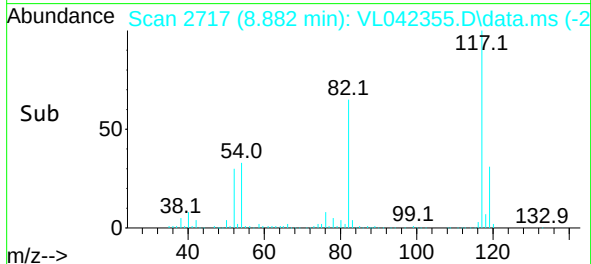
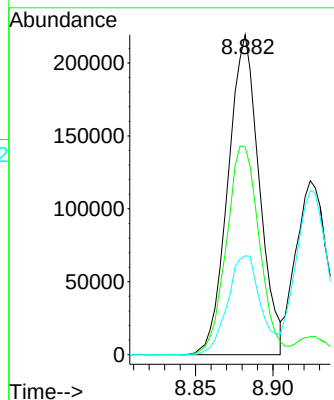
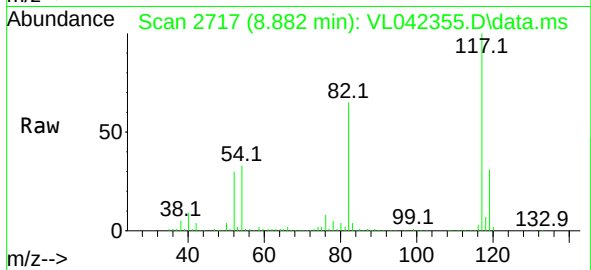
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2717
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

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

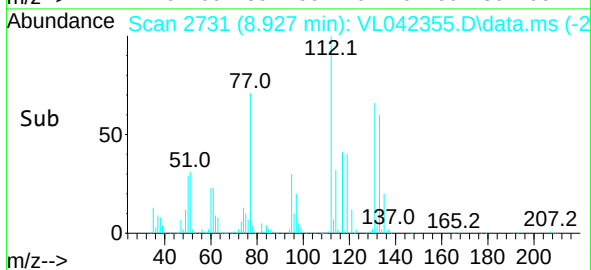
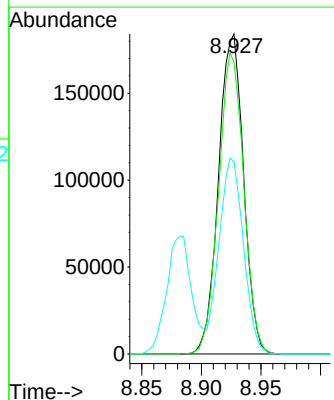
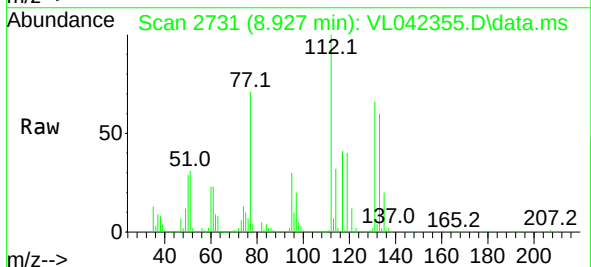
Manual Integrations
APPROVED

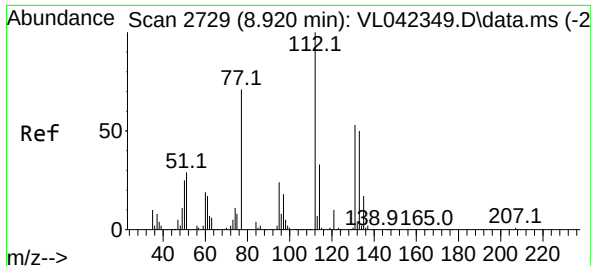
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

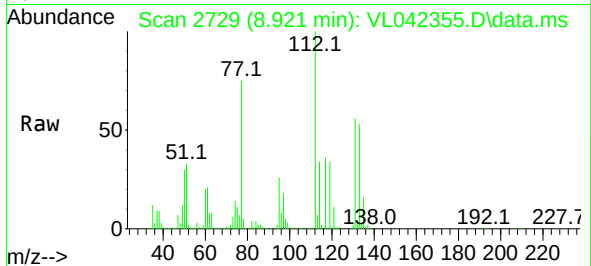
Tgt Ion:131 Resp: 268626
Ion Ratio Lower Upper
131 100
133 94.6 78.3 117.5
119 59.4 48.7 73.1





#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

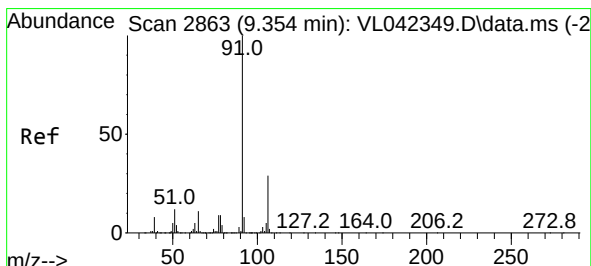
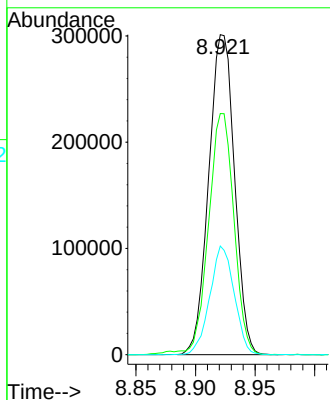
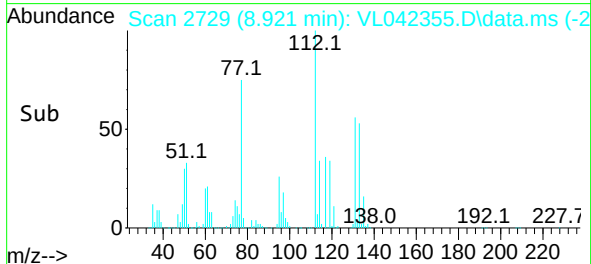
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



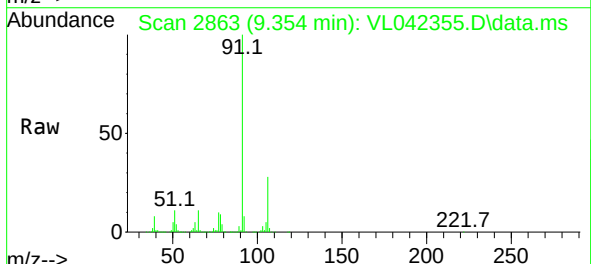
Tgt Ion: 112 Resp: 45401
Ion Ratio Lower Upper
112 100
77 75.3 57.8 86.6
114 33.9 29.3 35.9

Manual Integrations
APPROVED

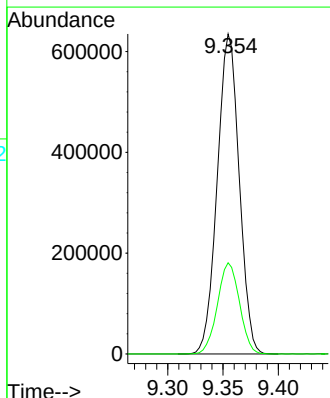
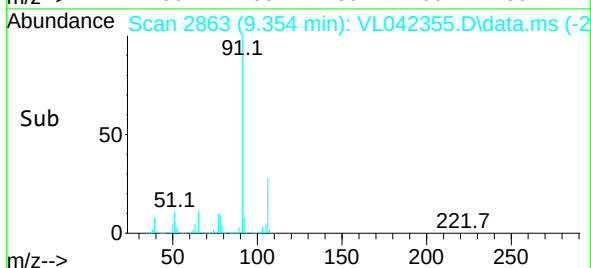
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

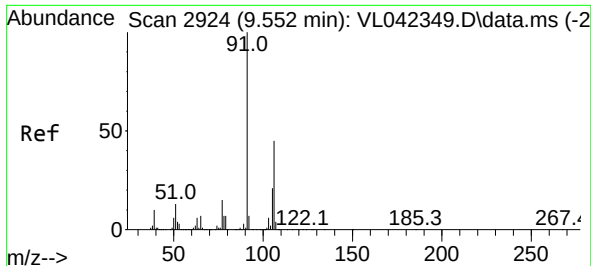


#58
Ethyl Benzene
Concen: 14.308 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54



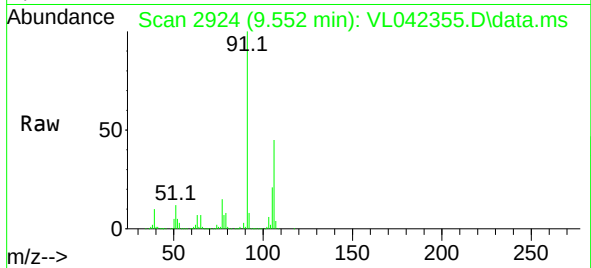
Tgt Ion: 91 Resp: 874424
Ion Ratio Lower Upper
91 100
106 28.5 23.0 34.4





#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

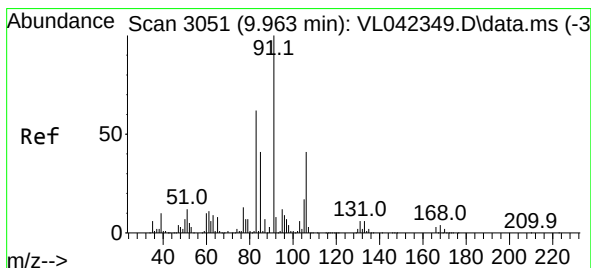
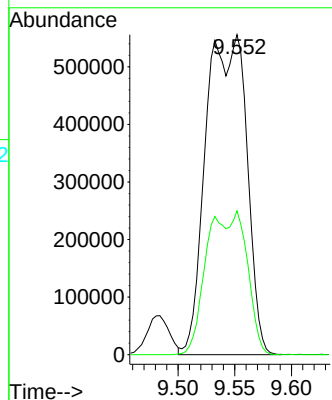
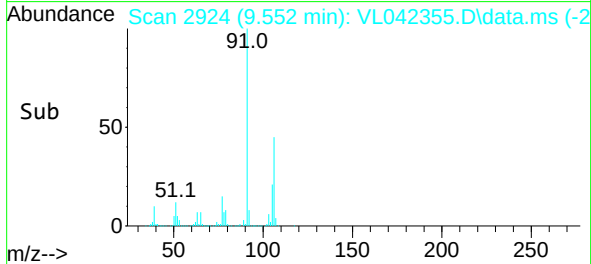
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



Tgt Ion: 91 Resp: 138808
Ion Ratio Lower Upper
91 100
106 44.5 35.4 53.2

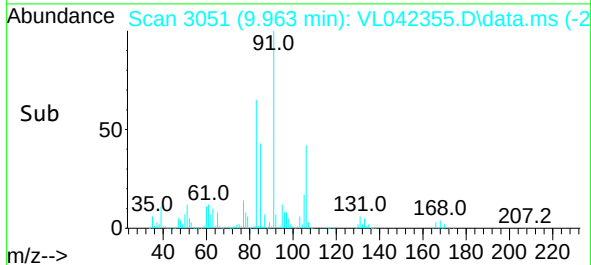
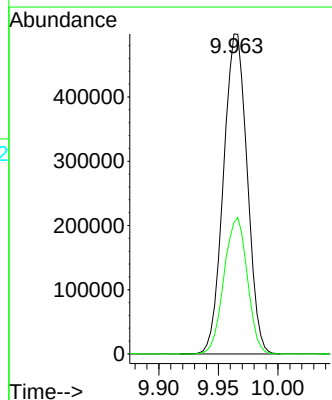
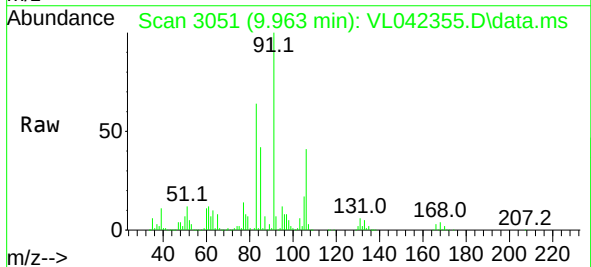
Manual Integrations
APPROVED

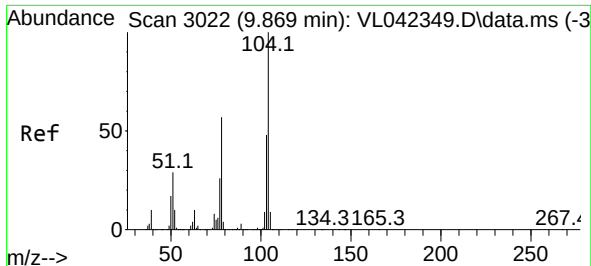
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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





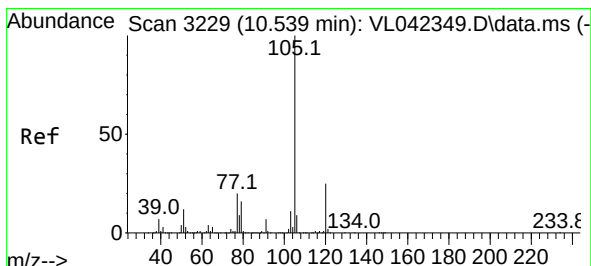
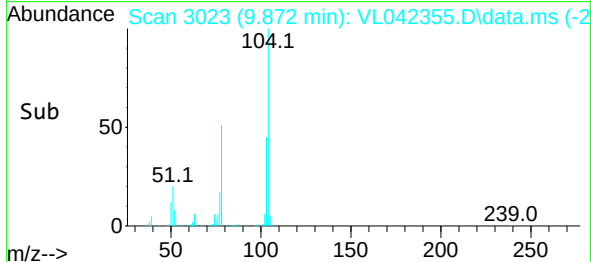
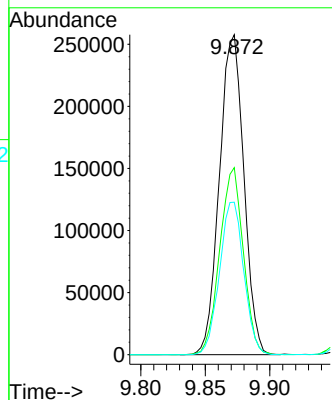
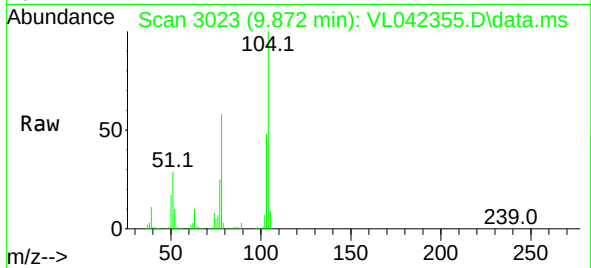
#61
Styrene
Concen: 14.347 ppbv
RT: 9.872 min Scan# 3022
Delta R.T. 0.004 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

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

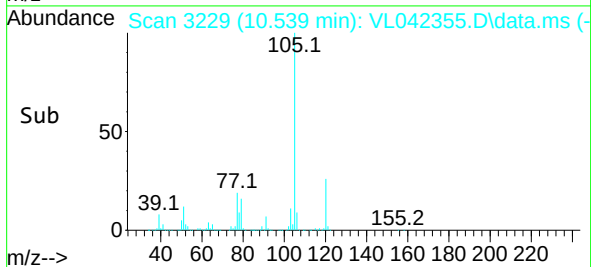
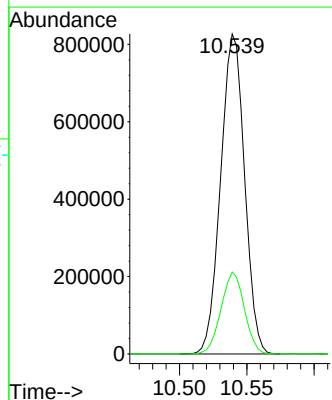
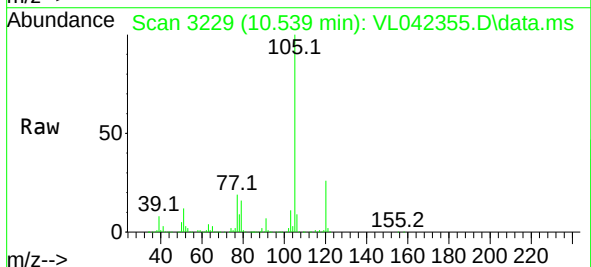
Manual Integrations
APPROVED

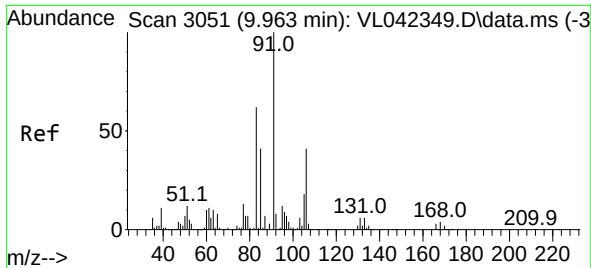
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

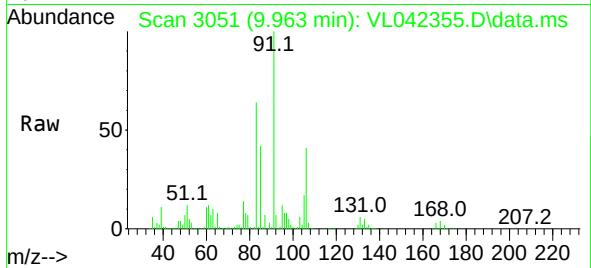
Tgt Ion:105 Resp: 1018968
Ion Ratio Lower Upper
105 100
120 25.0 19.8 29.8





#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

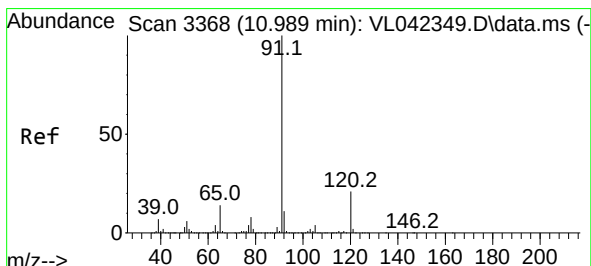
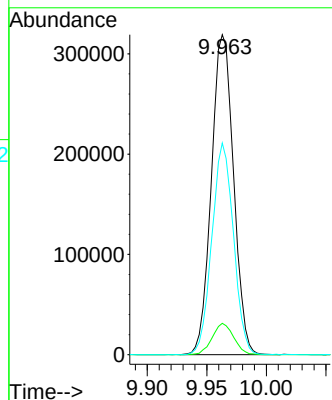
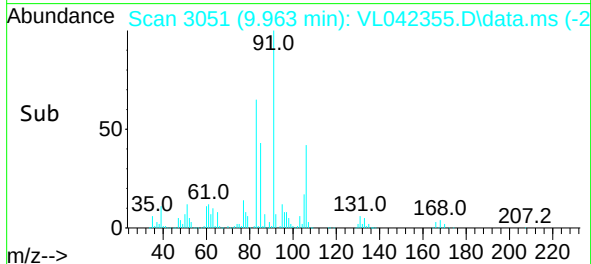
Instrument : MSVOA_1
ClientSampleId : VSTDIC015



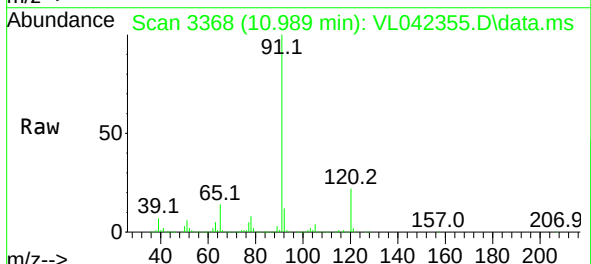
Tgt Ion: 83 Resp: 412898
Ion Ratio Lower Upper
83 100
131 9.5 4.5 13.7
85 64.5 32.4 97.0

Manual Integrations
APPROVED

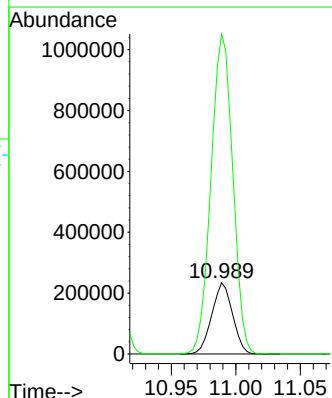
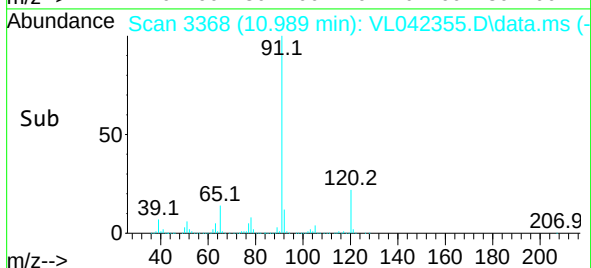
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

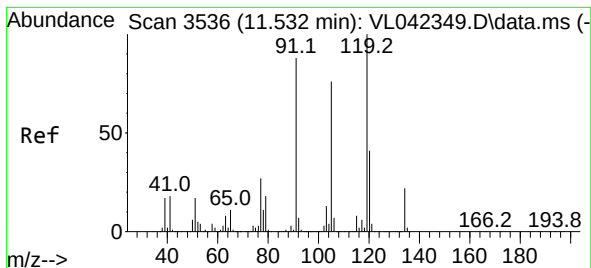


#64
n-propylbenzene
Concen: 14.255 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54



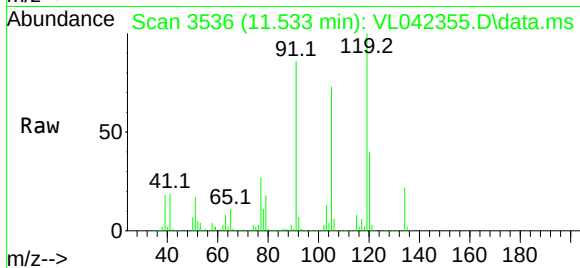
Tgt Ion:120 Resp: 260812
Ion Ratio Lower Upper
120 100
91 473.2 392.4 588.6





#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

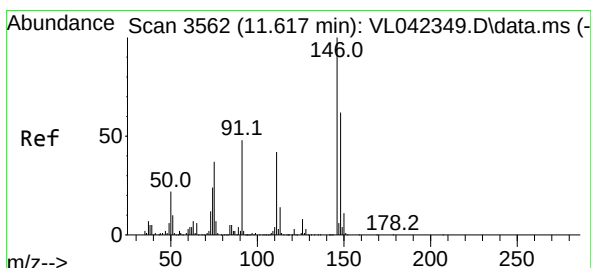
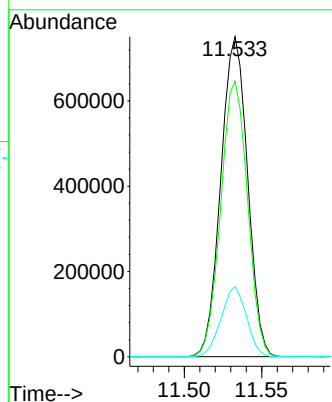
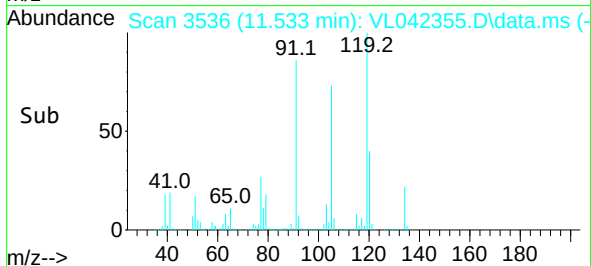
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



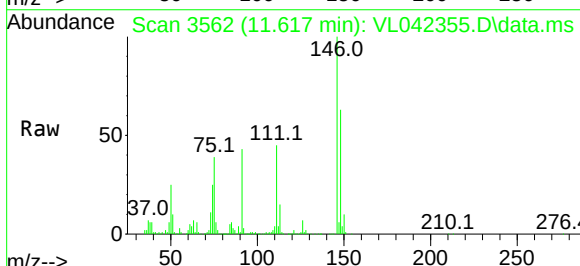
Tgt Ion: 119 Resp: 899720
Ion Ratio Lower Upper
119 100
91 86.2 74.6 111.8
134 20.8 18.8 28.2

Manual Integrations
APPROVED

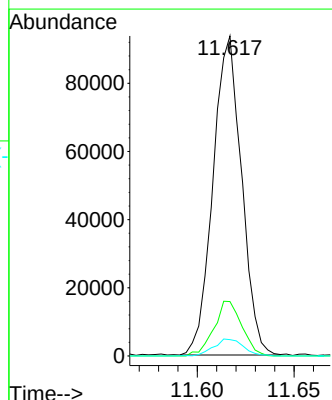
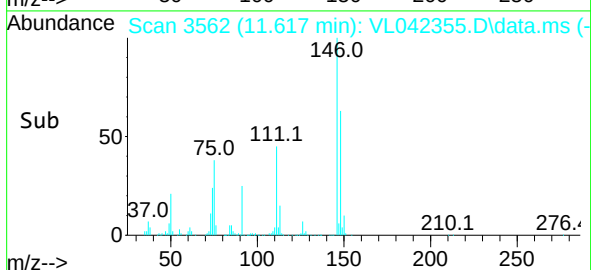
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

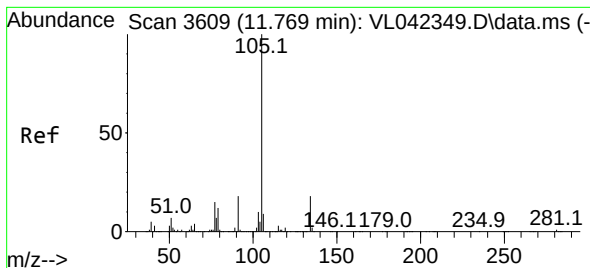


#66
Benzyl Chloride
Concen: 13.061 ppbv
RT: 11.617 min Scan# 3562
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54



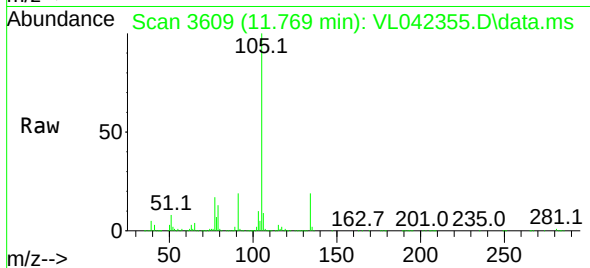
Tgt Ion: 91 Resp: 96016
Ion Ratio Lower Upper
91 100
126 16.8 11.8 17.6
128 5.5 4.5 6.7





#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

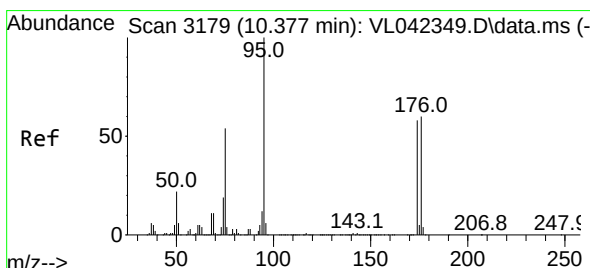
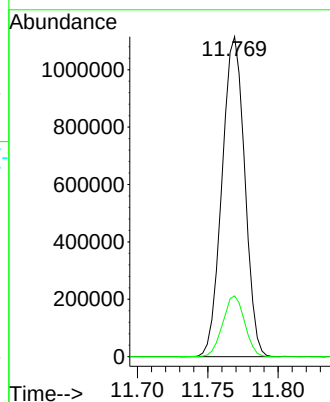
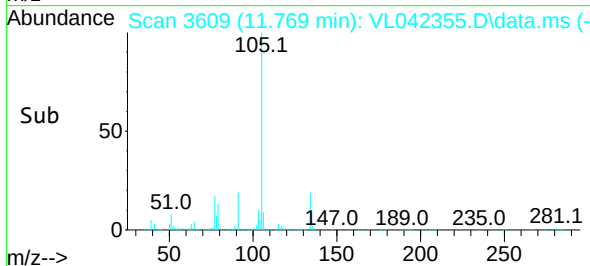
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



Tgt Ion:105 Resp: 125326
Ion Ratio Lower Upper
105 100
134 18.4 14.6 21.8

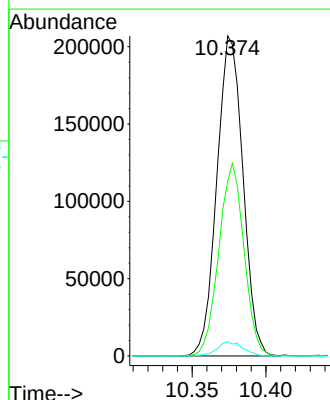
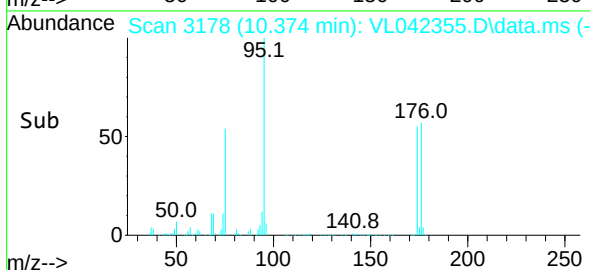
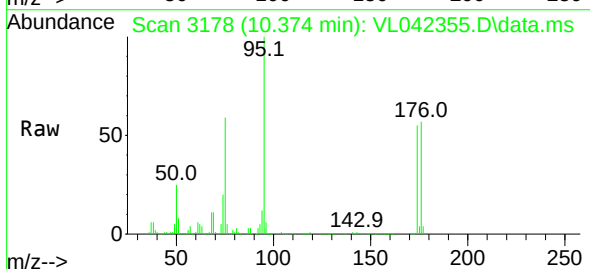
Manual Integrations
APPROVED

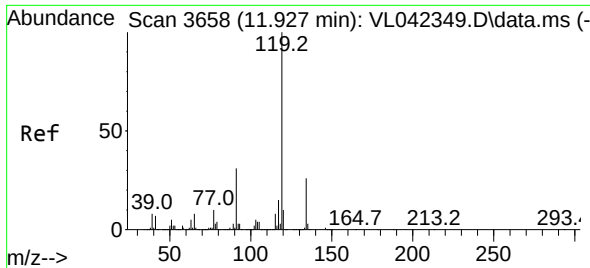
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

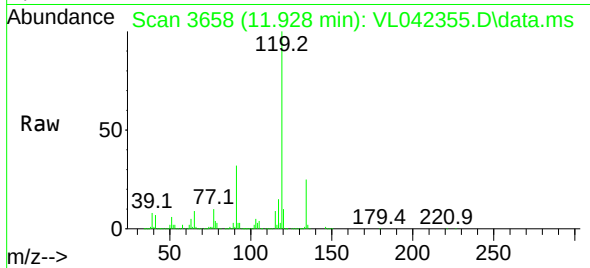
Tgt Ion: 95 Resp: 254437
Ion Ratio Lower Upper
95 100
174 58.1 48.5 72.7
175 4.4 3.7 5.5





#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

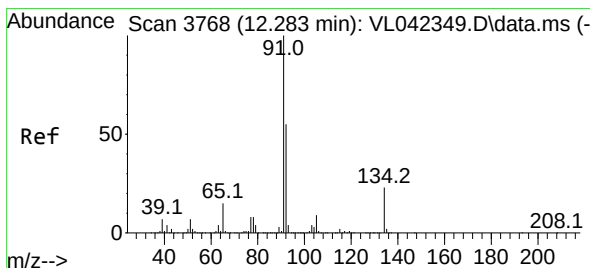
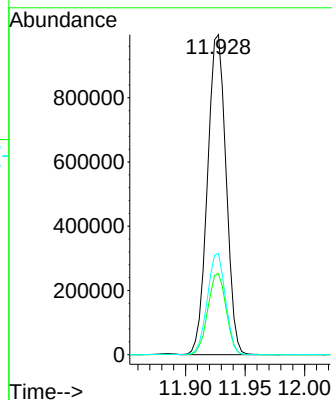
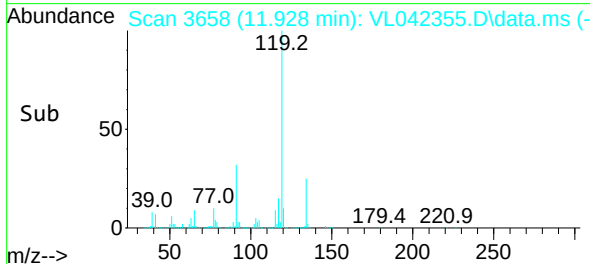
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015



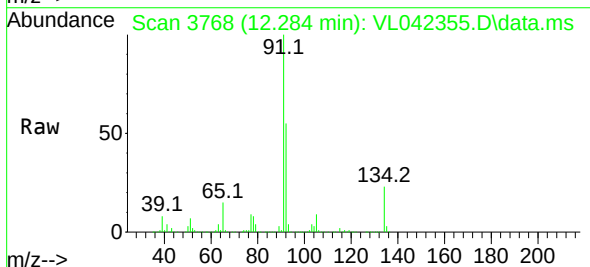
Tgt Ion: 119 Resp: 1081850
Ion Ratio Lower Upper
119 100
134 25.0 20.0 30.0
91 31.1 24.4 36.6

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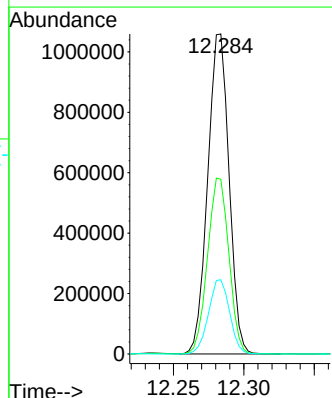
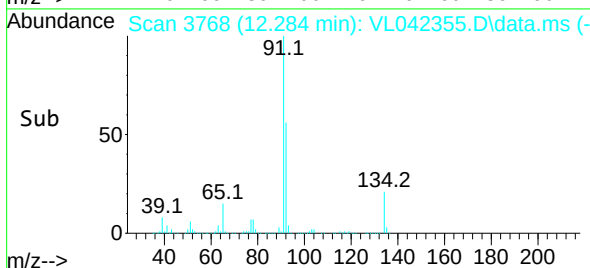
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

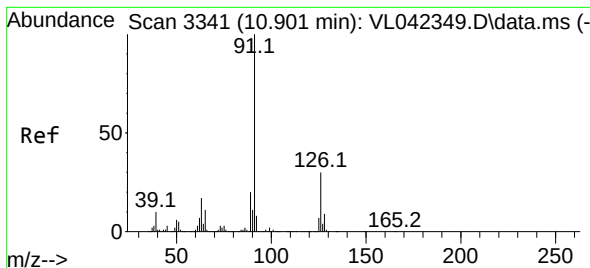


#70
n-Butylbenzene
Concen: 13.266 ppbv
RT: 12.284 min Scan# 3768
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54



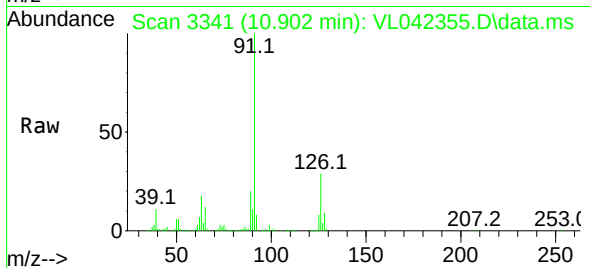
Tgt Ion: 91 Resp: 1117042
Ion Ratio Lower Upper
91 100
92 55.3 44.2 66.4
134 23.0 18.2 27.4





#71
2-Chlorotoluene
Concen: 14.131 ppbv
RT: 10.902 min Scan# 3341
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

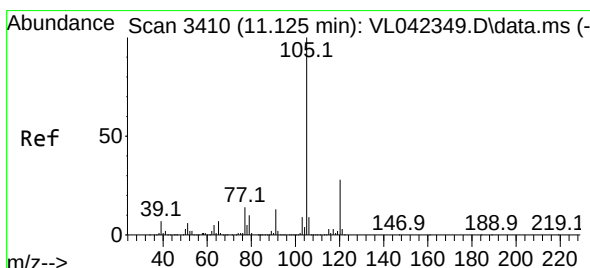
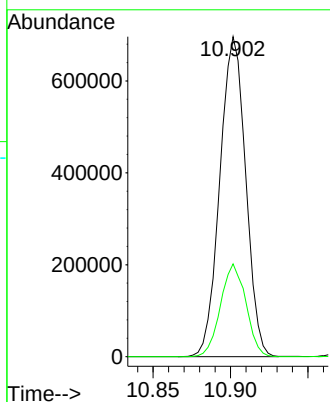
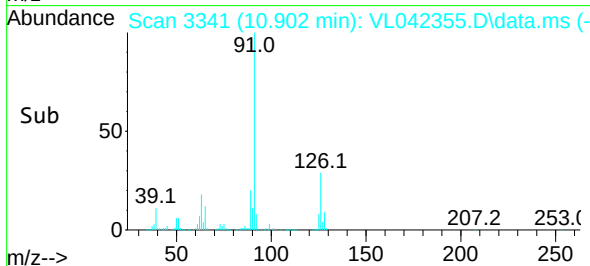
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



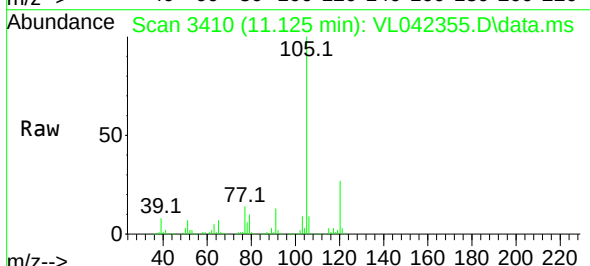
Tgt Ion: 91 Resp: 806728
Ion Ratio Lower Upper
91 100
126 28.4 11.4 45.4

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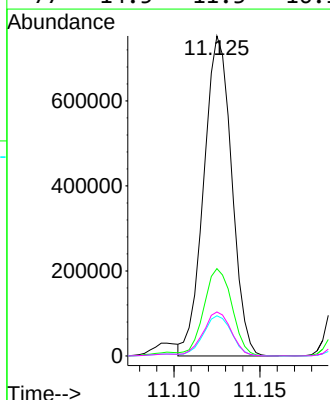
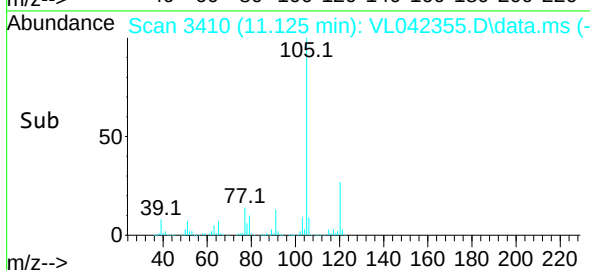
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

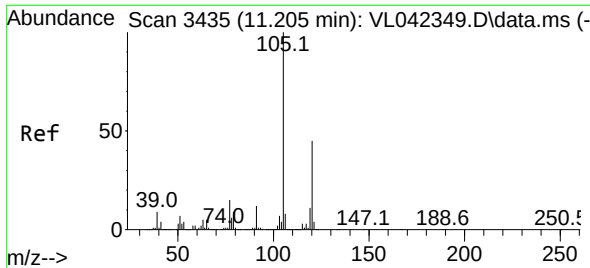


#72
4-Ethyltoluene
Concen: 13.992 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54



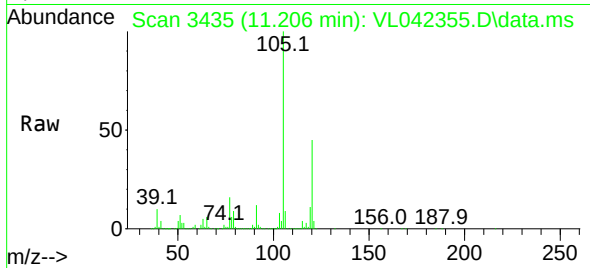
Tgt Ion:105 Resp: 848077
Ion Ratio Lower Upper
105 100
120 28.7 23.2 34.8
91 13.5 10.4 15.6
77 14.5 11.3 16.9





#73
1,3,5-Trimethylbenzene
Concen: 13.578 ppbv
RT: 11.206 min Scan# 3435
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

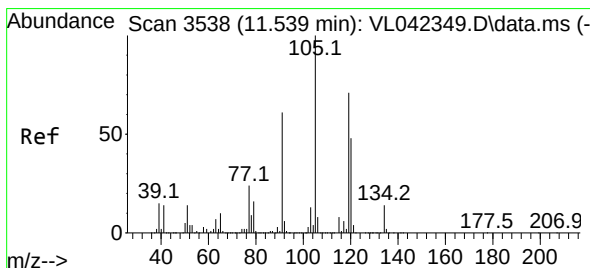
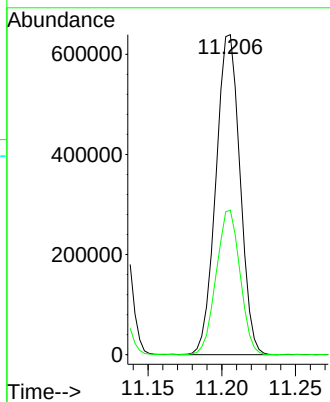
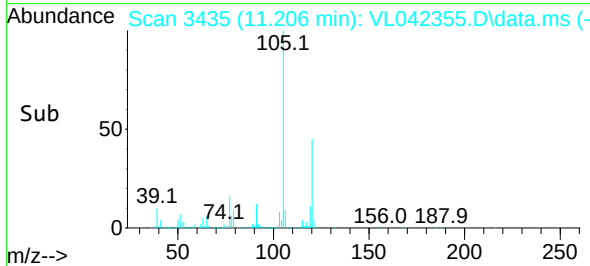
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



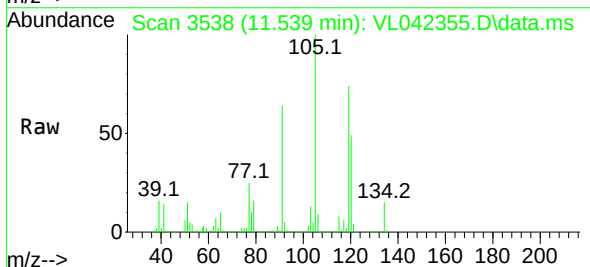
Tgt Ion:105 Resp: 726558
Ion Ratio Lower Upper
105 100
120 45.1 35.6 53.4

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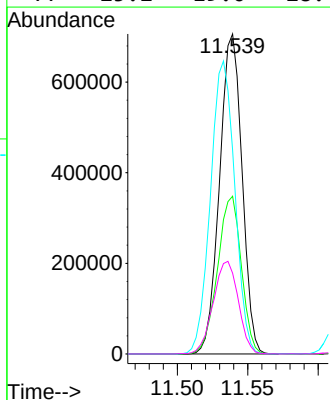
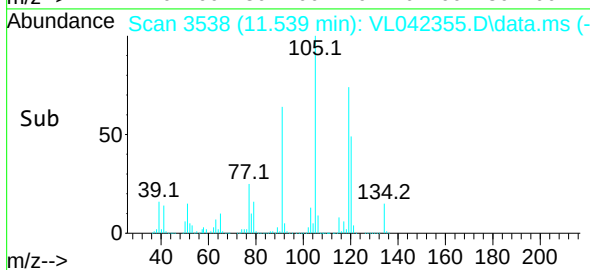
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

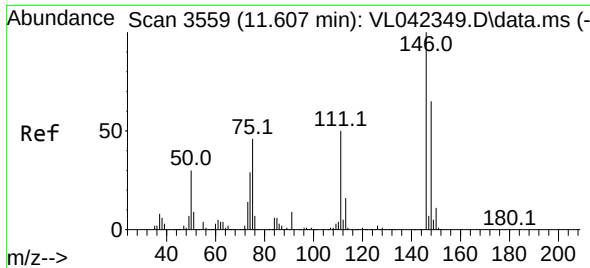


#74
1,2,4-Trimethylbenzene
Concen: 12.572 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54



Tgt Ion:105 Resp: 785772
Ion Ratio Lower Upper
105 100
120 49.3 38.1 57.1
91 63.7 48.8 73.2
77 25.2 19.0 28.4





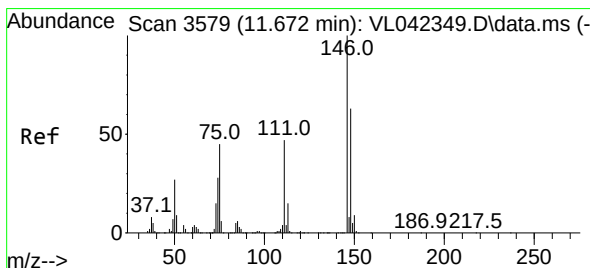
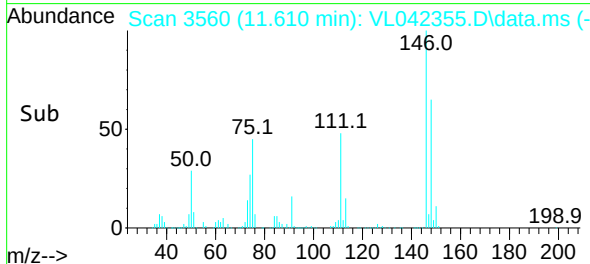
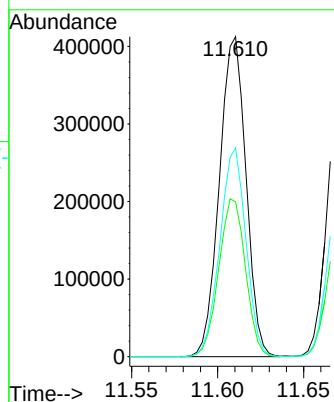
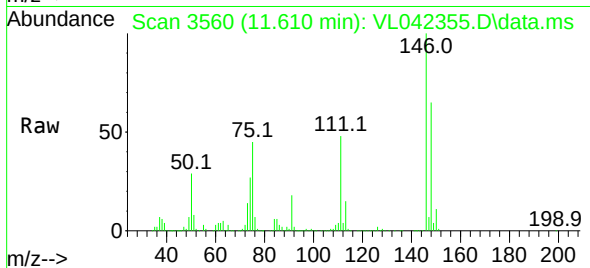
#75
1,3-Dichlorobenzene
Concen: 13.670 ppbv
RT: 11.610 min Scan# 3559
Delta R.T. 0.004 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:146 Resp: 444080
Ion Ratio Lower Upper
146 100
111 49.6 24.3 72.8
148 63.9 31.6 94.8

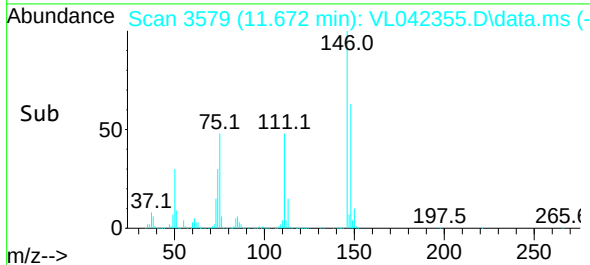
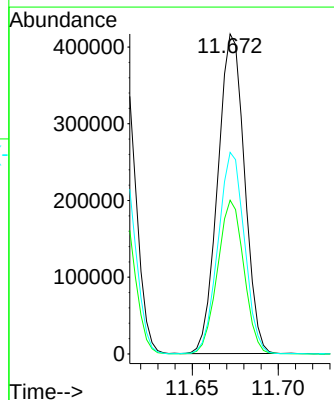
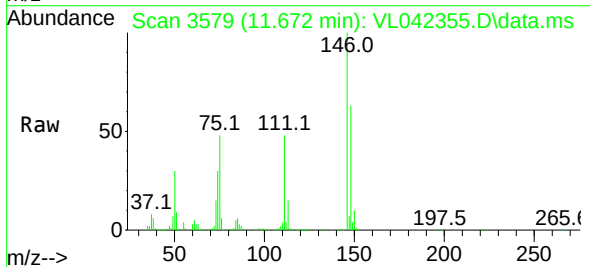
Manual Integrations
APPROVED

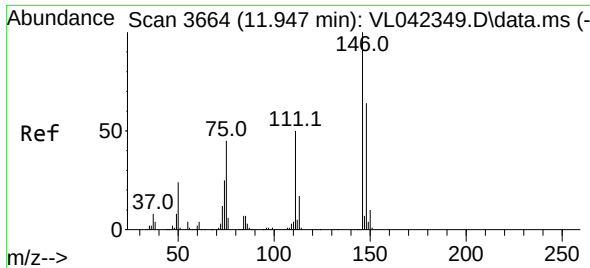
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#76
1,4-Dichlorobenzene
Concen: 13.802 ppbv
RT: 11.672 min Scan# 3579
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

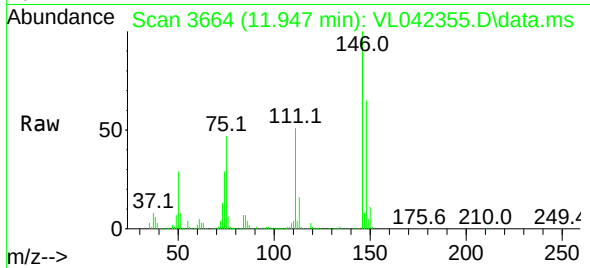
Tgt Ion:146 Resp: 450662
Ion Ratio Lower Upper
146 100
111 47.4 24.2 72.6
148 62.6 32.1 96.5





#77
1,2-Dichlorobenzene
Concen: 13.529 ppbv
RT: 11.947 min Scan# 3664
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

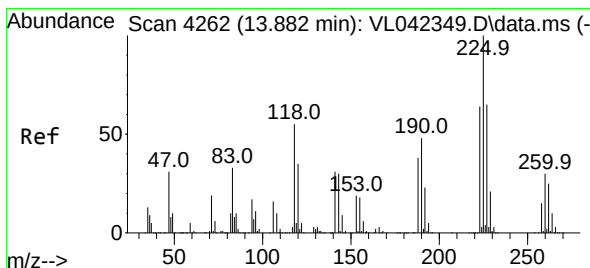
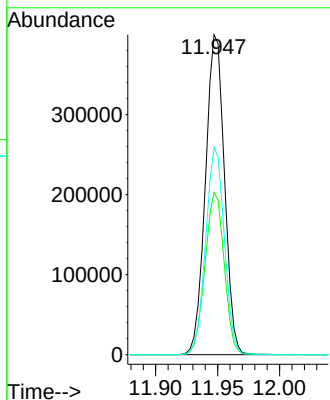
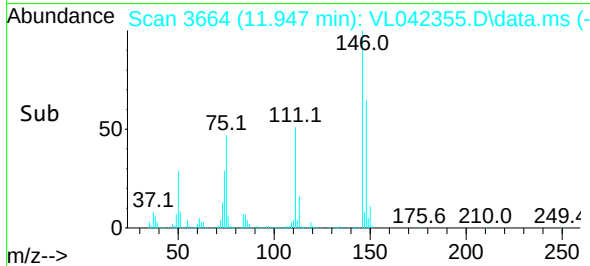
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



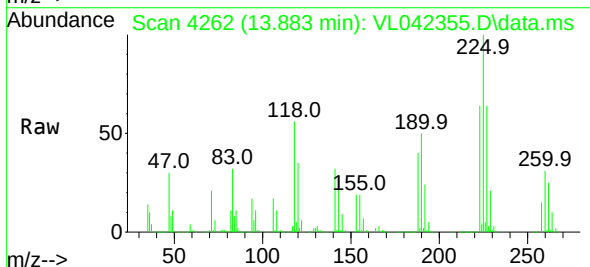
Tgt Ion:146 Resp: 427372
Ion Ratio Lower Upper
146 100
111 51.3 25.3 75.9
148 63.8 31.5 94.5

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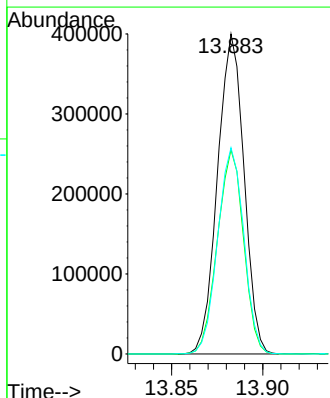
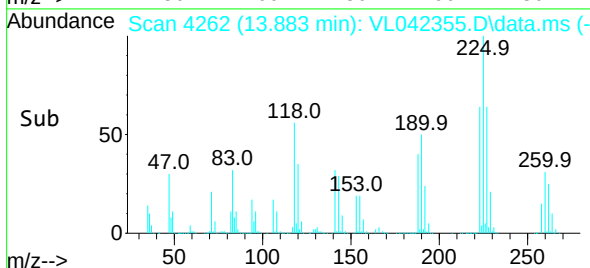
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

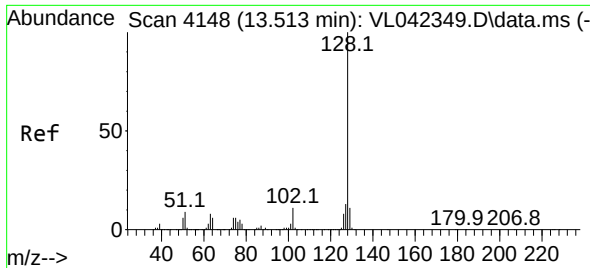


#78
Hexachloro-1,3-Butadiene
Concen: 12.679 ppbv
RT: 13.883 min Scan# 4262
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54



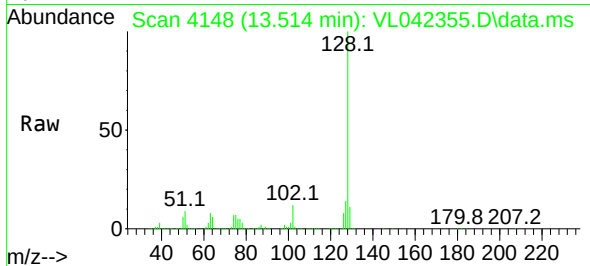
Tgt Ion:225 Resp: 404441
Ion Ratio Lower Upper
225 100
223 62.8 50.3 75.5
227 63.8 51.5 77.3





#79
Naphthalene
Concen: 12.632 ppbv
RT: 13.514 min Scan# 4148
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

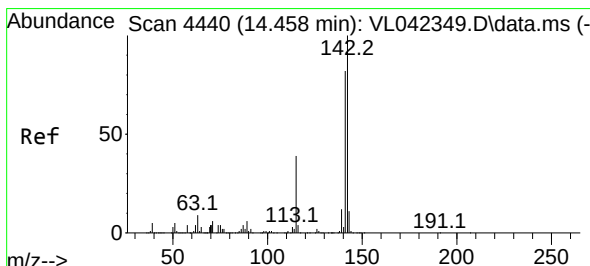
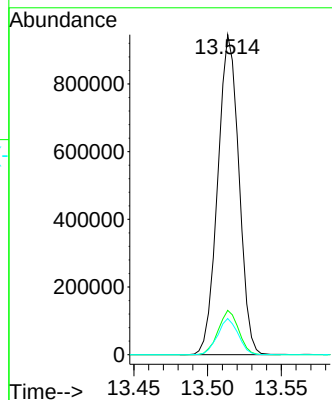
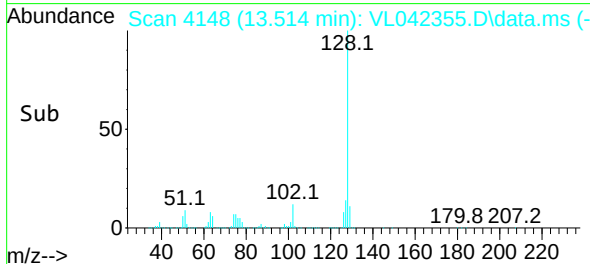
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



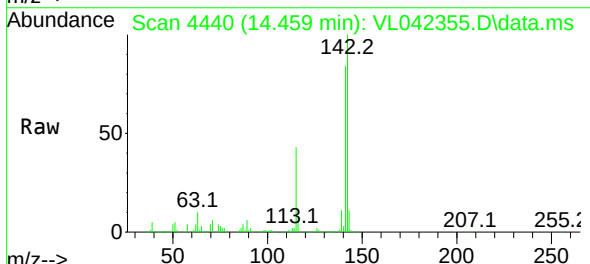
Tgt Ion:128 Resp: 944085
Ion Ratio Lower Upper
128 100
127 13.9 10.6 15.8
129 11.3 8.6 12.8

Manual Integrations
APPROVED

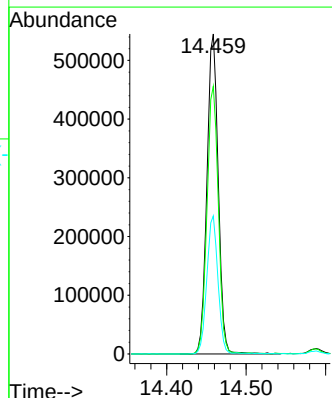
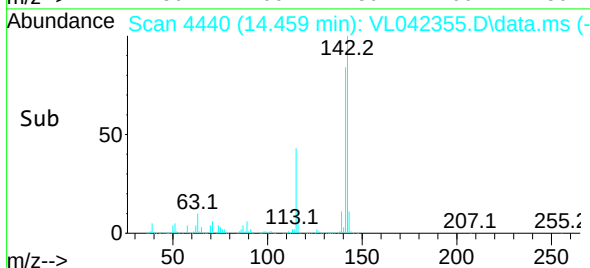
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

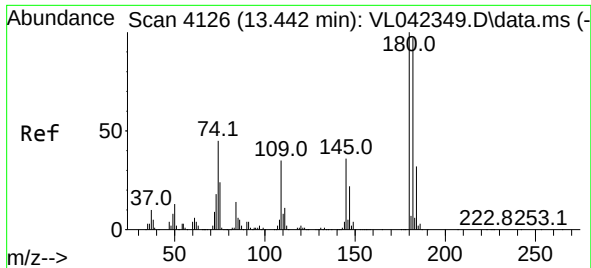


#80
Naphthalene,2-methyl-
Concen: 12.686 ppbv
RT: 14.459 min Scan# 4440
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54



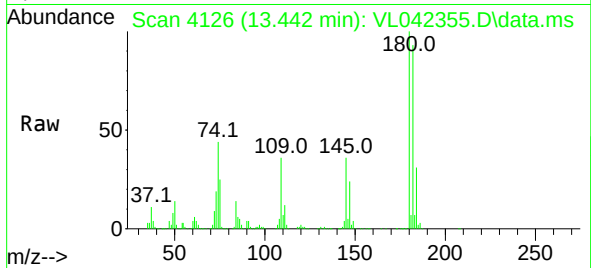
Tgt Ion:142 Resp: 540339
Ion Ratio Lower Upper
142 100
141 84.3 66.8 100.2
115 43.0 33.4 50.2





#81
 1,2,4-Trichlorobenzene
 Concen: 13.398 ppbv
 RT: 13.442 min Scan# 41
 Delta R.T. 0.000 min
 Lab File: VL042355.D
 Acq: 17 Apr 2025 12:54

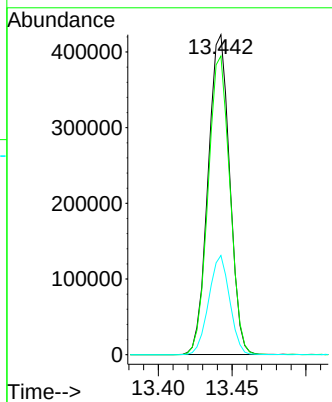
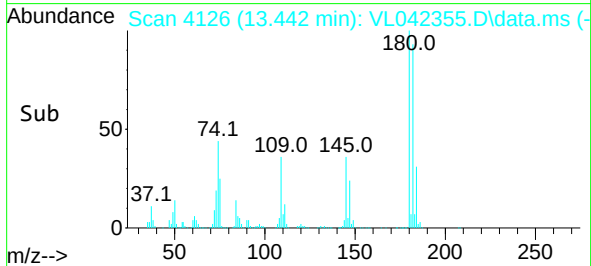
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



Tgt Ion:180 Resp: 42998
 Ion Ratio Lower Upper
 180 100
 182 94.3 76.8 115.2
 184 30.2 24.6 36.8

Manual Integrations
 APPROVED

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042356.D
 Acq On : 17 Apr 2025 13:43
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 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 2025

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

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 2

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

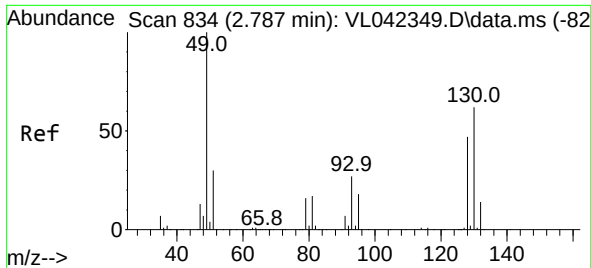
Response via : Initial Calibration

Manual Integrations APPROVED

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

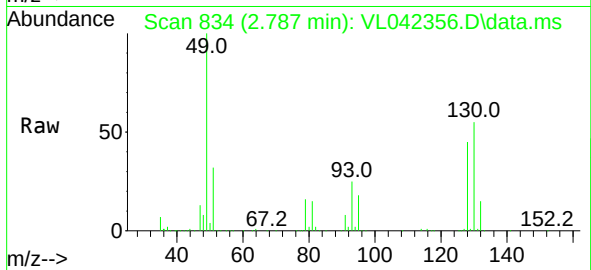
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.599	75	200144	10.148	ppbv	88
47) 1,1,2-Trichloroethane	6.583	97	135575	10.202	ppbv	95
48) Dibromochloromethane	7.389	129	237206	10.103	ppbv	100
49) Bromoform	9.483	173	205630	10.016	ppbv	99
50) 4-Methyl-2-Pentanone	5.748	43	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

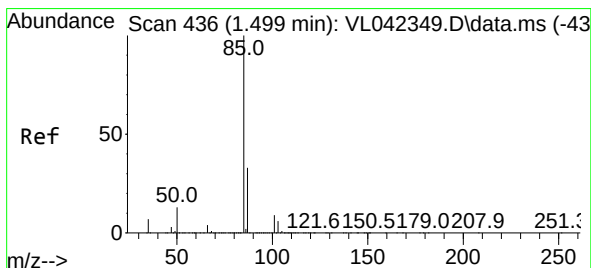
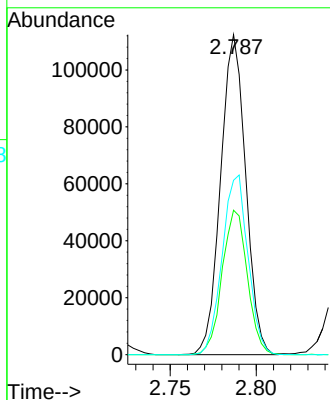
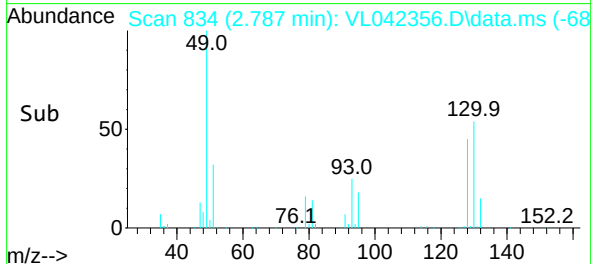
Instrument : MSVOA_L
ClientSampleId : ICVVL041725



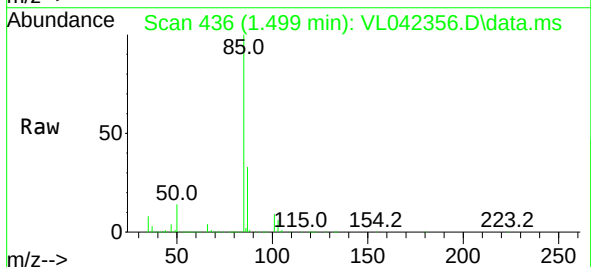
Tgt Ion: 49 Resp: 113992
Ion Ratio Lower Upper
49 100
128 45.5 22.8 68.4
130 57.8 29.3 88.0

Manual Integrations
APPROVED

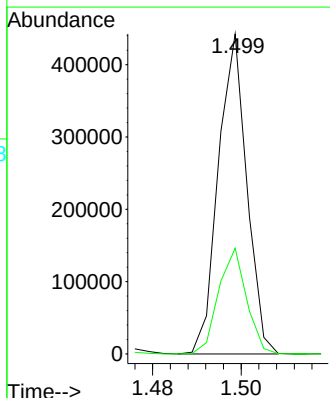
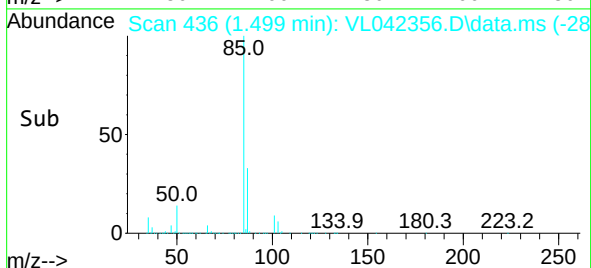
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

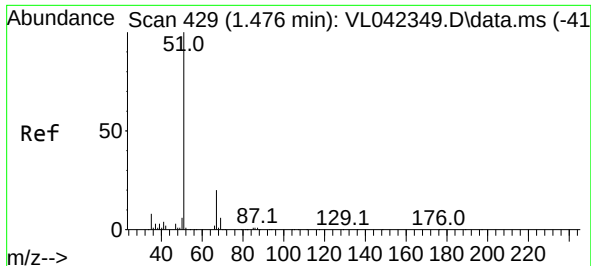


#2
Dichlorodifluoromethane
Concen: 9.812 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43



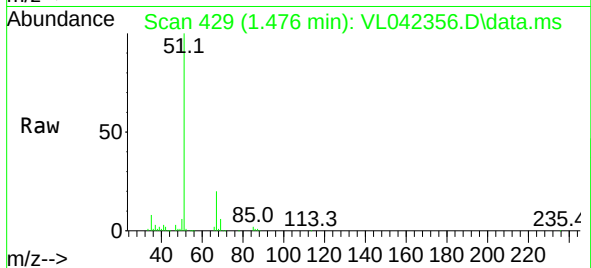
Tgt Ion: 85 Resp: 197623
Ion Ratio Lower Upper
85 100
87 33.1 26.6 39.8





#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

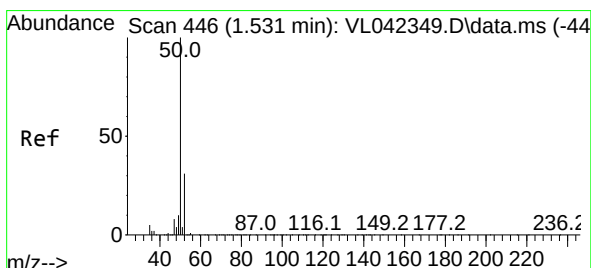
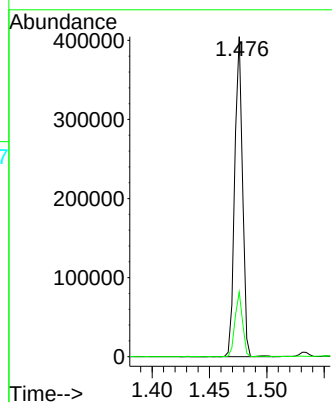
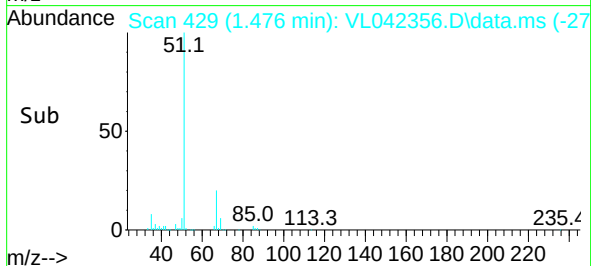
Instrument : MSVOA_L
ClientSampleId : ICVVL041725



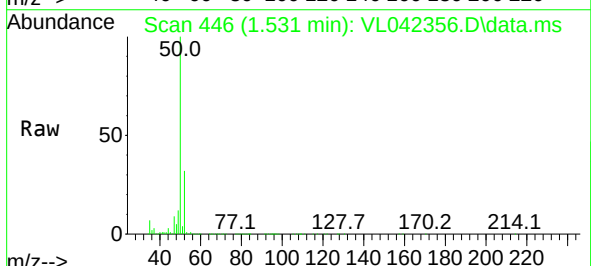
Tgt Ion: 51 Resp: 191010
Ion Ratio Lower Upper
51 100
67 19.6 16.2 24.4

Manual Integrations
APPROVED

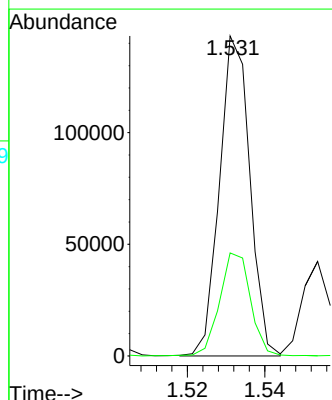
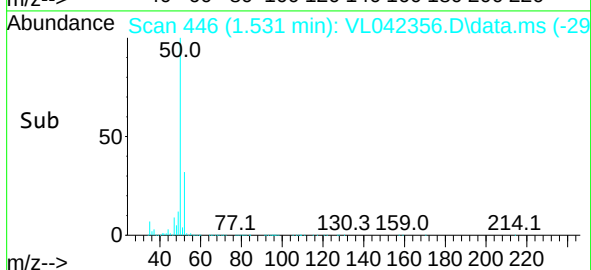
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

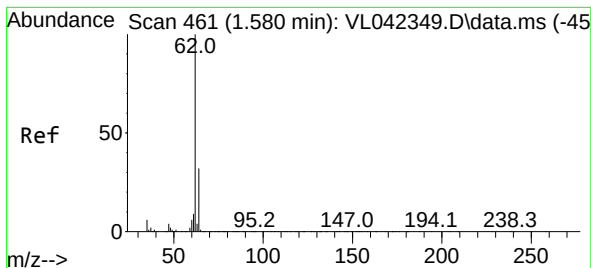


#4
Chloromethane
Concen: 9.796 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43



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

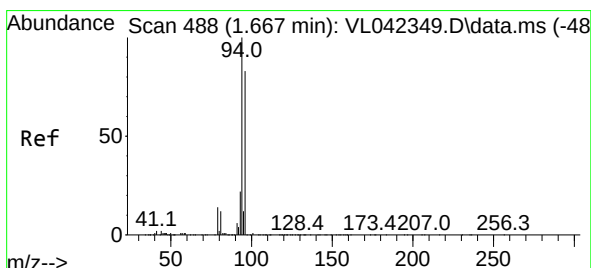
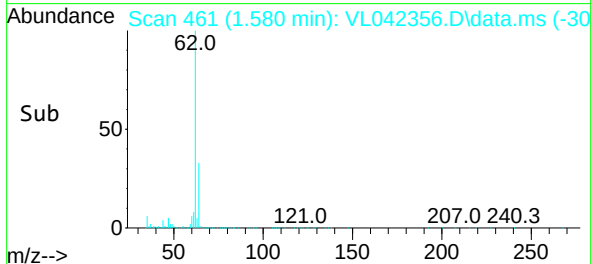
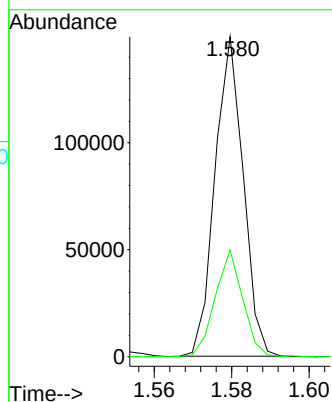
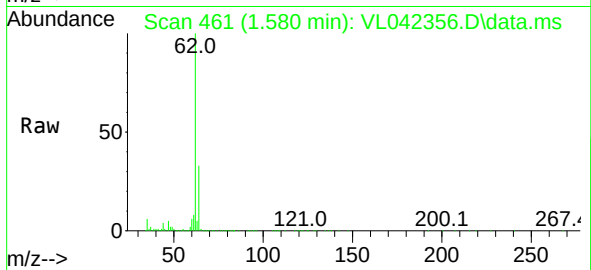
64 33.3 25.4 38.0

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

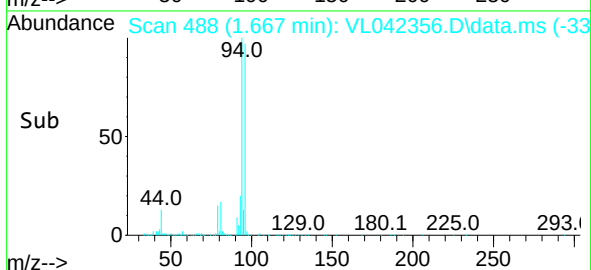
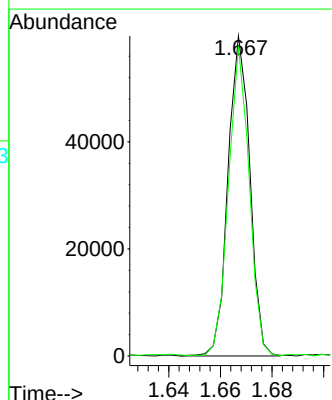
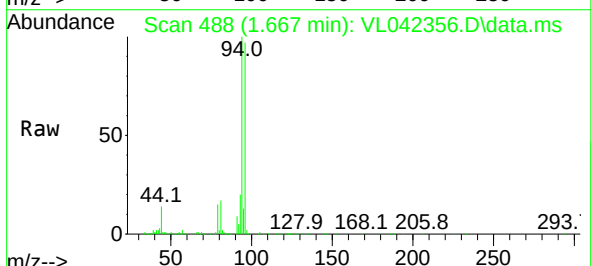
Acq: 17 Apr 2025 13:43

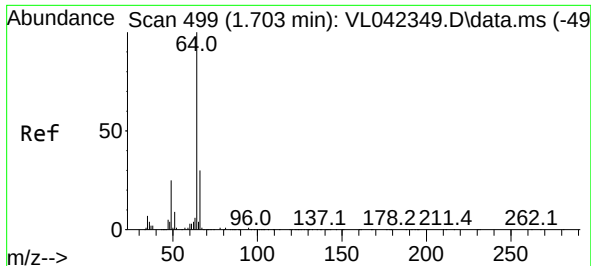
Tgt Ion: 94 Resp: 35115

Ion Ratio Lower Upper

94 100

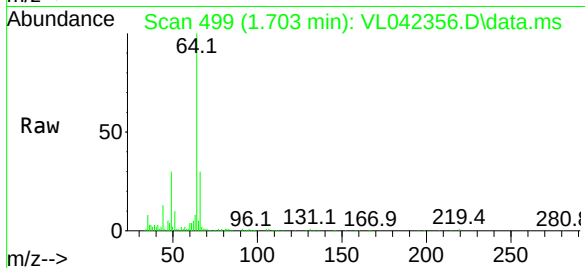
96 96.8 66.2 99.2





#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

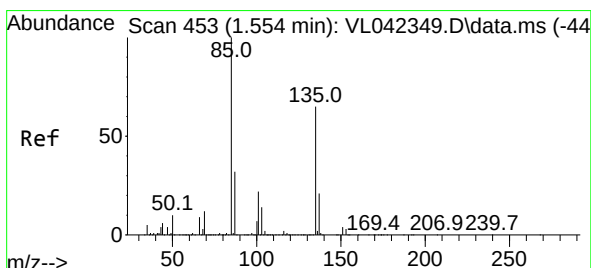
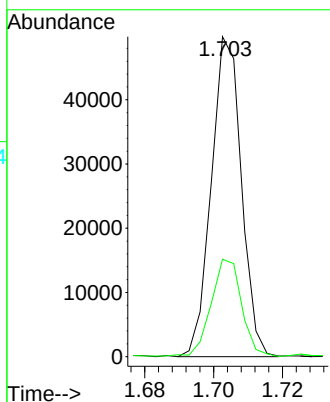
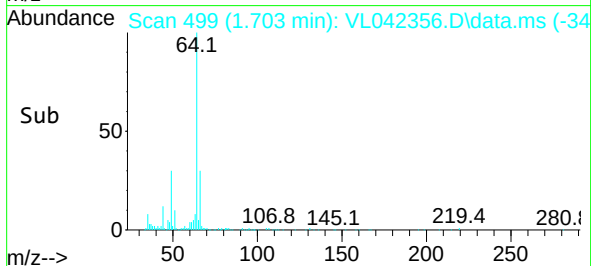
Instrument : MSVOA_L
ClientSampleId : ICVVL041725



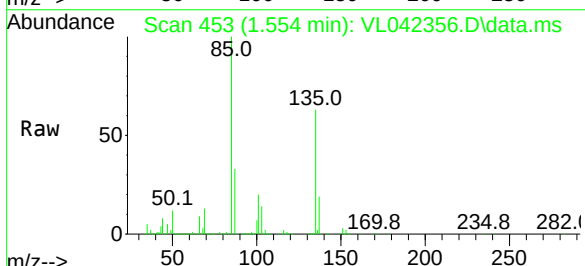
Tgt Ion: 64 Resp: 30158
Ion Ratio Lower Upper
64 100
66 30.4 24.6 37.0

Manual Integrations
APPROVED

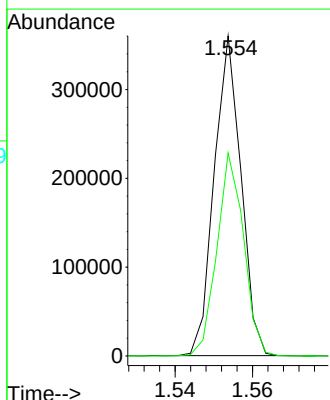
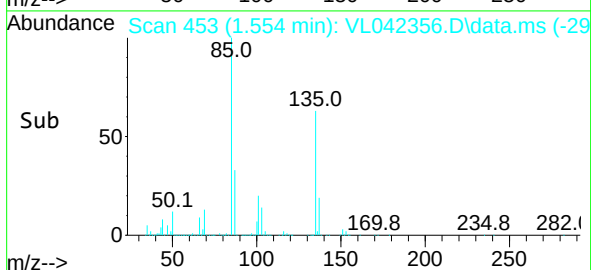
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

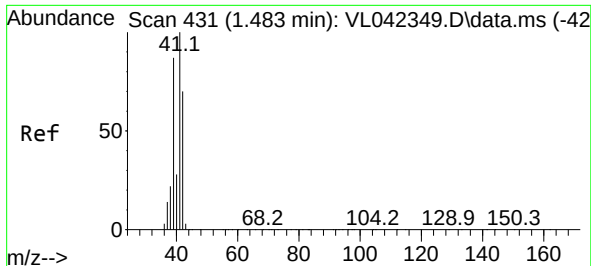


#8
Dichlorotetrafluoroethane
Concen: 9.997 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43



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

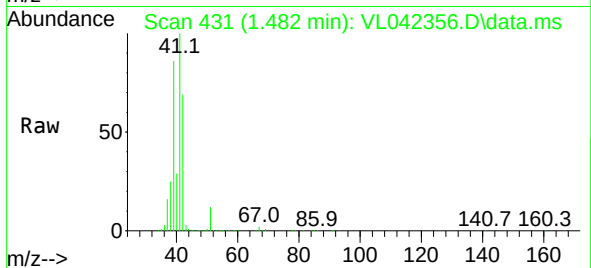
Acq: 17 Apr 2025 13:43

Instrument :

MSVOA_L

ClientSampleId :

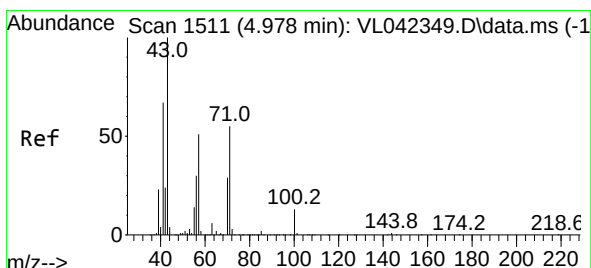
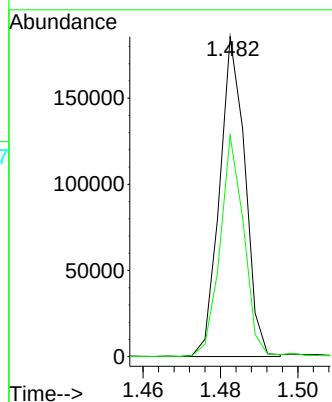
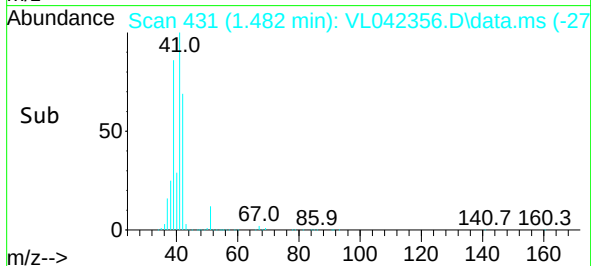
ICVVL041725



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

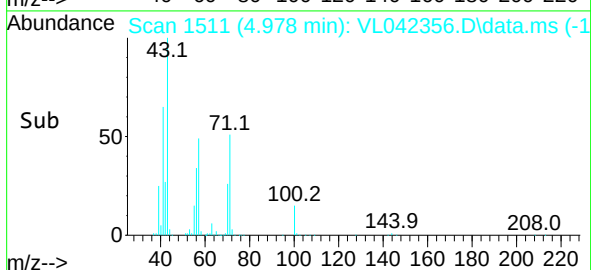
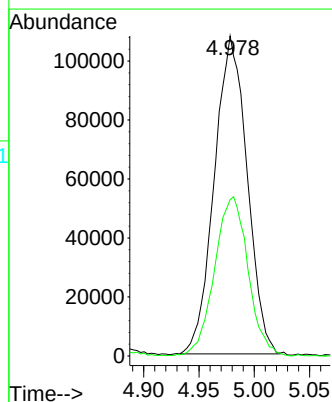
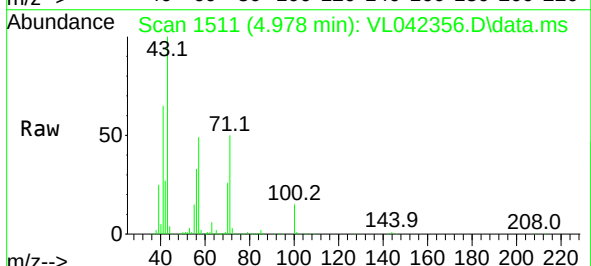
RT: 4.978 min Scan# 1511

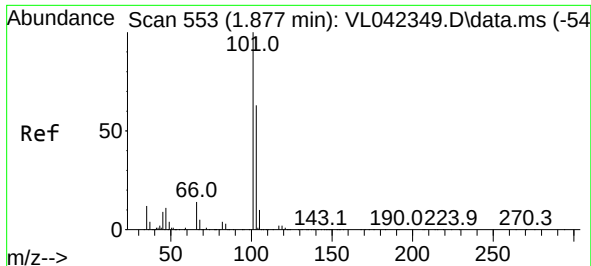
Delta R.T. -0.000 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

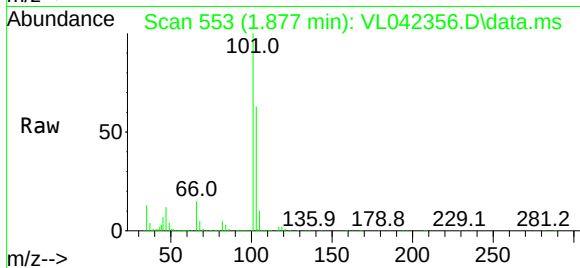
Tgt Ion: 43 Resp: 221840
 Ion Ratio Lower Upper
 43 100
 57 51.4 39.9 59.9





#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

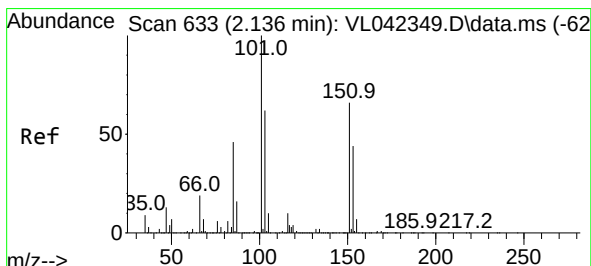
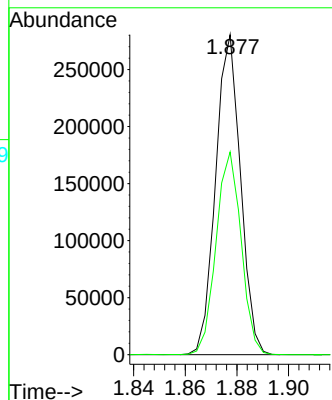
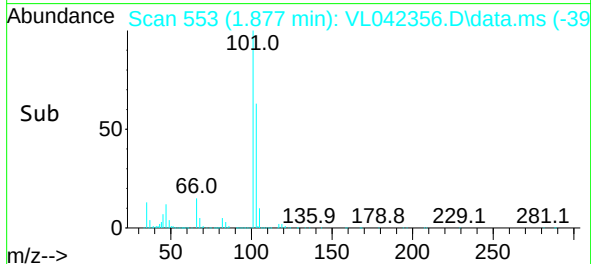
Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725



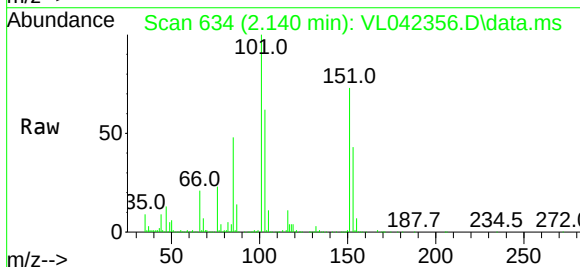
Tgt Ion:101 Resp: 18782
Ion Ratio Lower Upper
101 100
103 63.3 50.1 75.1

Manual Integrations
APPROVED

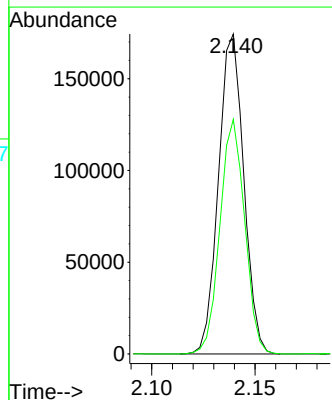
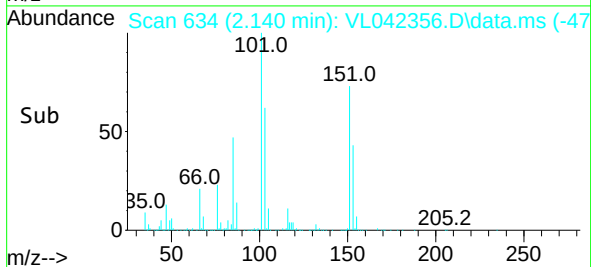
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

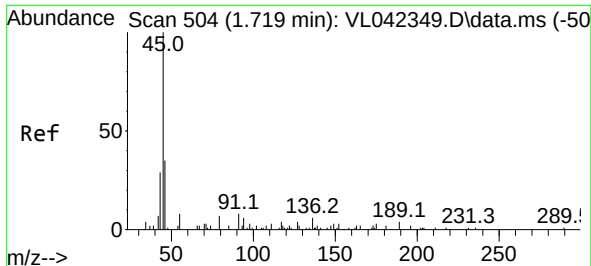


#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.482 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43



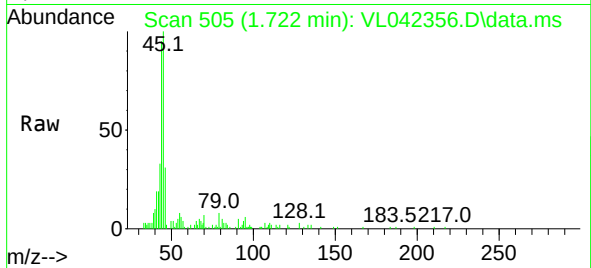
Tgt Ion:101 Resp: 148485
Ion Ratio Lower Upper
101 100
151 71.7 57.0 85.6





#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

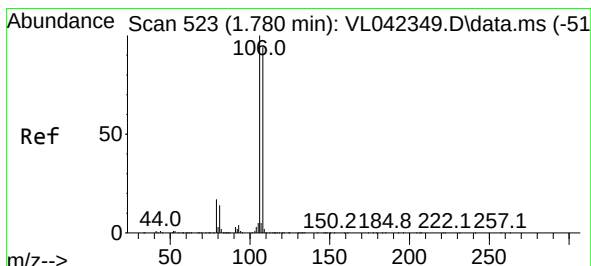
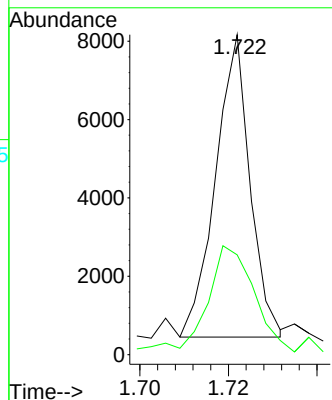
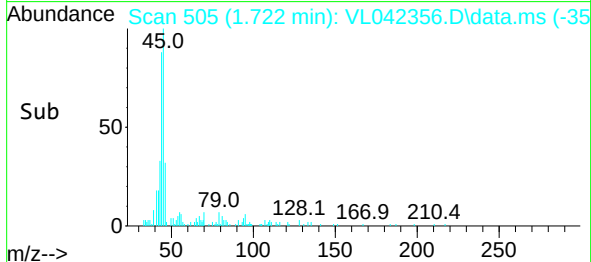
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL041725



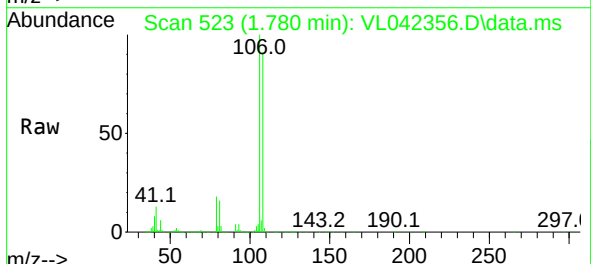
Tgt Ion: 45 Resp: 417
 Ion Ratio Lower Upper
 45 100
 46 57.0 21.9 87.7

Manual Integrations
 APPROVED

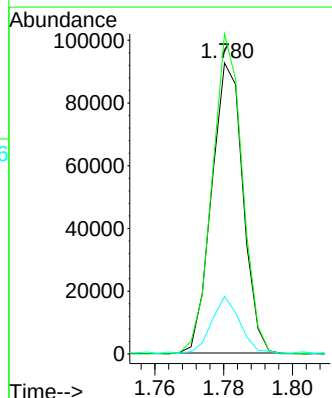
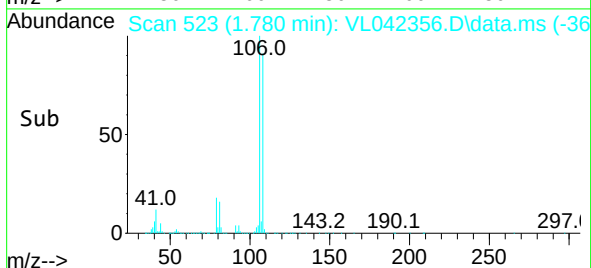
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

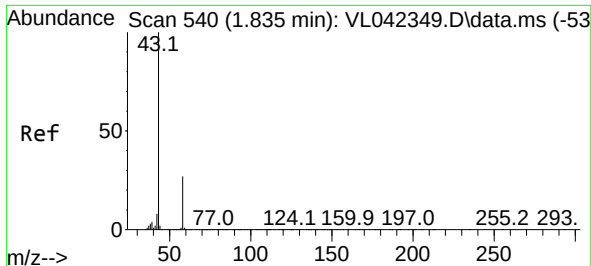


#14
 Bromoethene
 Concen: 9.880 ppbv
 RT: 1.780 min Scan# 523
 Delta R.T. -0.000 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43



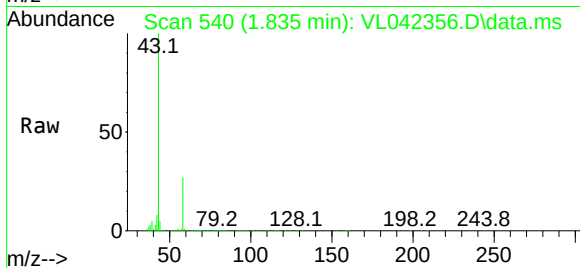
Tgt Ion:108 Resp: 58320
 Ion Ratio Lower Upper
 108 100
 106 107.1 85.9 128.9
 79 18.4 13.9 20.9





#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

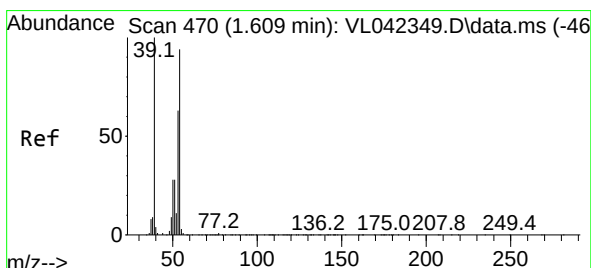
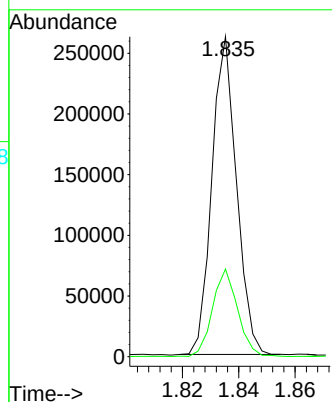
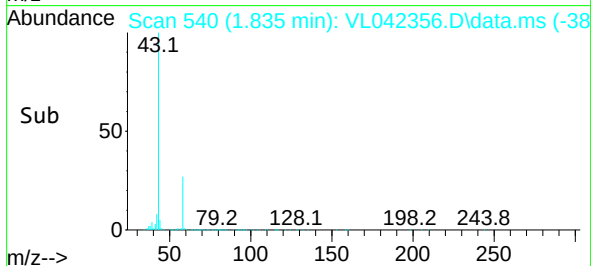
Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725



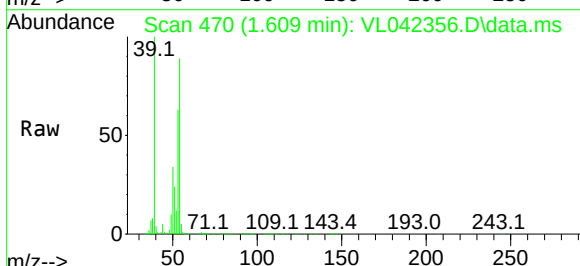
Tgt Ion: 43 Resp: 158708
Ion Ratio Lower Upper
43 100
58 28.0 22.4 33.6

Manual Integrations
APPROVED

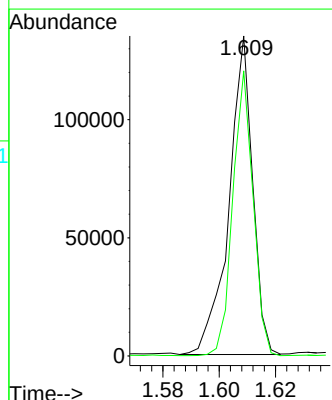
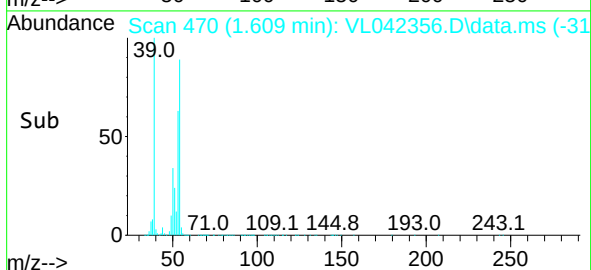
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

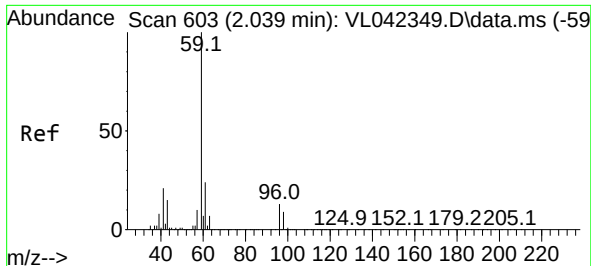


#16
1,3-Butadiene
Concen: 8.829 ppbv
RT: 1.609 min Scan# 470
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43



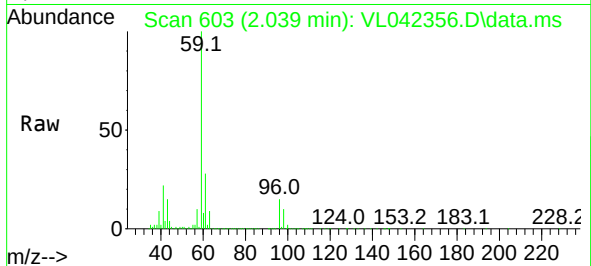
Tgt Ion: 39 Resp: 78804
Ion Ratio Lower Upper
39 100
54 77.1 64.9 97.3





#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

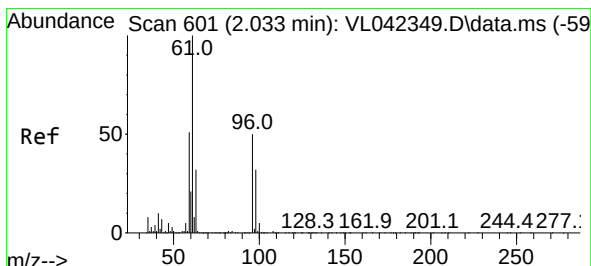
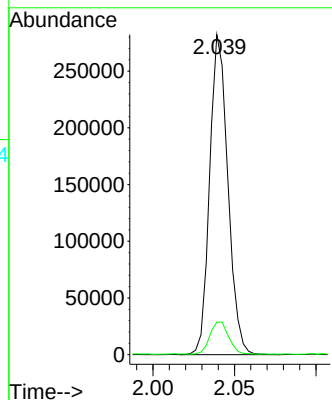
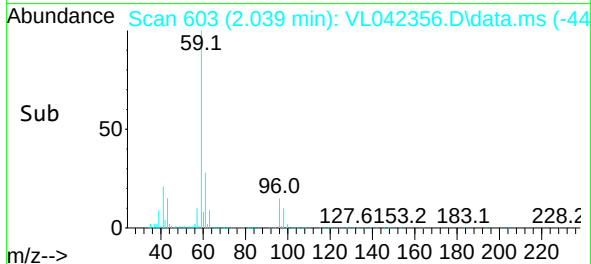
Instrument : MSVOA_L
ClientSampleId : ICVVL041725



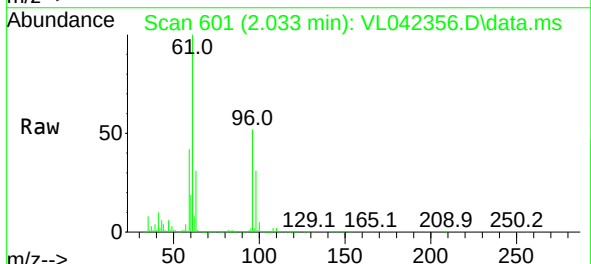
Tgt Ion: 59 Resp: 218954
Ion Ratio Lower Upper
59 100
57 10.6 8.7 13.1

Manual Integrations
APPROVED

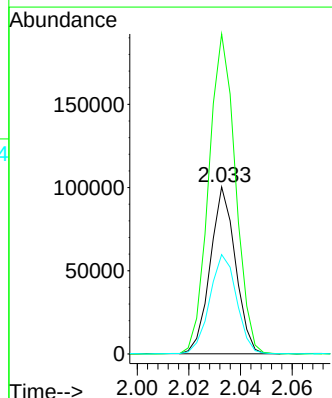
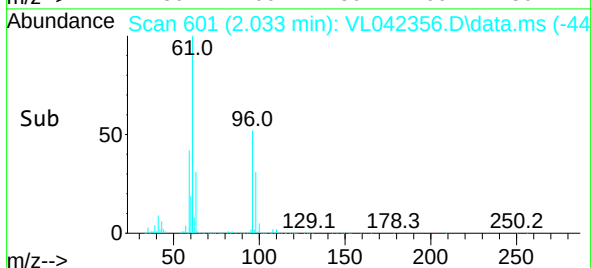
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

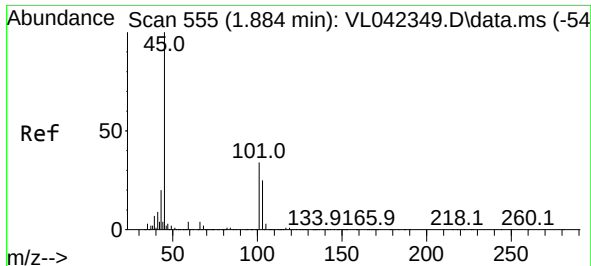


#18
1,1-Dichloroethene
Concen: 9.287 ppbv
RT: 2.033 min Scan# 601
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43



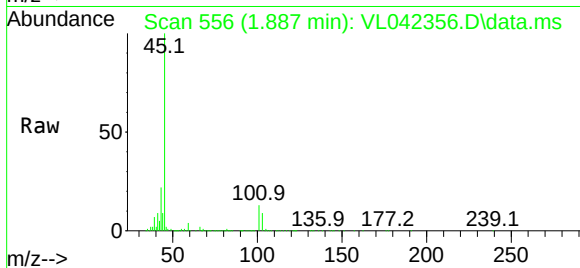
Tgt Ion: 96 Resp: 67940
Ion Ratio Lower Upper
96 100
61 191.6 160.2 240.2
98 59.4 51.0 76.4





#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

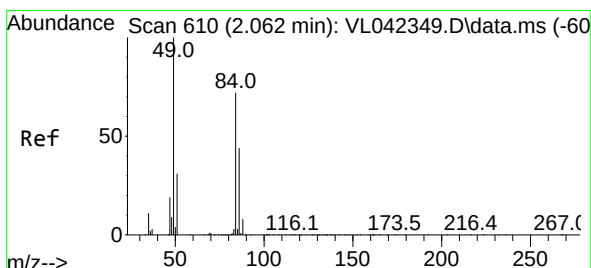
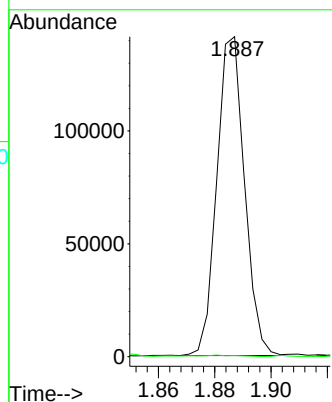
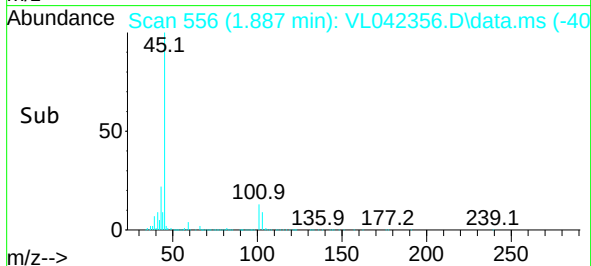
Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725



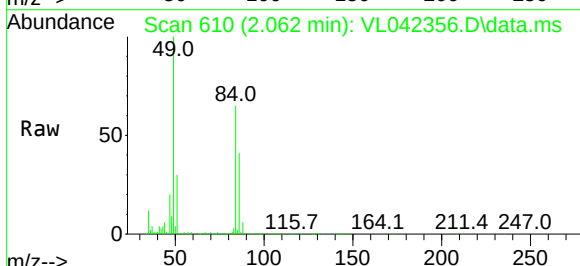
Tgt Ion: 45 Resp: 9636
Ion Ratio Lower Upper
45 100
58 46.1 34.5 51.7

Manual Integrations
APPROVED

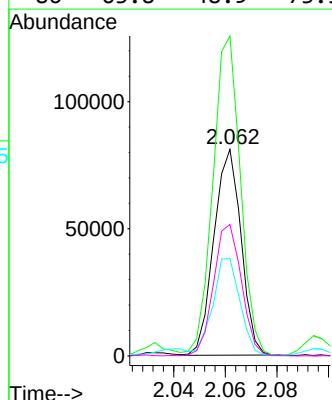
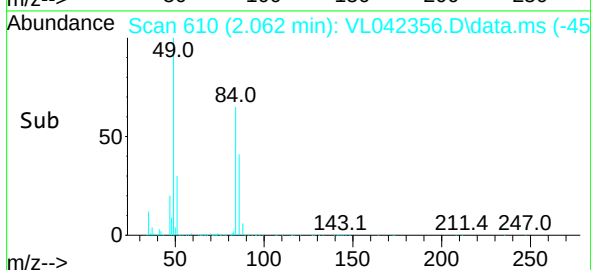
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

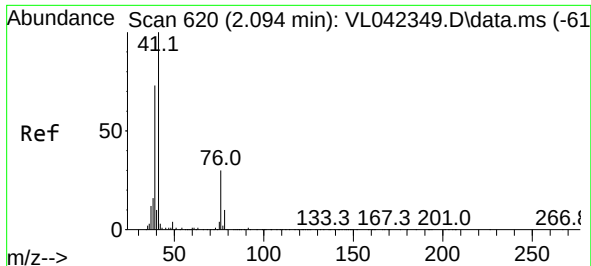


#20
Methylene Chloride
Concen: 8.101 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43



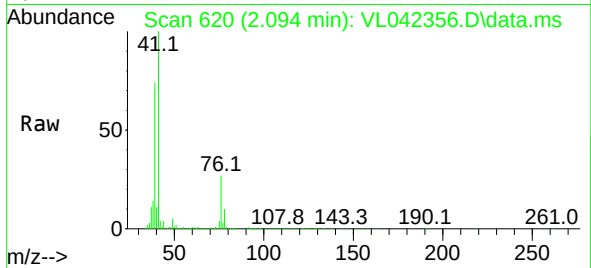
Tgt Ion: 84 Resp: 59203
Ion Ratio Lower Upper
84 100
49 155.3 111.6 167.4
51 47.0 35.1 52.7
86 63.8 48.9 73.3





#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

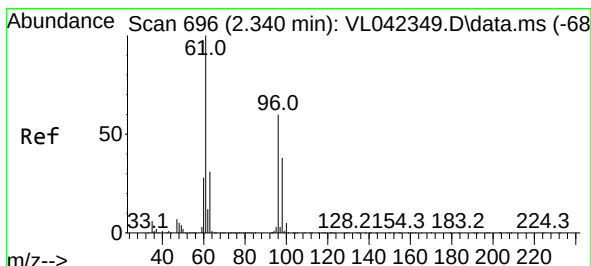
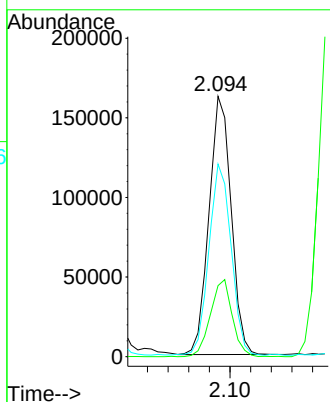
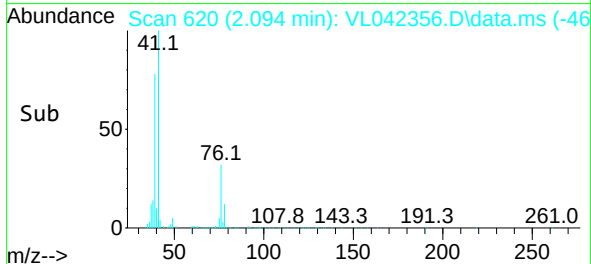
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL041725



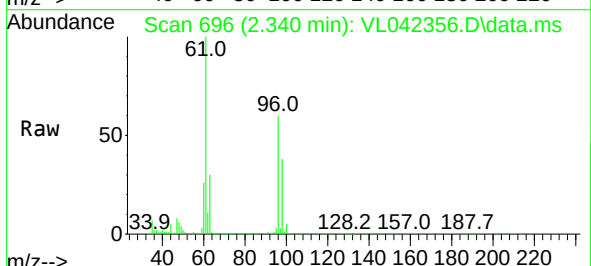
Tgt Ion: 41 Resp: 120704
 Ion Ratio Lower Upper
 41 100
 76 29.5 24.8 37.2
 39 74.5 60.6 90.8

Manual Integrations
 APPROVED

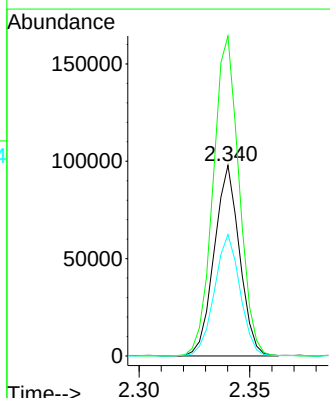
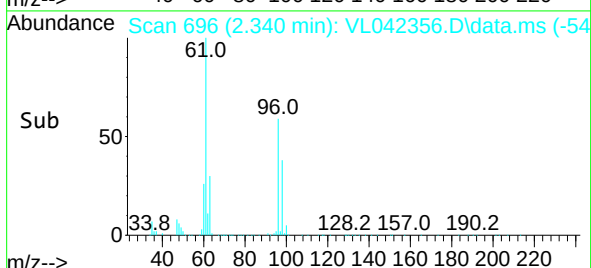
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

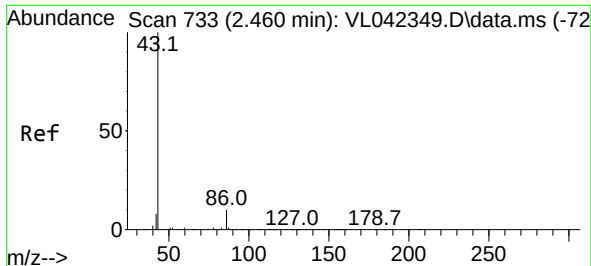


#22
 trans-1,2-Dichloroethene
 Concen: 9.373 ppbv
 RT: 2.340 min Scan# 696
 Delta R.T. -0.000 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43



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





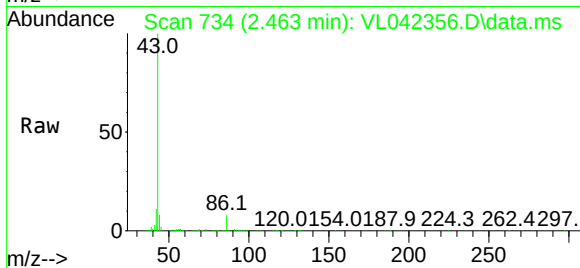
#23
 Vinyl Acetate
 Concen: 9.714 ppbv
 RT: 2.463 min Scan# 714
 Delta R.T. 0.003 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43

Instrument :

MSVOA_L

ClientSampleId :

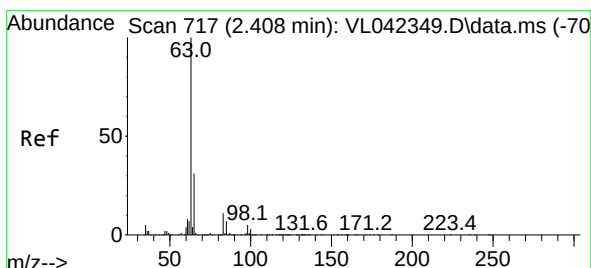
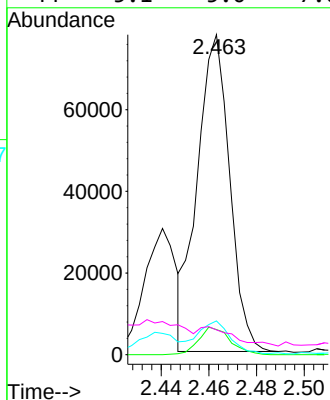
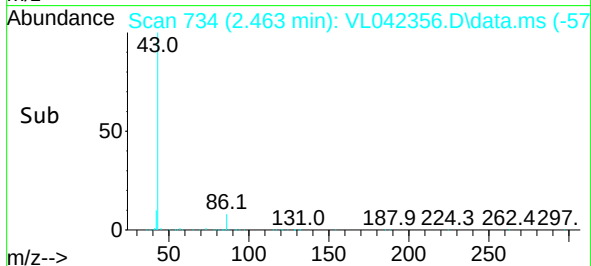
ICVVL041725



Tgt Ion:	43	Resp:	7337
Ion Ratio	100	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

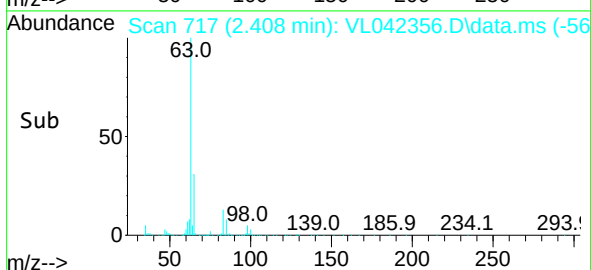
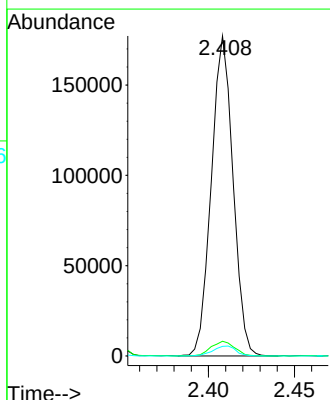
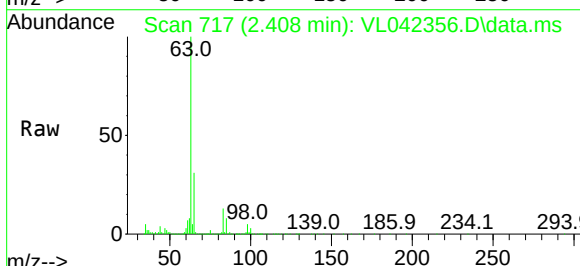
Manual Integrations
 APPROVED

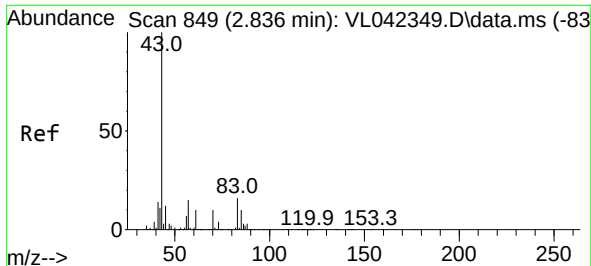
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



#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

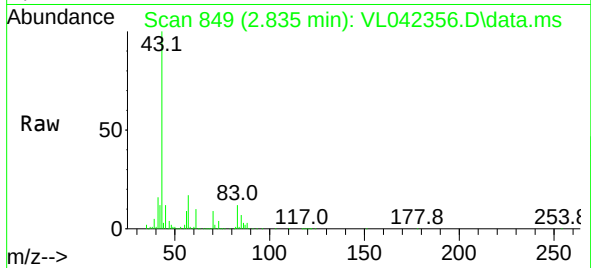
Tgt Ion:	63	Resp:	155571
Ion Ratio	100	Lower	Upper
63	100		
98	4.6	2.3	6.8
100	3.0	1.6	4.8





#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

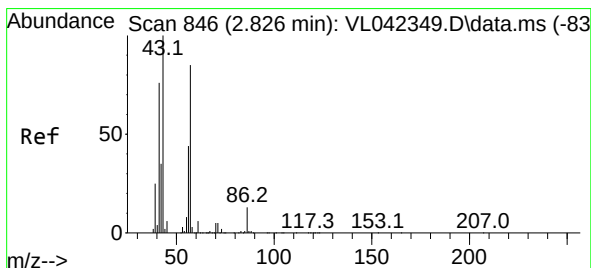
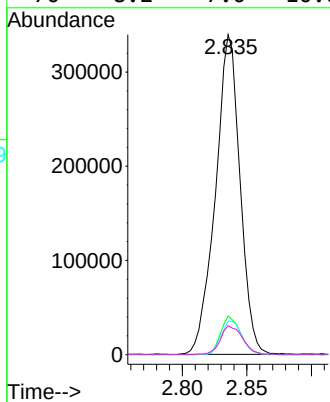
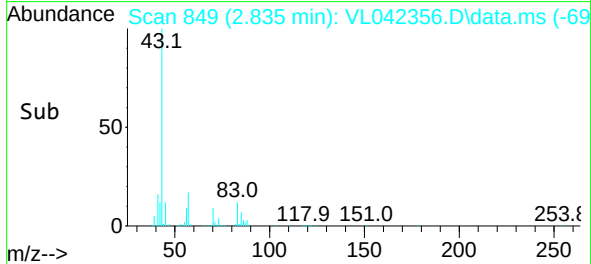
Instrument : MSVOA_L
ClientSampleId : ICVVL041725



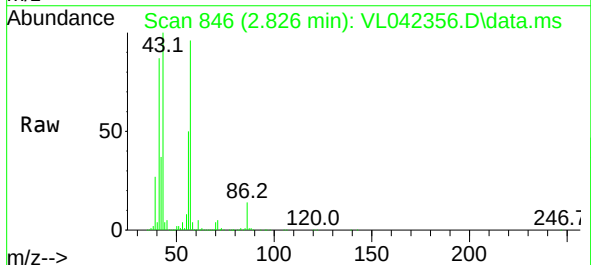
Tgt Ion: 43 Resp: 449014
Ion Ratio Lower Upper
43 100
45 9.9 8.3 12.5
61 9.0 7.3 10.9
70 8.2 7.0 10.6

Manual Integrations
APPROVED

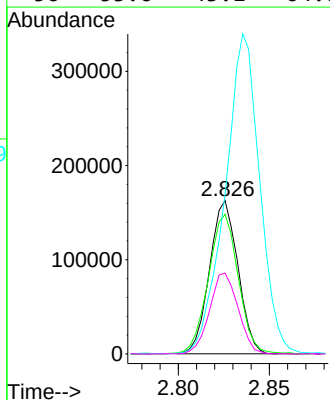
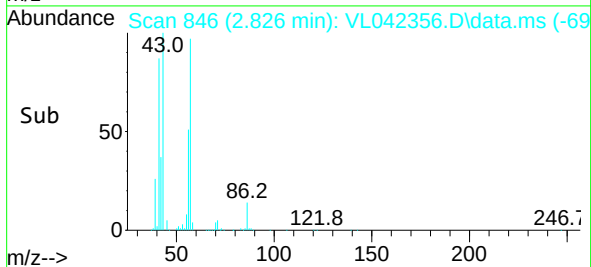
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

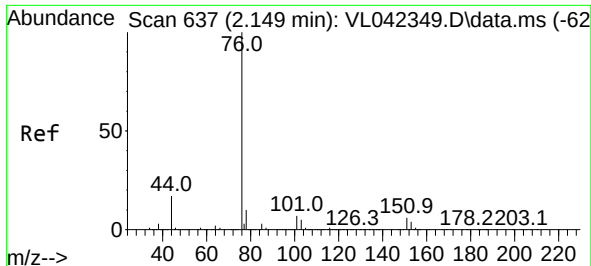


#26
Hexane
Concen: 9.439 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43



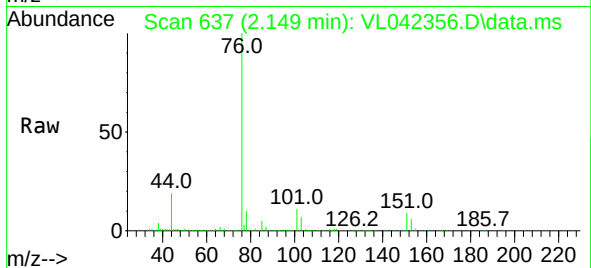
Tgt Ion: 57 Resp: 175752
Ion Ratio Lower Upper
57 100
41 96.6 77.9 116.9
43 256.0 208.4 312.6
56 53.6 43.1 64.7





#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

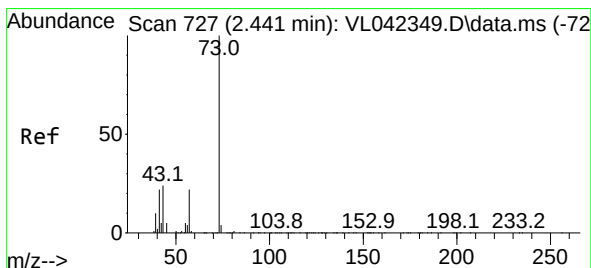
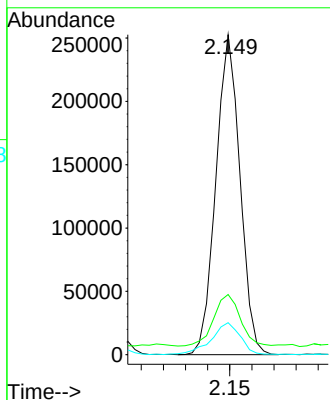
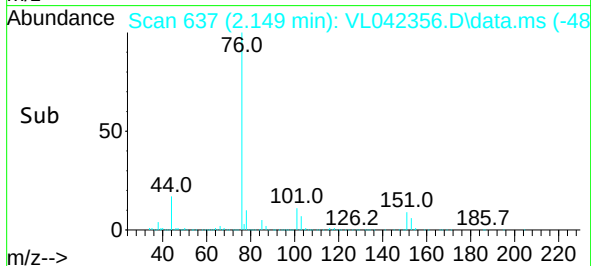
Instrument : MSVOA_L
ClientSampleId : ICVVL041725



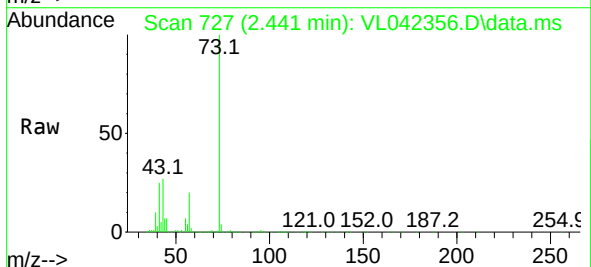
Tgt Ion: 76 Resp: 19111
Ion Ratio Lower Upper
76 100
44 19.3 15.5 23.3
78 11.9 9.3 13.9

Manual Integrations
APPROVED

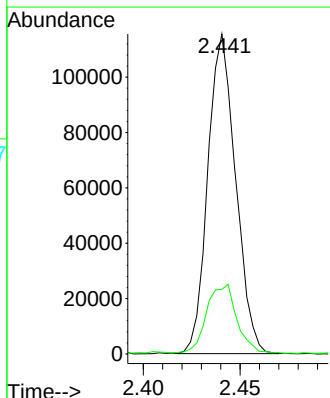
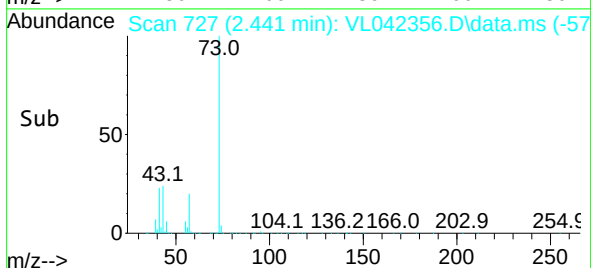
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

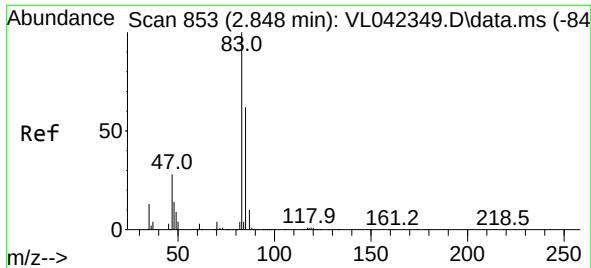


#28
Methyl tert-Butyl Ether
Concen: 9.442 ppbv
RT: 2.441 min Scan# 727
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43



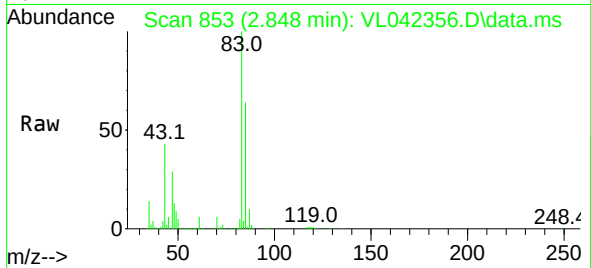
Tgt Ion: 73 Resp: 115190
Ion Ratio Lower Upper
73 100
57 23.4 21.3 31.9





#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

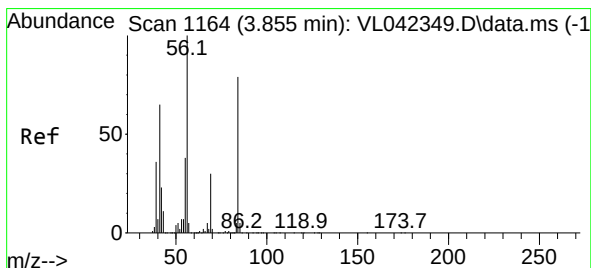
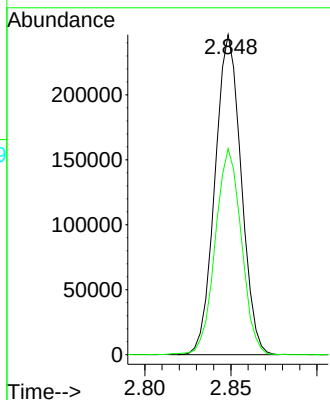
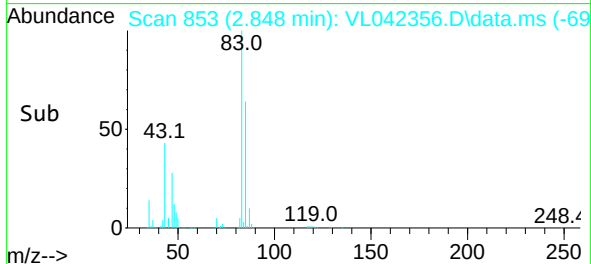
Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725



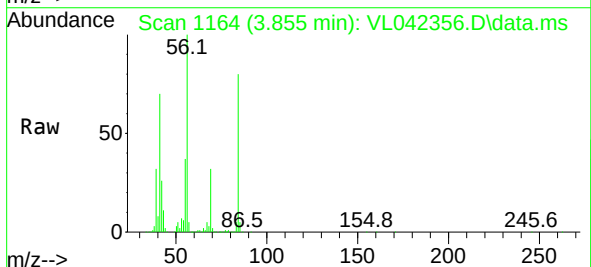
Tgt Ion: 83 Resp: 26085
Ion Ratio Lower Upper
83 100
85 64.3 50.0 75.0

Manual Integrations
APPROVED

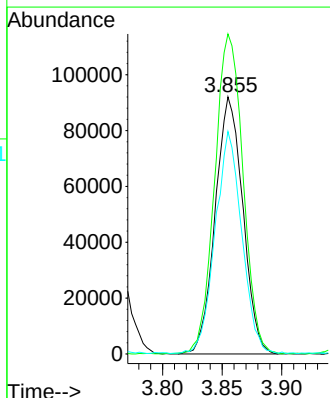
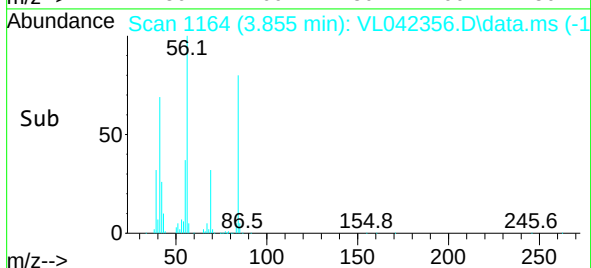
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

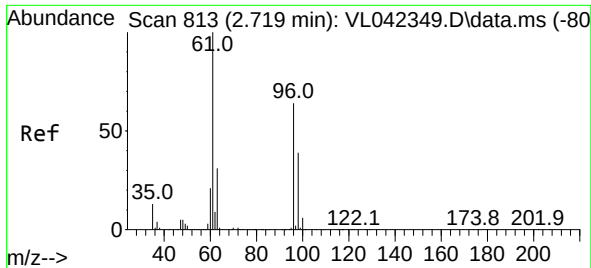


#30
Cyclohexane
Concen: 9.849 ppbv
RT: 3.855 min Scan# 1164
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43



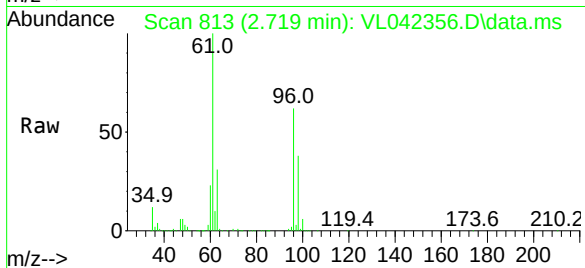
Tgt Ion: 84 Resp: 148246
Ion Ratio Lower Upper
84 100
56 127.7 101.0 151.4
41 83.2 67.4 101.0





#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

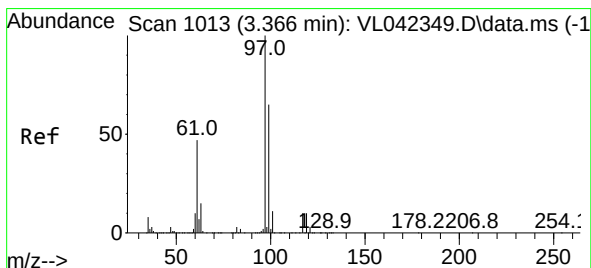
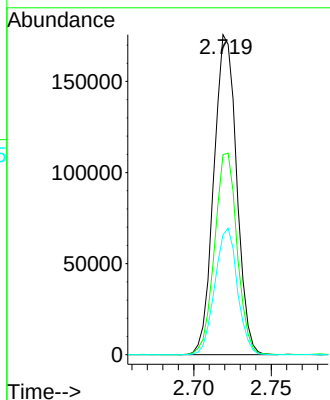
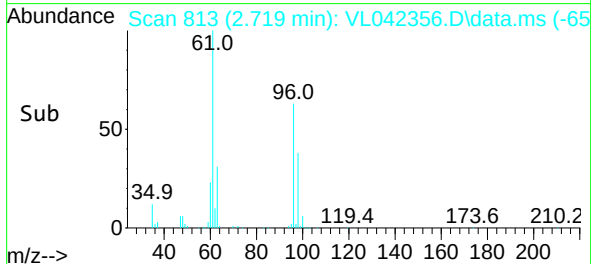
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL041725



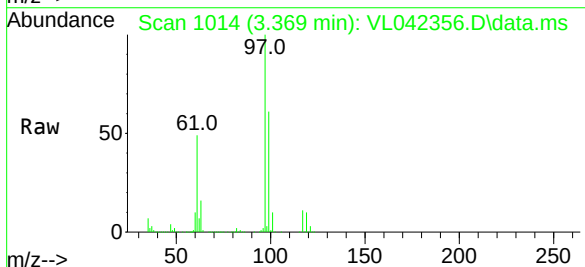
Tgt Ion: 61 Resp: 17999
 Ion Ratio Lower Upper
 61 100
 96 62.5 50.8 76.2
 98 37.5 30.9 46.3

Manual Integrations
 APPROVED

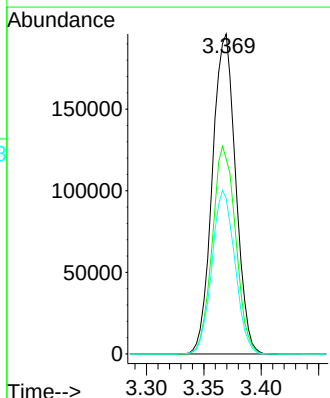
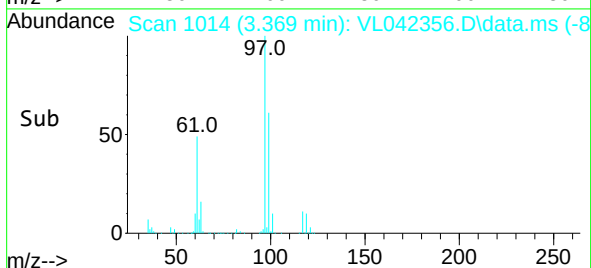
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

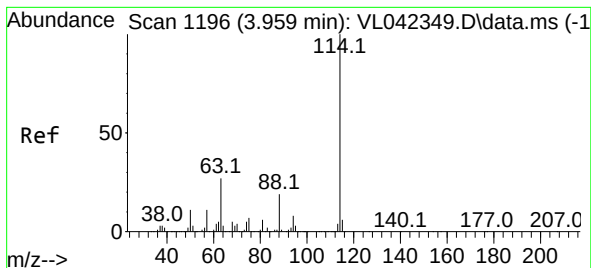


#32
 1,1,1-Trichloroethane
 Concen: 9.336 ppbv
 RT: 3.369 min Scan# 1014
 Delta R.T. 0.003 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43



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 :

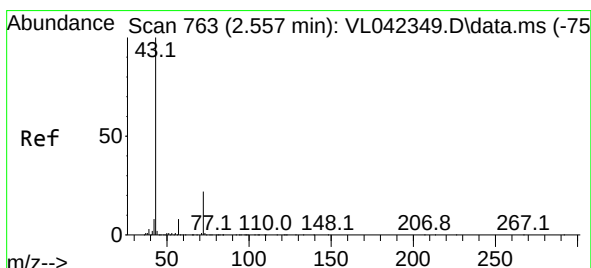
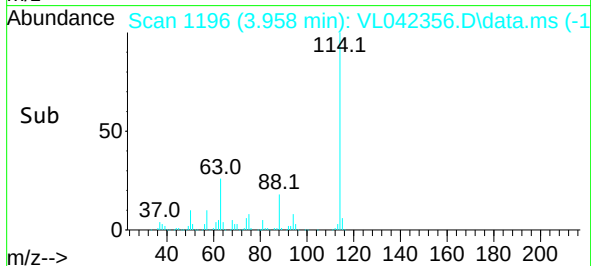
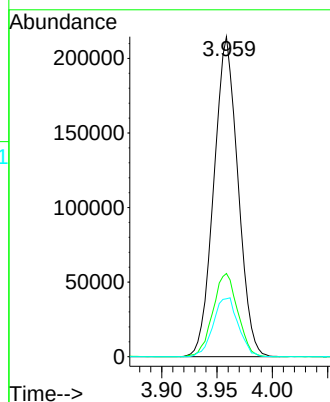
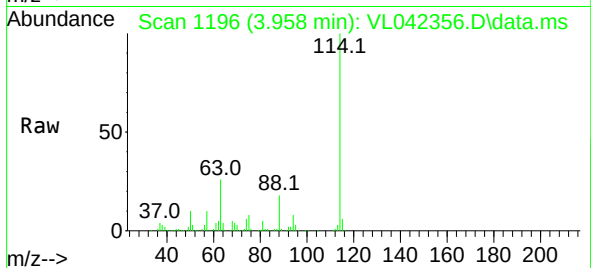
ICVVL041725

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

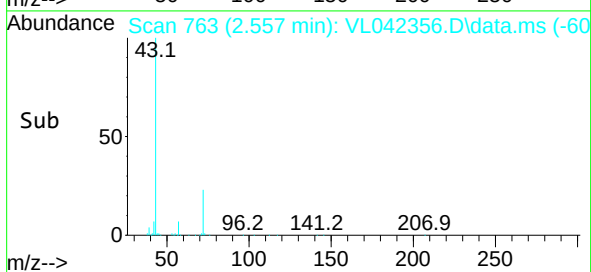
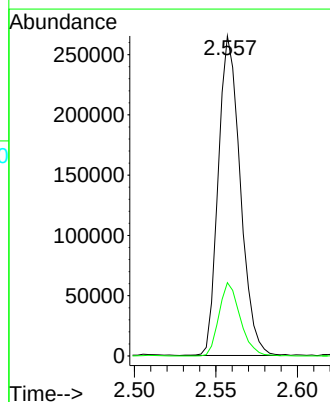
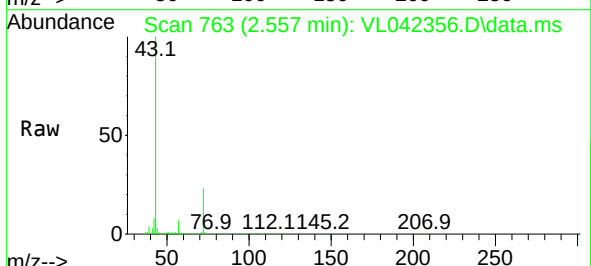
RT: 2.557 min Scan# 763

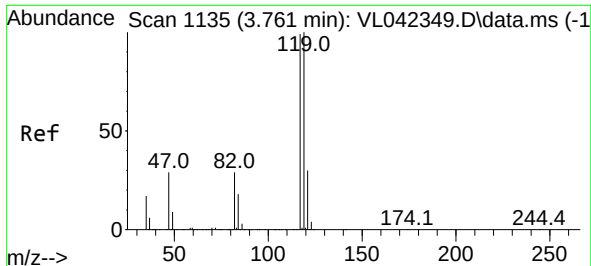
Delta R.T. -0.000 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

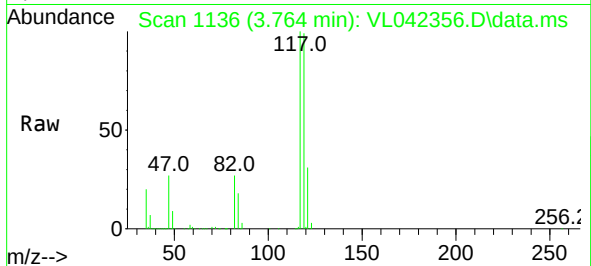
Tgt Ion: 43	Resp: 248969
Ion Ratio	Lower Upper
43 100	
72 22.1	18.2 27.2





#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

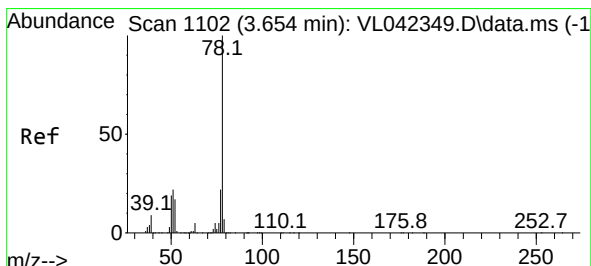
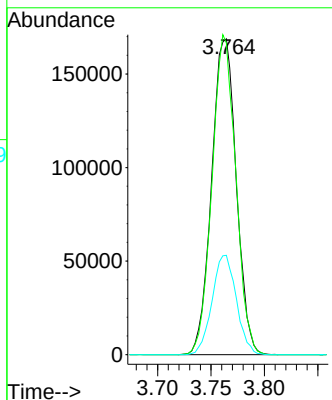
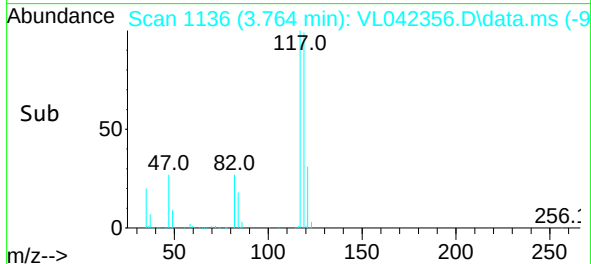
Instrument : MSVOA_L
ClientSampleId : ICVVL041725



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

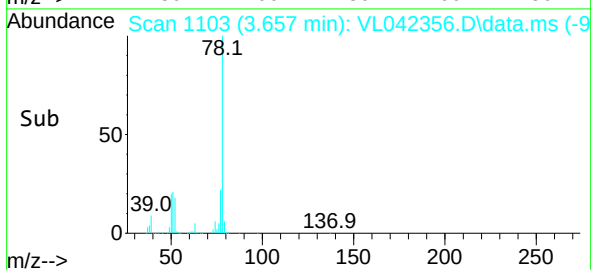
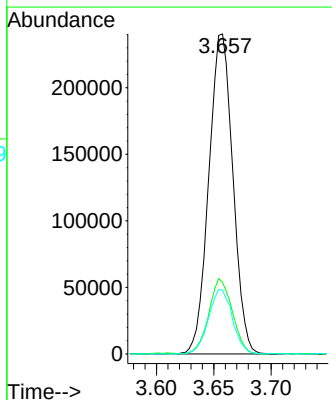
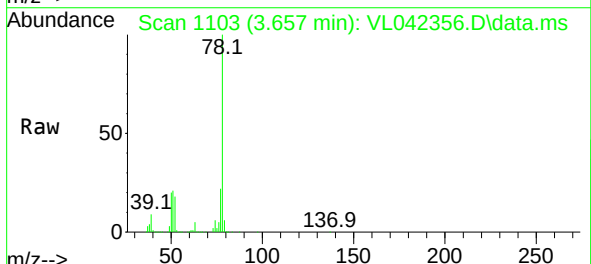
Manual Integrations
APPROVED

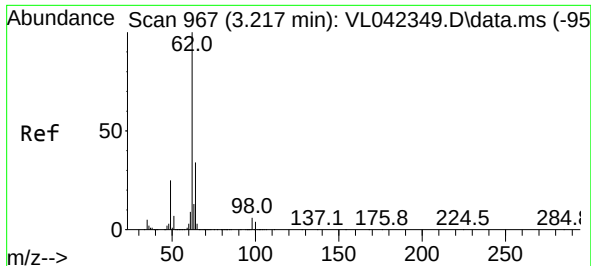
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

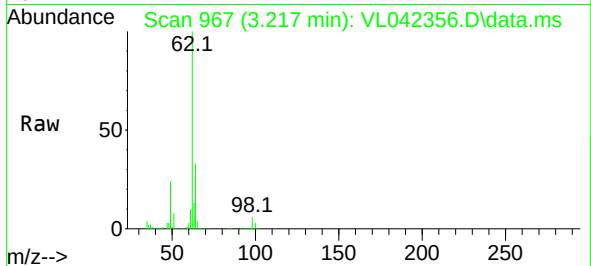
Tgt Ion: 78 Resp: 350545
Ion Ratio Lower Upper
78 100
77 22.3 17.4 26.0
50 19.9 15.5 23.3





#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

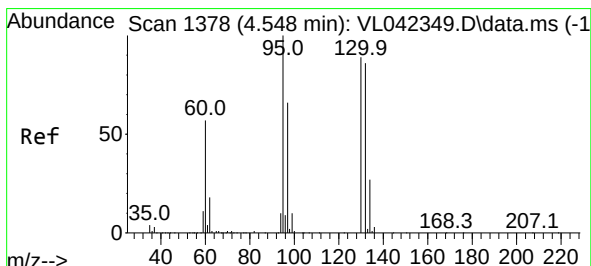
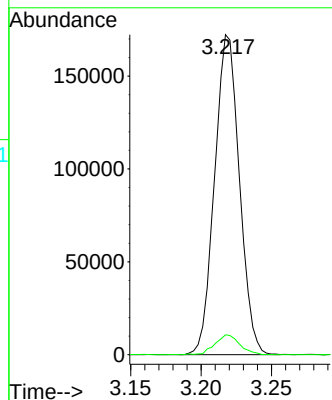
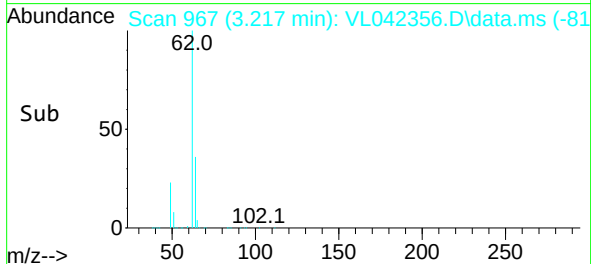
Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725



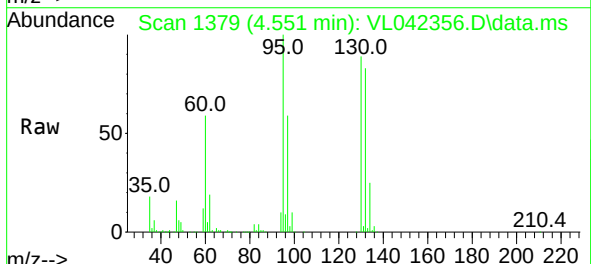
Tgt Ion: 62 Resp: 211790
Ion Ratio Lower Upper
62 100
98 6.2 5.1 7.7

Manual Integrations
APPROVED

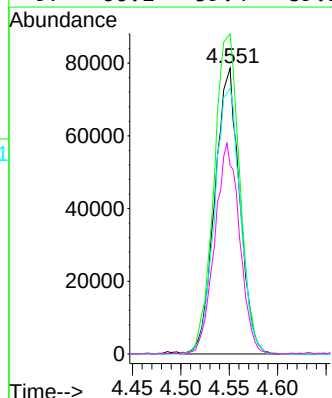
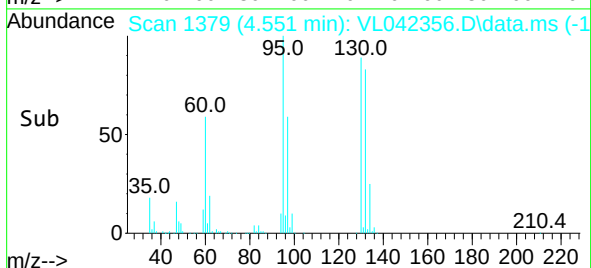
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

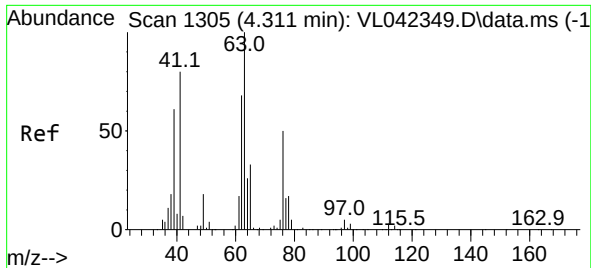


#38
Trichloroethene
Concen: 9.143 ppbv
RT: 4.551 min Scan# 1379
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43



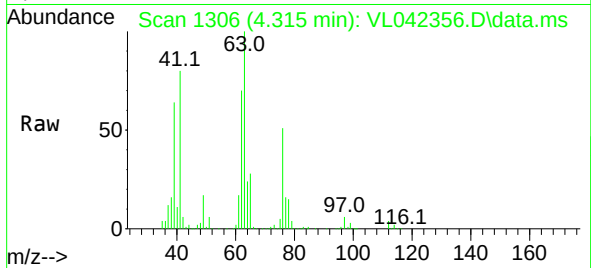
Tgt Ion:130 Resp: 139872
Ion Ratio Lower Upper
130 100
95 112.0 89.8 134.6
132 93.2 77.7 116.5
97 66.1 59.4 89.2





#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

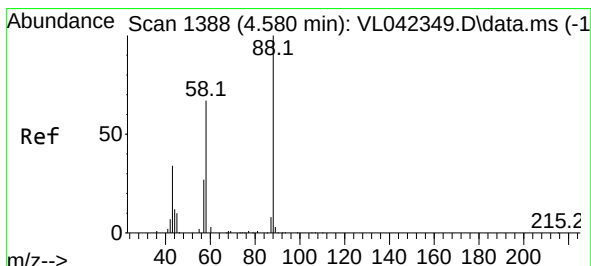
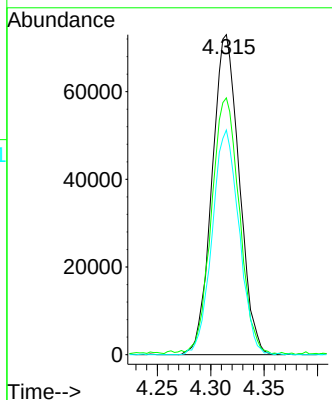
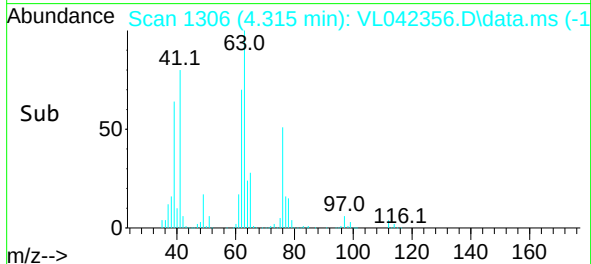
Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725



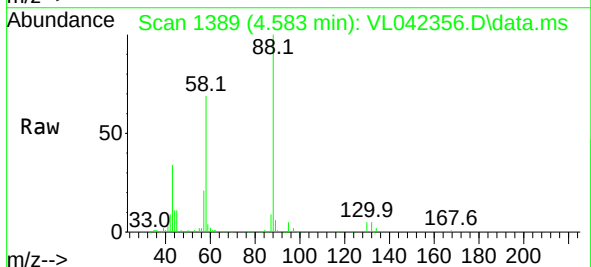
Tgt Ion: 63 Resp: 129239
Ion Ratio Lower Upper
63 100
41 79.9 64.2 96.2
62 70.2 54.3 81.5

Manual Integrations
APPROVED

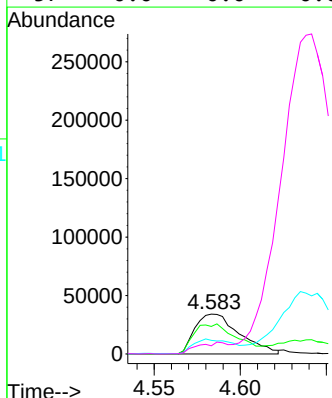
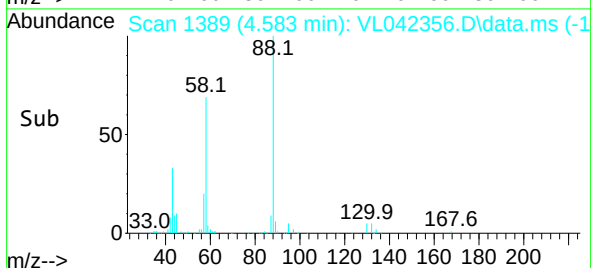
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

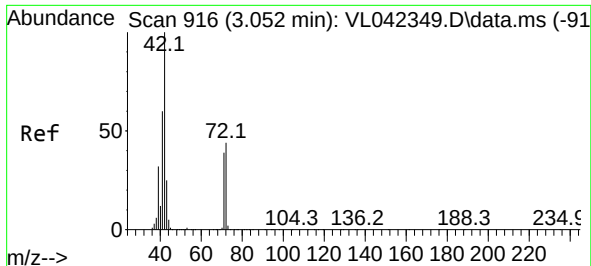


#40
1,4-Dioxane
Concen: 8.591 ppbv
RT: 4.583 min Scan# 1389
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43



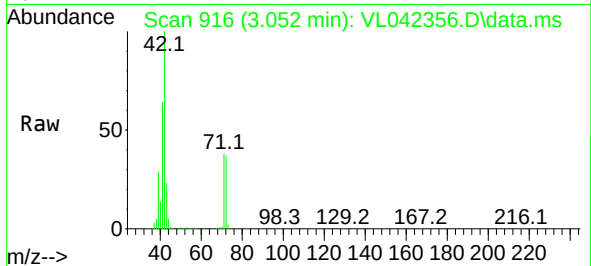
Tgt Ion: 88 Resp: 61587
Ion Ratio Lower Upper
88 100
58 76.1 61.4 92.0
43 35.9 23.2 34.8#
57 0.0 0.0 0.0





#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

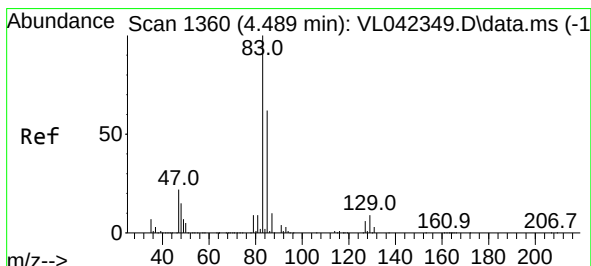
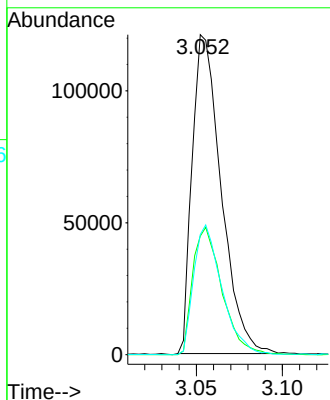
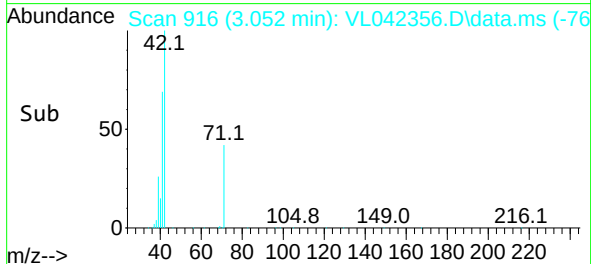
Instrument : MSVOA_L
ClientSampleId : ICVVL041725



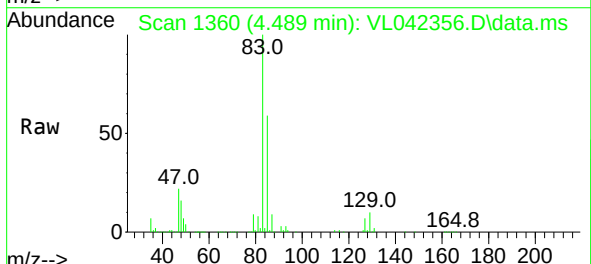
Tgt Ion: 42 Resp: 14186
Ion Ratio Lower Upper
42 100
72 40.2 32.3 48.5
71 39.8 31.4 47.2

Manual Integrations
APPROVED

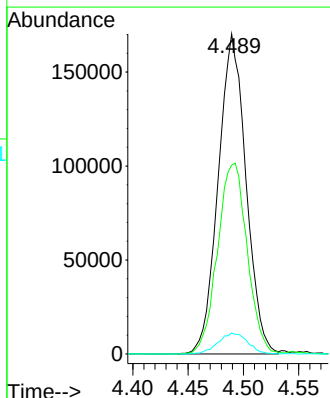
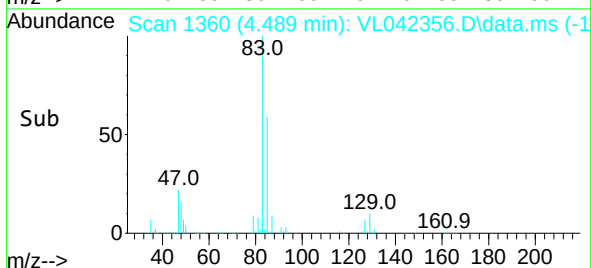
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

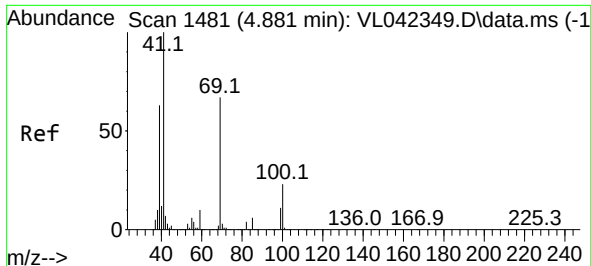


#42
Bromodichloromethane
Concen: 10.156 ppbv
RT: 4.489 min Scan# 1360
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43



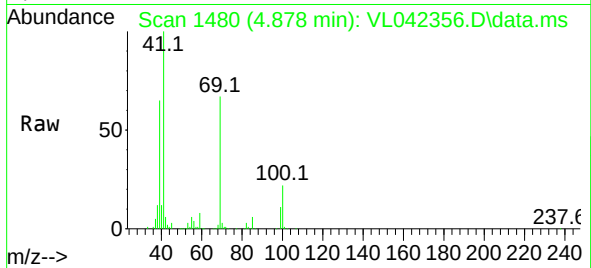
Tgt Ion: 83 Resp: 296946
Ion Ratio Lower Upper
83 100
85 59.0 49.7 74.5
127 6.6 5.1 7.7





#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

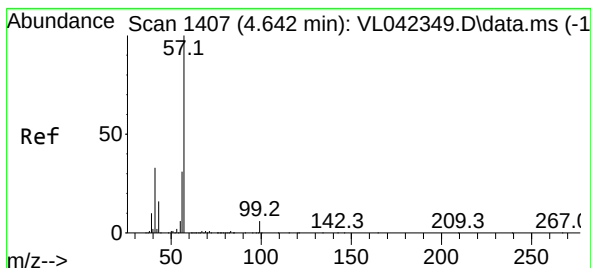
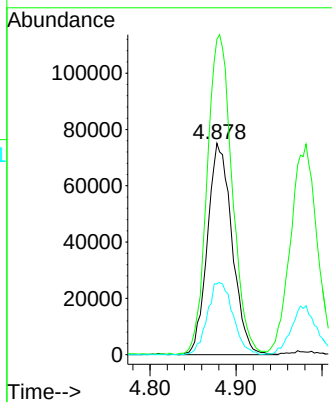
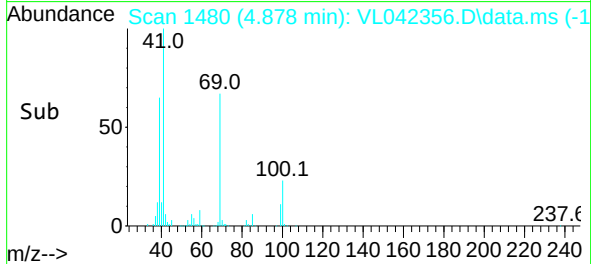
Instrument : MSVOA_L
ClientSampleId : ICVVL041725



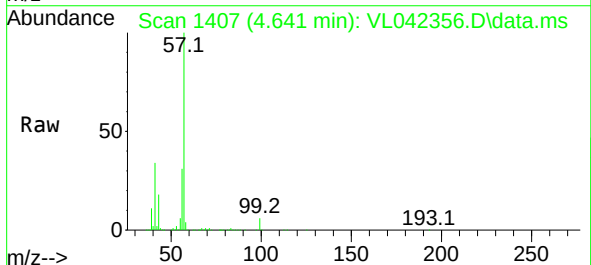
Tgt Ion: 69 Resp: 149209
Ion Ratio Lower Upper
69 100
41 154.1 118.6 177.8
100 35.5 28.2 42.2

Manual Integrations
APPROVED

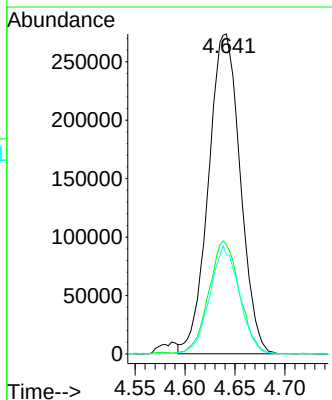
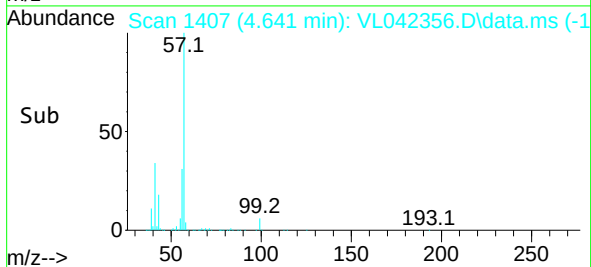
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

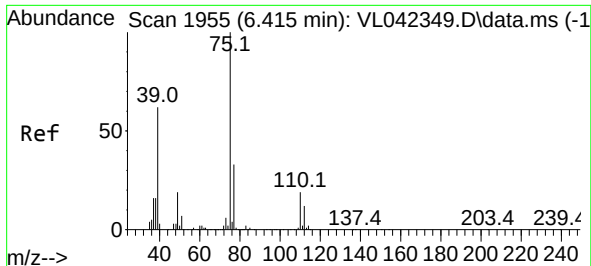


#44
2,2,4-Trimethylpentane
Concen: 10.030 ppbv
RT: 4.641 min Scan# 1407
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43



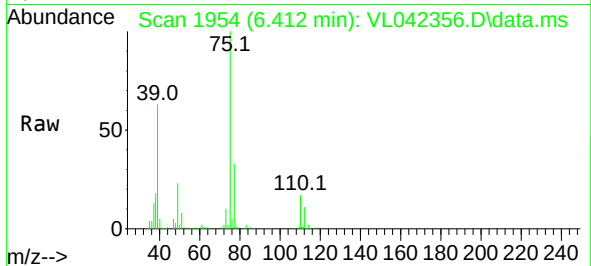
Tgt Ion: 57 Resp: 606376
Ion Ratio Lower Upper
57 100
41 34.3 27.2 40.8
56 31.6 25.7 38.5





#45
 t-1,3-Dichloropropene
 Concen: 9.975 ppbv
 RT: 6.412 min Scan# 1954
 Delta R.T. -0.003 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43

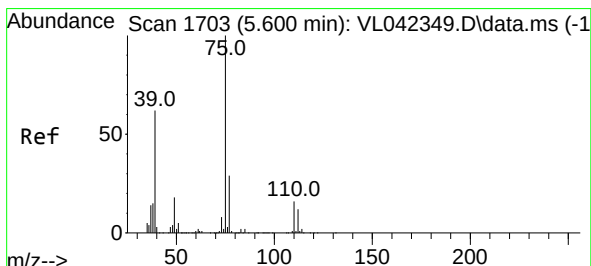
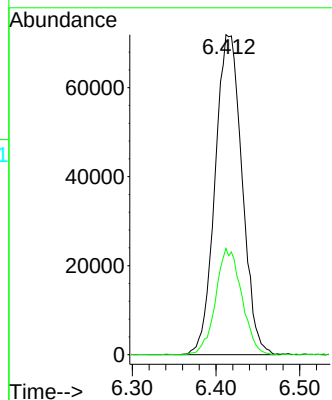
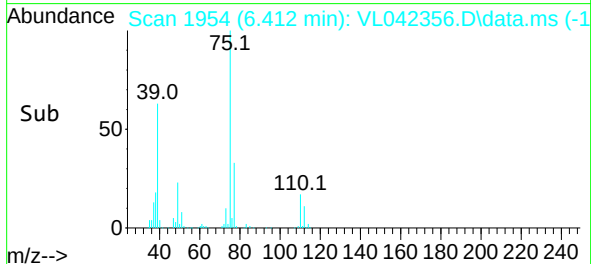
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL041725



Tgt Ion: 75 Resp: 160750
 Ion Ratio Lower Upper
 75 100
 77 33.2 27.0 40.6

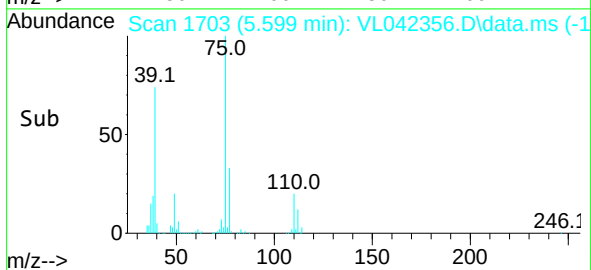
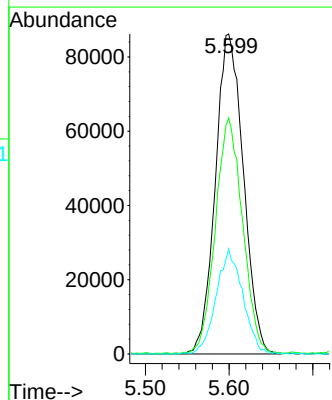
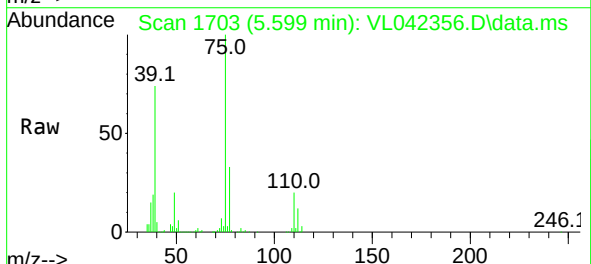
Manual Integrations
 APPROVED

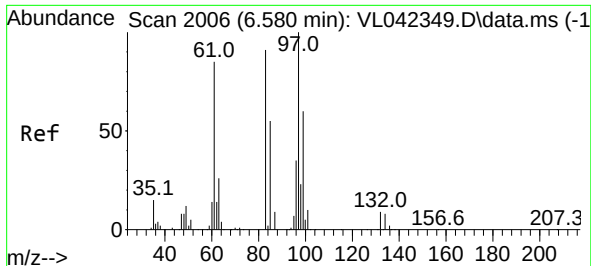
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



#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

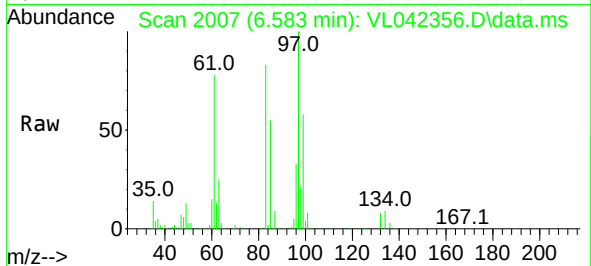
Tgt Ion: 75 Resp: 200144
 Ion Ratio Lower Upper
 75 100
 39 73.7 50.0 75.0
 77 32.7 23.0 34.6





#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

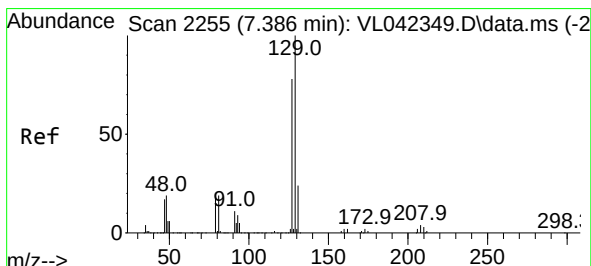
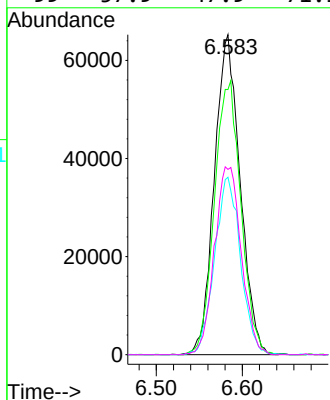
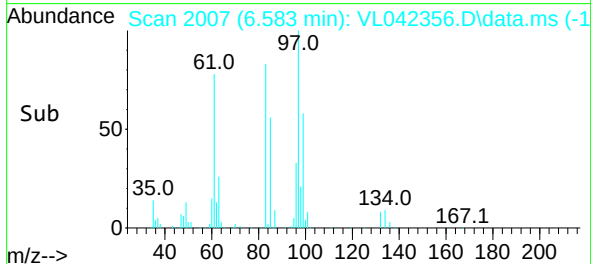
Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725



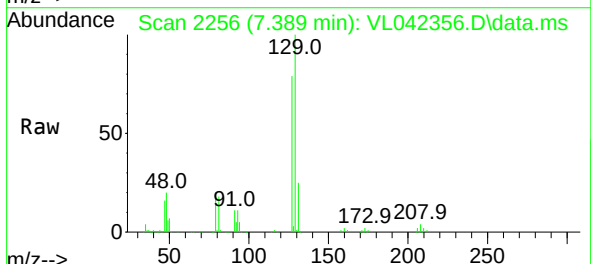
Tgt Ion: 97 Resp: 135574
Ion Ratio Lower Upper
97 100
83 82.8 72.8 109.2
85 55.5 44.2 66.4
99 57.9 47.9 71.9

Manual Integrations
APPROVED

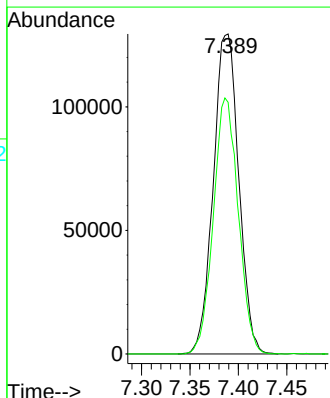
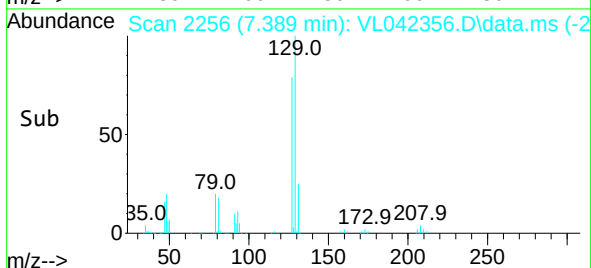
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

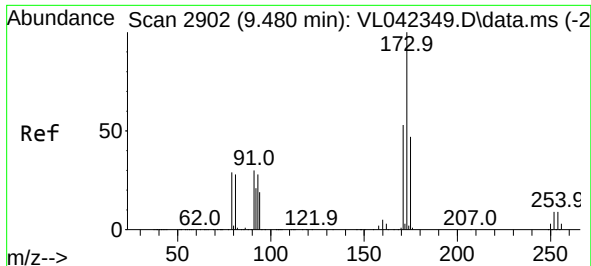


#48
Dibromochloromethane
Concen: 10.103 ppbv
RT: 7.389 min Scan# 2256
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43



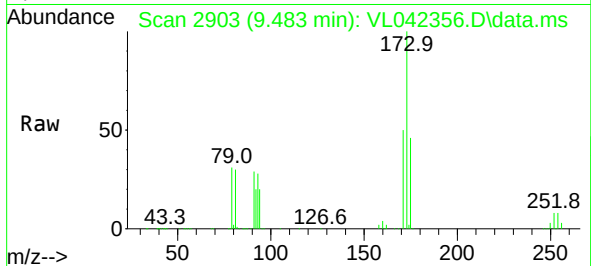
Tgt Ion:129 Resp: 237206
Ion Ratio Lower Upper
129 100
127 78.4 39.1 117.3





#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

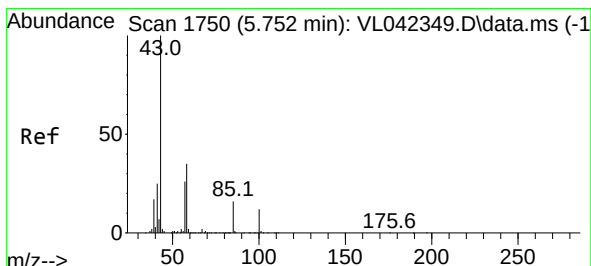
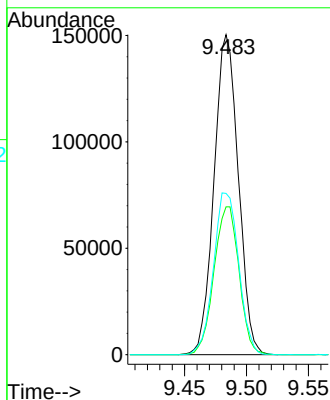
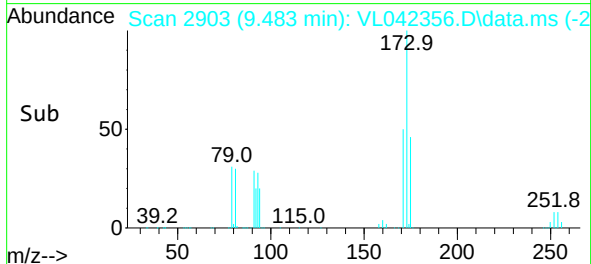
Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725



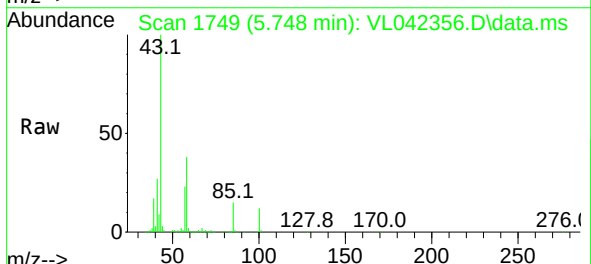
Tgt Ion:173 Resp: 205630
Ion Ratio Lower Upper
173 100
175 47.6 38.2 57.2
171 52.5 40.9 61.3

Manual Integrations
APPROVED

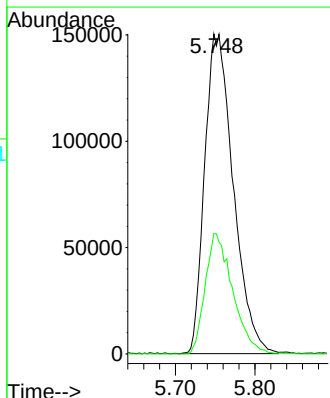
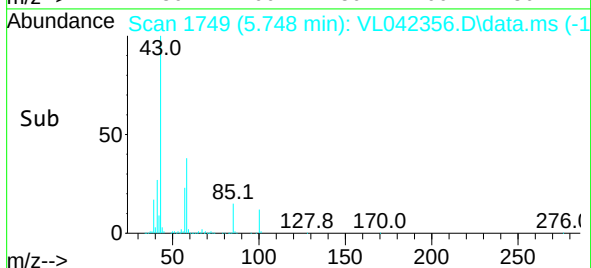
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

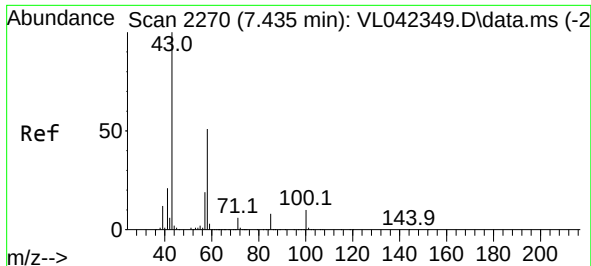


#50
4-Methyl-2-Pentanone
Concen: 8.819 ppbv
RT: 5.748 min Scan# 1749
Delta R.T. -0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43



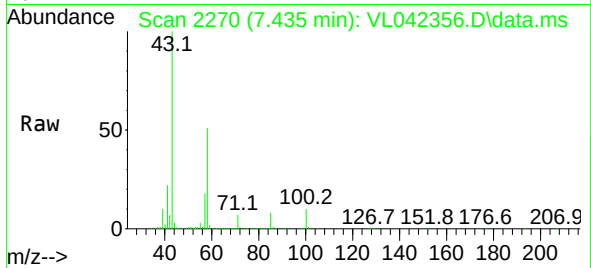
Tgt Ion: 43 Resp: 376145
Ion Ratio Lower Upper
43 100
58 36.2 28.6 43.0





#51
2-Hexanone
Concen: 8.118 ppbv
RT: 7.435 min Scan# 21052
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

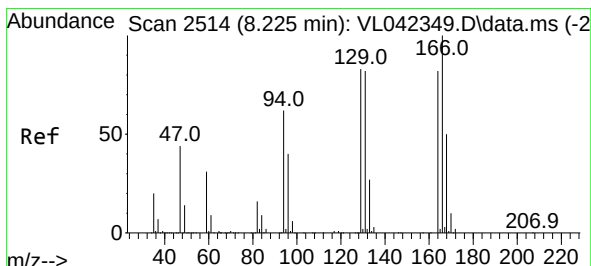
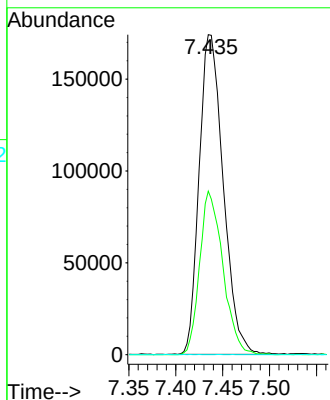
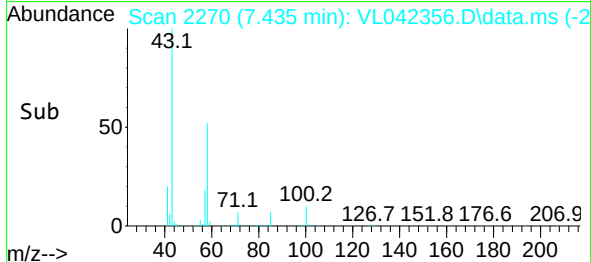
Instrument : MSVOA_L
ClientSampleId : ICVVL041725



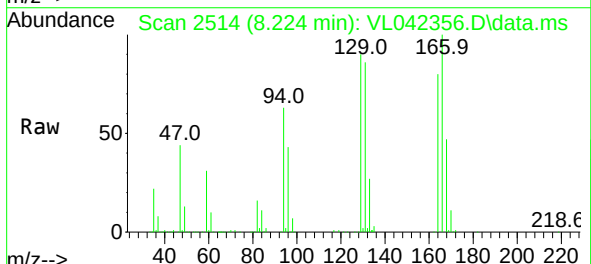
Tgt Ion: 43 Resp: 31052
Ion Ratio Lower Upper
43 100
58 49.3 40.2 60.4
98 0.0 0.1 0.1

Manual Integrations
APPROVED

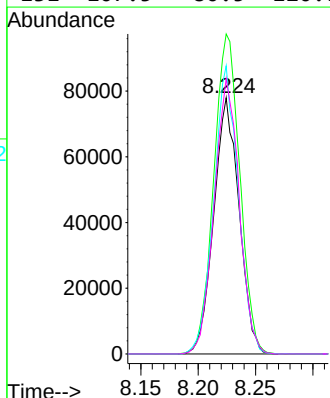
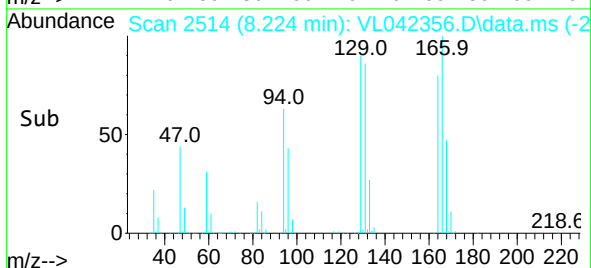
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

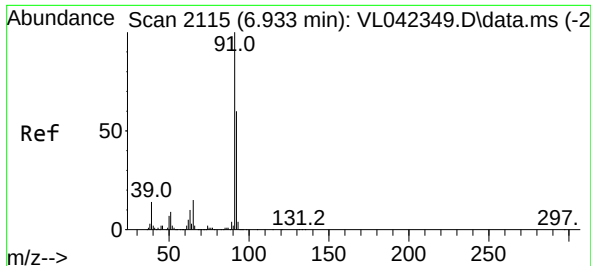


#52
Tetrachloroethene
Concen: 8.827 ppbv
RT: 8.224 min Scan# 2514
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43



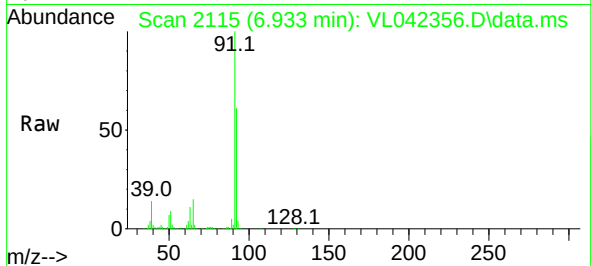
Tgt Ion:164 Resp: 119424
Ion Ratio Lower Upper
164 100
166 124.9 98.2 147.2
129 112.5 81.8 122.8
131 107.5 80.5 120.7





#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

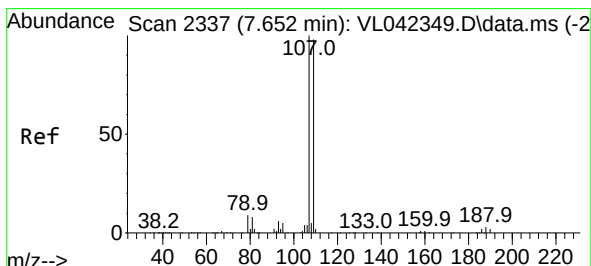
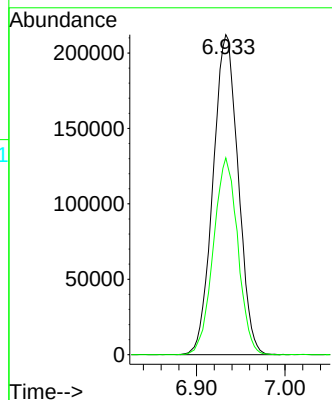
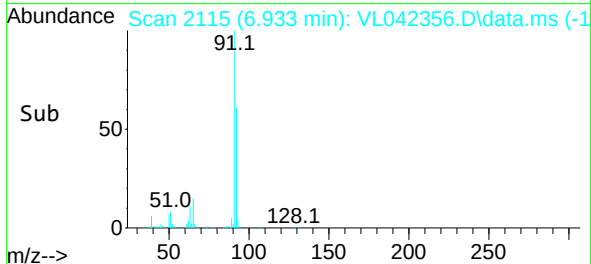
Instrument : MSVOA_L
ClientSampleId : ICVVL041725



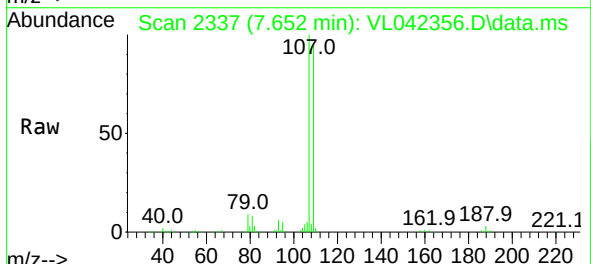
Tgt Ion: 91 Resp: 41946
Ion Ratio Lower Upper
91 100
92 59.6 48.2 72.4

Manual Integrations
APPROVED

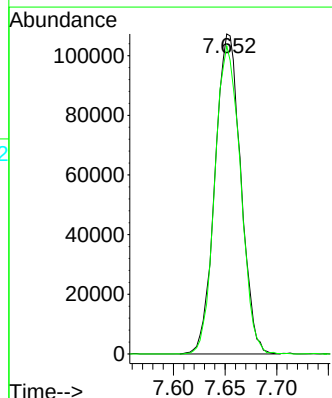
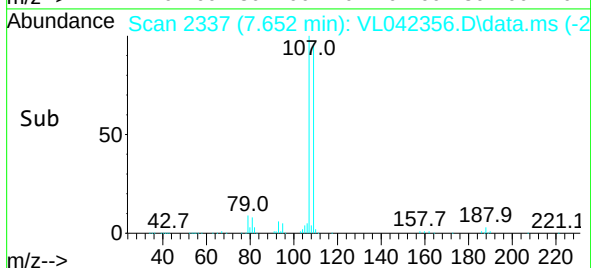
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

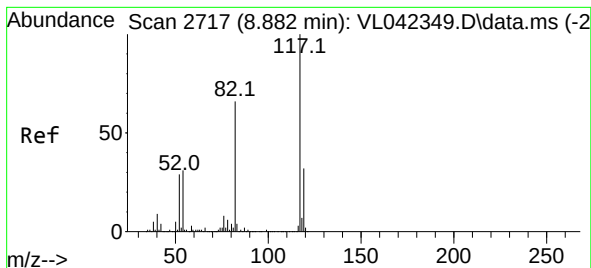


#54
1,2-Dibromoethane
Concen: 9.792 ppbv
RT: 7.652 min Scan# 2337
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43



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

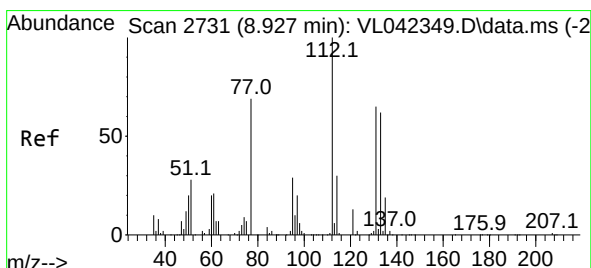
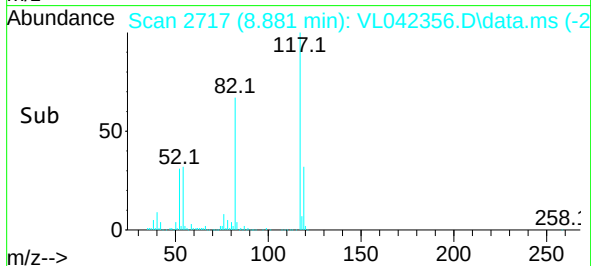
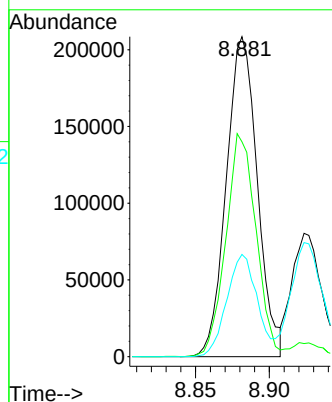
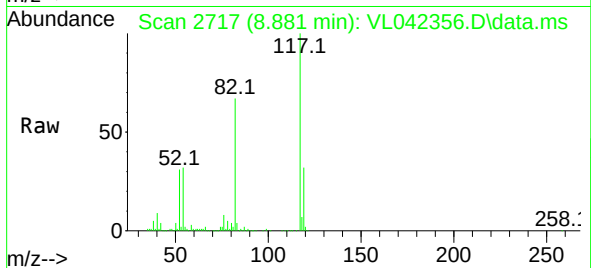
ClientSampleId :

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

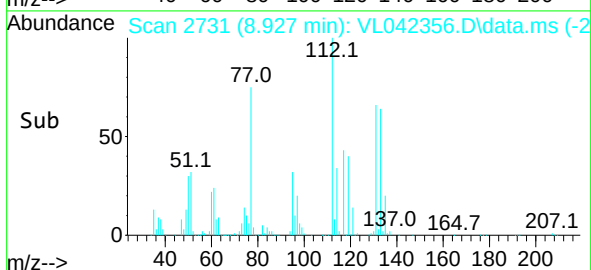
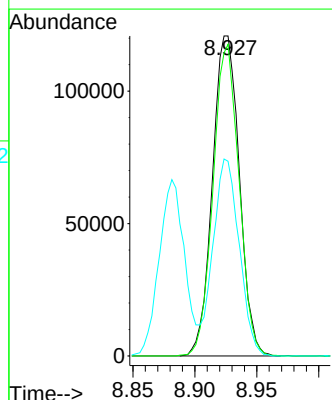
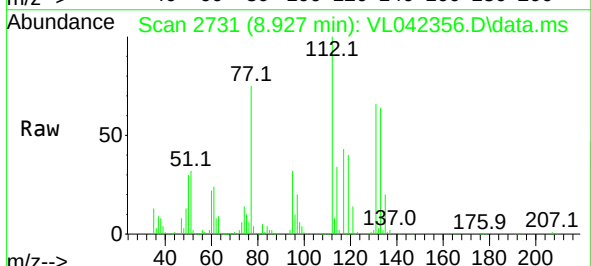
RT: 8.927 min Scan# 2731

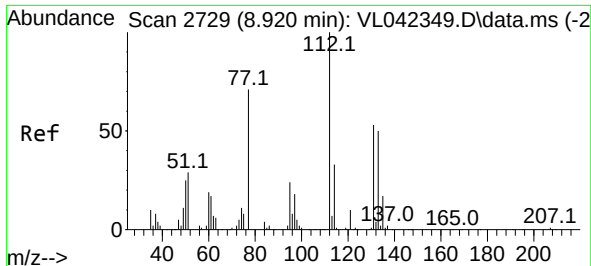
Delta R.T. -0.000 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

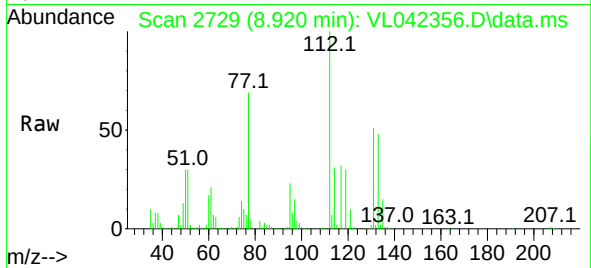
Tgt Ion:	131	Resp:	182712
Ion Ratio	Lower	Upper	
131	100		
133	93.9	78.3	117.5
119	59.4	48.7	73.1





#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

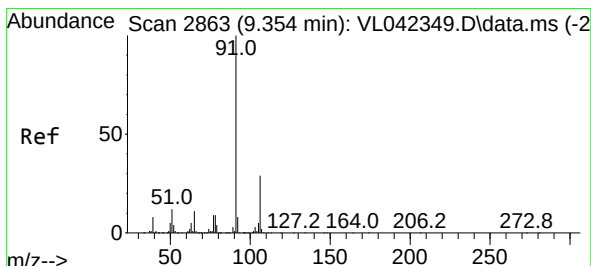
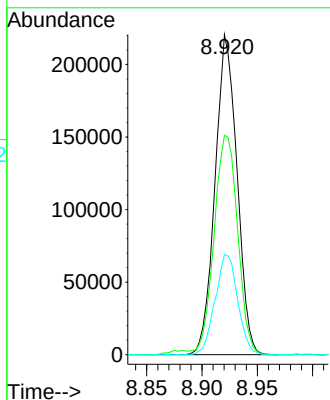
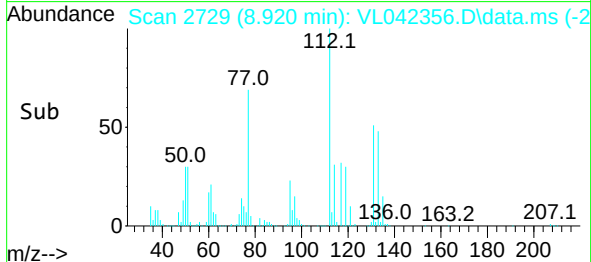
Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725



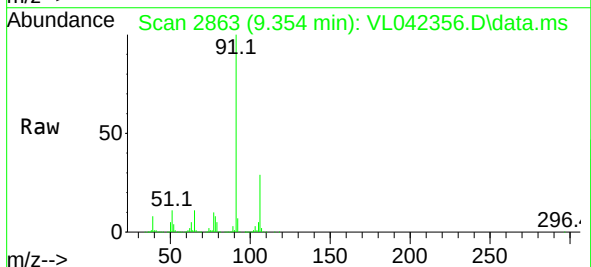
Tgt Ion: 112 Resp: 30453
Ion Ratio Lower Upper
112 100
77 68.5 57.8 86.6
114 31.3 29.3 35.9

Manual Integrations
APPROVED

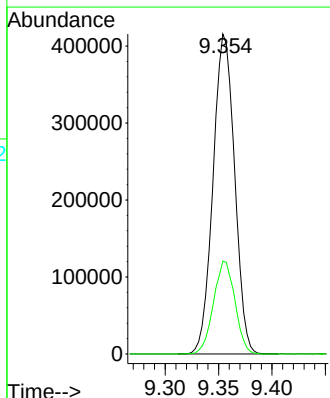
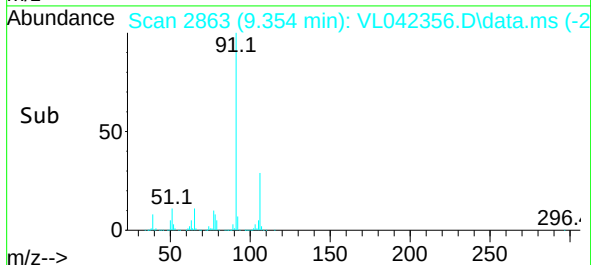
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

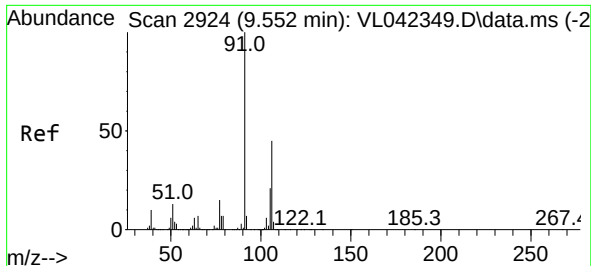


#58
Ethyl Benzene
Concen: 9.645 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43



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

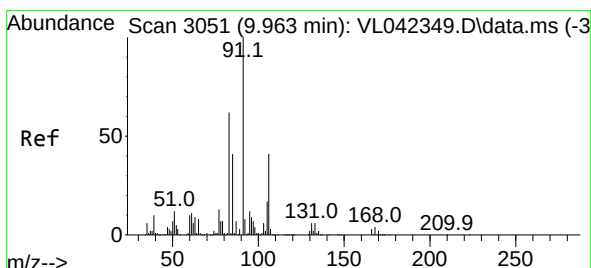
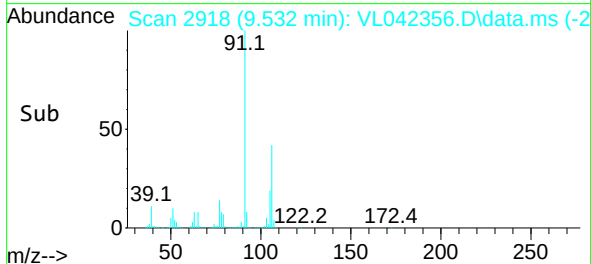
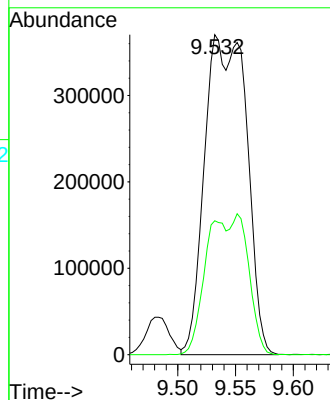
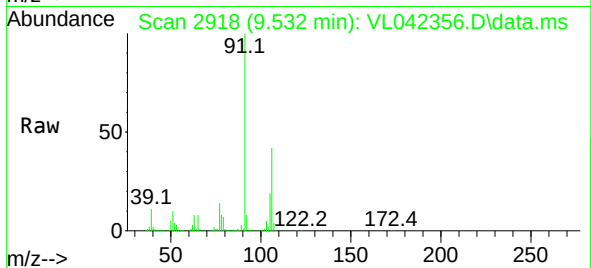
106 43.7 35.4 53.2

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

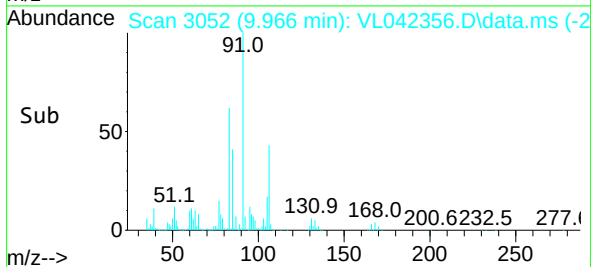
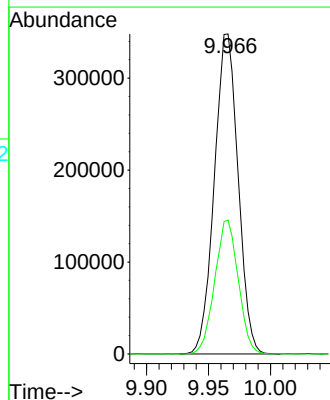
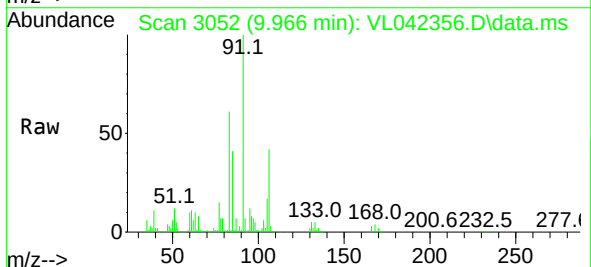
Acq: 17 Apr 2025 13:43

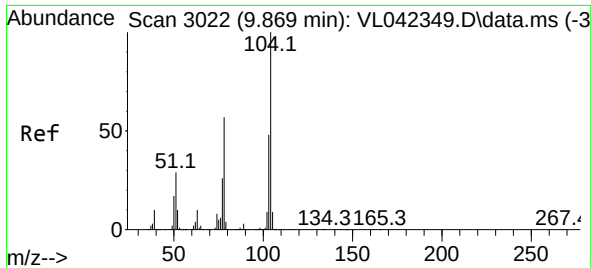
Tgt Ion: 91 Resp: 464522

Ion Ratio Lower Upper

91 100

106 41.4 21.1 63.4





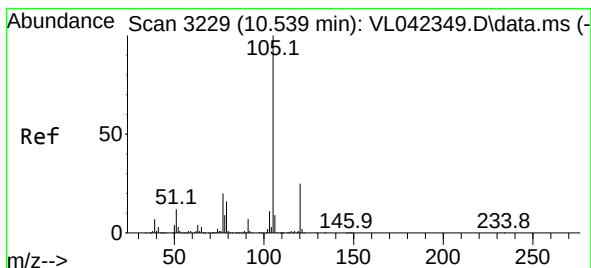
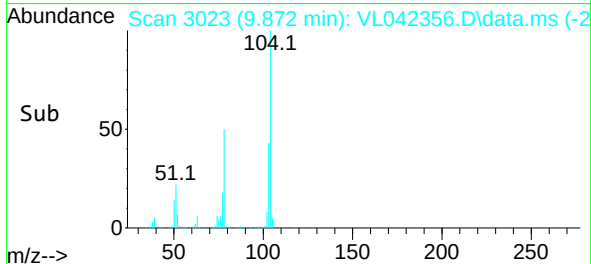
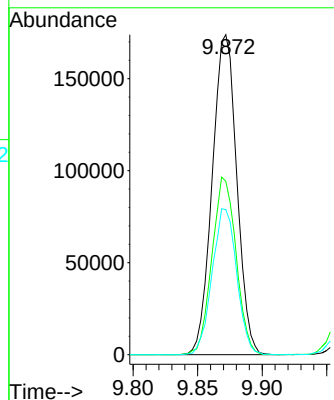
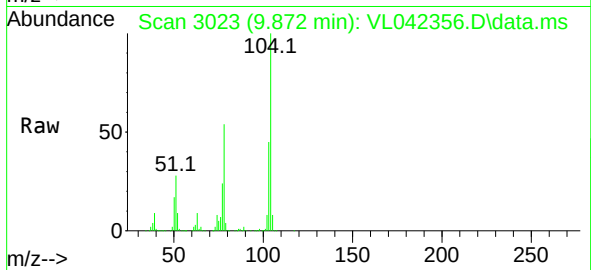
#61
Styrene
Concen: 9.813 ppbv
RT: 9.872 min Scan# 3022
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Tgt Ion:104 Resp: 229869
Ion Ratio Lower Upper
104 100
78 54.5 44.6 66.8
103 45.7 37.4 56.0

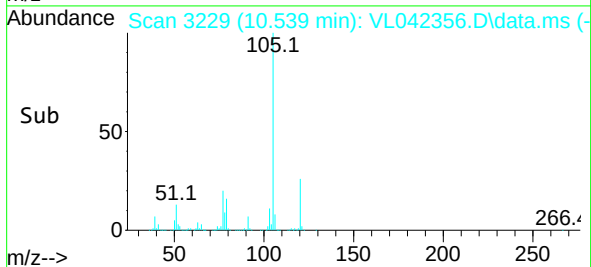
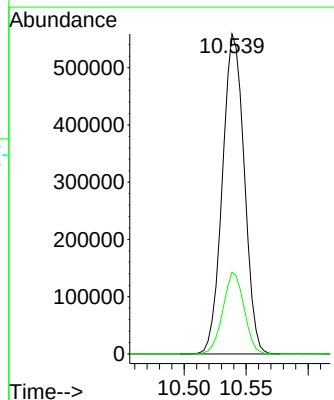
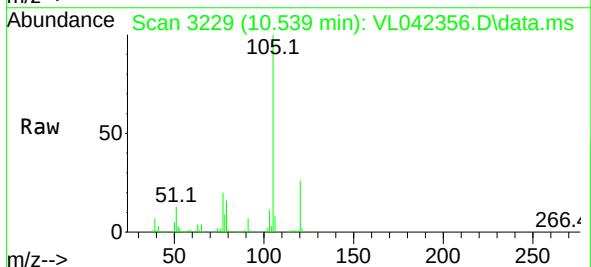
Manual Integrations
APPROVED

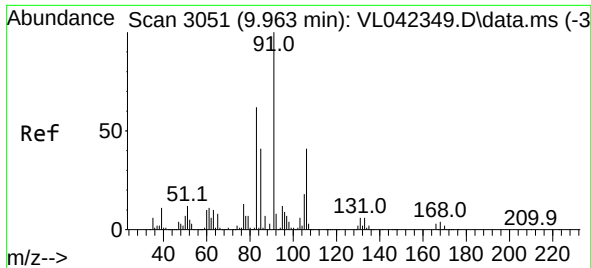
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

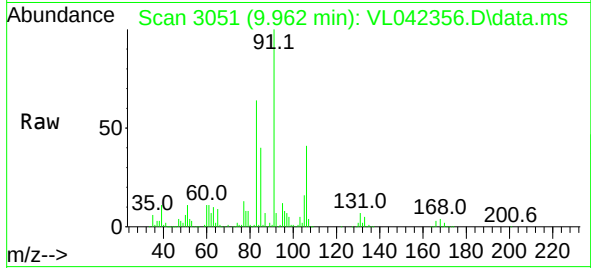
Tgt Ion:105 Resp: 685965
Ion Ratio Lower Upper
105 100
120 24.8 19.8 29.8





#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

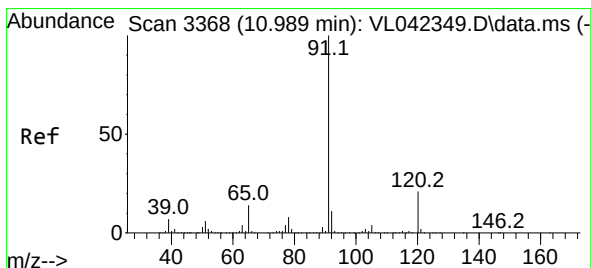
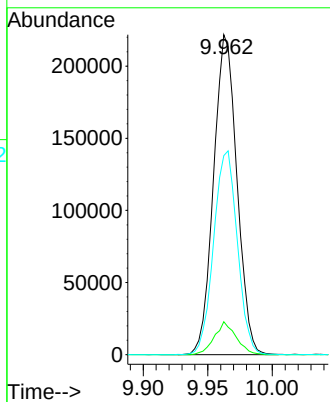
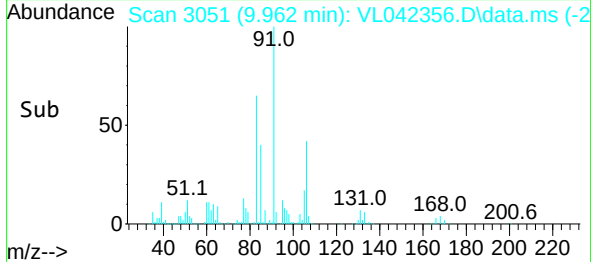
Instrument : MSVOA_L
ClientSampleId : ICVVL041725



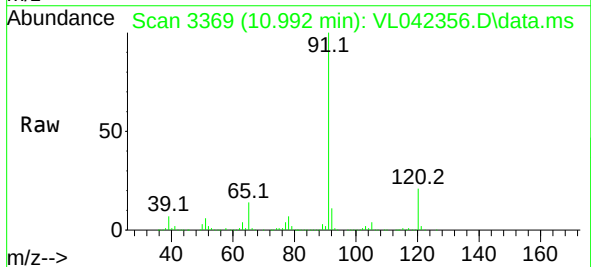
Tgt Ion: 83 Resp: 27900
Ion Ratio Lower Upper
83 100
131 9.6 4.5 13.7
85 64.6 32.4 97.0

Manual Integrations
APPROVED

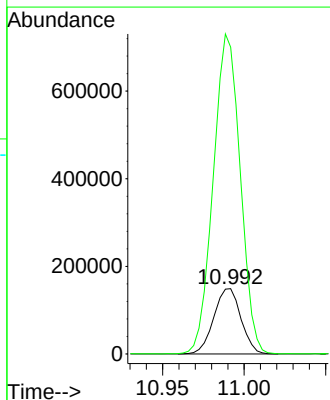
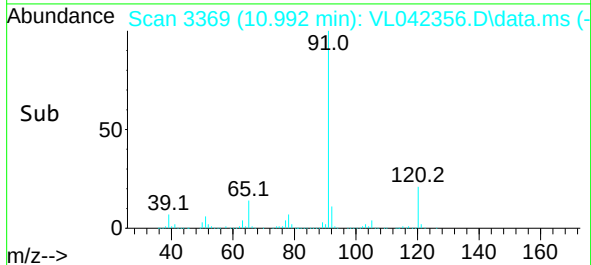
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

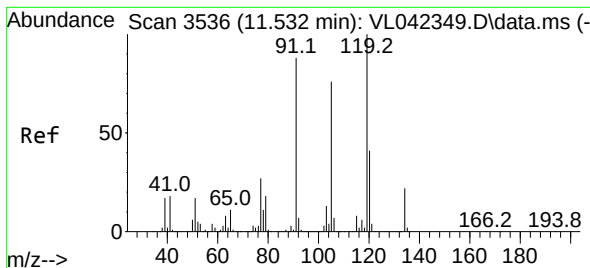


#64
n-propylbenzene
Concen: 9.533 ppbv
RT: 10.992 min Scan# 3369
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43



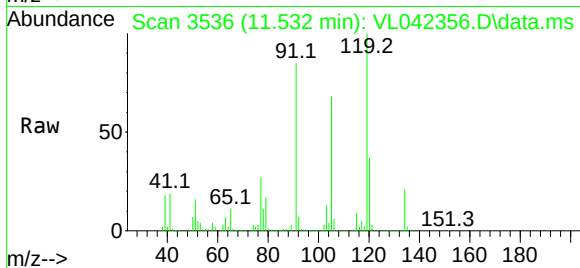
Tgt Ion:120 Resp: 172654
Ion Ratio Lower Upper
120 100
91 487.7 392.4 588.6





#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

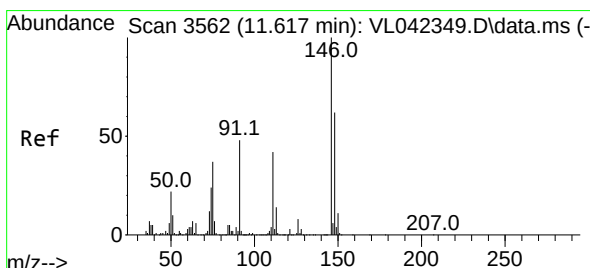
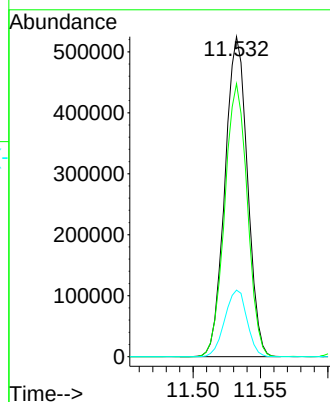
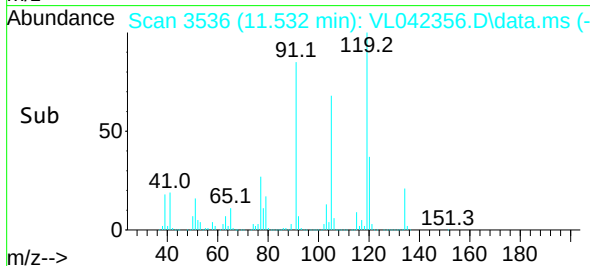
Instrument : MSVOA_L
ClientSampleId : ICVVL041725



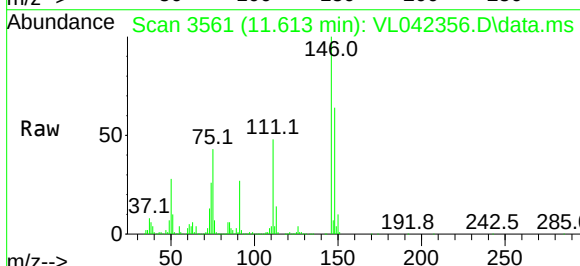
Tgt Ion: 119 Resp: 609500
Ion Ratio Lower Upper
119 100
91 85.8 74.6 111.8
134 20.5 18.8 28.2

Manual Integrations
APPROVED

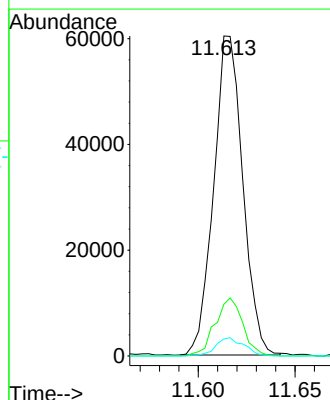
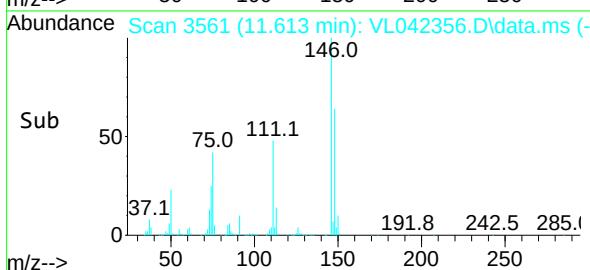
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

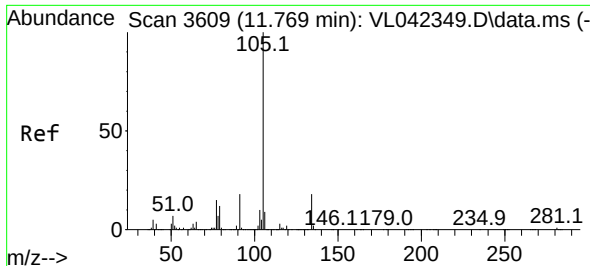


#66
Benzyl Chloride
Concen: 8.664 ppbv
RT: 11.613 min Scan# 3561
Delta R.T. -0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43



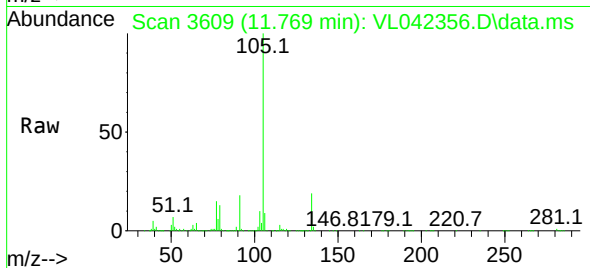
Tgt Ion: 91 Resp: 63051
Ion Ratio Lower Upper
91 100
126 17.3 11.8 17.6
128 5.6 4.5 6.7





#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

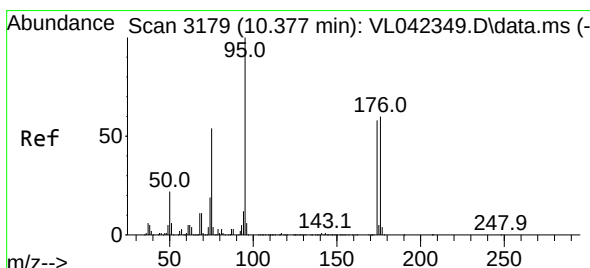
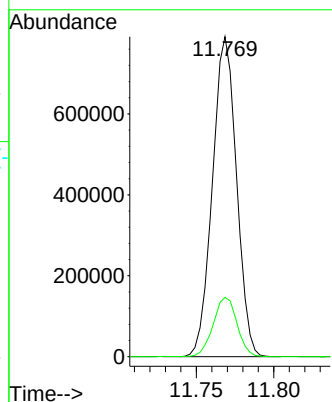
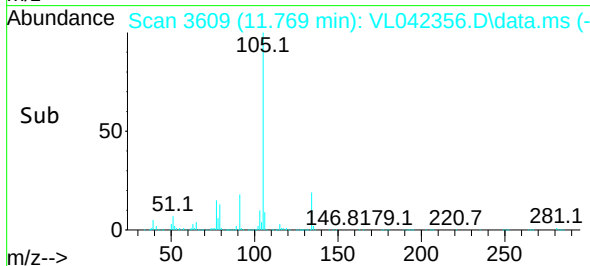
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL041725



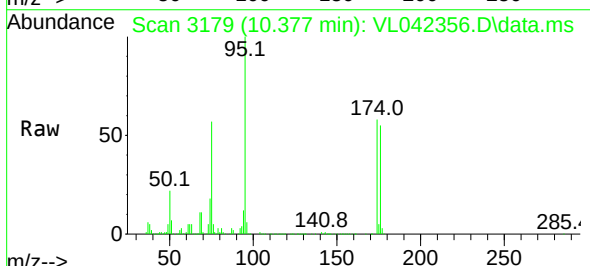
Tgt Ion: 105 Resp: 85380
 Ion Ratio Lower Upper
 105 100
 134 18.5 14.6 21.8

Manual Integrations
 APPROVED

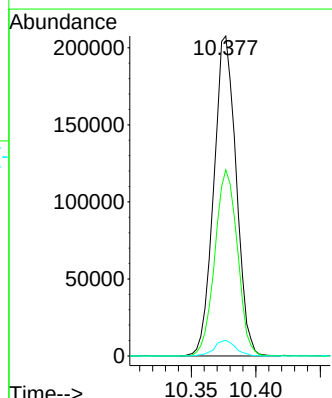
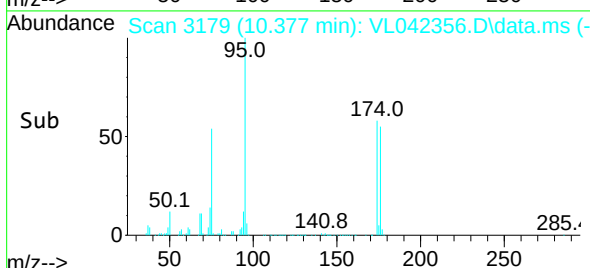
Reviewed By : Semsettin Yesilyurt 04/18/2025
 Supervised By : Mahesh Dadoda 04/18/2025

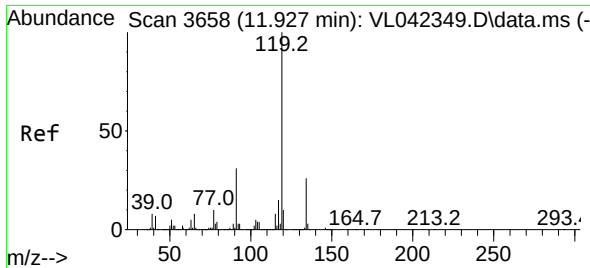


#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.969 ppbv
 RT: 10.377 min Scan# 3179
 Delta R.T. -0.000 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43



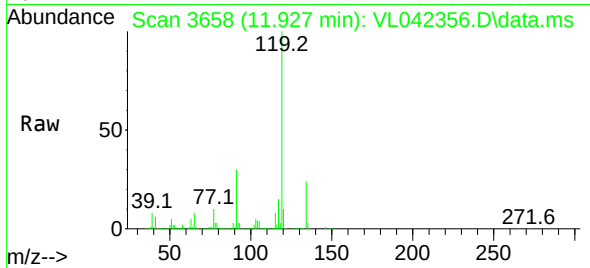
Tgt Ion: 95 Resp: 250149
 Ion Ratio Lower Upper
 95 100
 174 58.7 48.5 72.7
 175 4.7 3.7 5.5





#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

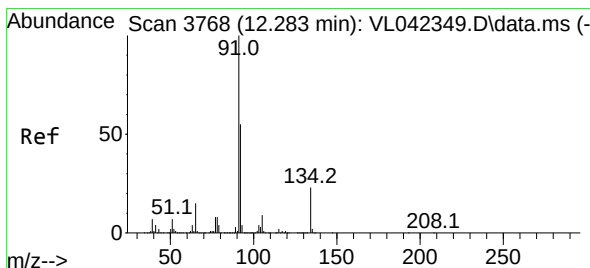
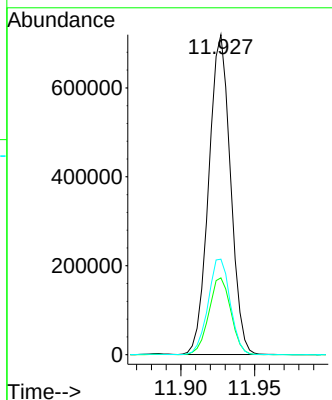
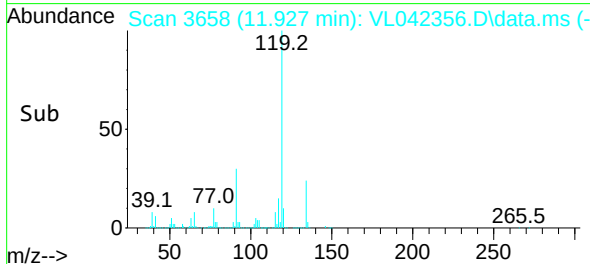
Instrument : MSVOA_L
ClientSampleId : ICVVL041725



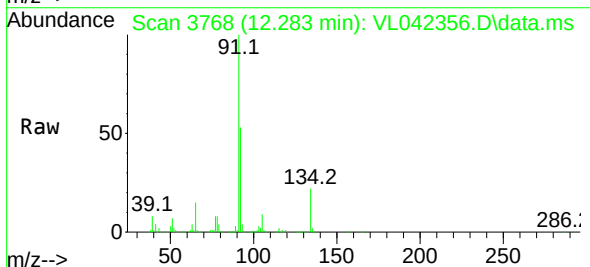
Tgt Ion: 119 Resp: 737861
Ion Ratio Lower Upper
119 100
134 24.5 20.0 30.0
91 30.6 24.4 36.6

Manual Integrations
APPROVED

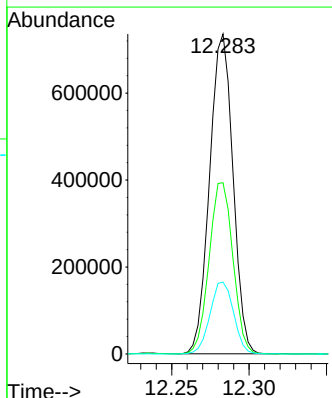
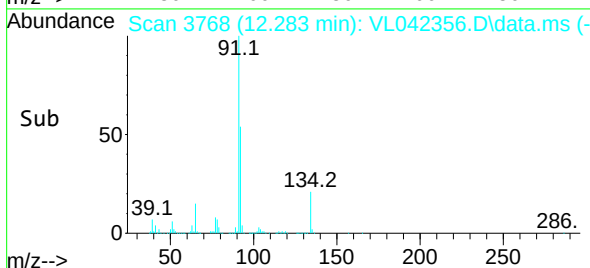
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

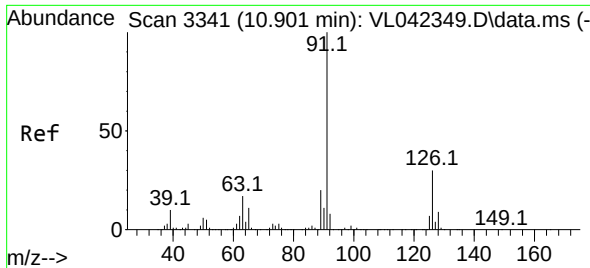


#70
n-Butylbenzene
Concen: 9.255 ppbv
RT: 12.283 min Scan# 3768
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43



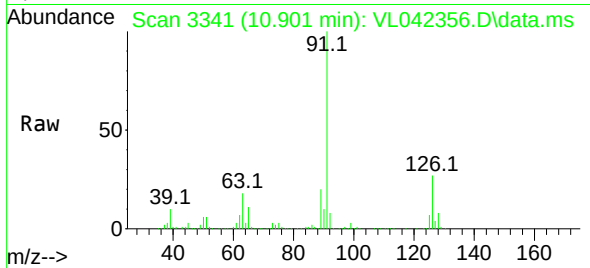
Tgt Ion: 91 Resp: 771461
Ion Ratio Lower Upper
91 100
92 54.9 44.2 66.4
134 22.7 18.2 27.4





#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

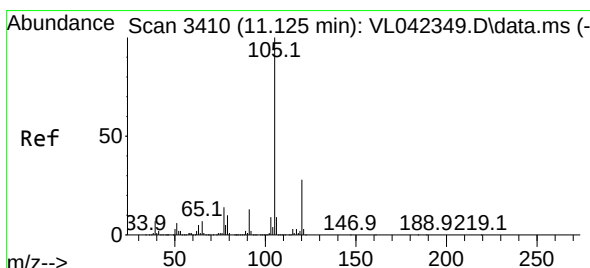
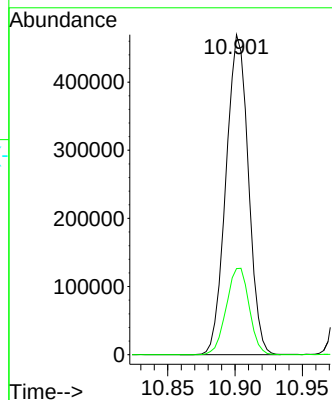
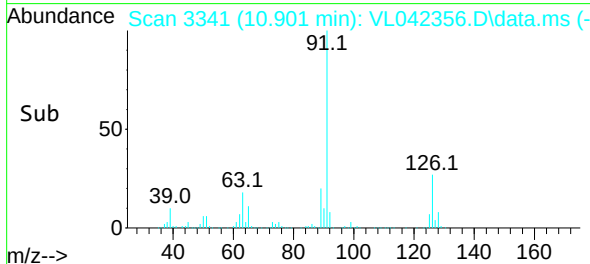
Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725



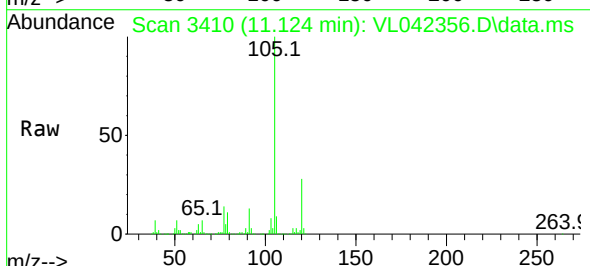
Tgt Ion: 91 Resp: 543794
Ion Ratio Lower Upper
91 100
126 27.5 11.4 45.4

Manual Integrations
APPROVED

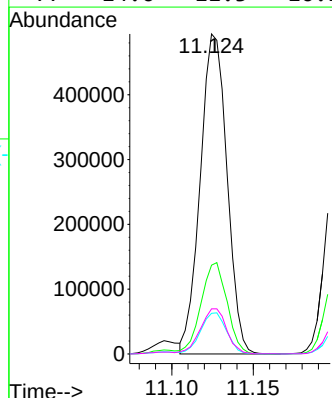
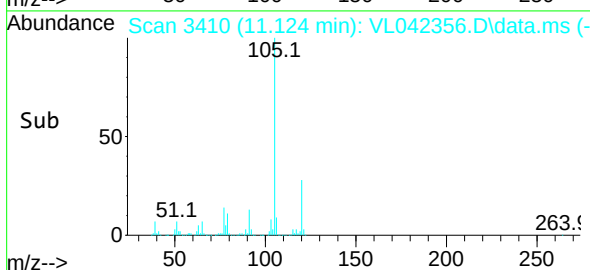
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

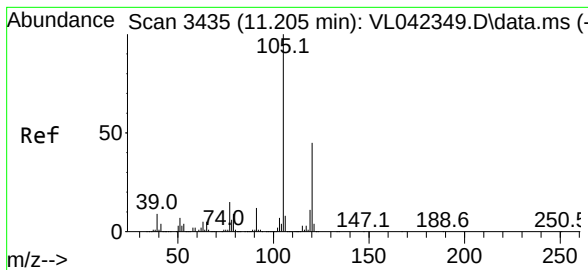


#72
4-Ethyltoluene
Concen: 9.385 ppbv
RT: 11.124 min Scan# 3410
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43



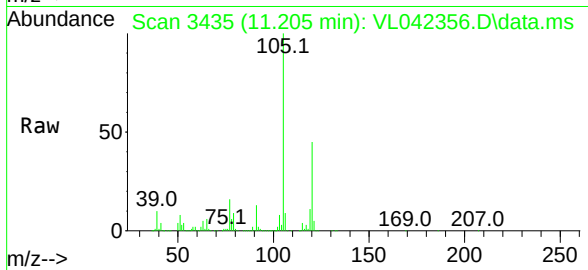
Tgt Ion:105 Resp: 563136
Ion Ratio Lower Upper
105 100
120 28.9 23.2 34.8
91 13.2 10.4 15.6
77 14.6 11.3 16.9





#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

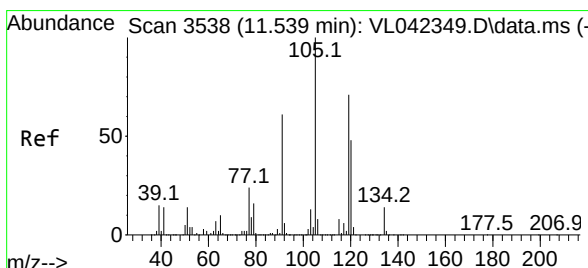
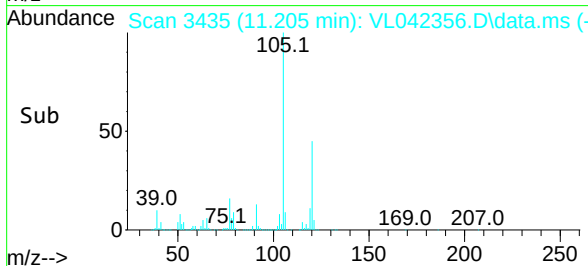
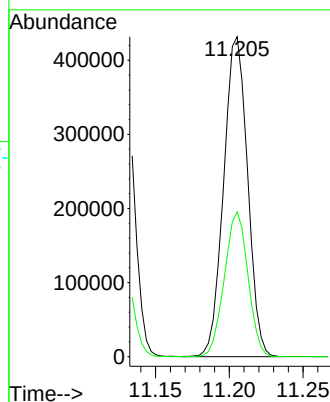
Instrument : MSVOA_1
 ClientSampleId : ICVVL041725



Tgt Ion:105 Resp: 48658
 Ion Ratio Lower Upper
 105 100
 120 45.2 35.6 53.4

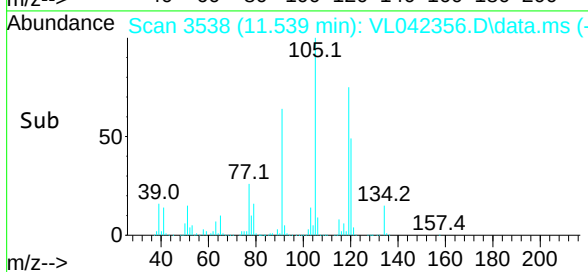
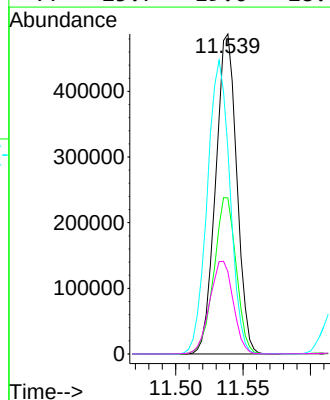
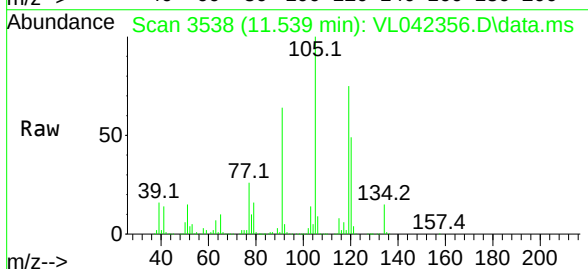
Manual Integrations
 APPROVED

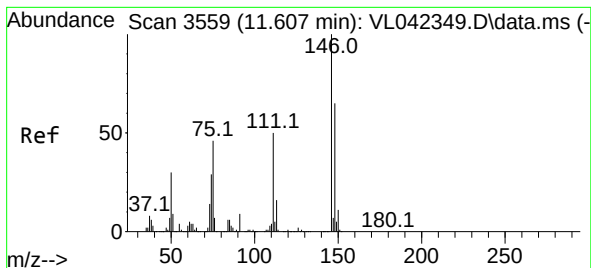
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



#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 :

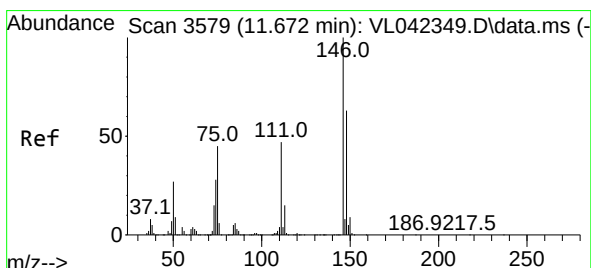
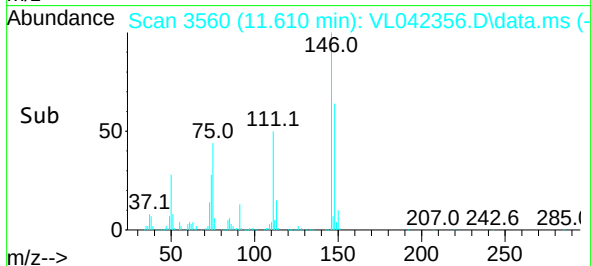
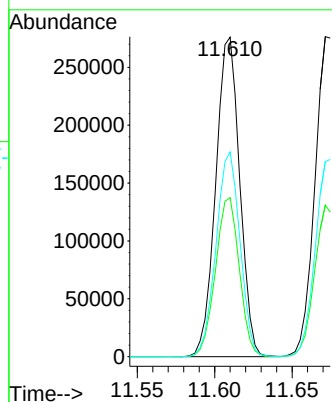
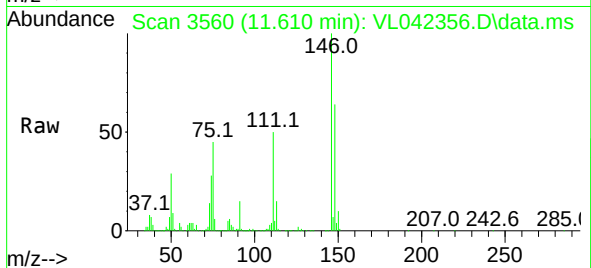
ICVVL041725

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

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



#76

1,4-Dichlorobenzene

Concen: 9.210 ppbv

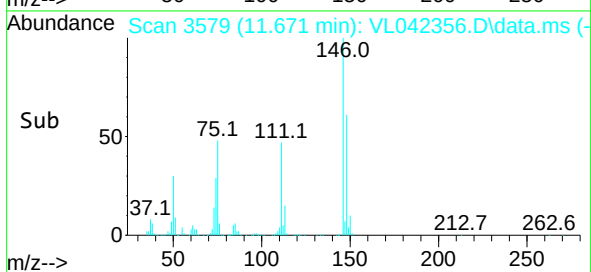
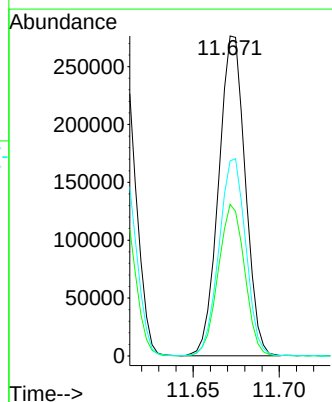
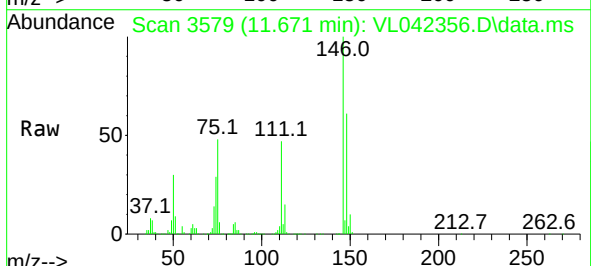
RT: 11.671 min Scan# 3579

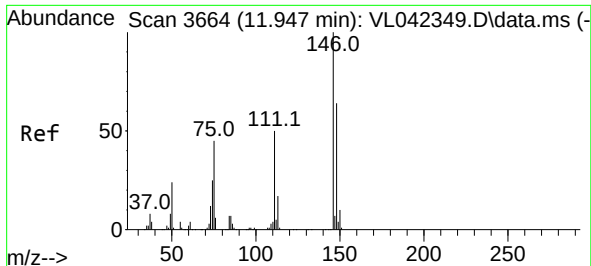
Delta R.T. -0.000 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

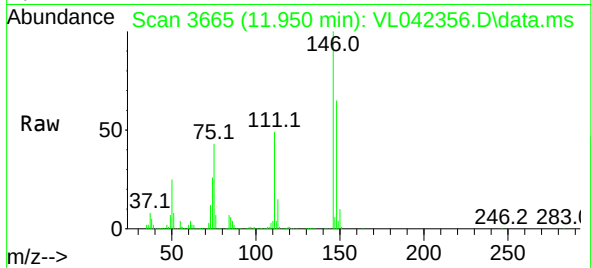
Tgt Ion:	146	Resp:	297697
Ion Ratio	Lower	Upper	
146	100		
111	47.1	24.2	72.6
148	62.3	32.1	96.5





#77
1,2-Dichlorobenzene
Concen: 9.251 ppbv
RT: 11.950 min Scan# 30
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

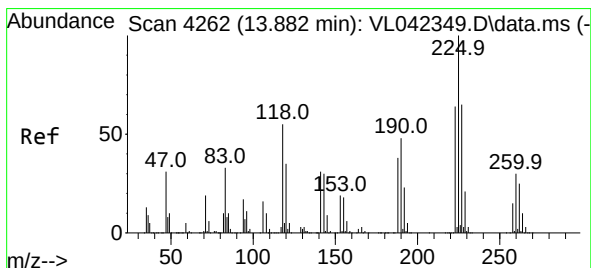
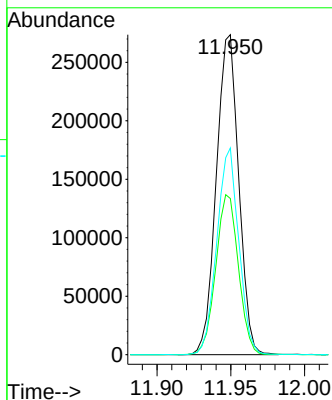
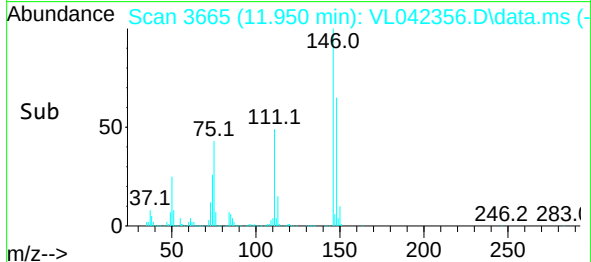
Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725



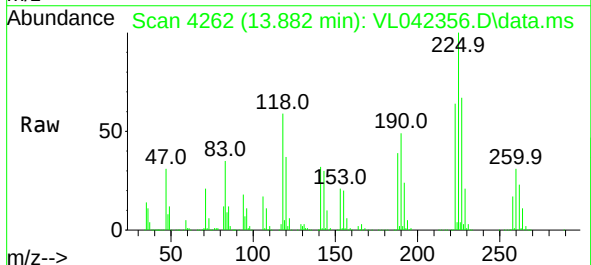
Tgt Ion:146 Resp: 289284
Ion Ratio Lower Upper
146 100
111 50.8 25.3 75.9
148 63.4 31.5 94.5

Manual Integrations
APPROVED

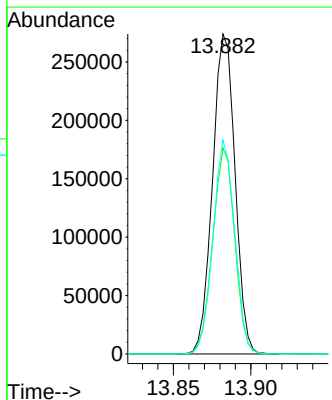
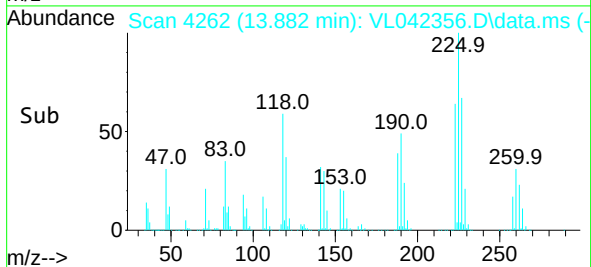
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

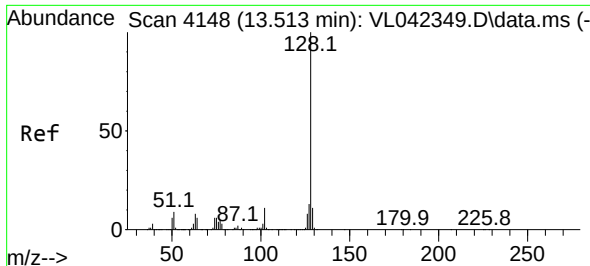


#78
Hexachloro-1,3-Butadiene
Concen: 8.771 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43



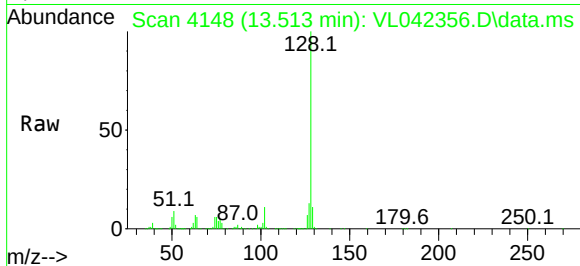
Tgt Ion:225 Resp: 276960
Ion Ratio Lower Upper
225 100
223 63.0 50.3 75.5
227 64.5 51.5 77.3





#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

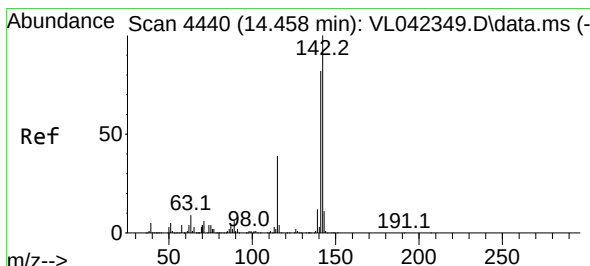
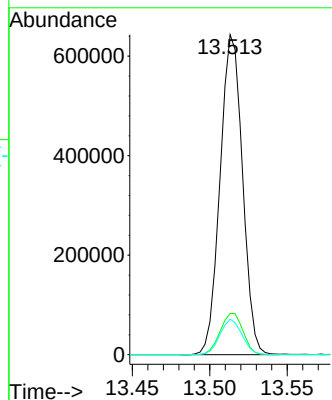
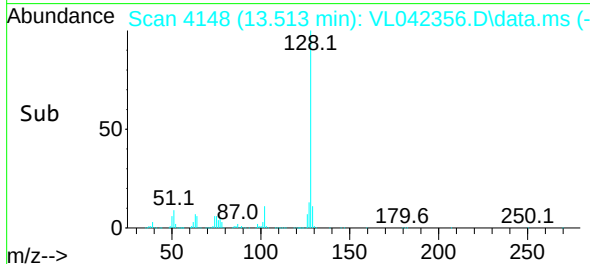
Instrument : MSVOA_L
ClientSampleId : ICVVL041725



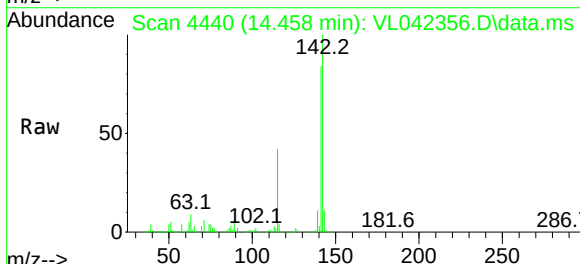
Tgt Ion:128 Resp: 647349
Ion Ratio Lower Upper
128 100
127 12.9 10.6 15.8
129 11.1 8.6 12.8

Manual Integrations
APPROVED

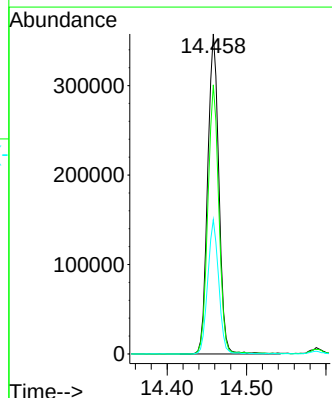
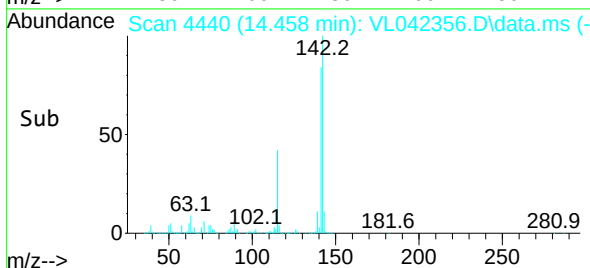
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

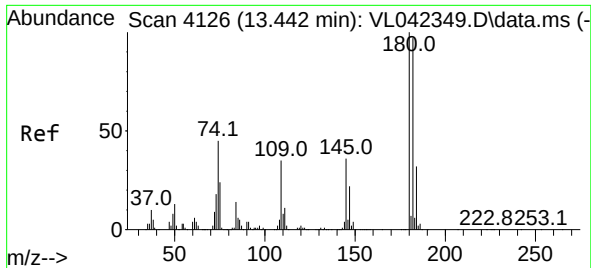


#80
Naphthalene,2-methyl-
Concen: 8.307 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43



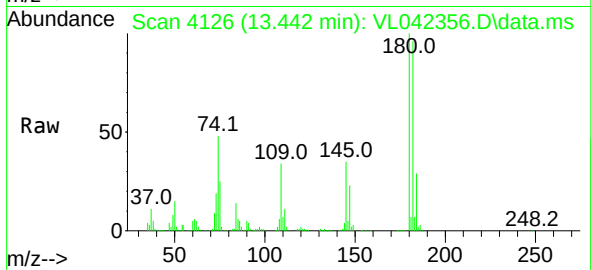
Tgt Ion:142 Resp: 350259
Ion Ratio Lower Upper
142 100
141 83.0 66.8 100.2
115 41.4 33.4 50.2





#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

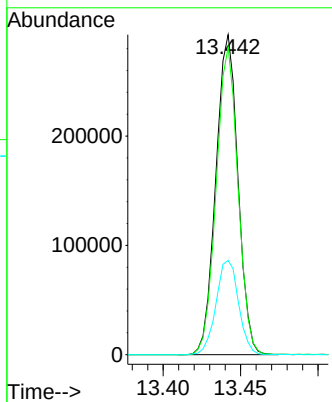
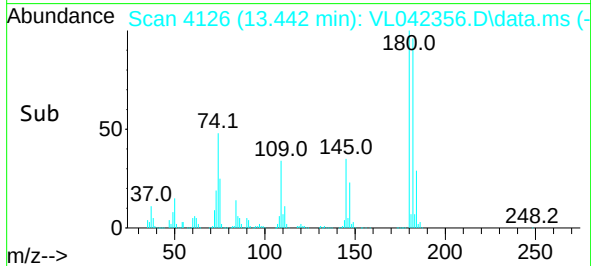
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL041725



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 :
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)
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.: Q1665 SAS No.: Q1665 SDG No.: Q1665

Instrument ID: MSVOA_L Calibration Date/Time: 04/09/2025 10:20

Lab File ID: VL042286.D Init. Calib. Date(s): 03/27/2025 03/27/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 08:26 11:36

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

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	1.476	1.444		-2.17	30
Chloromethane	0.603	0.607		0.66	30
Vinyl Chloride	0.639	0.560		-12.36	30
Bromomethane	0.273	0.250		-8.43	30
Chloroethane	0.242	0.225		-7.03	30
Tetrahydrofuran	0.418	0.441		5.5	30
Trichlorofluoromethane	1.437	1.405		-2.23	30
1,1,2-Trichlorotrifluoroethane	1.181	1.149		-2.71	30
Dichlorotetrafluoroethane	1.257	1.243		-1.11	30
tert-Butyl alcohol	1.742	1.415		-18.77	30
Heptane	1.839	1.800		-2.12	30
1,1-Dichloroethene	0.552	0.499		-9.6	30
Acetone	1.399	1.260		-9.94	30
Carbon Disulfide	1.503	1.391		-7.45	30
Methyl tert-Butyl Ether	0.873	0.705		-19.24	30
Methylene Chloride	0.521	0.441		-15.35	30
trans-1,2-Dichloroethene	0.638	0.568		-10.97	30
1,1-Dichloroethane	1.183	1.159		-2.03	30
Cyclohexane	1.217	1.095		-10.02	30
2-Butanone	0.725	0.789		8.83	30
Carbon Tetrachloride	0.781	0.879		12.55	30
cis-1,2-Dichloroethene	1.423	1.297		-8.85	30
Chloroform	2.052	2.190		6.72	30
1,1,1-Trichloroethane	2.349	2.135		-9.11	30
2,2,4-Trimethylpentane	1.675	1.869		11.58	30
Benzene	0.991	1.071		8.07	30
1,2-Dichloroethane	0.568	0.647		13.91	30
Trichloroethene	0.414	0.429		3.62	30
1,2-Dichloropropane	0.361	0.387		7.2	30
Bromodichloromethane	0.782	0.904		15.6	30
4-Methyl-2-Pentanone	1.149	1.122		-2.35	30
Toluene	1.175	1.171		-0.34	30
t-1,3-Dichloropropene	0.450	0.371		-17.56	30
cis-1,3-Dichloropropene	0.552	0.493		-10.69	30
1,1,2-Trichloroethane	0.382	0.434		13.61	30
Dibromochloromethane	0.647	0.705		8.96	30
1,2-Dibromoethane	0.532	0.578		8.65	30
Tetrachloroethene	0.393	0.357		-9.16	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.: Q1665 SAS No.: Q1665 SDG No.: Q1665

Instrument ID: MSVOA_L Calibration Date/Time: 04/09/2025 10:20

Lab File ID: VL042286.D Init. Calib. Date(s): 03/27/2025 03/27/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 08:26 11:36

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

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Chlorobenzene	0.949	1.140		20.13	30
Ethyl Benzene	1.776	1.924		8.33	30
m/p-Xylene	1.418	1.658		16.92	30
o-Xylene	1.422	1.659		16.67	30
Styrene	0.703	0.718		2.13	30
Bromoform	0.581	0.630		8.43	30
1,1,2,2-Tetrachloroethane	0.864	1.091		26.27	30
2-Chlorotoluene	1.650	1.869		13.27	30
1,3,5-Trimethylbenzene	1.546	1.772		14.62	30
1,2,4-Trimethylbenzene	1.781	2.025		13.7	30
1,3-Dichlorobenzene	0.977	1.218		24.67	30
1,4-Dichlorobenzene	0.972	1.210		24.49	30
1,2-Dichlorobenzene	0.951	1.197		25.87	30
1,2,4-Trichlorobenzene	0.899	1.016		13.01	30
Hexachloro-1,3-Butadiene	0.968	0.955		-1.34	30
1,3-Butadiene	0.683	0.610		-10.69	30
Naphthalene	1.948	2.309		18.53	30
4-Ethyltoluene	1.770	2.081		17.57	30
1-Bromo-4-Fluorobenzene	0.821	0.815		-0.73	30
Hexane	1.402	1.381		-1.5	30
Allyl Chloride	0.986	0.899		-8.82	30
1,4-Dioxane	191.626	182.801		-4.61	30
Methyl Methacrylate	0.420	0.390		-7.14	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\VL040925\
 Data File : VL042286.D
 Acq On : 09 Apr 2025 10:20
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Quant Time: Apr 10 01:39:52 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 02:00:52 2025

Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 04/10/2025
 Supervised By : Mahesh Dadoda 04/10/2025

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

Internal Standards						
1) Bromochloromethane	2.784	49	155631	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.956	114	397176	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.879	117	350140	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.374 95 285515 9.930 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 99.300%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.496	85	224739	9.780	ppbv	99
3) Chlorodifluoromethane	1.473	51	242368	10.325	ppbv	99
4) Chloromethane	1.531	50	94421	10.054	ppbv	99
5) Vinyl Chloride	1.580	62	87077	8.750	ppbv	96
6) Bromomethane	1.667	94	38883	9.136	ppbv	95
7) Chloroethane	1.703	64	35019	9.290	ppbv	100
8) Dichlorotetrafluoroethane	1.554	85	193376	9.882	ppbv	92
9) Propene	1.483	41	92247	8.573	ppbv	98
10) Heptane	4.972	43	280156	9.789	ppbv	99
11) Trichlorofluoromethane	1.874	101	218729	9.783	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.137	101	178752	9.726	ppbv	98
13) Ethanol	1.719	45	4608	4.530	ppbv	92
14) Bromoethene	1.781	108	61204	8.693	ppbv	97
15) Acetone	1.832	43	196063	9.008	ppbv	96
16) 1,3-Butadiene	1.606	39	94932	8.931	ppbv	98
17) tert-Butyl alcohol	2.040	59	220187	8.122	ppbv	98
18) 1,1-Dichloroethene	2.033	96	77686	9.042	ppbv	98
19) Isopropyl Alcohol	1.884	45	103348	8.415	ppbv	93
20) Methylene Chloride	2.059	84	68588	8.461	ppbv	95
21) Allyl Chloride	2.095	41	139965	9.118	ppbv	96
22) trans-1,2-Dichloroethene	2.337	96	88334	8.896	ppbv	94
23) Vinyl Acetate	2.460	43	73162	7.766	ppbv #	96
24) 1,1-Dichloroethane	2.405	63	180404	9.801	ppbv	99
25) Ethyl Acetate	2.833	43	567125	10.039	ppbv	98
26) Hexane	2.823	57	214891	9.848	ppbv	97
27) Carbon Disulfide	2.146	76	216499	9.253	ppbv	97
28) Methyl tert-Butyl Ether	2.438	73	109726	8.077	ppbv	94
29) Chloroform	2.845	83	340889	10.675	ppbv	99
30) Cyclohexane	3.852	84	170359	8.991	ppbv	97
31) cis-1,2-Dichloroethene	2.719	61	201796	9.110	ppbv	97
32) 1,1,1-Trichloroethane	3.363	97	332252	9.088	ppbv	98
34) 2-Butanone	2.554	43	313515	10.886	ppbv	98
35) Carbon Tetrachloride	3.758	117	349240	11.256	ppbv	100
36) Benzene	3.651	78	425324	10.802	ppbv	97
37) 1,2-Dichloroethane	3.214	62	256791	11.391	ppbv	99
38) Trichloroethene	4.541	130	170362	10.370	ppbv	97
39) 1,2-Dichloropropane	4.312	63	153583	10.710	ppbv	95
40) 1,4-Dioxane	4.577	88	72604	9.539	ppbv #	95
41) Tetrahydrofuran	3.053	42	175060	10.556	ppbv	95
42) Bromodichloromethane	4.483	83	358962	11.551	ppbv	100
43) Methyl Methacrylate	4.875	69	154975	9.297	ppbv	97
44) 2,2,4-Trimethylpentane	4.635	57	742388	11.157	ppbv	96
45) t-1,3-Dichloropropene	6.412	75	147204	8.231	ppbv	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
 Data File : VL042286.D
 Acq On : 09 Apr 2025 10:20
 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 04/10/2025
 Supervised By :Mahesh Dadoda 04/10/2025

Quant Time: Apr 10 01:39:52 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

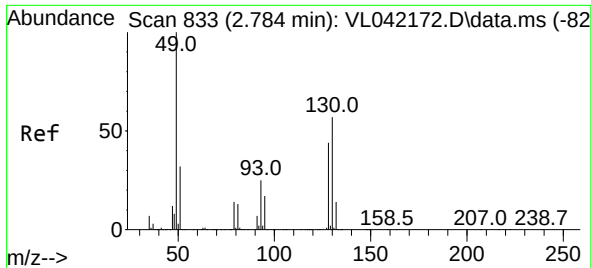
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Fri Mar 28 02:00:52 2025

Response via : Initial Calibration

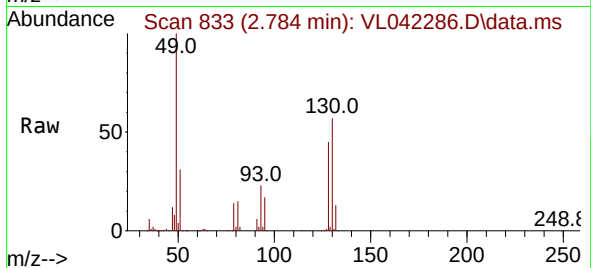
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	195802	8.932	ppbv	98
47) 1,1,2-Trichloroethane	6.574	97	172343	11.369	ppbv	97
48) Dibromochloromethane	7.380	129	280199	10.907	ppbv	100
49) Bromoform	9.481	173	250227	10.849	ppbv	99
50) 4-Methyl-2-Pentanone	5.745	43	445454	9.760	ppbv	95
51) 2-Hexanone	7.432	43	353706	9.437	ppbv #	94
52) Tetrachloroethene	8.222	164	141976	9.092	ppbv	95
53) Toluene	6.927	91	464948	9.961	ppbv	99
54) 1,2-Dibromoethane	7.649	107	229720	10.871	ppbv	96
56) 1,1,1,2-Tetrachloroethane	8.921	131	231041	11.987	ppbv	98
57) Chlorobenzene	8.917	112	399227	12.021	ppbv	93
58) Ethyl Benzene	9.351	91	673801	10.834	ppbv	98
59) m/p-Xylene	9.549	91	1161067m	23.379	ppbv	
60) o-Xylene	9.960	91	581045	11.671	ppbv	97
61) Styrene	9.869	104	251525	10.212	ppbv	98
62) Isopropylbenzene	10.536	105	859013	11.538	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.960	83	381841	12.623	ppbv	99
64) n-propylbenzene	10.986	120	228532	11.925	ppbv	100
65) tert-Butylbenzene	11.529	119	784483	11.393	ppbv	100
66) Benzyl Chloride	11.614	91	57966	7.934	ppbv	100
67) sec-Butylbenzene	11.766	105	1128106	11.787	ppbv	100
69) p-Isopropyltoluene	11.924	119	961623	11.669	ppbv	99
70) n-Butylbenzene	12.280	91	998455	11.847	ppbv	99
71) 2-Chlorotoluene	10.898	91	654276	11.323	ppbv	98
72) 4-Ethyltoluene	11.122	105	728517	11.753	ppbv	99
73) 1,3,5-Trimethylbenzene	11.202	105	620415	11.460	ppbv	100
74) 1,2,4-Trimethylbenzene	11.536	105	709204	11.371	ppbv	97
75) 1,3-Dichlorobenzene	11.607	146	426300	12.462	ppbv	98
76) 1,4-Dichlorobenzene	11.669	146	423561	12.442	ppbv	99
77) 1,2-Dichlorobenzene	11.947	146	419286	12.589	ppbv	99
78) Hexachloro-1,3-Butadiene	13.879	225	334414	9.864	ppbv	99
79) Naphthalene	13.513	128	808459	11.851	ppbv	99
80) Naphthalene,2-methyl-	14.459	142	373298	11.158	ppbv	100
81) 1,2,4-Trichlorobenzene	13.439	180	355741	11.305	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. -0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

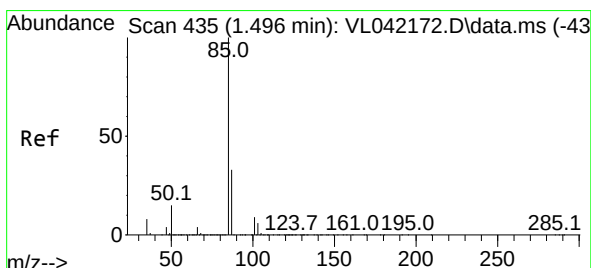
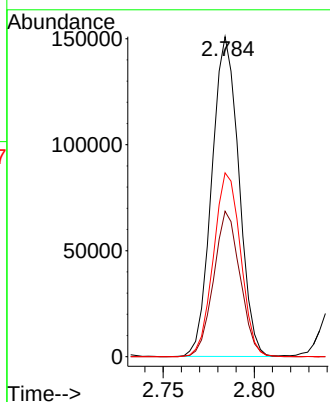
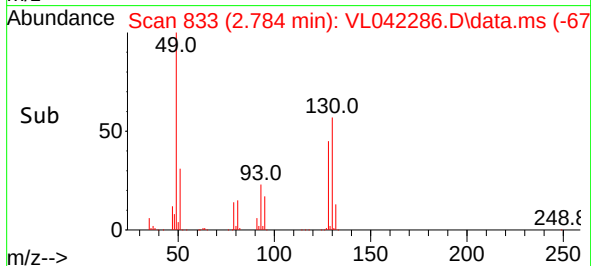
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



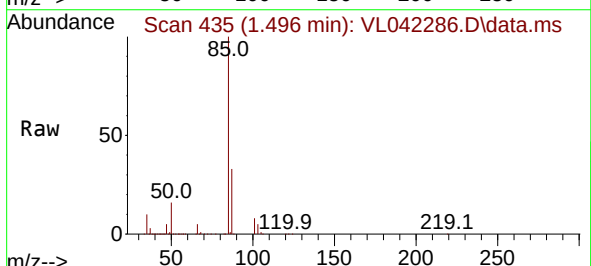
Tgt Ion: 49 Resp: 15563
Ion Ratio Lower Upper
49 100
128 44.6 22.9 68.5
130 57.7 28.8 86.4

Manual Integrations
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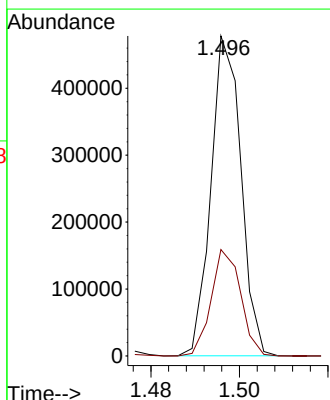
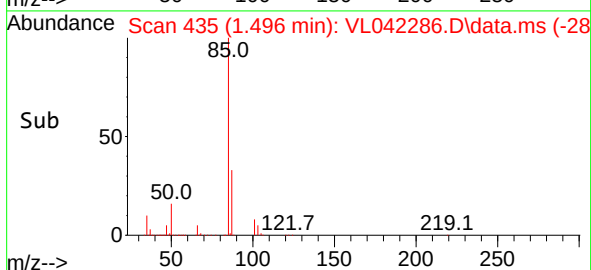
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

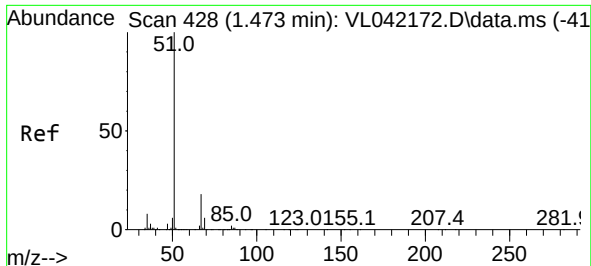


#2
Dichlorodifluoromethane
Concen: 9.780 ppbv
RT: 1.496 min Scan# 435
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20



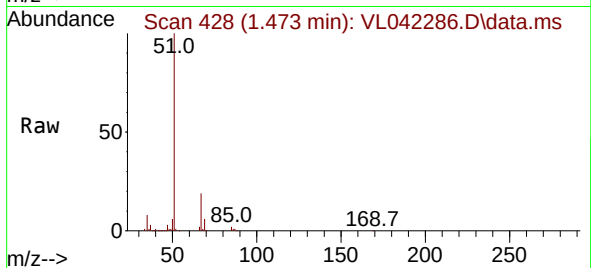
Tgt Ion: 85 Resp: 224739
Ion Ratio Lower Upper
85 100
87 33.3 26.1 39.1





#3
Chlorodifluoromethane
Concen: 10.325 ppbv
RT: 1.473 min Scan# 428
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

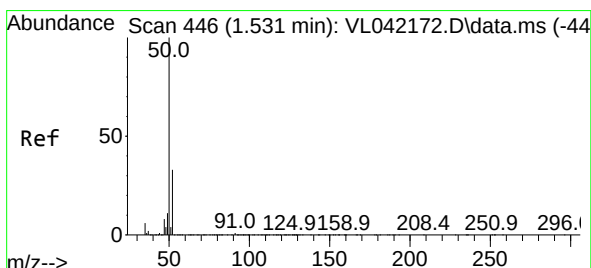
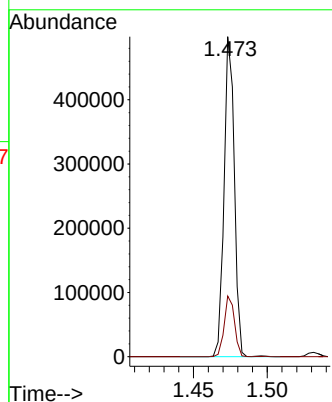
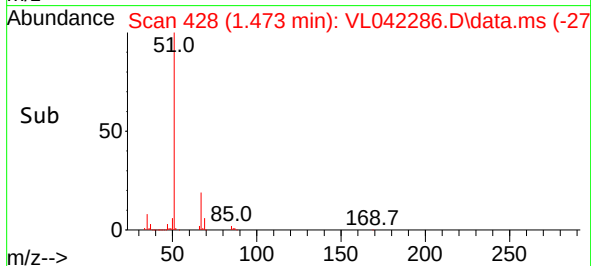
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



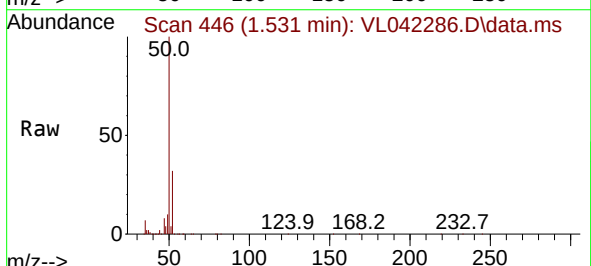
Tgt Ion: 51 Resp: 242368
Ion Ratio Lower Upper
51 100
67 19.0 15.0 22.6

Manual Integrations
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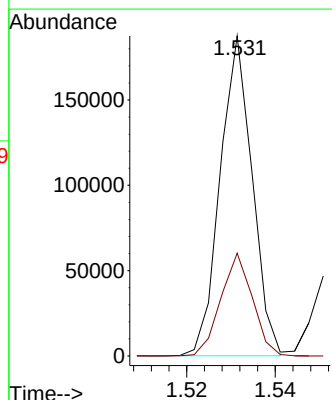
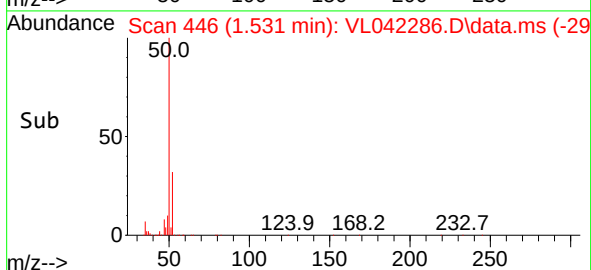
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

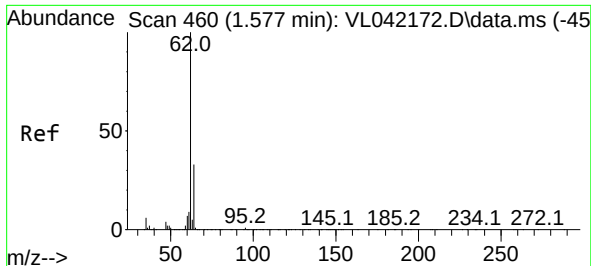


#4
Chloromethane
Concen: 10.054 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20



Tgt Ion: 50 Resp: 94421
Ion Ratio Lower Upper
50 100
52 32.1 26.1 39.1





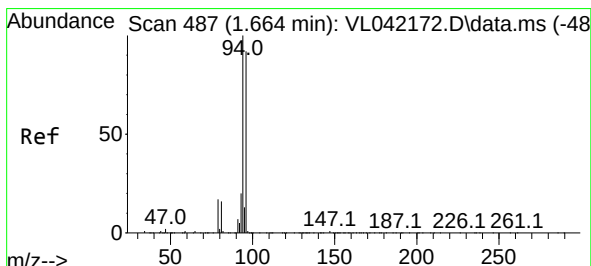
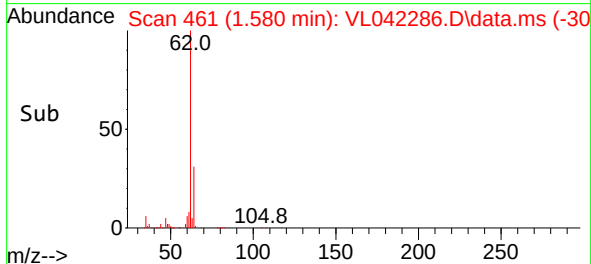
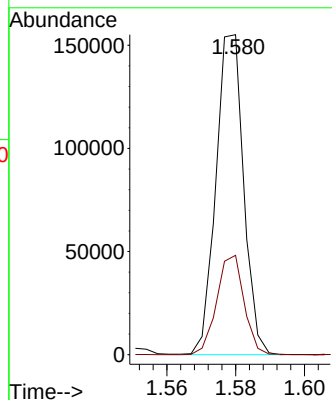
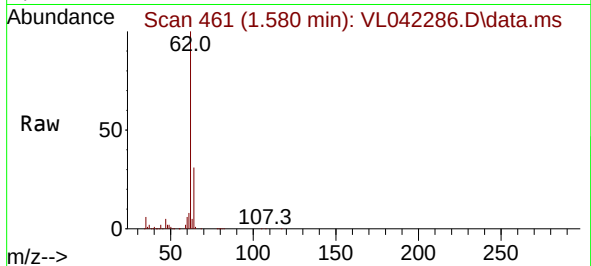
#5
 Vinyl Chloride
 Concen: 8.750 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. 0.003 min
 Lab File: VL042286.D
 Acq: 09 Apr 2025 10:20

Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDCCC010

Tgt Ion: 62 Resp: 8707
 Ion Ratio Lower Upper
 62 100
 64 31.1 26.6 40.0

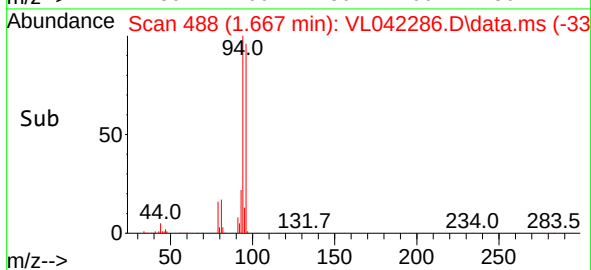
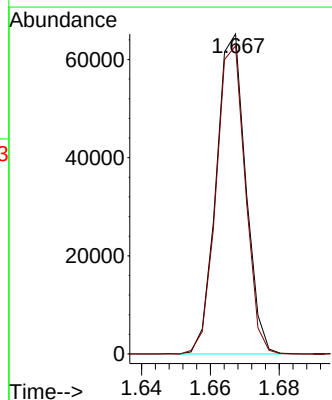
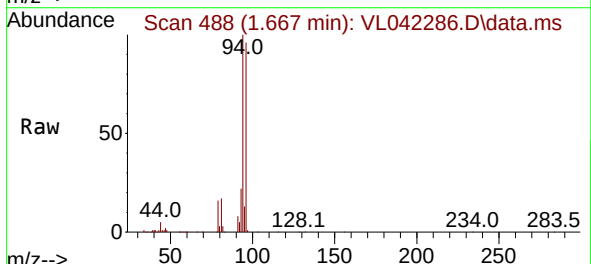
Manual Integrations
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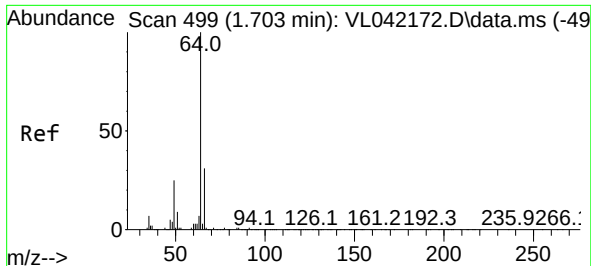
Reviewed By :Semsettin Yesilyurt 04/10/2025
 Supervised By :Mahesh Dadoda 04/10/2025



#6
 Bromomethane
 Concen: 9.136 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. 0.003 min
 Lab File: VL042286.D
 Acq: 09 Apr 2025 10:20

Tgt Ion: 94 Resp: 38883
 Ion Ratio Lower Upper
 94 100
 96 96.3 73.1 109.7





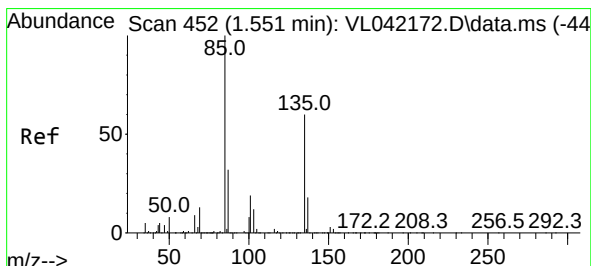
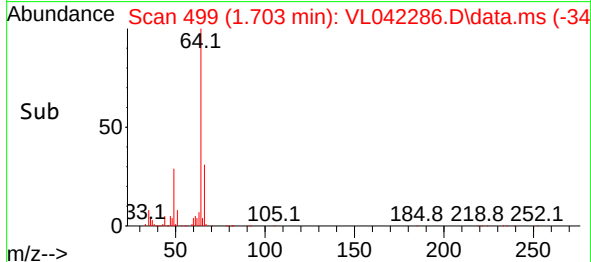
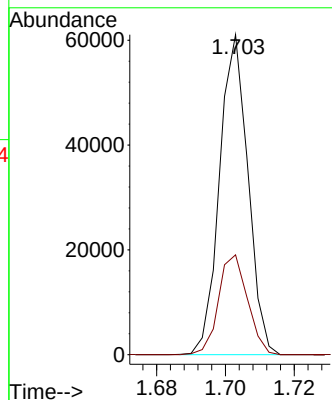
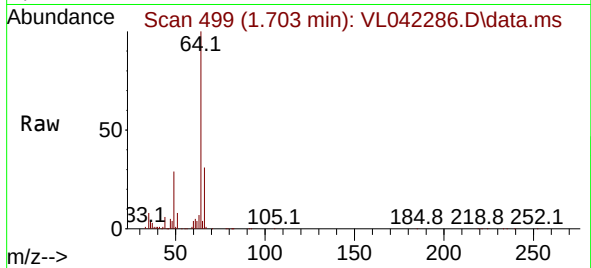
#7
Chloroethane
Concen: 9.290 ppbv
RT: 1.703 min Scan# 499
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 64 Resp: 35019
Ion Ratio Lower Upper
64 100
66 31.2 25.2 37.8

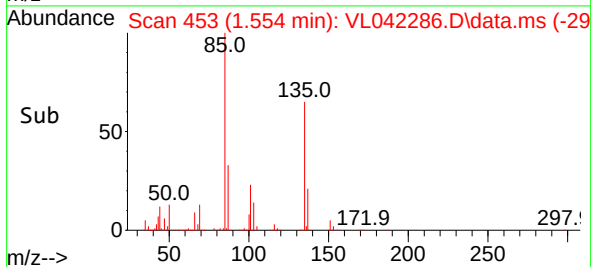
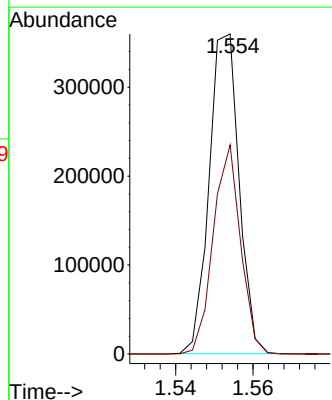
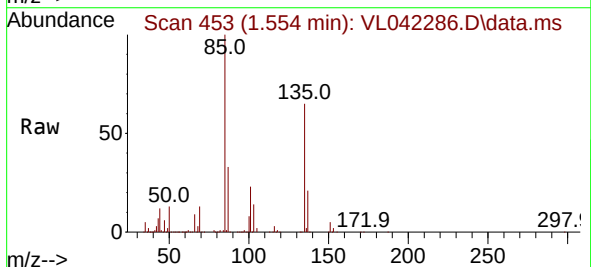
Manual Integrations
APPROVED

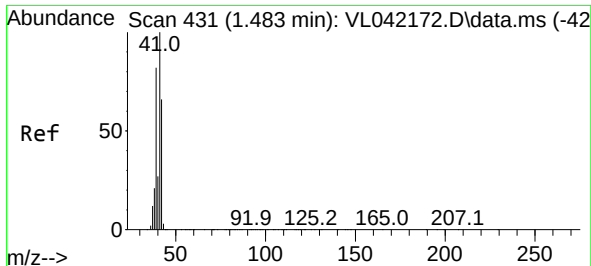
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#8
Dichlorotetrafluoroethane
Concen: 9.882 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 85 Resp: 193376
Ion Ratio Lower Upper
85 100
135 59.6 52.4 78.6





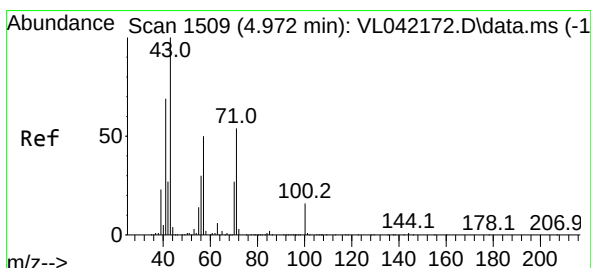
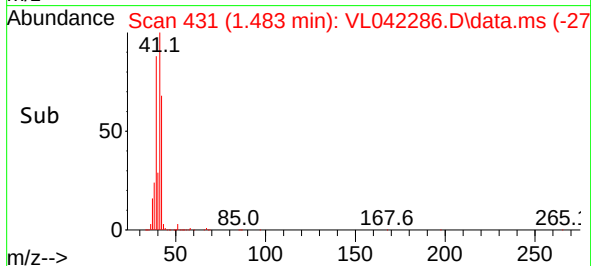
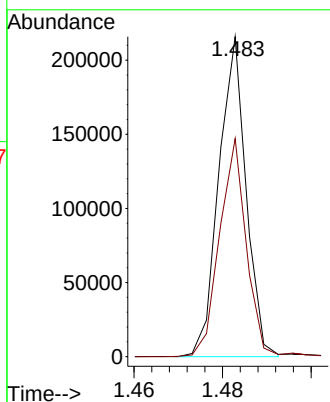
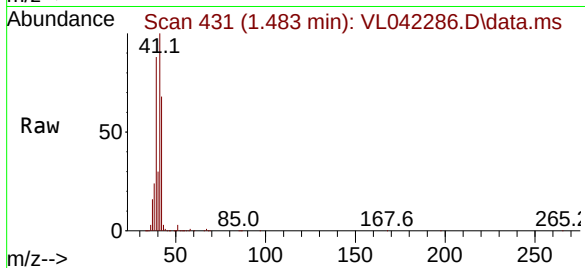
#9
Propene
Concen: 8.573 ppbv
RT: 1.483 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 41 Resp: 9224
Ion Ratio Lower Upper
41 100
42 67.9 55.4 83.2

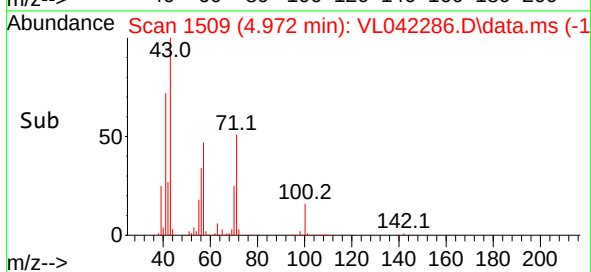
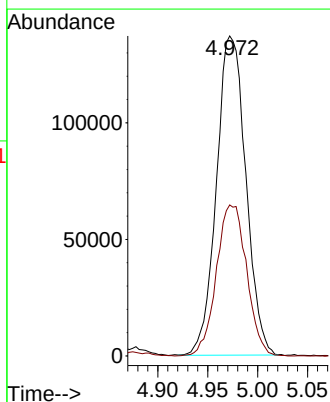
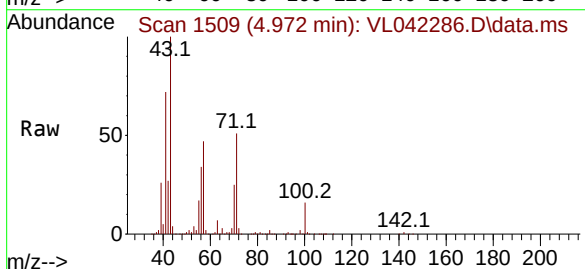
Manual Integrations
APPROVED

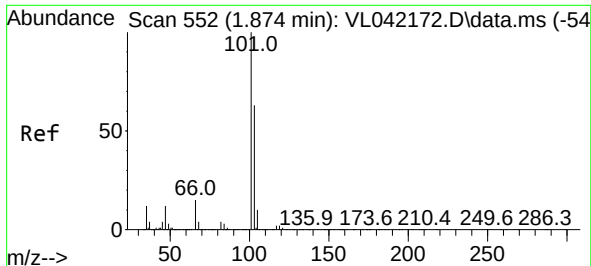
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#10
Heptane
Concen: 9.789 ppbv
RT: 4.972 min Scan# 1509
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

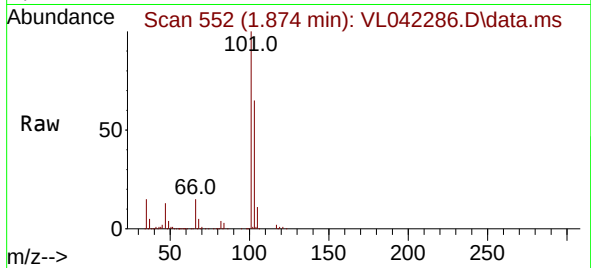
Tgt Ion: 43 Resp: 280156
Ion Ratio Lower Upper
43 100
57 48.8 39.4 59.2





#11
Trichlorofluoromethane
Concen: 9.783 ppbv
RT: 1.874 min Scan# 552
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

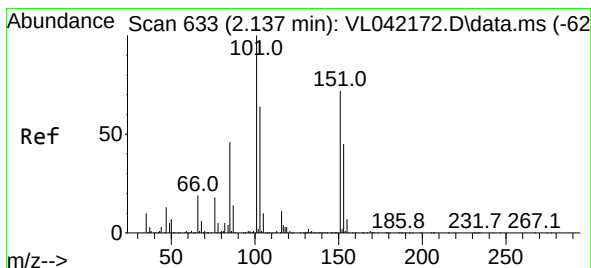
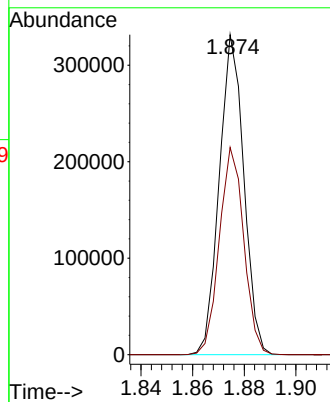
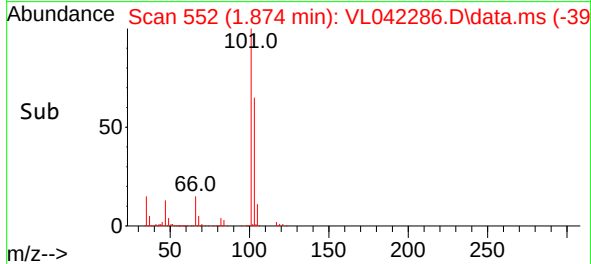
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



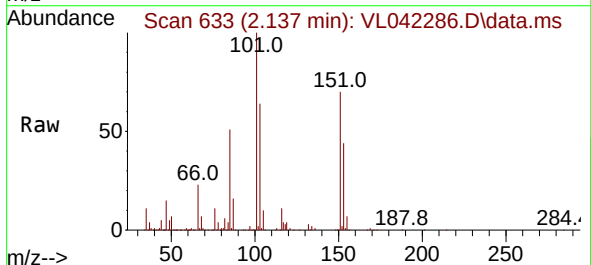
Tgt Ion:101 Resp: 218729
Ion Ratio Lower Upper
101 100
103 64.8 50.2 75.2

Manual Integrations
APPROVED

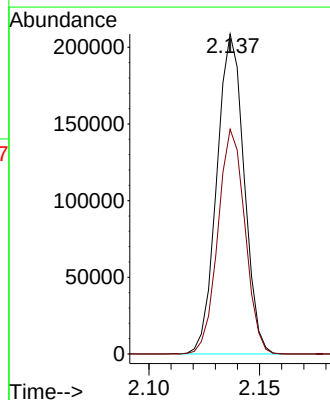
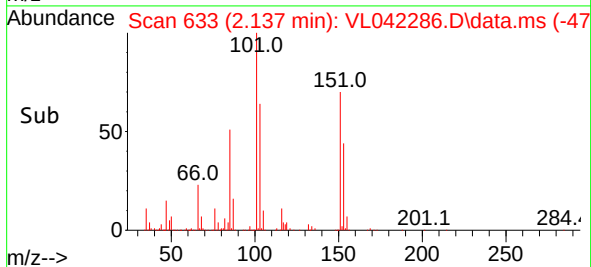
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

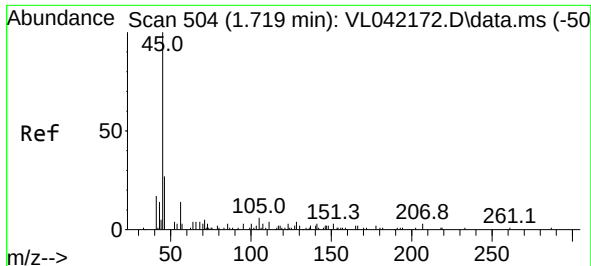


#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.726 ppbv
RT: 2.137 min Scan# 633
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20



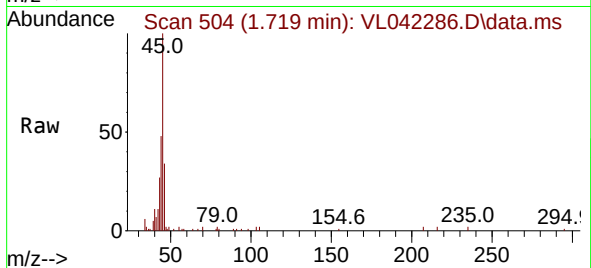
Tgt Ion:101 Resp: 178752
Ion Ratio Lower Upper
101 100
151 69.7 57.1 85.7





#13
Ethanol
Concen: 4.530 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

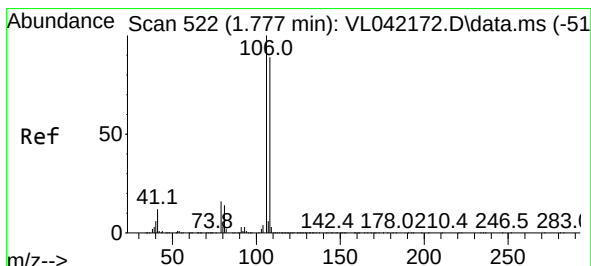
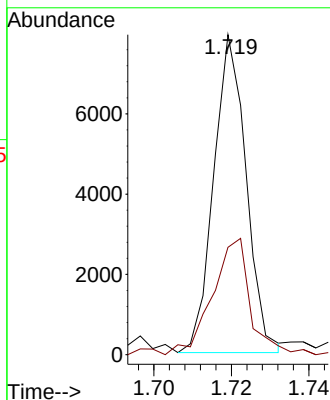
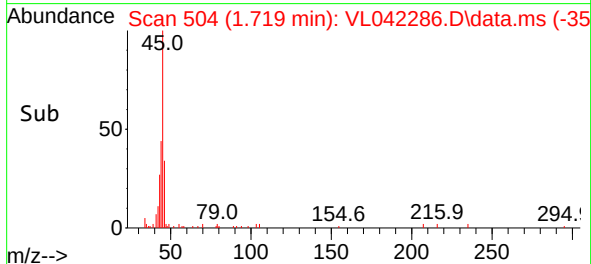
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



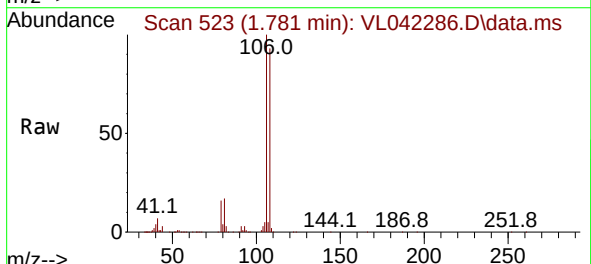
Tgt Ion: 45 Resp: 4608
Ion Ratio Lower Upper
45 100
46 44.9 20.2 80.8

Manual Integrations
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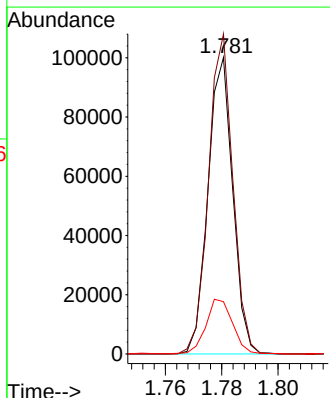
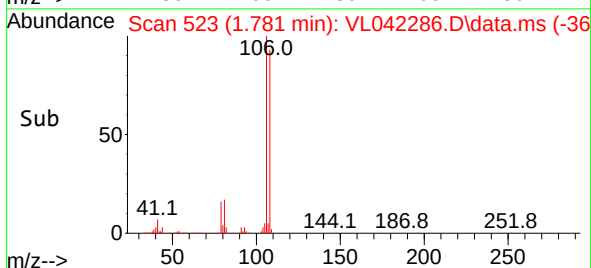
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

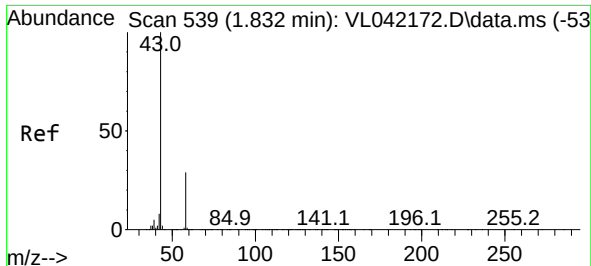


#14
Bromoethene
Concen: 8.693 ppbv
RT: 1.781 min Scan# 523
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20



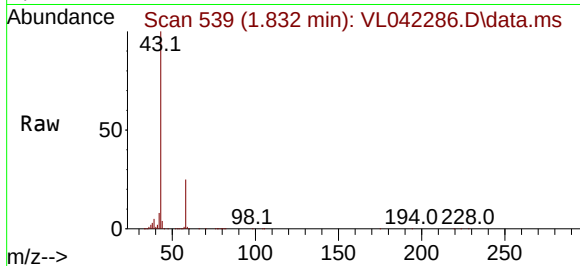
Tgt Ion:108 Resp: 61204
Ion Ratio Lower Upper
108 100
106 105.7 86.8 130.2
79 20.3 15.0 22.6





#15
Acetone
Concen: 9.008 ppbv
RT: 1.832 min Scan# 51
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

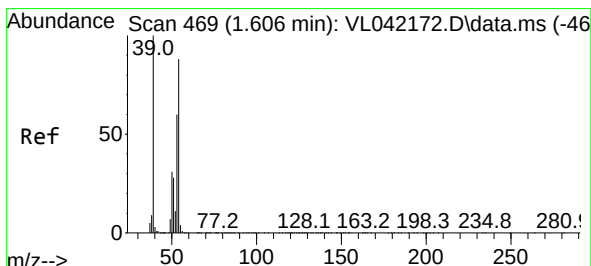
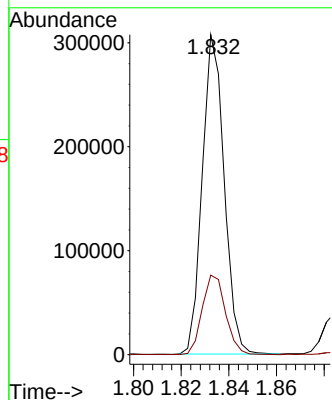
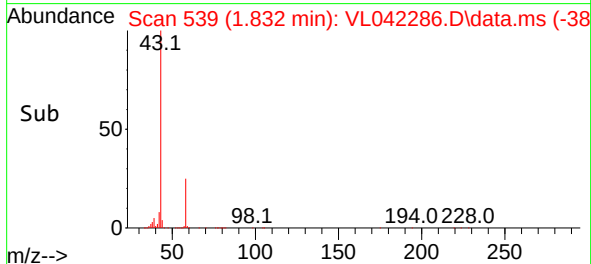
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



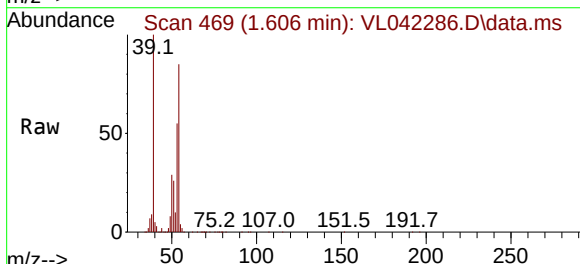
Tgt Ion: 43 Resp: 19606
Ion Ratio Lower Upper
43 100
58 26.8 23.2 34.8

Manual Integrations
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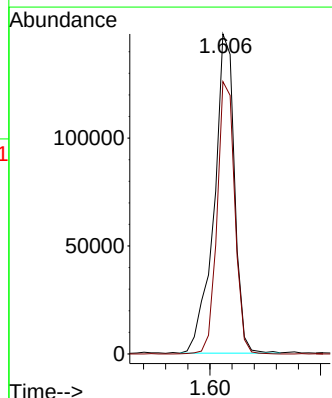
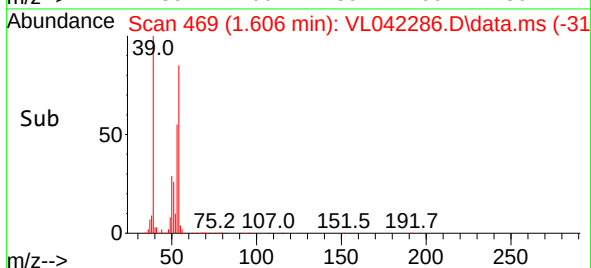
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

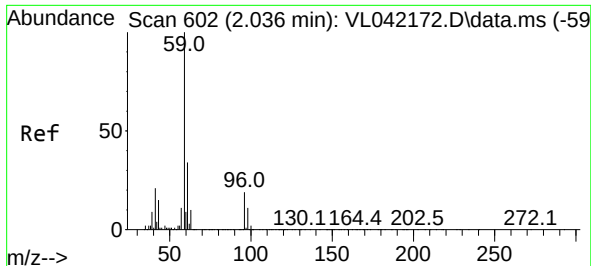


#16
1,3-Butadiene
Concen: 8.931 ppbv
RT: 1.606 min Scan# 469
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20



Tgt Ion: 39 Resp: 94932
Ion Ratio Lower Upper
39 100
54 73.9 60.7 91.1





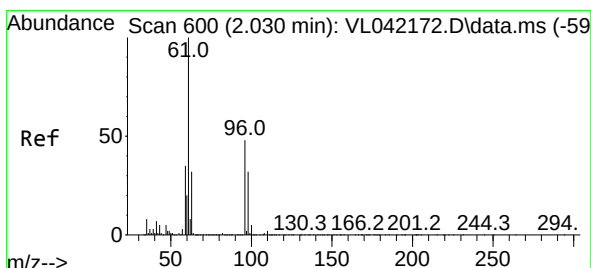
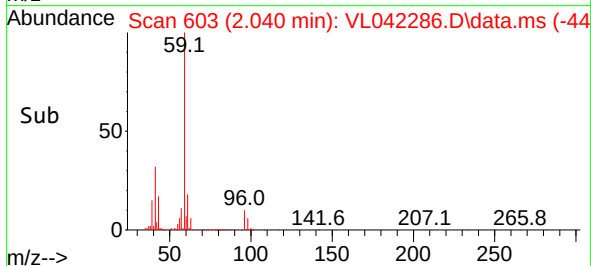
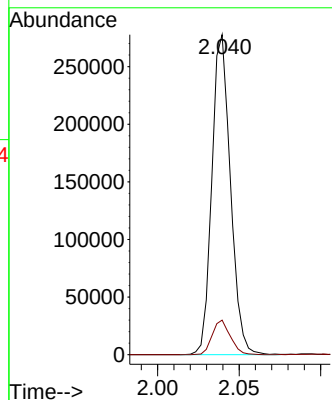
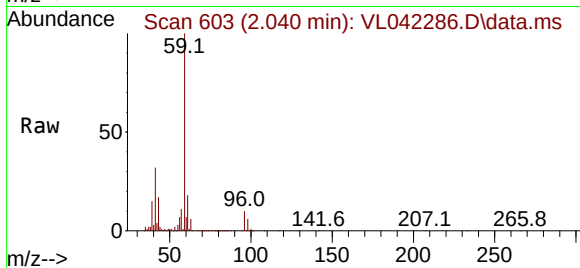
#17
tert-Butyl alcohol
Concen: 8.122 ppbv
RT: 2.040 min Scan# 602
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 59 Resp: 22018
Ion Ratio Lower Upper
59 100
57 10.5 8.9 13.3

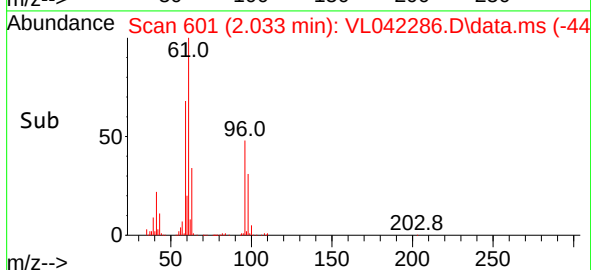
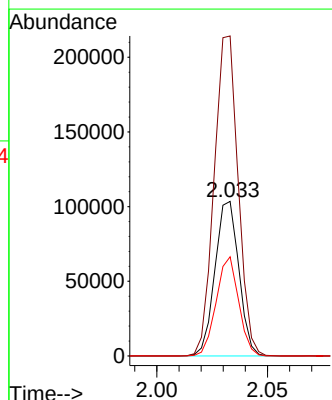
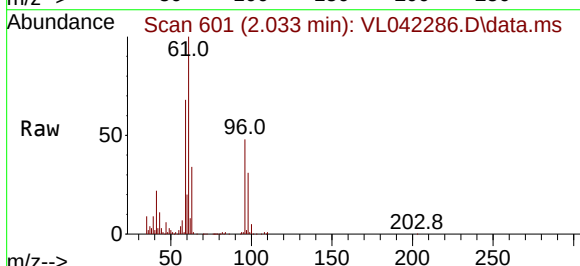
Manual Integrations
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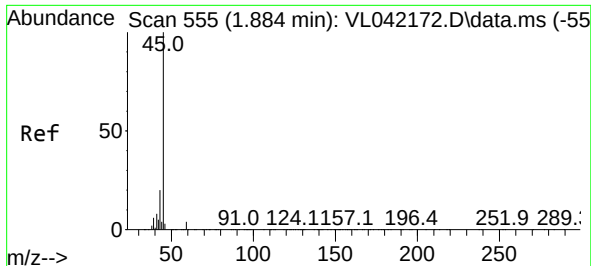
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#18
1,1-Dichloroethene
Concen: 9.042 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 96 Resp: 77686
Ion Ratio Lower Upper
96 100
61 207.1 167.6 251.4
98 64.2 53.5 80.3





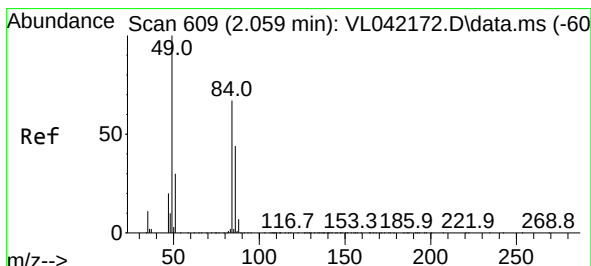
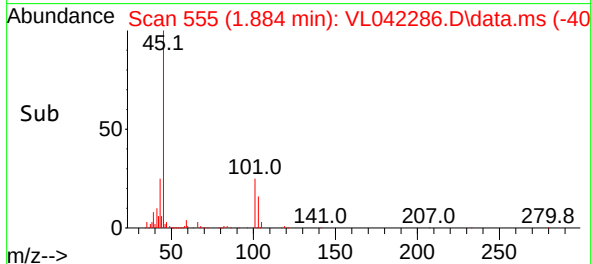
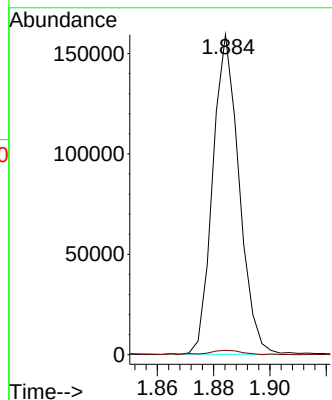
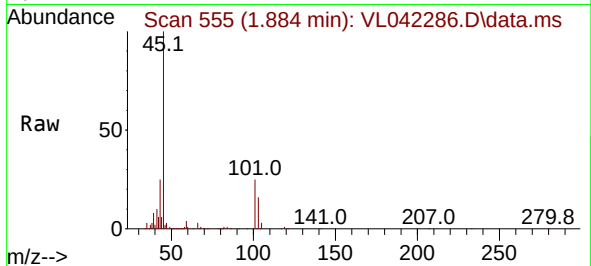
#19
Isopropyl Alcohol
Concen: 8.415 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 45 Resp: 103348
Ion Ratio Lower Upper
45 100
58 50.7 36.9 55.3

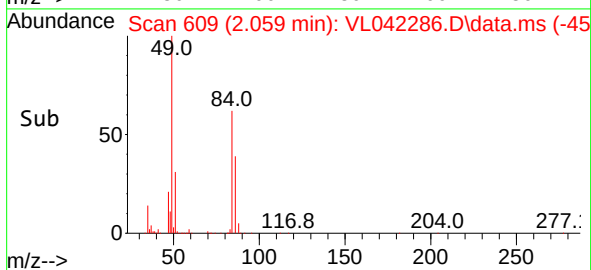
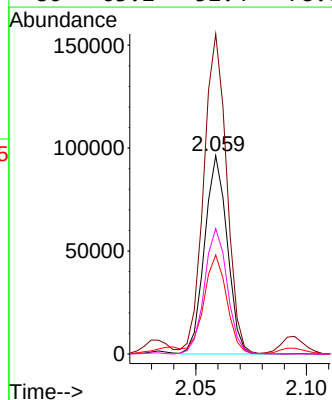
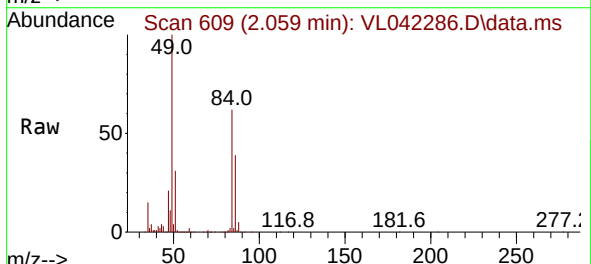
Manual Integrations
APPROVED

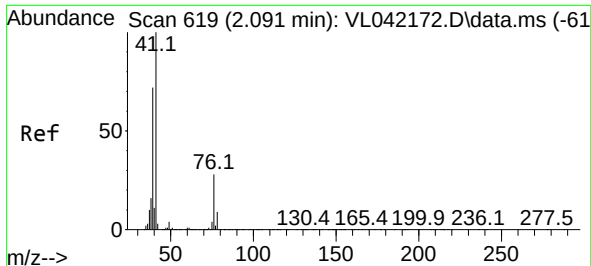
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#20
Methylene Chloride
Concen: 8.461 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 84 Resp: 68588
Ion Ratio Lower Upper
84 100
49 159.3 120.2 180.4
51 48.1 37.4 56.0
86 63.2 52.4 78.6





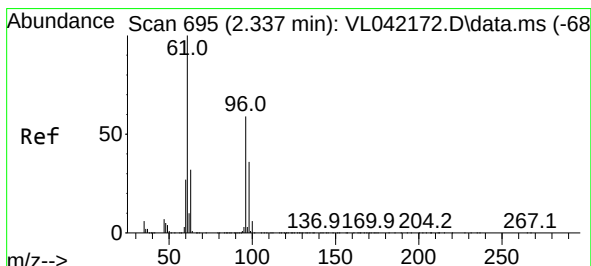
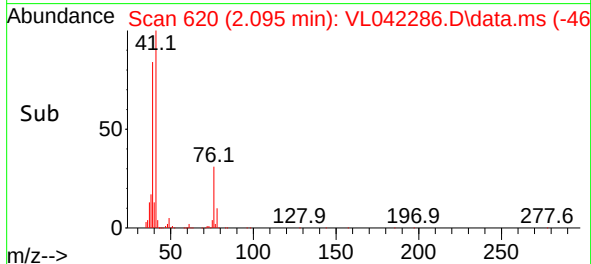
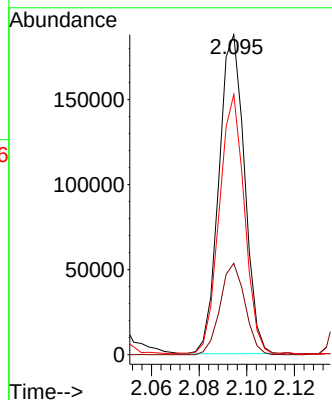
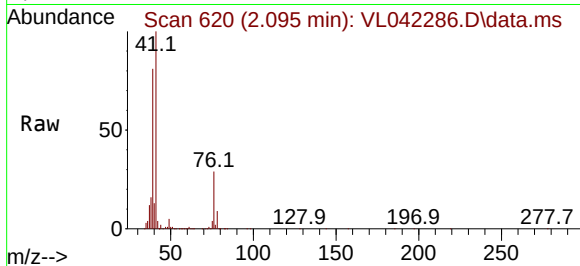
#21
 Allyl Chloride
 Concen: 9.118 ppbv
 RT: 2.095 min Scan# 619
 Delta R.T. 0.003 min
 Lab File: VL042286.D
 Acq: 09 Apr 2025 10:20

Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDCCC010

Tgt Ion: 41 Resp: 13996
 Ion Ratio Lower Upper
 41 100
 76 27.7 24.1 36.1
 39 79.7 61.1 91.7

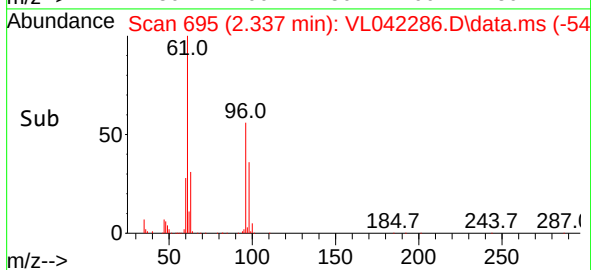
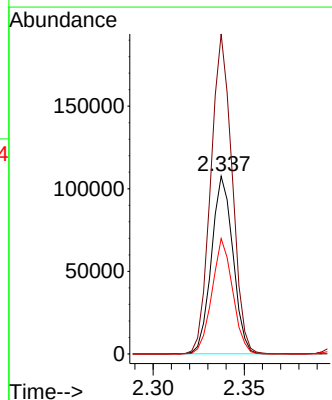
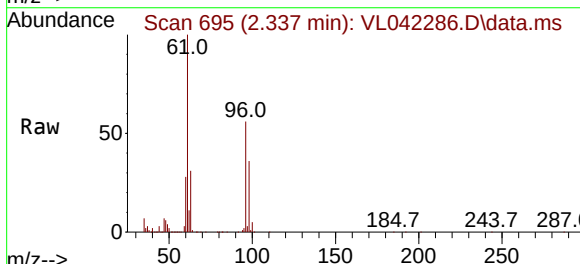
Manual Integrations
 APPROVED

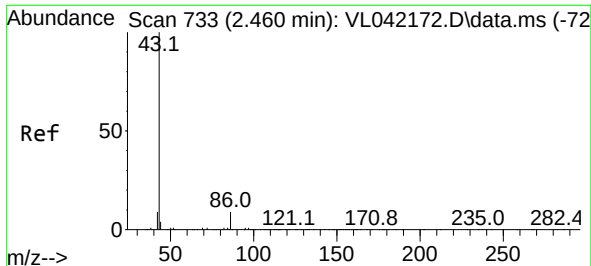
Reviewed By :Semsettin Yesilyurt 04/10/2025
 Supervised By :Mahesh Dadoda 04/10/2025



#22
 trans-1,2-Dichloroethene
 Concen: 8.896 ppbv
 RT: 2.337 min Scan# 695
 Delta R.T. 0.000 min
 Lab File: VL042286.D
 Acq: 09 Apr 2025 10:20

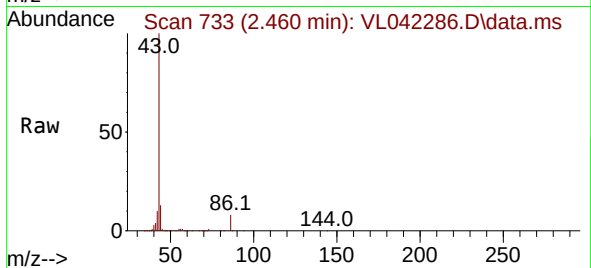
Tgt Ion: 96 Resp: 88334
 Ion Ratio Lower Upper
 96 100
 61 180.1 136.6 204.8
 98 64.9 49.4 74.2





#23
 Vinyl Acetate
 Concen: 7.766 ppbv
 RT: 2.460 min Scan# 716
 Delta R.T. 0.000 min
 Lab File: VL042286.D
 Acq: 09 Apr 2025 10:20

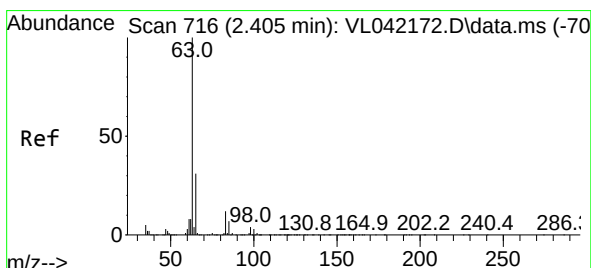
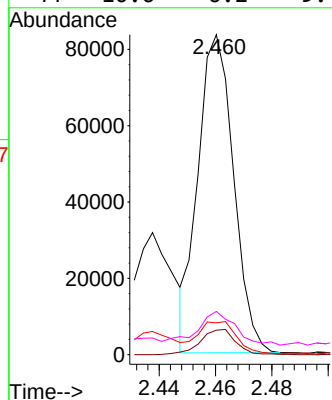
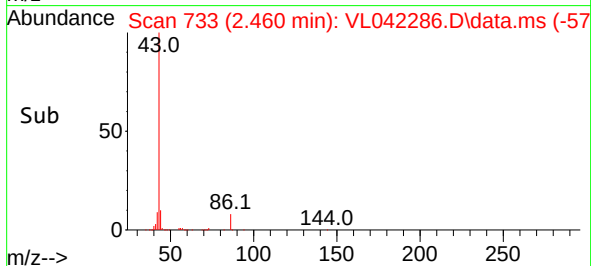
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



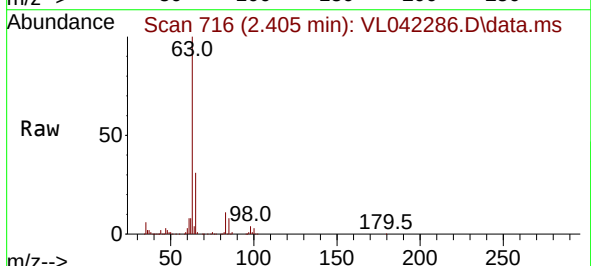
Tgt Ion:	43	Resp:	7316
Ion Ratio	100	Lower	Upper
86	7.6	5.5	8.3
42	9.7	8.6	13.0
44	10.6	6.2	9.4

Manual Integrations
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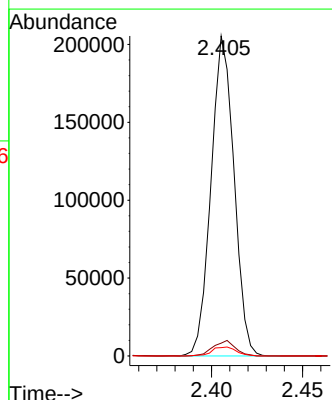
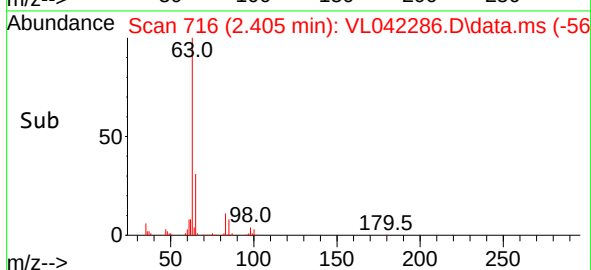
Reviewed By :Semsettin Yesilyurt 04/10/2025
 Supervised By :Mahesh Dadoda 04/10/2025

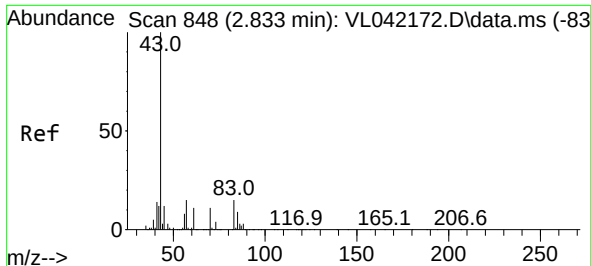


#24
 1,1-Dichloroethane
 Concen: 9.801 ppbv
 RT: 2.405 min Scan# 716
 Delta R.T. 0.000 min
 Lab File: VL042286.D
 Acq: 09 Apr 2025 10:20



Tgt Ion:	63	Resp:	180404
Ion Ratio	100	Lower	Upper
98	4.0	2.3	6.8
100	2.6	1.6	4.7





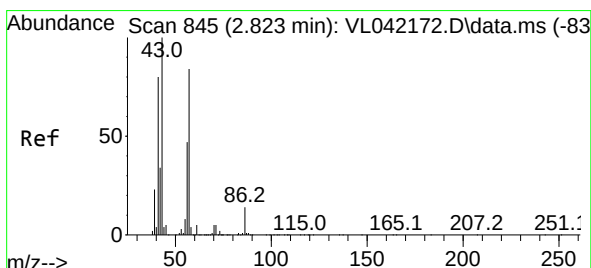
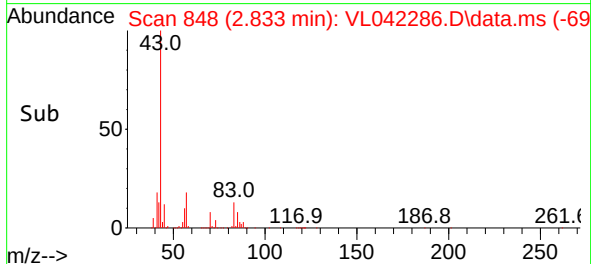
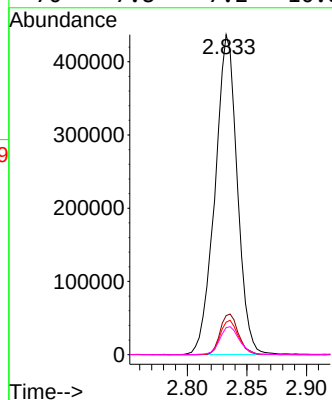
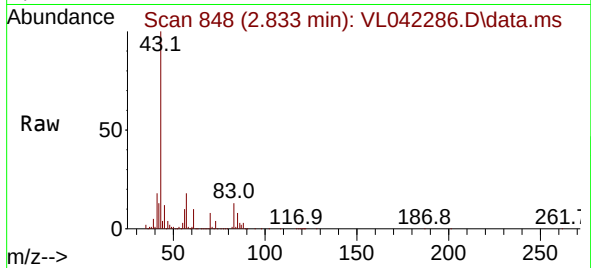
#25
Ethyl Acetate
Concen: 10.039 ppbv
RT: 2.833 min Scan# 848
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 43	Resp: 56712
Ion Ratio	Lower Upper
43 100	
45 10.5	8.2 12.2
61 8.9	7.3 10.9
70 7.8	7.2 10.8

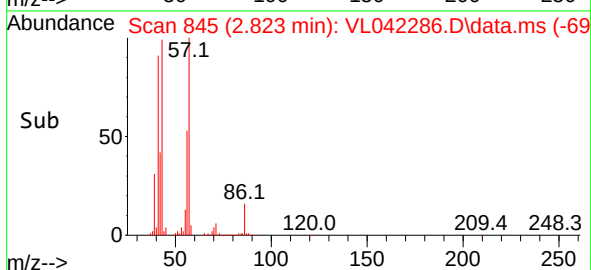
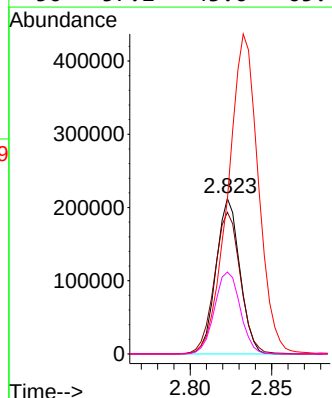
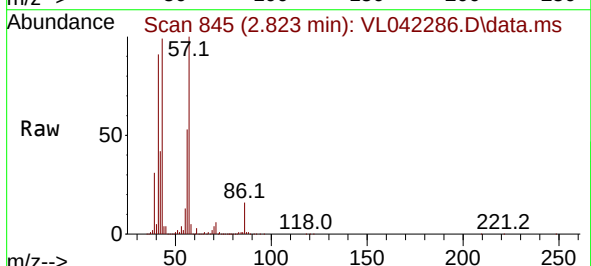
Manual Integrations
APPROVED

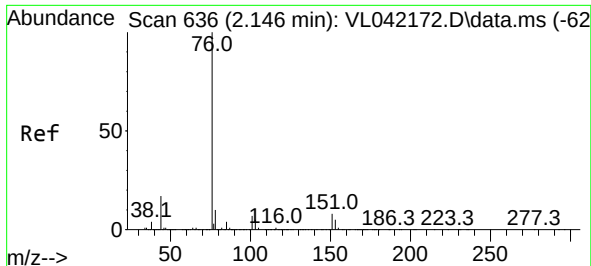
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#26
Hexane
Concen: 9.848 ppbv
RT: 2.823 min Scan# 845
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

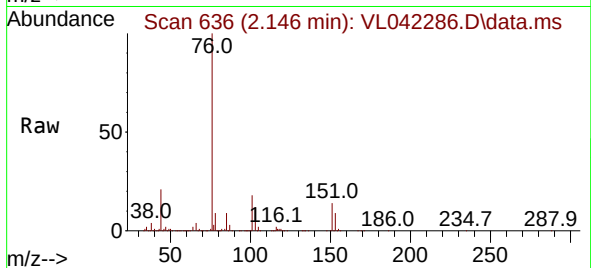
Tgt	Ion: 57	Resp: 214891	
Ion	Ratio	Lower	Upper
57	100		
41	99.1	76.6	114.8
43	264.9	207.8	311.8
56	57.2	43.6	65.4





#27
Carbon Disulfide
Concen: 9.253 ppbv
RT: 2.146 min Scan# 61
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

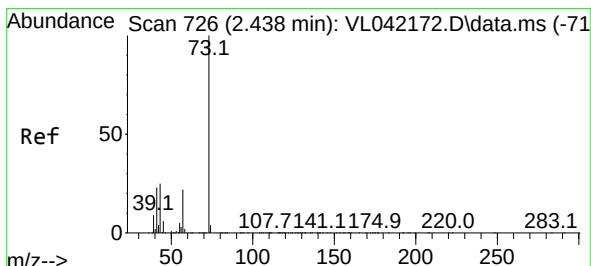
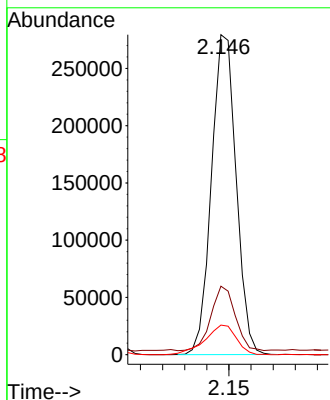
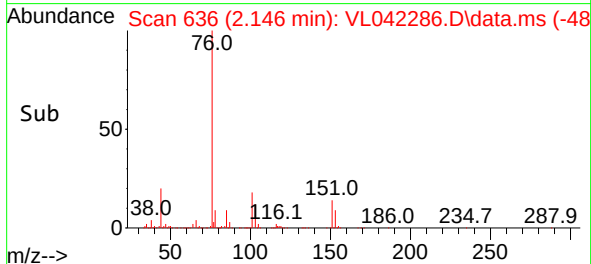
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010



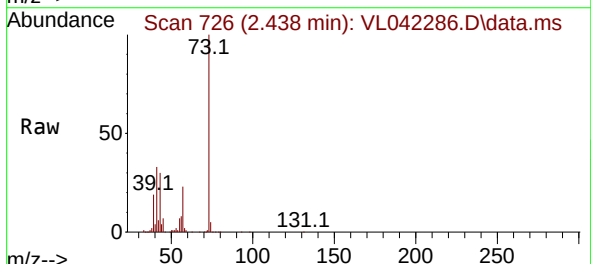
Tgt Ion: 76 Resp: 216499
Ion Ratio Lower Upper
76 100
44 20.6 14.7 22.1
78 11.8 9.3 13.9

Manual Integrations
APPROVED

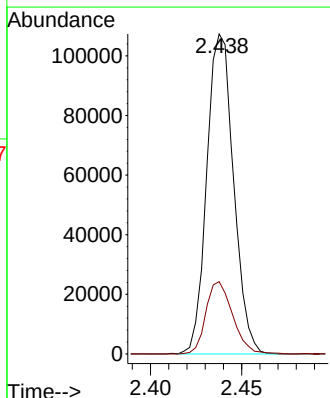
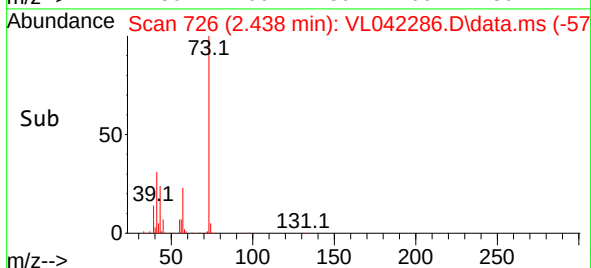
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

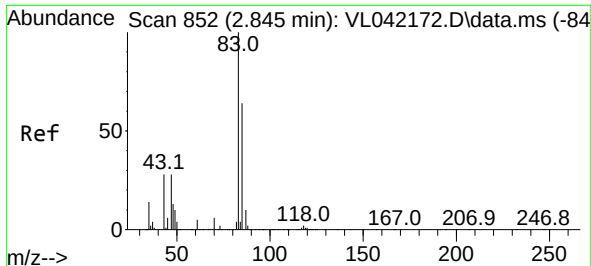


#28
Methyl tert-Butyl Ether
Concen: 8.077 ppbv
RT: 2.438 min Scan# 726
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20



Tgt Ion: 73 Resp: 109726
Ion Ratio Lower Upper
73 100
57 22.6 20.5 30.7





#29

Chloroform

Concen: 10.675 ppbv

RT: 2.845 min Scan# 852

Delta R.T. 0.000 min

Lab File: VL042286.D

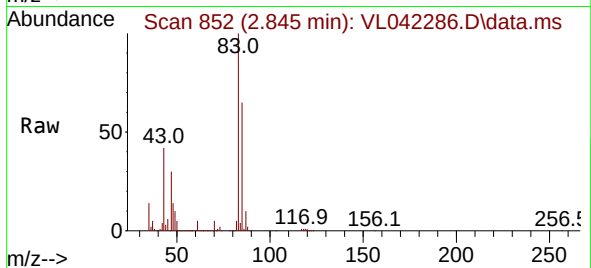
Acq: 09 Apr 2025 10:20

Instrument :

MSVOA_L

ClientSampleId :

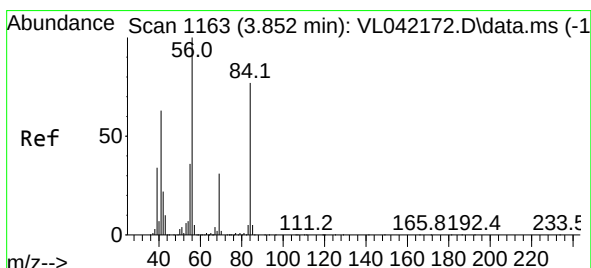
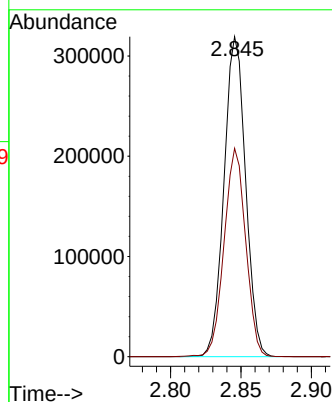
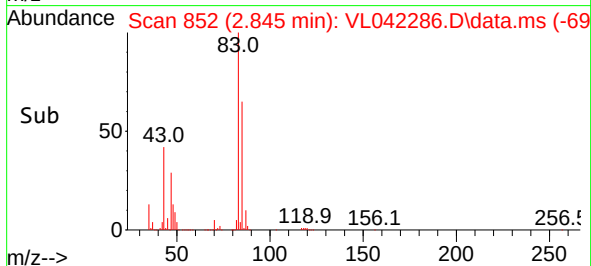
VSTDC010



Tgt Ion: 83 Resp: 340889
Ion Ratio Lower Upper
83 100
85 65.0 51.4 77.2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#30

Cyclohexane

Concen: 8.991 ppbv

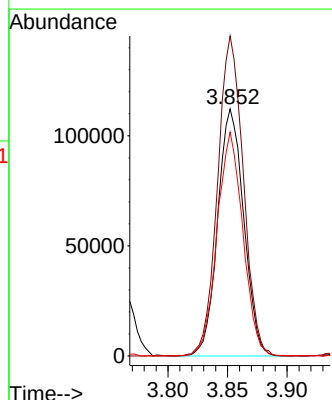
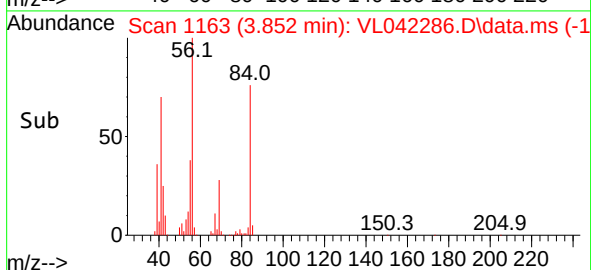
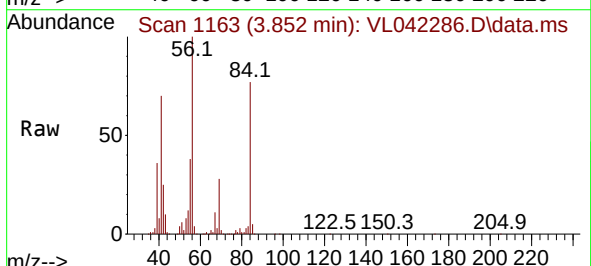
RT: 3.852 min Scan# 1163

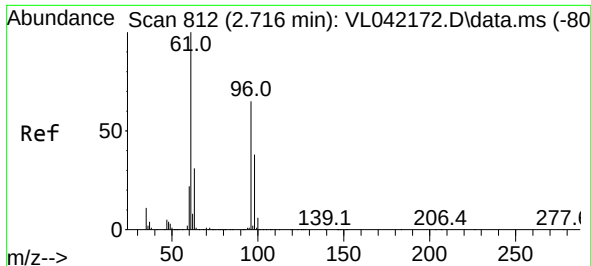
Delta R.T. 0.000 min

Lab File: VL042286.D

Acq: 09 Apr 2025 10:20

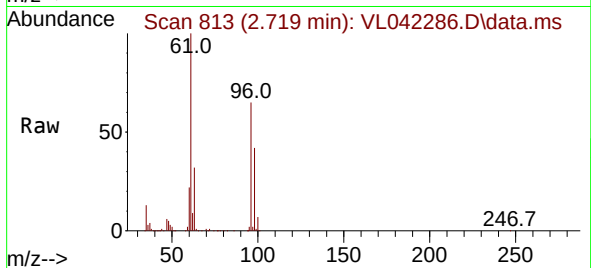
Tgt Ion: 84 Resp: 170359
Ion Ratio Lower Upper
84 100
56 127.8 102.8 154.2
41 90.1 66.5 99.7





#31
 cis-1,2-Dichloroethene
 Concen: 9.110 ppbv
 RT: 2.719 min Scan# 812
 Delta R.T. 0.003 min
 Lab File: VL042286.D
 Acq: 09 Apr 2025 10:20

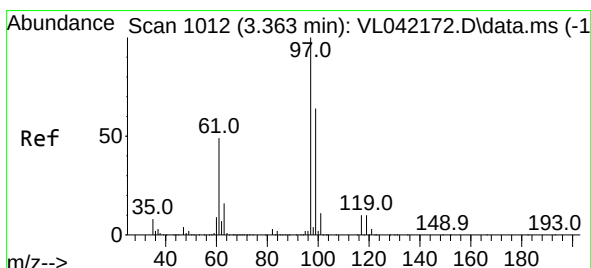
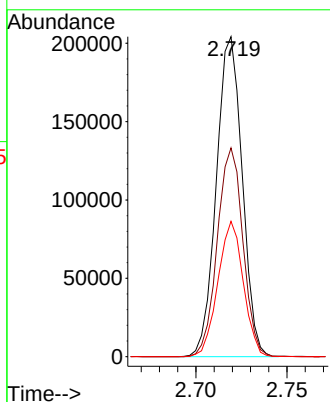
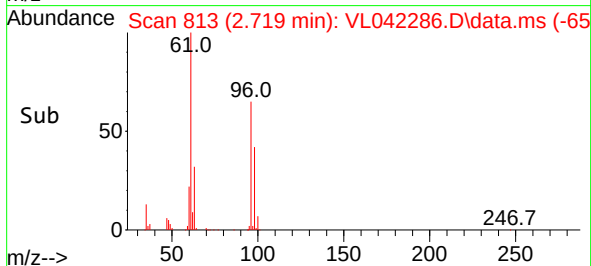
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



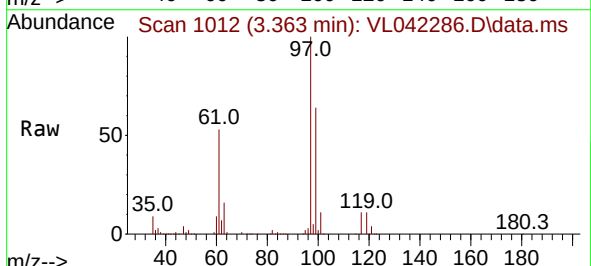
Tgt Ion: 61 Resp: 201790
 Ion Ratio Lower Upper
 61 100
 96 65.3 51.8 77.8
 98 42.3 30.6 46.0

Manual Integrations
 APPROVED

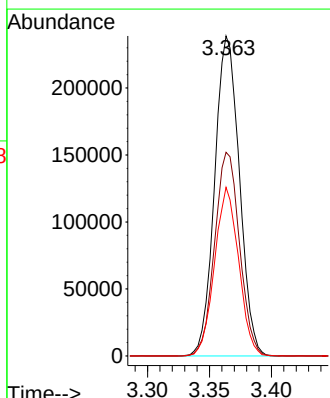
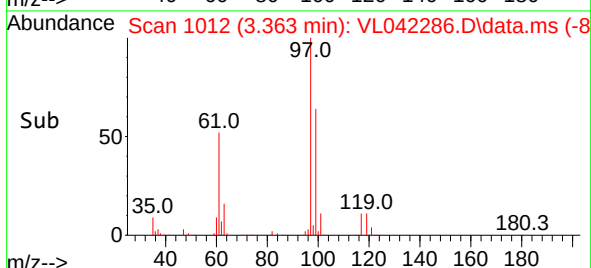
Reviewed By :Semsettin Yesilyurt 04/10/2025
 Supervised By :Mahesh Dadoda 04/10/2025

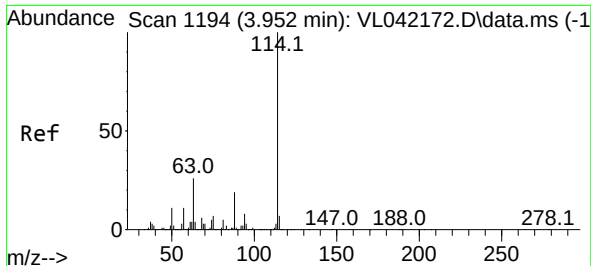


#32
 1,1,1-Trichloroethane
 Concen: 9.088 ppbv
 RT: 3.363 min Scan# 1012
 Delta R.T. 0.000 min
 Lab File: VL042286.D
 Acq: 09 Apr 2025 10:20



Tgt Ion: 97 Resp: 332252
 Ion Ratio Lower Upper
 97 100
 99 64.1 51.5 77.3
 61 51.3 38.7 58.1





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.956 min Scan# 1195

Delta R.T. 0.003 min

Lab File: VL042286.D

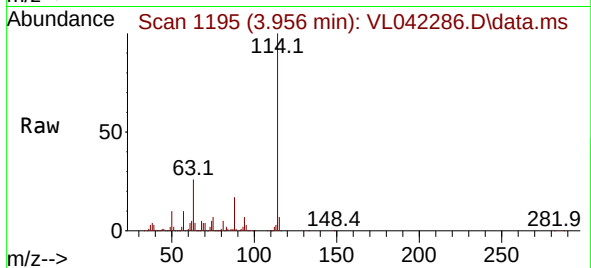
Acq: 09 Apr 2025 10:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010



Tgt Ion:114 Resp: 397170

Ion Ratio Lower Upper

114 100

63 25.6 20.7 31.1

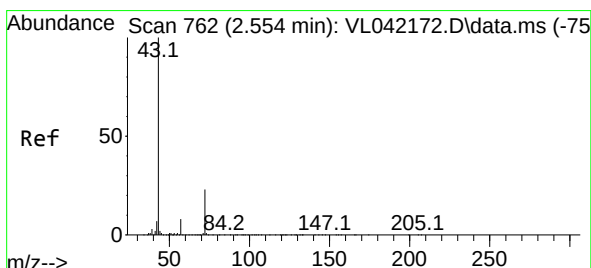
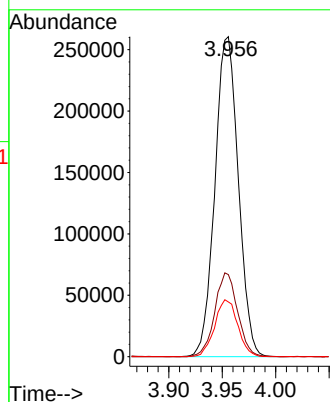
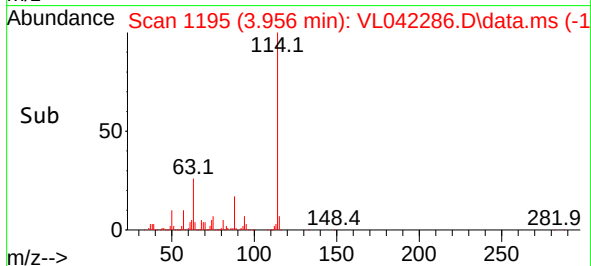
88 17.6 15.0 22.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#34

2-Butanone

Concen: 10.886 ppbv

RT: 2.554 min Scan# 762

Delta R.T. 0.000 min

Lab File: VL042286.D

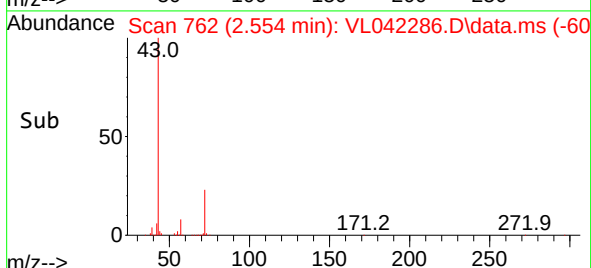
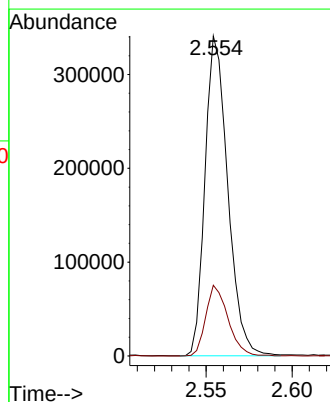
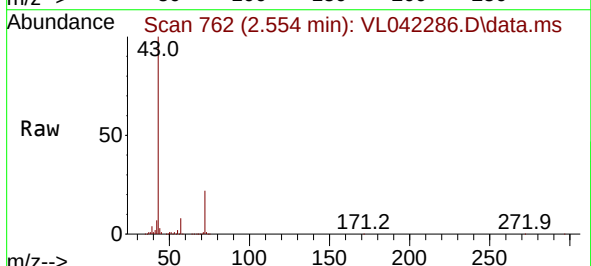
Acq: 09 Apr 2025 10:20

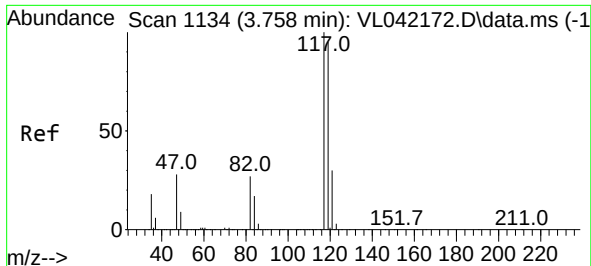
Tgt Ion: 43 Resp: 313515

Ion Ratio Lower Upper

43 100

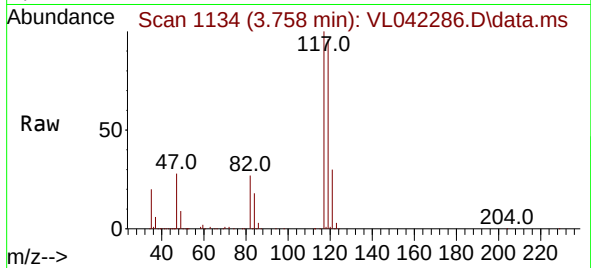
72 21.7 18.2 27.2





#35
Carbon Tetrachloride
Concen: 11.256 ppbv
RT: 3.758 min Scan# 1134
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

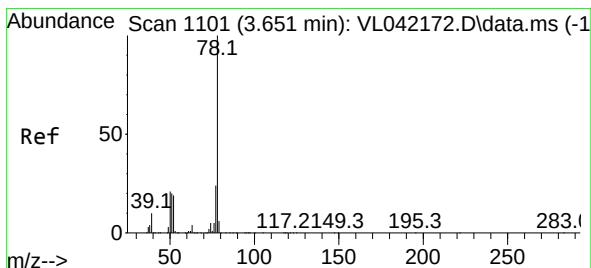
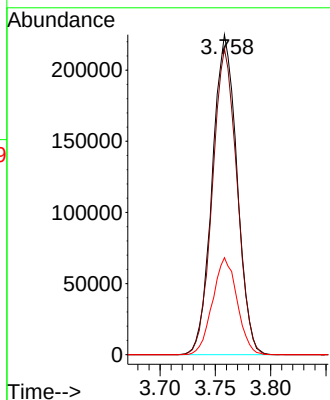
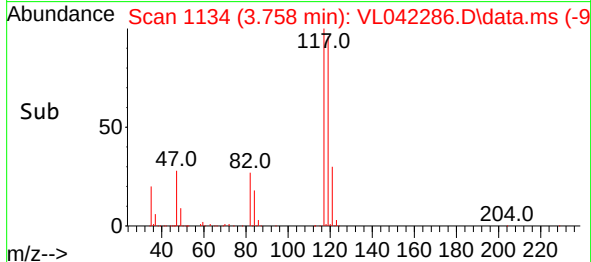
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



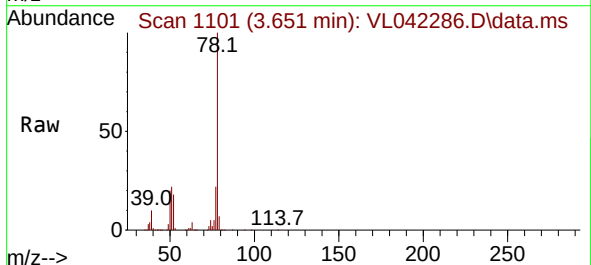
Tgt Ion:117 Resp: 349240
Ion Ratio Lower Upper
117 100
119 95.6 76.2 114.2
121 30.3 24.2 36.4

Manual Integrations
APPROVED

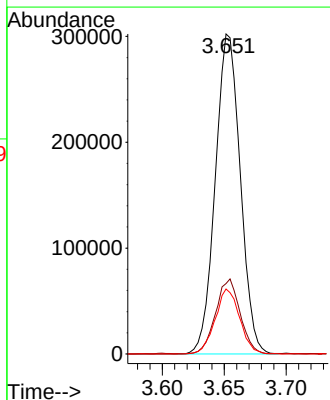
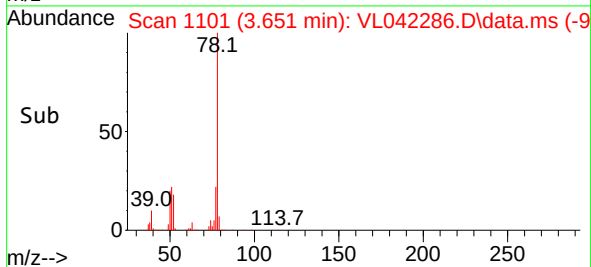
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

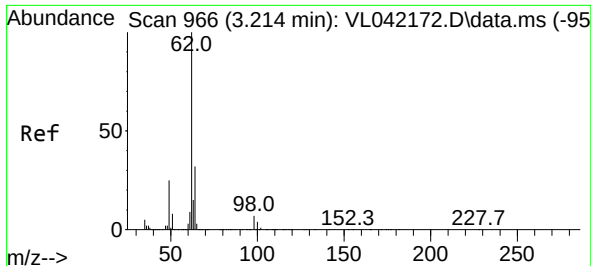


#36
Benzene
Concen: 10.802 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20



Tgt Ion: 78 Resp: 425324
Ion Ratio Lower Upper
78 100
77 21.9 19.1 28.7
50 20.3 16.6 24.8





#37

1,2-Dichloroethane

Concen: 11.391 ppbv

RT: 3.214 min Scan# 9

Delta R.T. 0.000 min

Lab File: VL042286.D

Acq: 09 Apr 2025 10:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 62 Resp: 25679

Ion Ratio Lower Upper

62 100

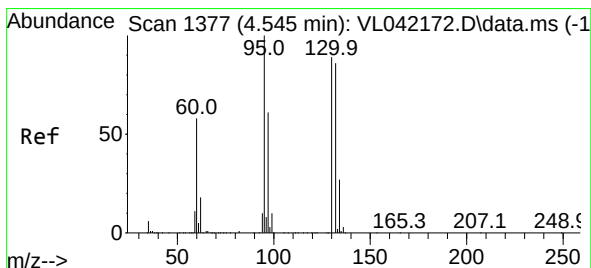
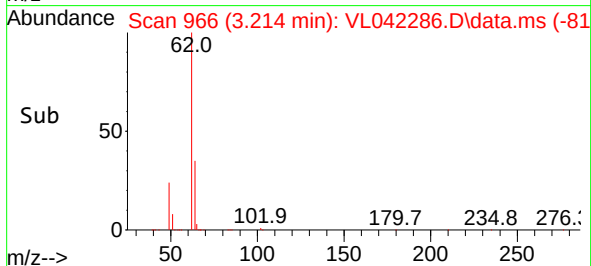
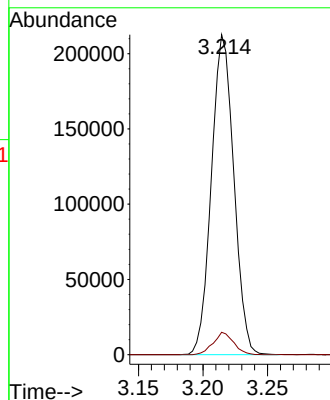
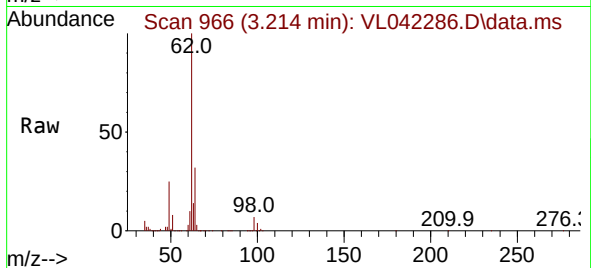
98 6.3 5.4 8.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#38

Trichloroethene

Concen: 10.370 ppbv

RT: 4.541 min Scan# 1376

Delta R.T. -0.003 min

Lab File: VL042286.D

Acq: 09 Apr 2025 10:20

Tgt Ion:130 Resp: 170362

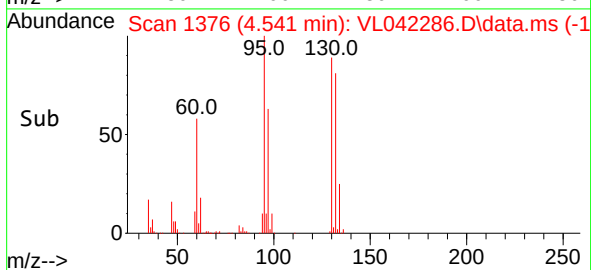
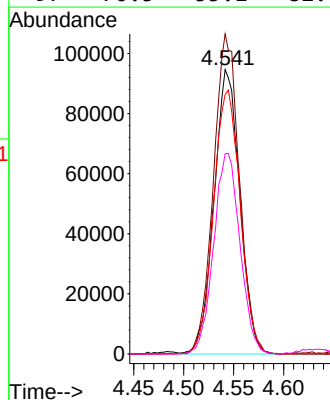
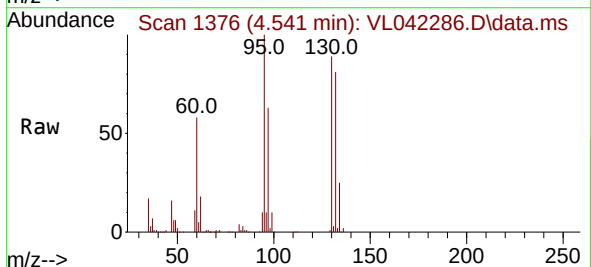
Ion Ratio Lower Upper

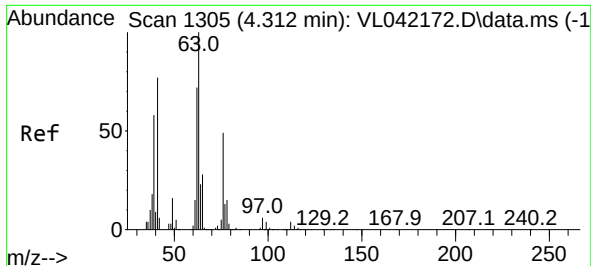
130 100

95 112.5 89.8 134.8

132 91.3 77.4 116.2

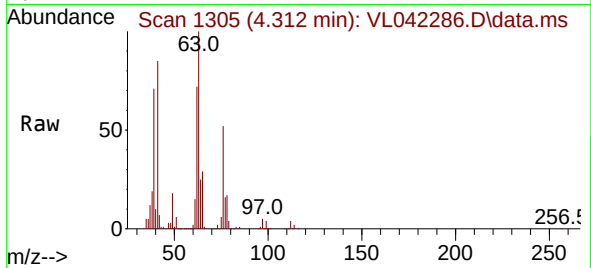
97 70.5 55.1 82.7





#39
1,2-Dichloropropane
Concen: 10.710 ppbv
RT: 4.312 min Scan# 11
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

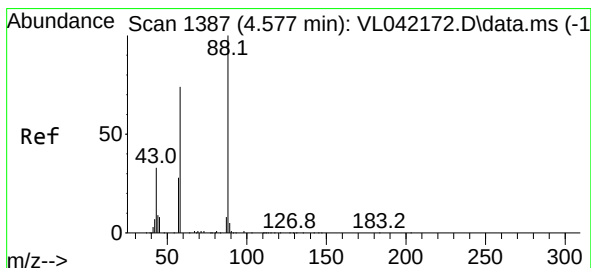
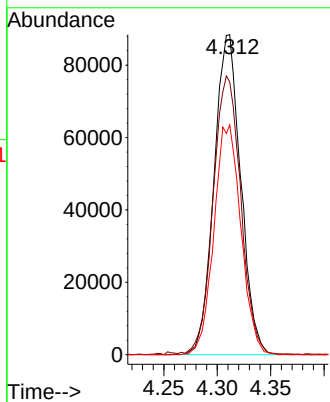
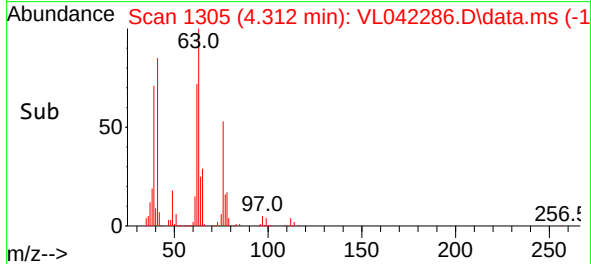
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



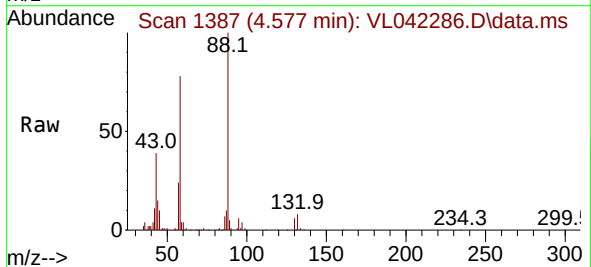
Tgt Ion: 63 Resp: 15358
Ion Ratio Lower Upper
63 100
41 85.0 61.7 92.5
62 71.8 57.6 86.4

Manual Integrations
APPROVED

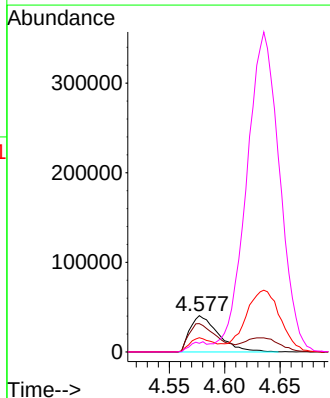
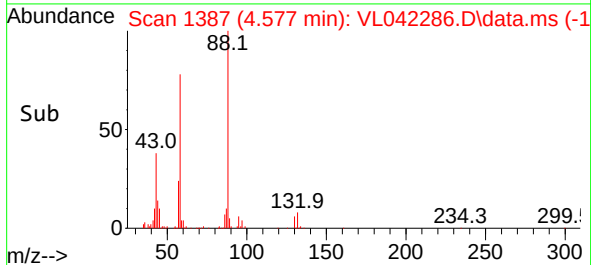
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

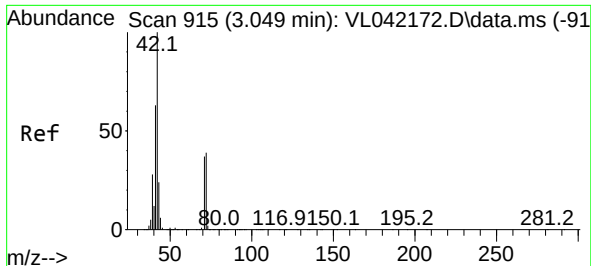


#40
1,4-Dioxane
Concen: 9.539 ppbv
RT: 4.577 min Scan# 1387
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20



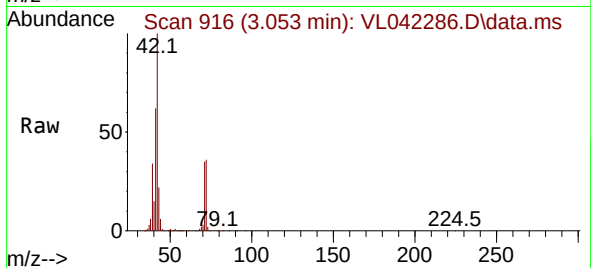
Tgt Ion: 88 Resp: 72604
Ion Ratio Lower Upper
88 100
58 75.1 62.7 94.1
43 33.8 23.0 34.4
57 0.0 0.0 0.0





#41
Tetrahydrofuran
Concen: 10.556 ppbv
RT: 3.053 min Scan# 915
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

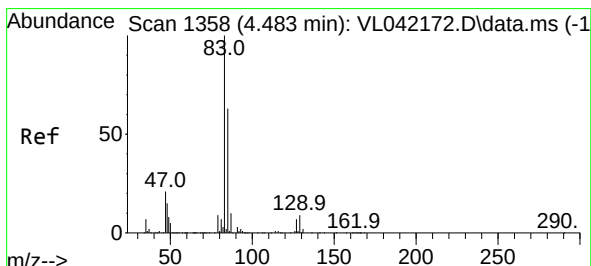
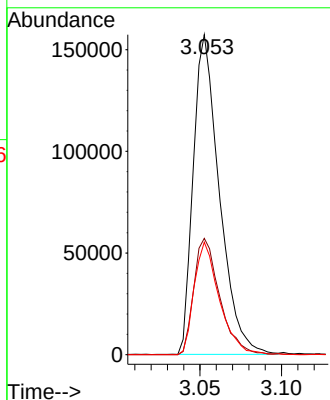
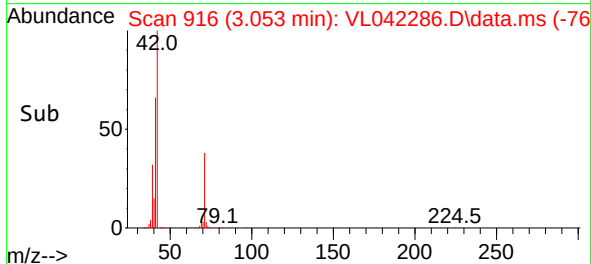
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



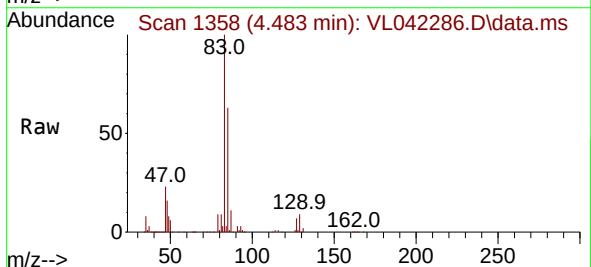
Tgt Ion: 42 Resp: 175060
Ion Ratio Lower Upper
42 100
72 36.2 31.4 47.0
71 34.2 30.2 45.4

Manual Integrations
APPROVED

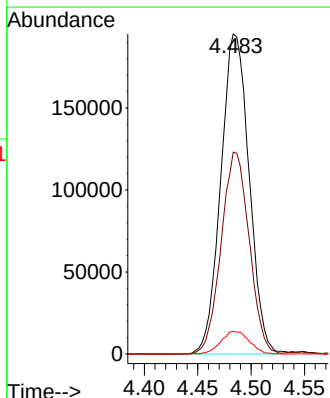
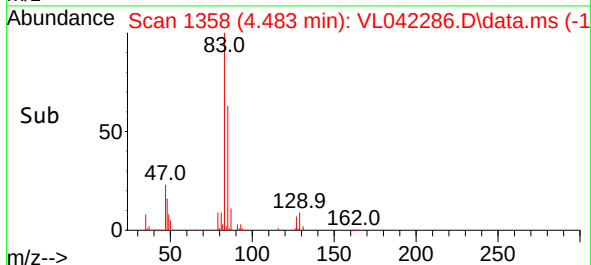
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

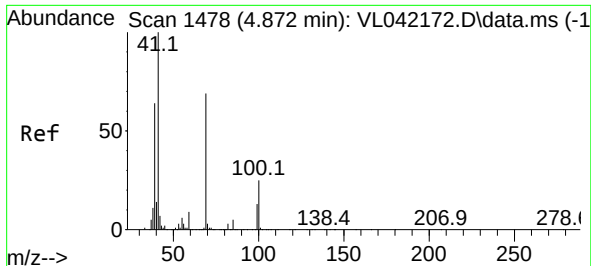


#42
Bromodichloromethane
Concen: 11.551 ppbv
RT: 4.483 min Scan# 1358
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20



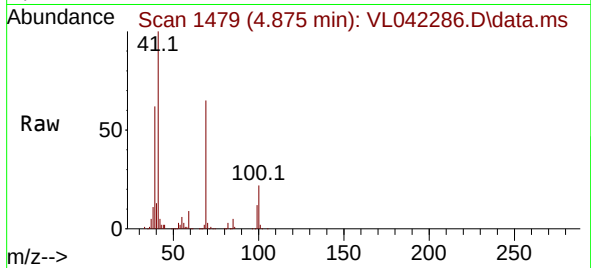
Tgt Ion: 83 Resp: 358962
Ion Ratio Lower Upper
83 100
85 63.1 50.5 75.7
127 7.1 5.9 8.9





#43
Methyl Methacrylate
Concen: 9.297 ppbv
RT: 4.875 min Scan# 1478
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

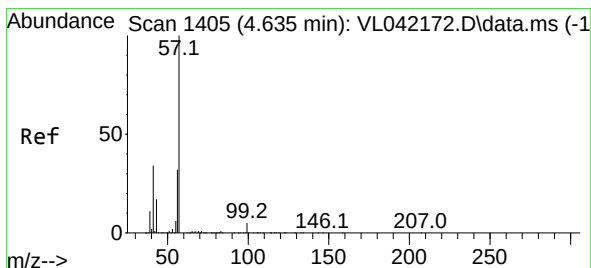
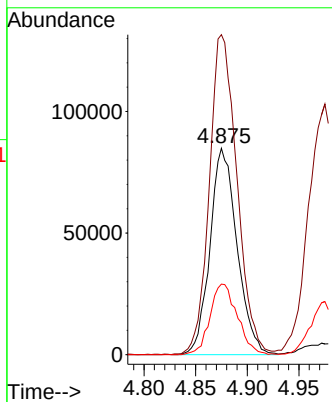
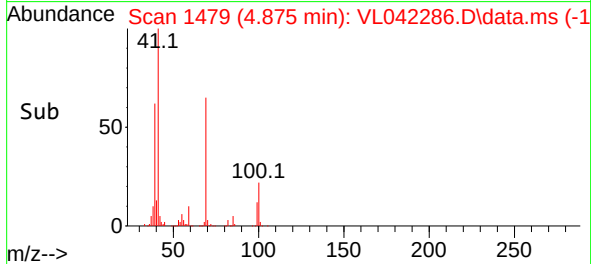
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



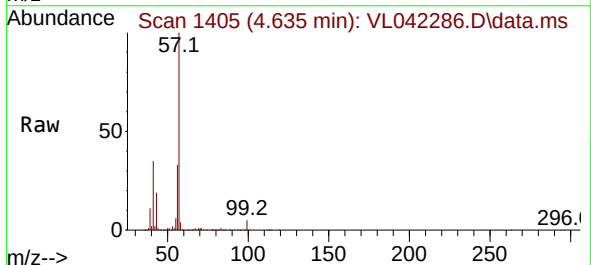
Tgt Ion: 69 Resp: 15497
Ion Ratio Lower Upper
69 100
41 158.4 123.8 185.6
100 34.5 28.4 42.6

Manual Integrations
APPROVED

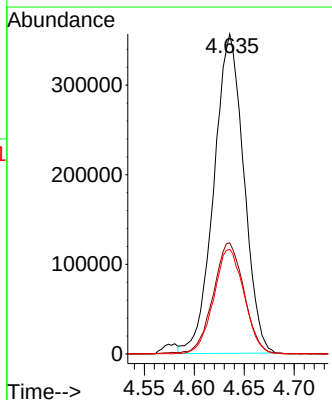
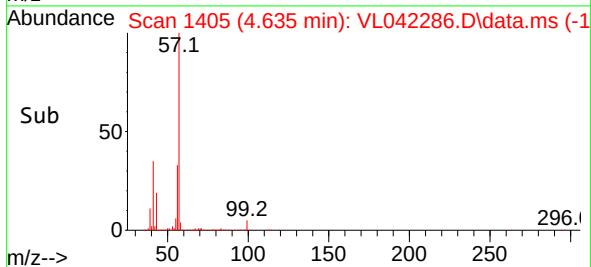
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

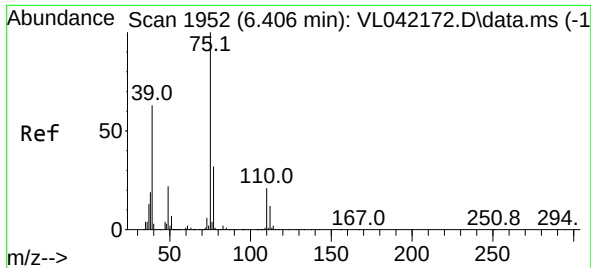


#44
2,2,4-Trimethylpentane
Concen: 11.157 ppbv
RT: 4.635 min Scan# 1405
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20



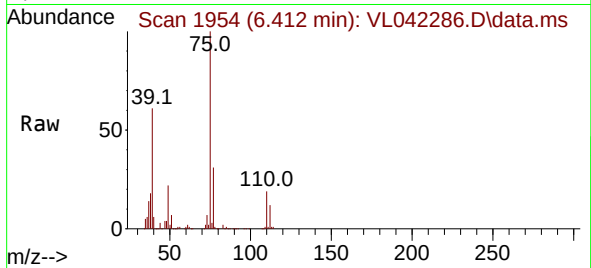
Tgt Ion: 57 Resp: 742388
Ion Ratio Lower Upper
57 100
41 36.2 26.8 40.2
56 33.5 25.6 38.4





#45
t-1,3-Dichloropropene
Concen: 8.231 ppbv
RT: 6.412 min Scan# 1954
Delta R.T. 0.006 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

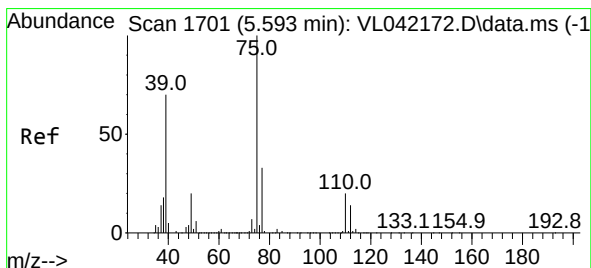
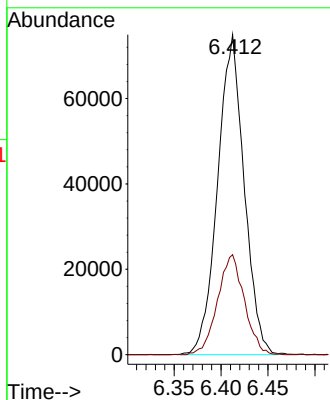
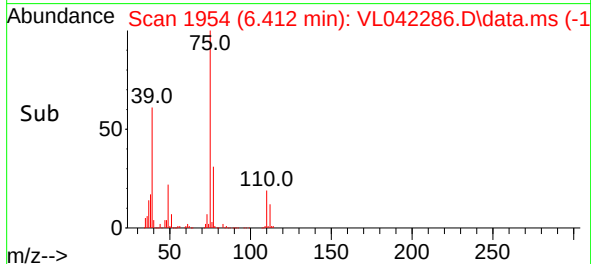
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion: 75 Resp: 147204
Ion Ratio Lower Upper
75 100
77 31.2 26.0 39.0

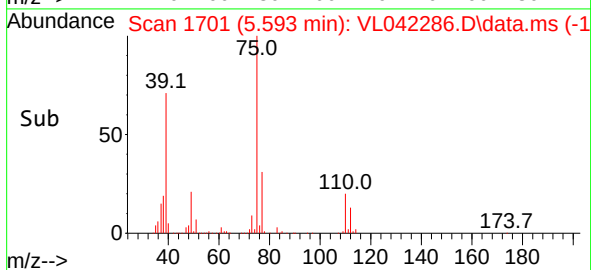
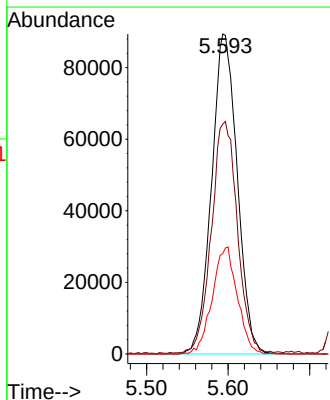
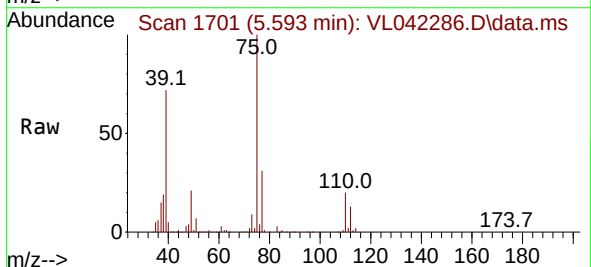
Manual Integrations
APPROVED

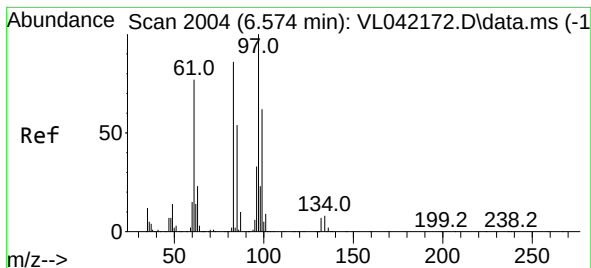
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#46
cis-1,3-Dichloropropene
Concen: 8.932 ppbv
RT: 5.593 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 75 Resp: 195802
Ion Ratio Lower Upper
75 100
39 71.5 55.8 83.6
77 31.4 26.0 39.0





#47

1,1,2-Trichloroethane

Concen: 11.369 ppbv

RT: 6.574 min Scan# 2004

Delta R.T. 0.000 min

Lab File: VL042286.D

Acq: 09 Apr 2025 10:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 97 Resp: 17234

Ion Ratio Lower Upper

97 100

83 82.8 69.2 103.8

85 52.5 43.1 64.7

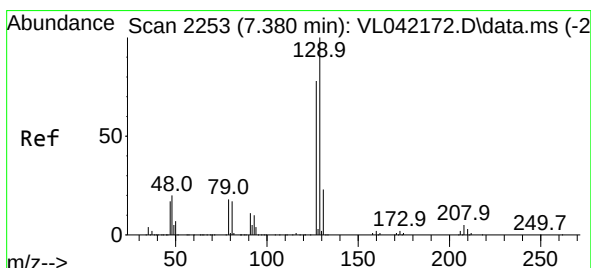
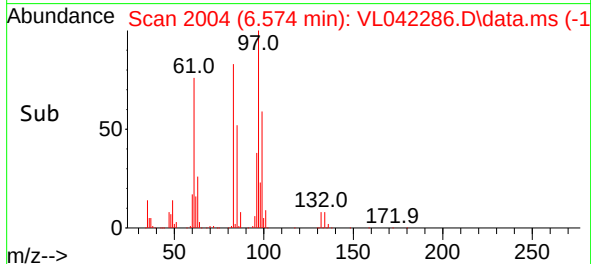
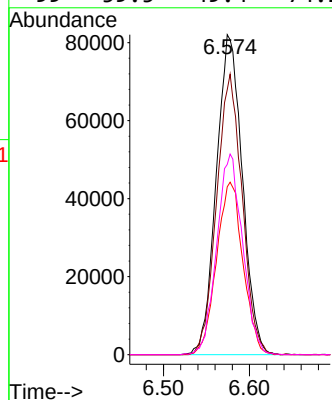
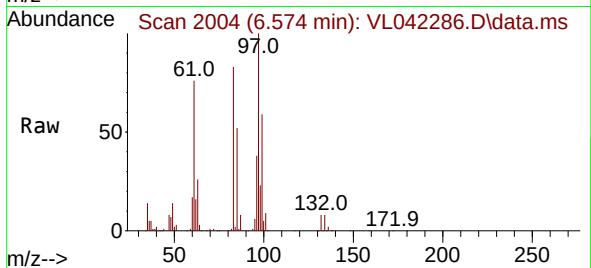
99 59.5 49.4 74.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#48

Dibromochloromethane

Concen: 10.907 ppbv

RT: 7.380 min Scan# 2253

Delta R.T. 0.000 min

Lab File: VL042286.D

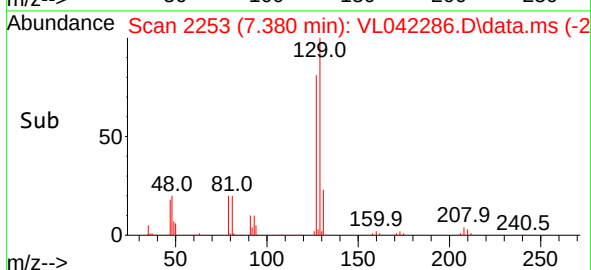
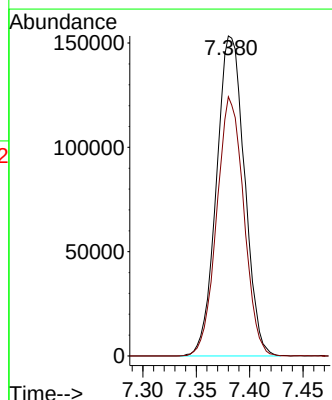
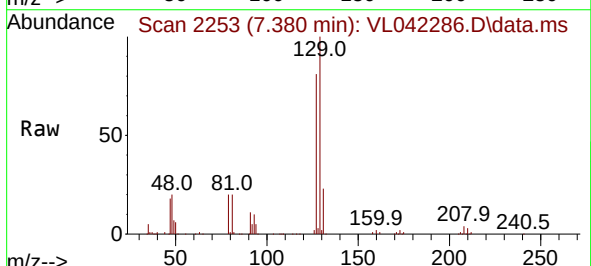
Acq: 09 Apr 2025 10:20

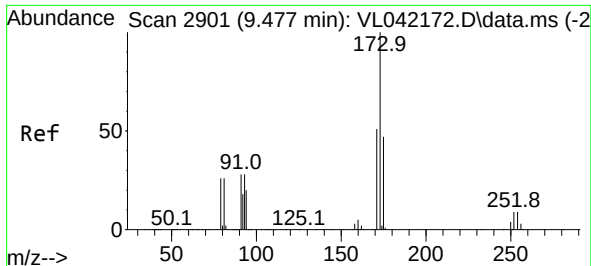
Tgt Ion:129 Resp: 280199

Ion Ratio Lower Upper

129 100

127 78.2 39.1 117.2





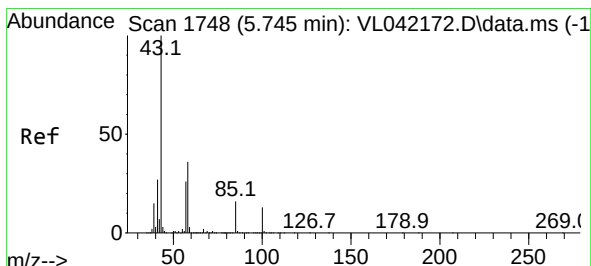
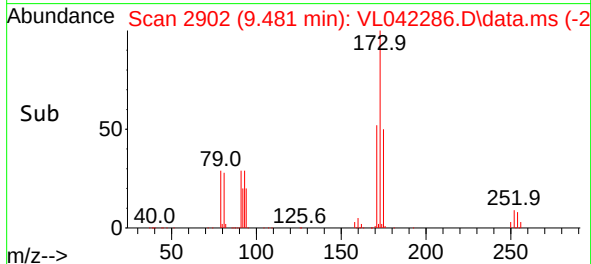
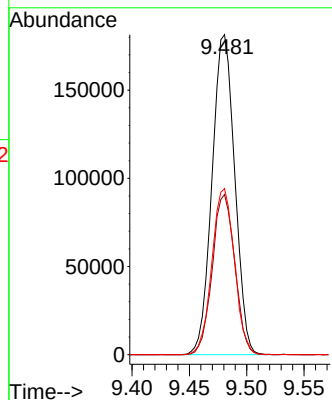
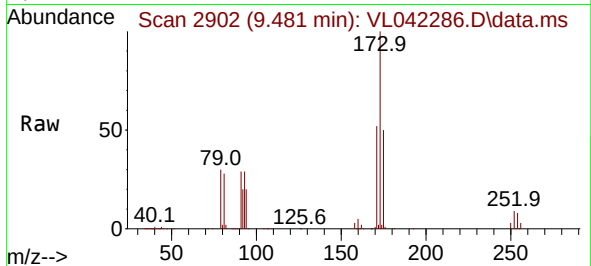
#49
Bromoform
Concen: 10.849 ppbv
RT: 9.481 min Scan# 2901
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:173 Resp: 250227
Ion Ratio Lower Upper
173 100
175 49.5 38.6 57.8
171 51.5 41.8 62.6

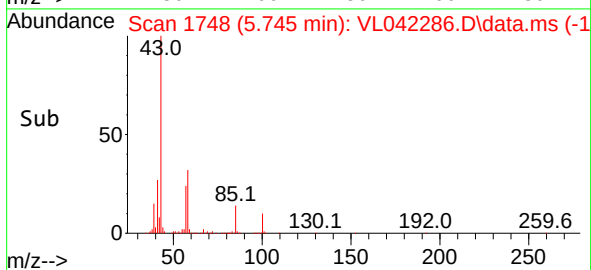
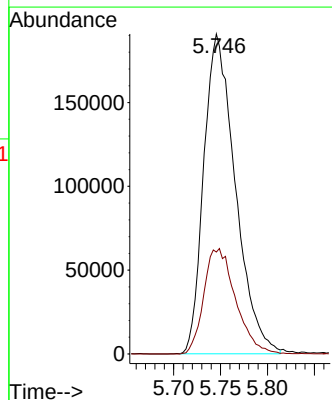
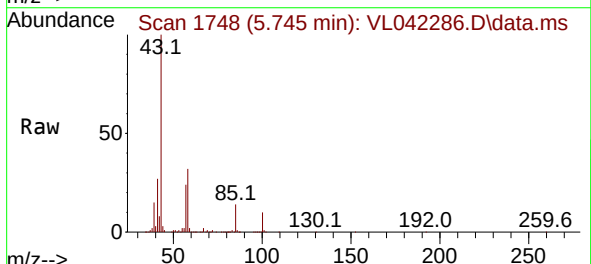
Manual Integrations
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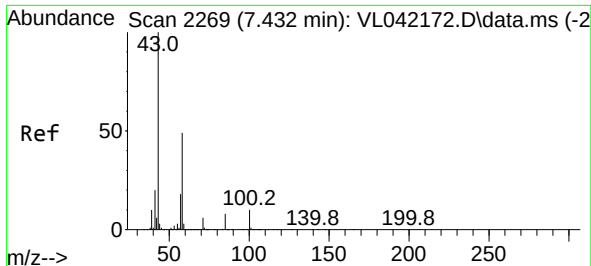
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#50
4-Methyl-2-Pentanone
Concen: 9.760 ppbv
RT: 5.745 min Scan# 1748
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

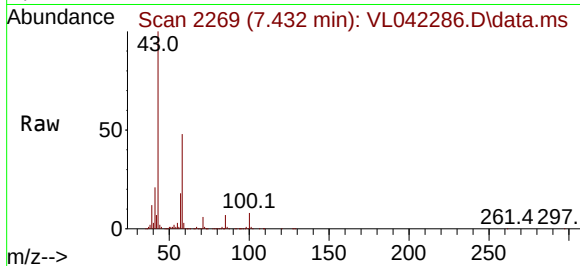
Tgt Ion: 43 Resp: 445454
Ion Ratio Lower Upper
43 100
58 33.4 29.0 43.6





#51
2-Hexanone
Concen: 9.437 ppbv
RT: 7.432 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

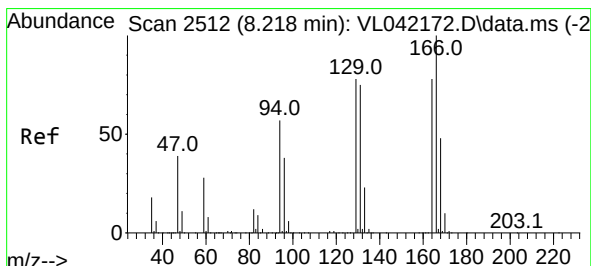
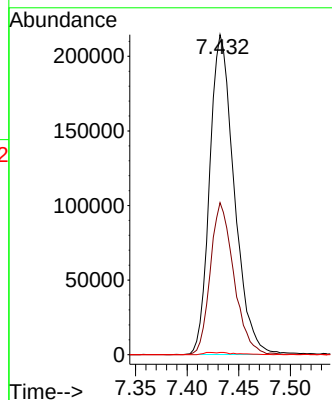
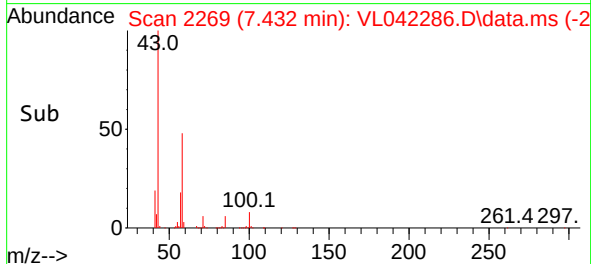
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



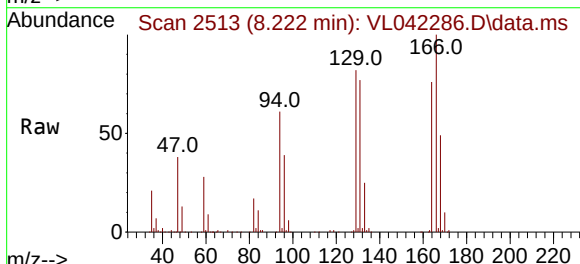
Tgt Ion: 43 Resp: 353700
Ion Ratio Lower Upper
43 100
58 45.8 39.7 59.5
98 0.9 0.1 0.1

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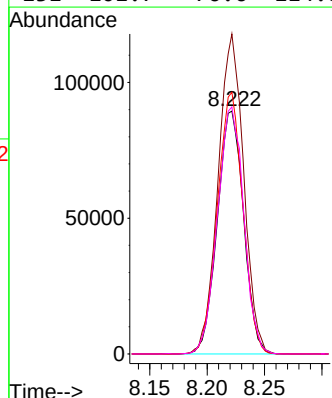
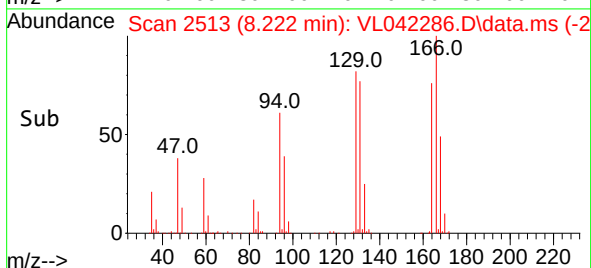
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

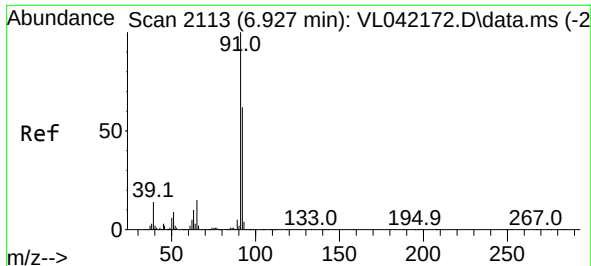


#52
Tetrachloroethene
Concen: 9.092 ppbv
RT: 8.222 min Scan# 2513
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20



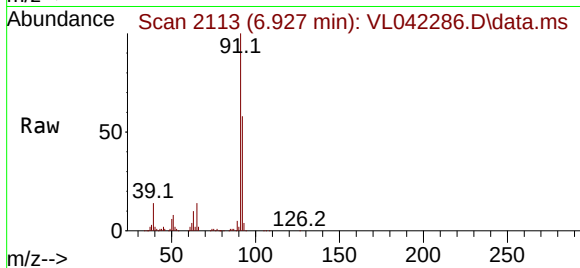
Tgt Ion:164 Resp: 141976
Ion Ratio Lower Upper
164 100
166 131.7 102.5 153.7
129 107.7 79.8 119.8
131 101.7 76.6 114.8





#53
Toluene
Concen: 9.961 ppbv
RT: 6.927 min Scan# 2113
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

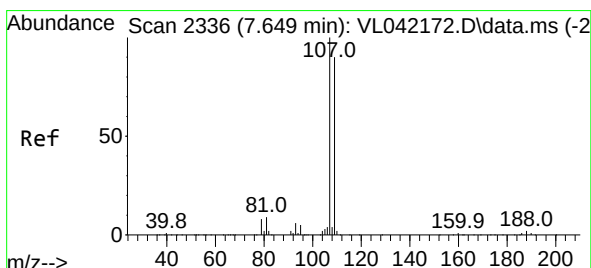
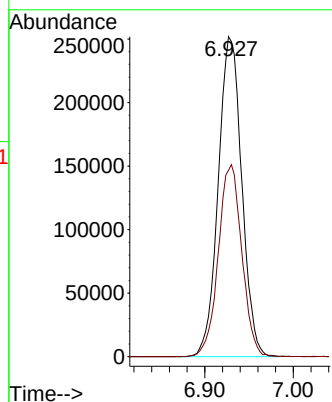
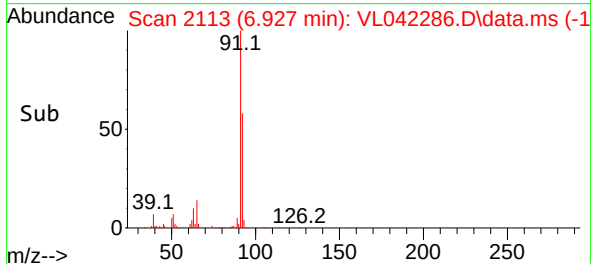
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



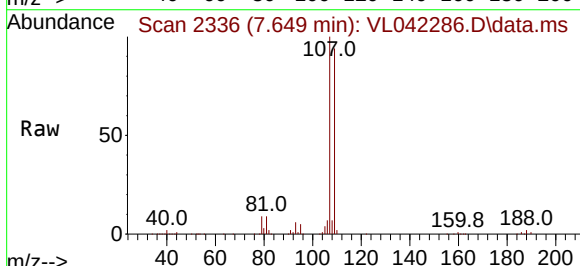
Tgt Ion: 91 Resp: 46494
Ion Ratio Lower Upper
91 100
92 60.0 48.4 72.6

Manual Integrations
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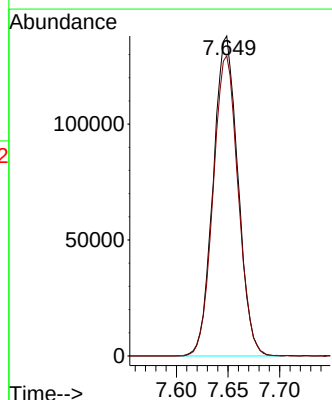
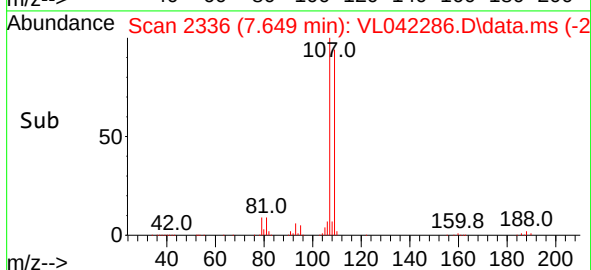
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

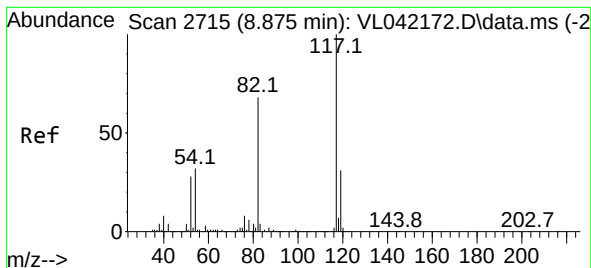


#54
1,2-Dibromoethane
Concen: 10.871 ppbv
RT: 7.649 min Scan# 2336
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20



Tgt Ion:107 Resp: 229720
Ion Ratio Lower Upper
107 100
109 93.8 72.2 108.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.879 min Scan# 2715

Delta R.T. 0.003 min

Lab File: VL042286.D

Acq: 09 Apr 2025 10:20

Instrument :

MSVOA_L

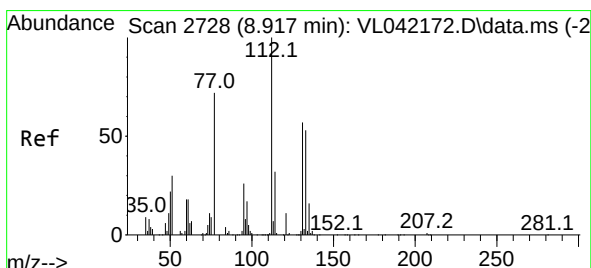
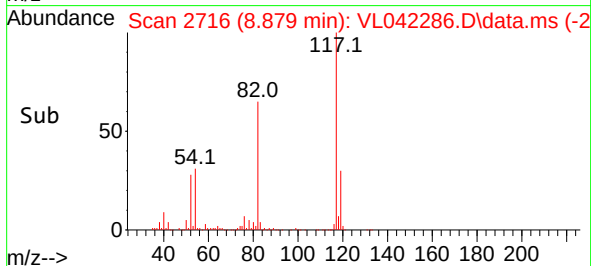
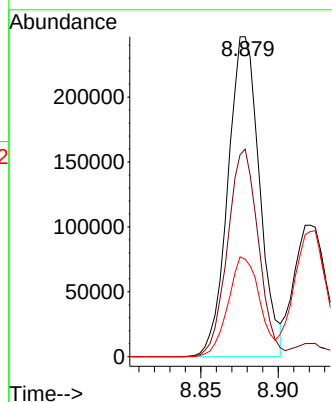
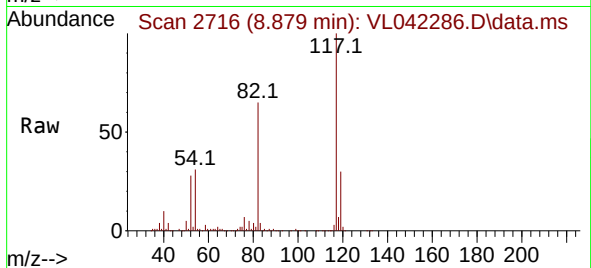
ClientSampleId :

VSTDCCC010

Tgt Ion:	117	Resp:	350140
Ion Ratio	Lower	Upper	
117	100		
82	67.4	55.8	83.6
119	31.2	25.5	38.3

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#56

1,1,1,2-Tetrachloroethane

Concen: 11.987 ppbv

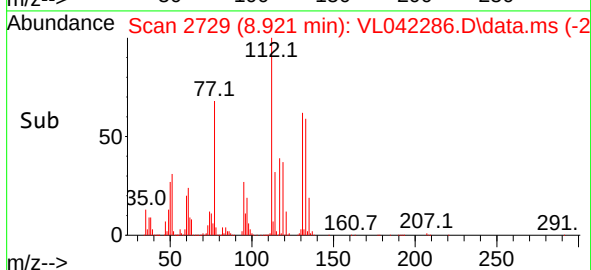
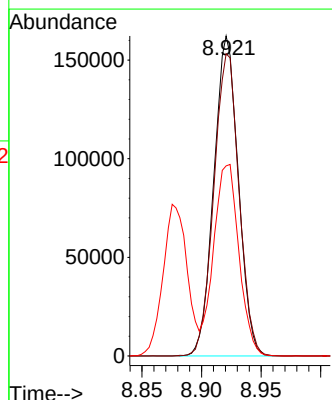
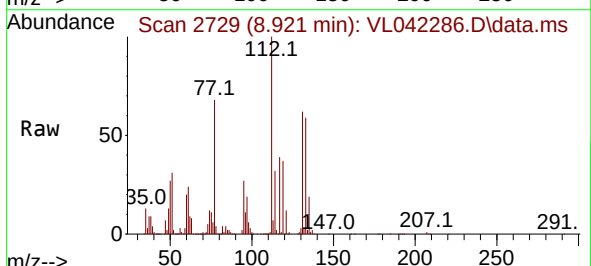
RT: 8.921 min Scan# 2729

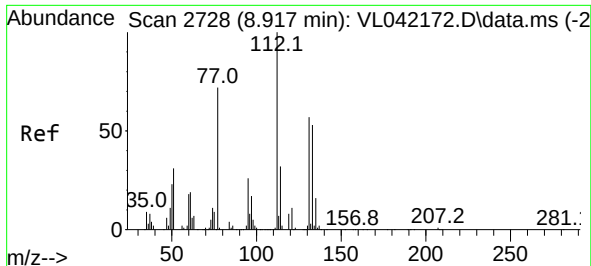
Delta R.T. 0.003 min

Lab File: VL042286.D

Acq: 09 Apr 2025 10:20

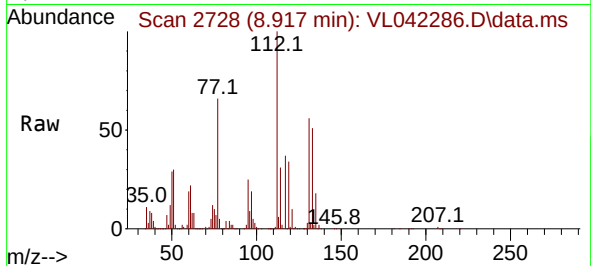
Tgt Ion:	131	Resp:	231041
Ion Ratio	Lower	Upper	
131	100		
133	97.4	76.6	114.8
119	63.2	49.8	74.6





#57
Chlorobenzene
Concen: 12.021 ppbv
RT: 8.917 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

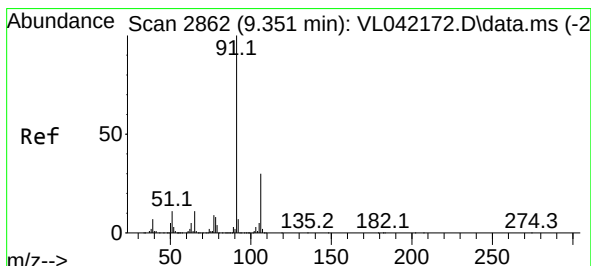
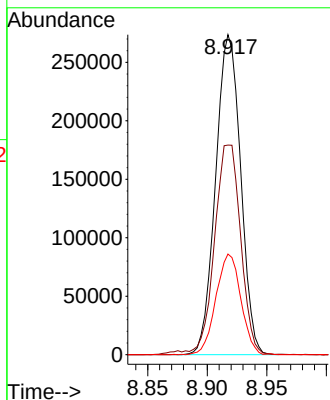
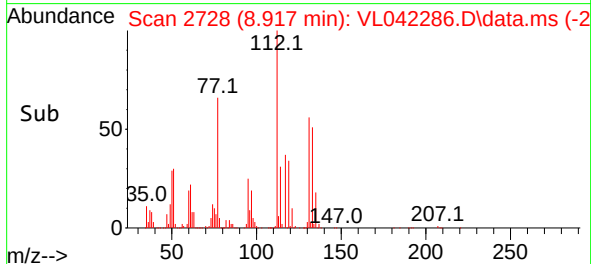
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion:112 Resp: 39922
Ion Ratio Lower Upper
112 100
77 65.3 58.2 87.2
114 31.4 29.1 35.5

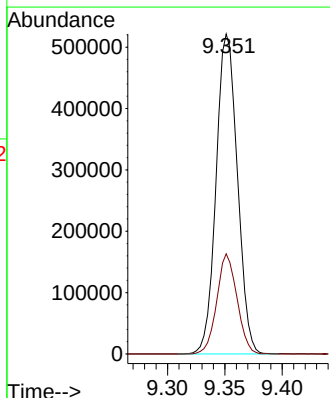
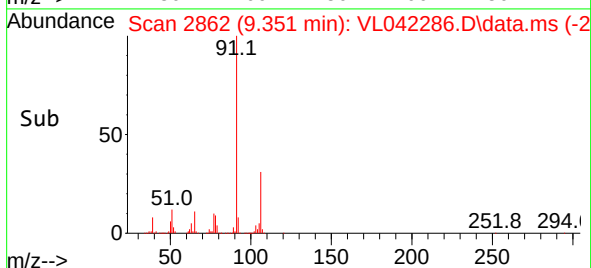
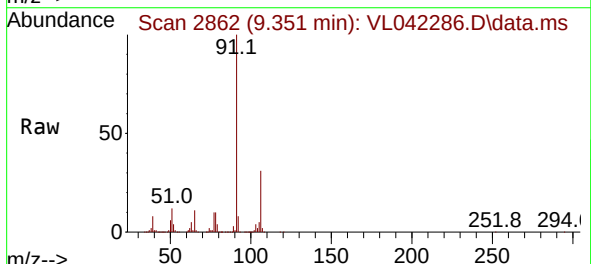
Manual Integrations
APPROVED

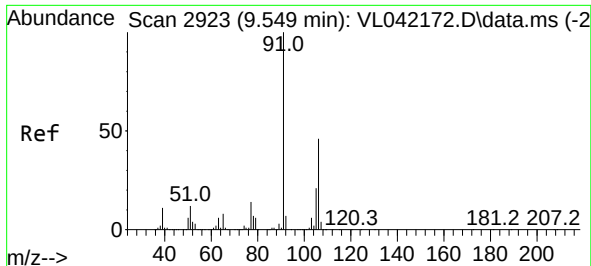
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#58
Ethyl Benzene
Concen: 10.834 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 91 Resp: 673801
Ion Ratio Lower Upper
91 100
106 31.3 24.2 36.2





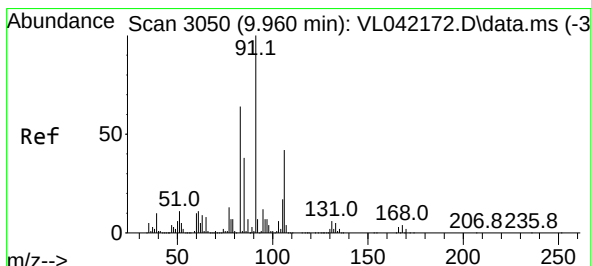
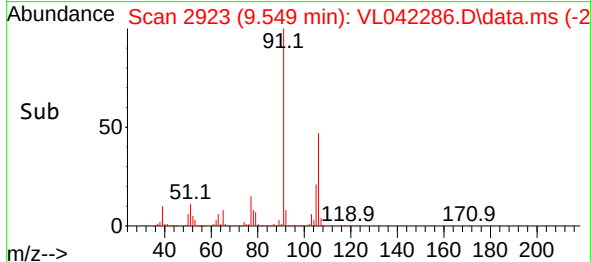
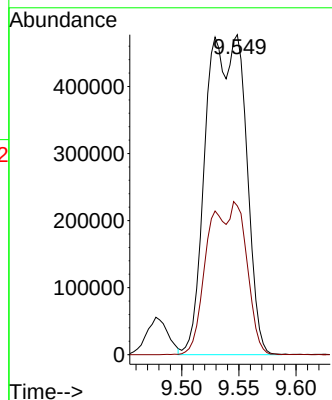
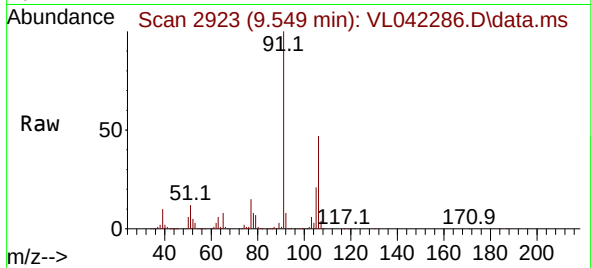
#59
m/p-Xylene
Concen: 23.379 ppbv m
RT: 9.549 min Scan# 2923
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 91 Resp: 116106
Ion Ratio Lower Upper
91 100
106 46.5 36.4 54.6

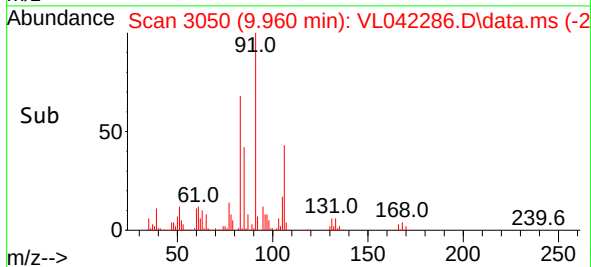
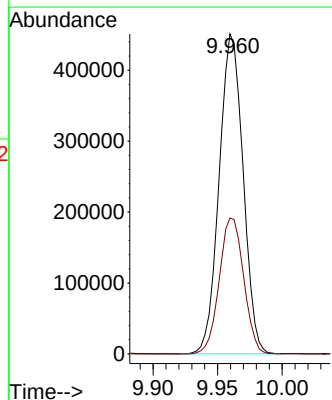
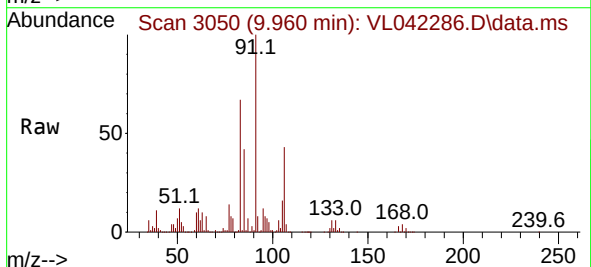
Manual Integrations
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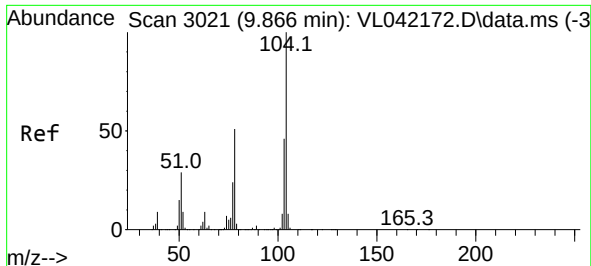
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#60
o-Xylene
Concen: 11.671 ppbv
RT: 9.960 min Scan# 3050
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

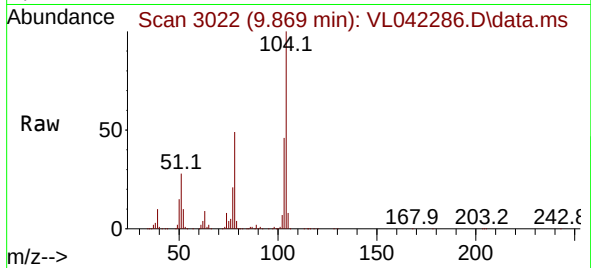
Tgt Ion: 91 Resp: 581045
Ion Ratio Lower Upper
91 100
106 43.4 20.8 62.5





#61
Styrene
Concen: 10.212 ppbv
RT: 9.869 min Scan# 3021
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

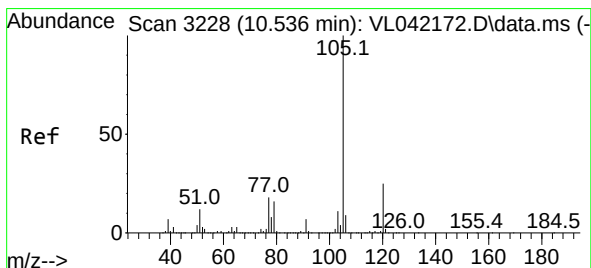
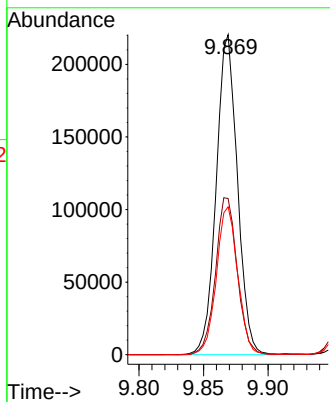
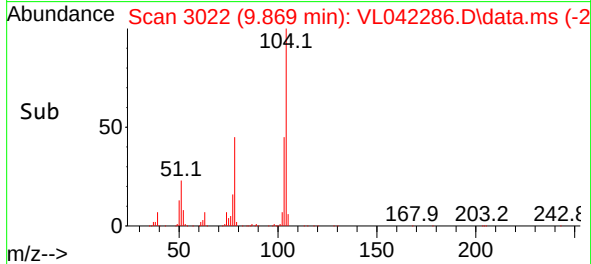
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010



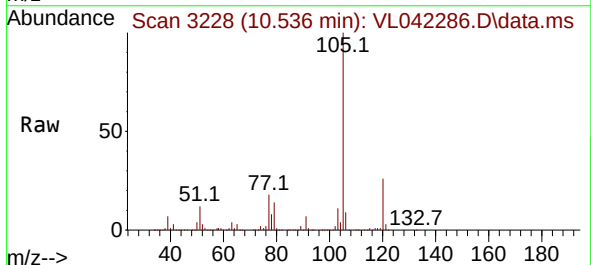
Tgt Ion:104 Resp: 25152
Ion Ratio Lower Upper
104 100
78 50.4 41.8 62.6
103 46.7 37.0 55.4

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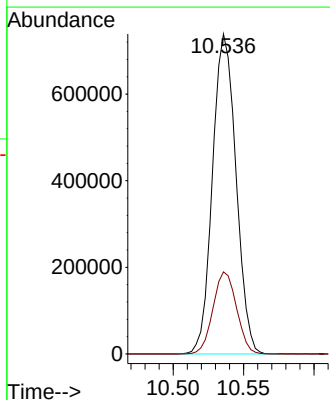
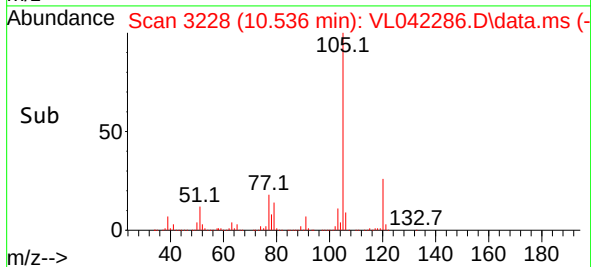
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

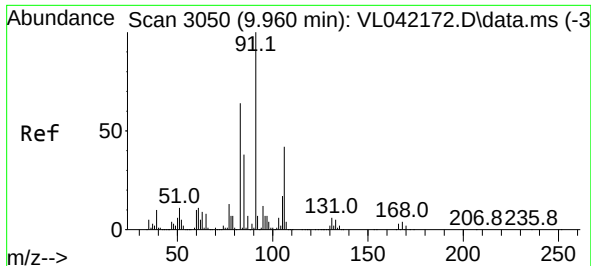


#62
Isopropylbenzene
Concen: 11.538 ppbv
RT: 10.536 min Scan# 3228
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20



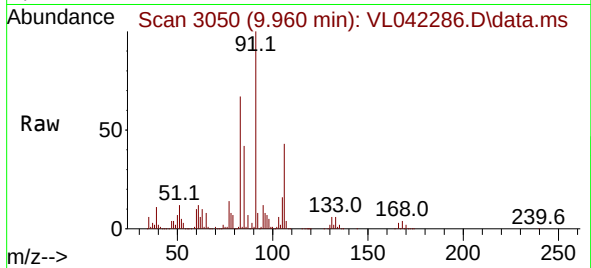
Tgt Ion:105 Resp: 859013
Ion Ratio Lower Upper
105 100
120 25.6 19.9 29.9





#63
1,1,2,2-Tetrachloroethane
Concen: 12.623 ppbv
RT: 9.960 min Scan# 3050
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

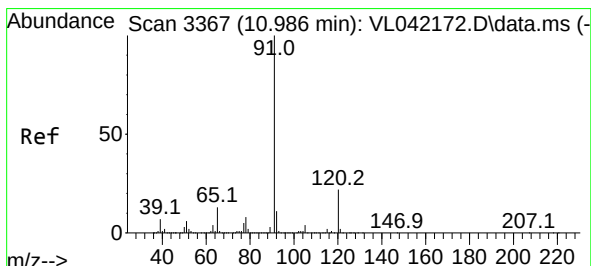
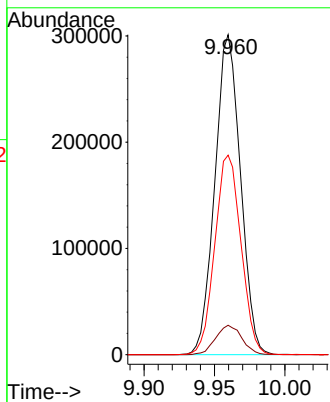
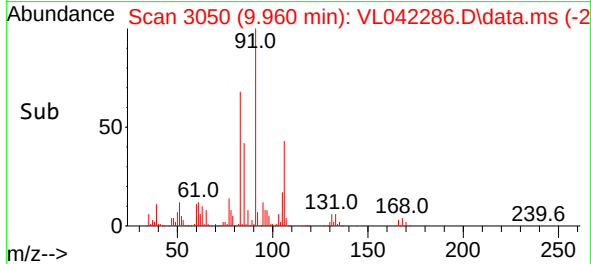
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010



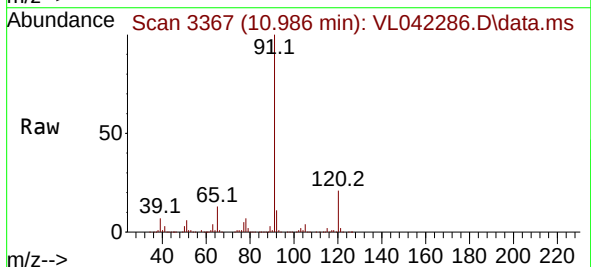
Tgt Ion: 83 Resp: 38184
Ion Ratio Lower Upper
83 100
131 9.4 4.8 14.4
85 63.7 32.5 97.5

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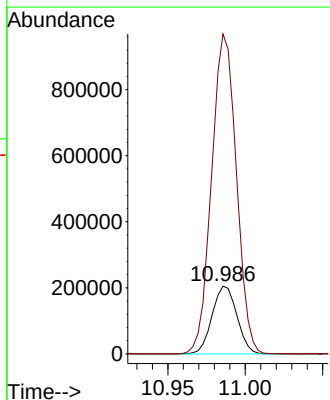
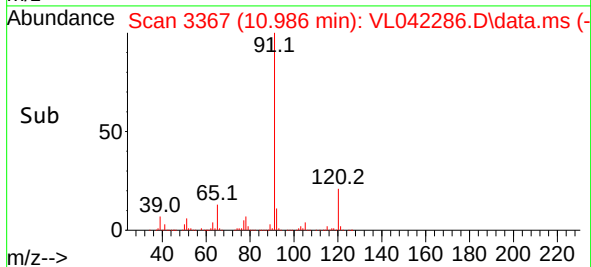
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

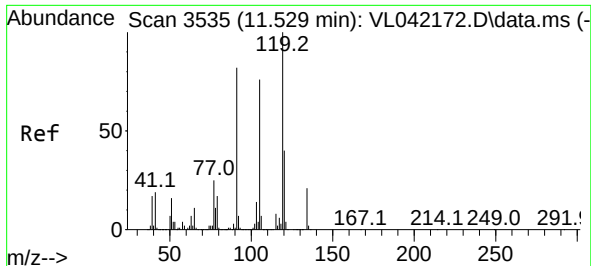


#64
n-propylbenzene
Concen: 11.925 ppbv
RT: 10.986 min Scan# 3367
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20



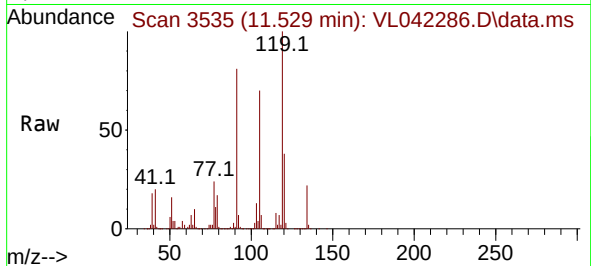
Tgt Ion:120 Resp: 228532
Ion Ratio Lower Upper
120 100
91 472.2 376.9 565.3





#65
tert-Butylbenzene
Concen: 11.393 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

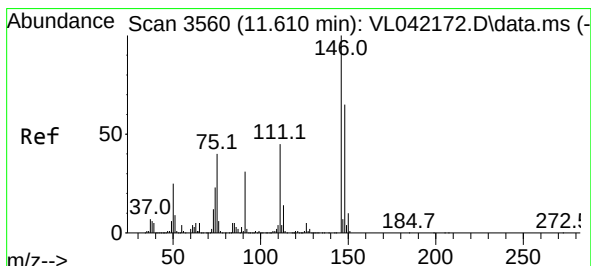
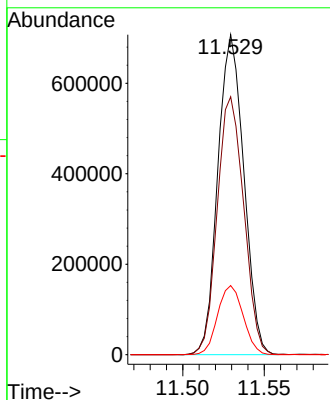
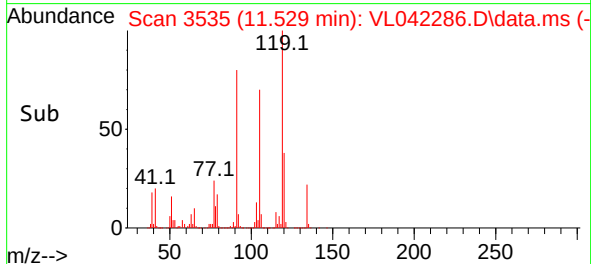
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



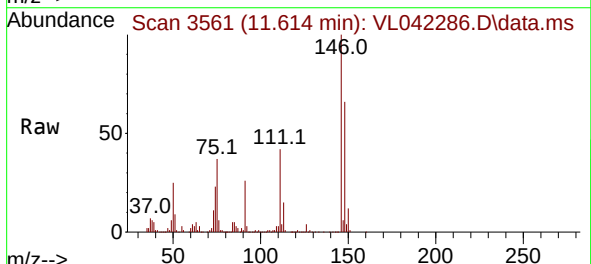
Tgt Ion: 119 Resp: 78448
Ion Ratio Lower Upper
119 100
91 82.1 66.0 99.0
134 21.2 16.7 25.1

Manual Integrations
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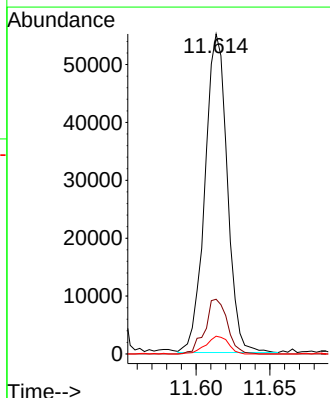
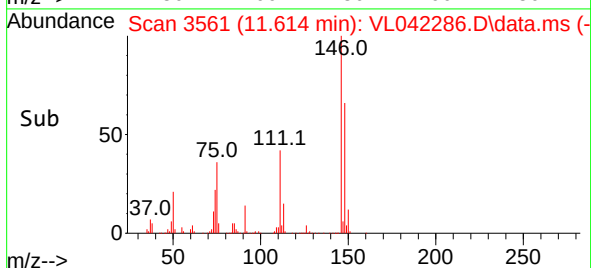
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

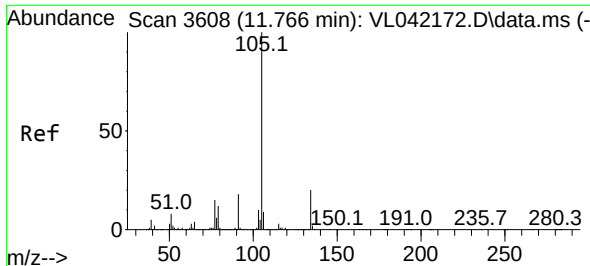


#66
Benzyl Chloride
Concen: 7.934 ppbv
RT: 11.614 min Scan# 3561
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20



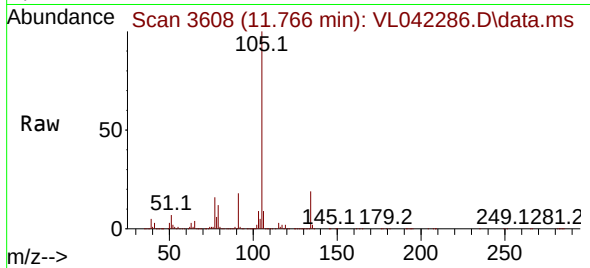
Tgt Ion: 91 Resp: 57966
Ion Ratio Lower Upper
91 100
126 17.0 13.8 20.6
128 5.7 4.5 6.7





#67
 sec-Butylbenzene
 Concen: 11.787 ppbv
 RT: 11.766 min Scan# 3608
 Delta R.T. 0.000 min
 Lab File: VL042286.D
 Acq: 09 Apr 2025 10:20

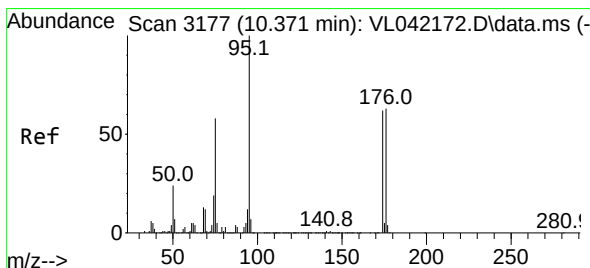
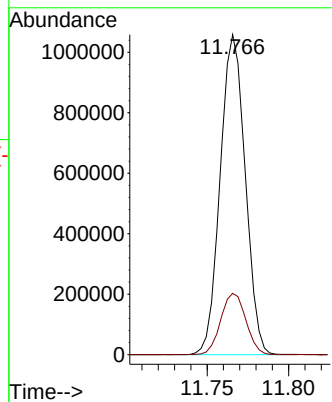
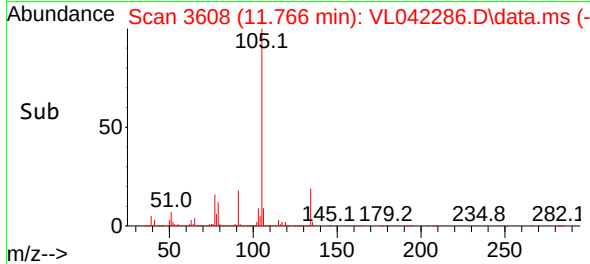
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



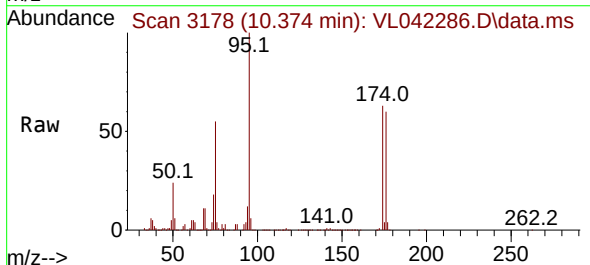
Tgt Ion:105 Resp: 1128100
 Ion Ratio Lower Upper
 105 100
 134 19.3 15.5 23.3

Manual Integrations
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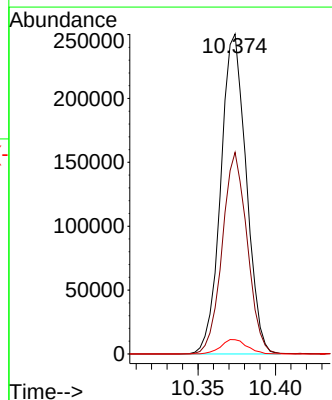
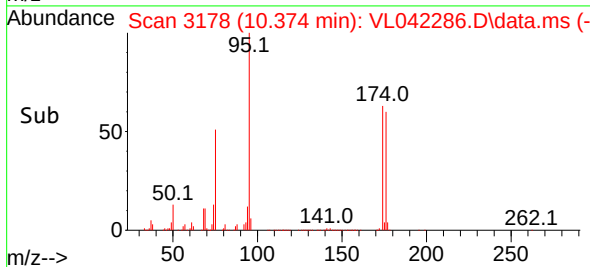
Reviewed By :Semsettin Yesilyurt 04/10/2025
 Supervised By :Mahesh Dadoda 04/10/2025

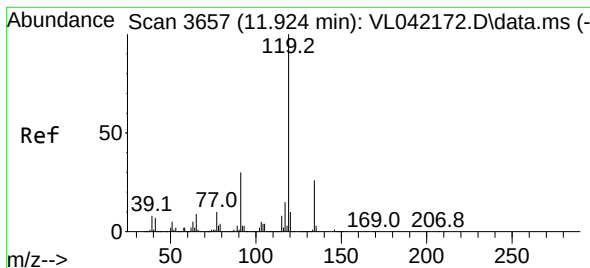


#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.930 ppbv
 RT: 10.374 min Scan# 3178
 Delta R.T. 0.003 min
 Lab File: VL042286.D
 Acq: 09 Apr 2025 10:20



Tgt Ion: 95 Resp: 285515
 Ion Ratio Lower Upper
 95 100
 174 61.9 50.6 76.0
 175 4.7 3.8 5.6





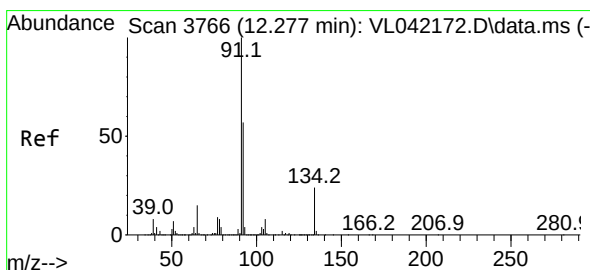
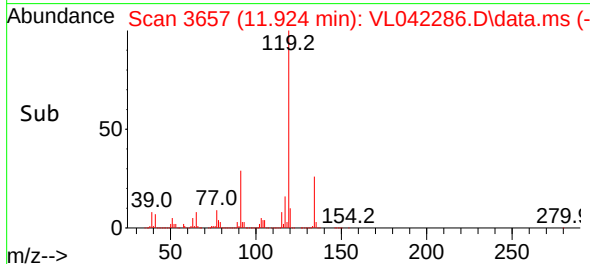
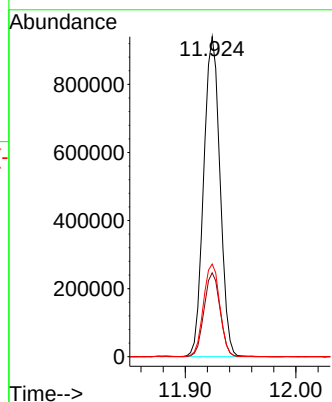
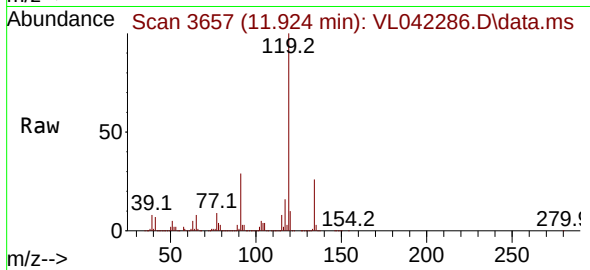
#69
p-Isopropyltoluene
Concen: 11.669 ppbv
RT: 11.924 min Scan# 3657
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 119 Resp: 96162
Ion Ratio Lower Upper
119 100
134 25.8 20.4 30.6
91 29.2 23.7 35.5

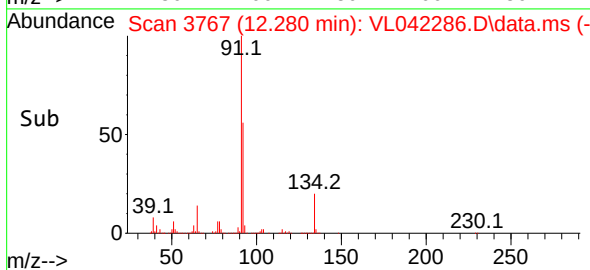
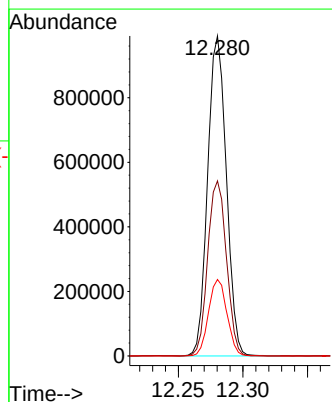
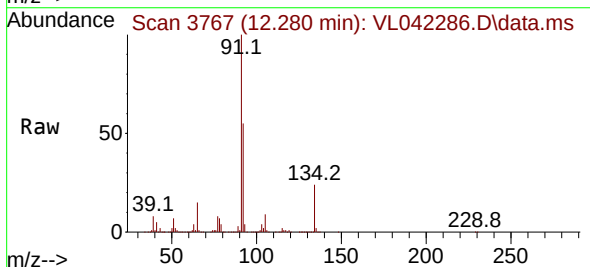
Manual Integrations
APPROVED

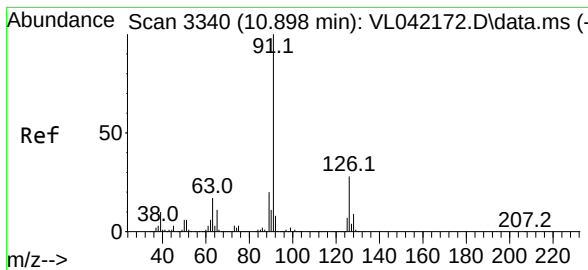
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#70
n-Butylbenzene
Concen: 11.847 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 91 Resp: 998455
Ion Ratio Lower Upper
91 100
92 55.0 44.9 67.3
134 23.6 19.2 28.8





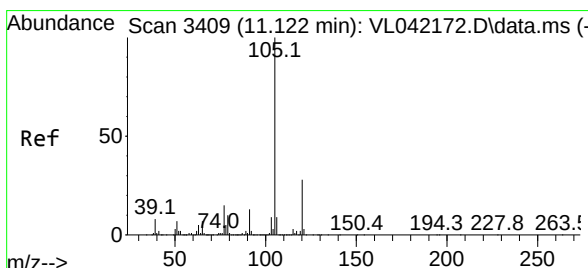
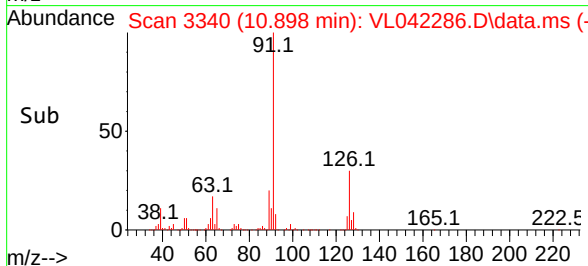
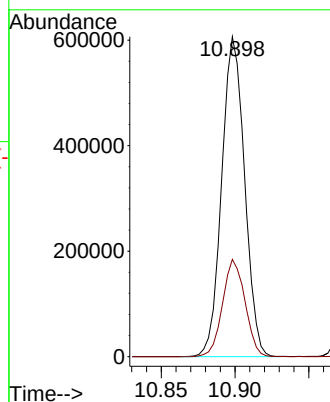
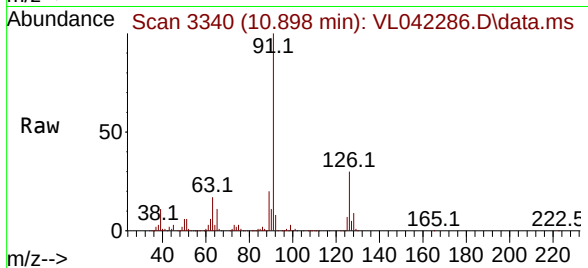
#71
2-Chlorotoluene
Concen: 11.323 ppbv
RT: 10.898 min Scan# 3340
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 91 Resp: 654270
Ion Ratio Lower Upper
91 100
126 29.8 11.6 46.4

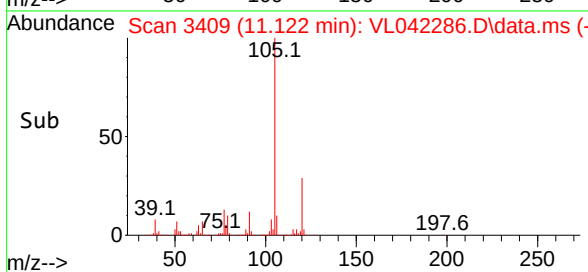
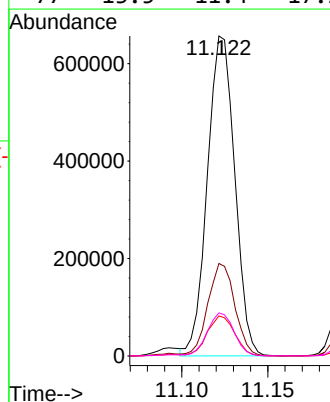
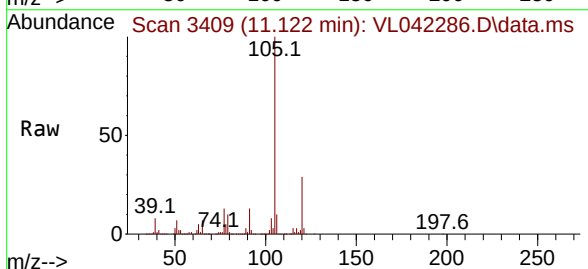
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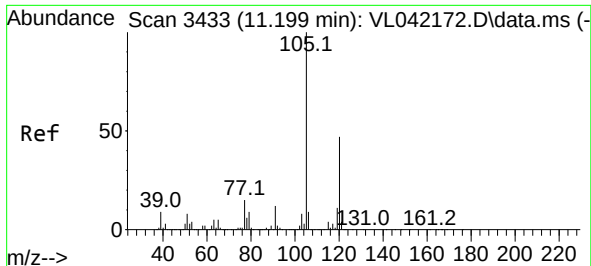
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#72
4-Ethyltoluene
Concen: 11.753 ppbv
RT: 11.122 min Scan# 3409
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion:105 Resp: 728517
Ion Ratio Lower Upper
105 100
120 29.1 23.4 35.0
91 12.8 10.3 15.5
77 13.5 11.4 17.2





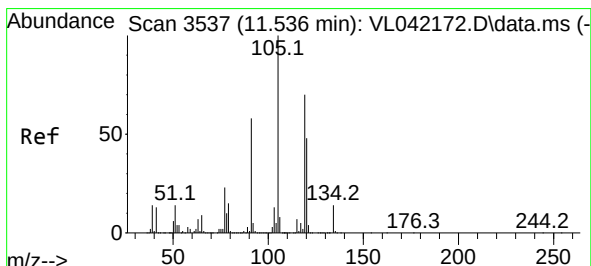
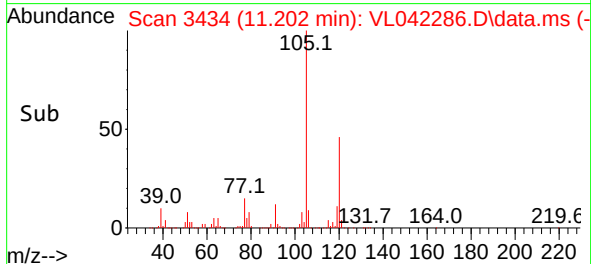
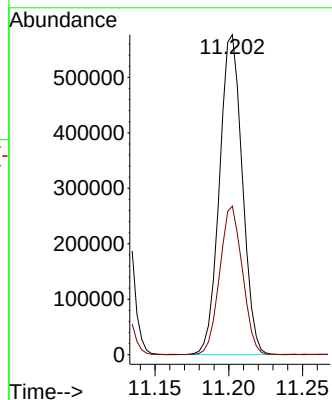
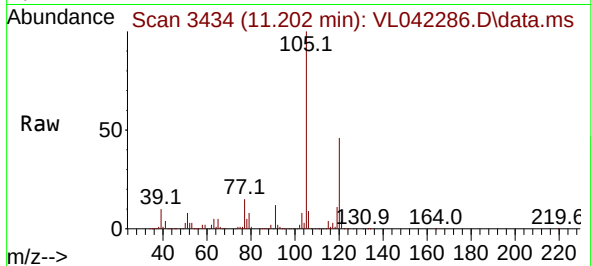
#73
1,3,5-Trimethylbenzene
Concen: 11.460 ppbv
RT: 11.202 min Scan# 3433
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:105 Resp: 620415
Ion Ratio Lower Upper
105 100
120 46.4 37.4 56.0

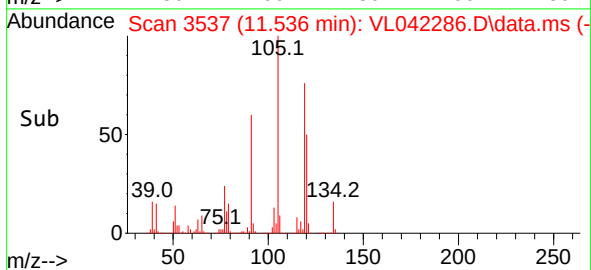
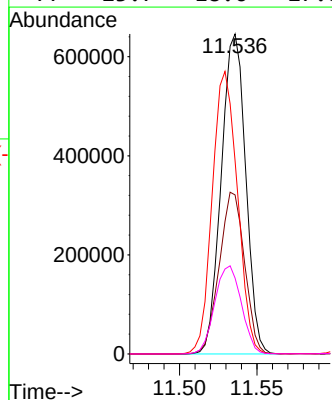
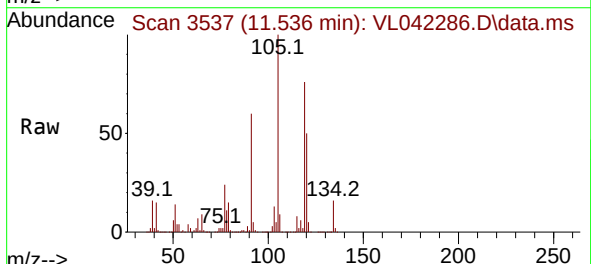
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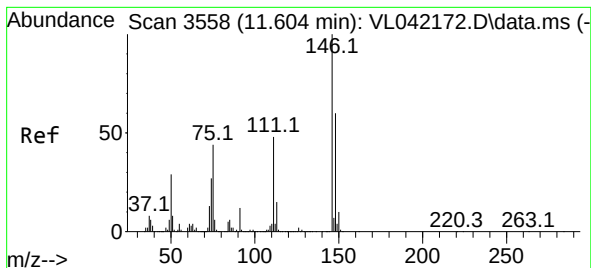
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#74
1,2,4-Trimethylbenzene
Concen: 11.371 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion:105 Resp: 709204
Ion Ratio Lower Upper
105 100
120 49.7 38.6 58.0
91 60.3 46.2 69.2
77 23.7 18.6 27.8





#75

1,3-Dichlorobenzene

Concen: 12.462 ppbv

RT: 11.607 min Scan# 3558

Delta R.T. 0.003 min

Lab File: VL042286.D

Acq: 09 Apr 2025 10:20

Instrument :

MSVOA_L

ClientSampleId :

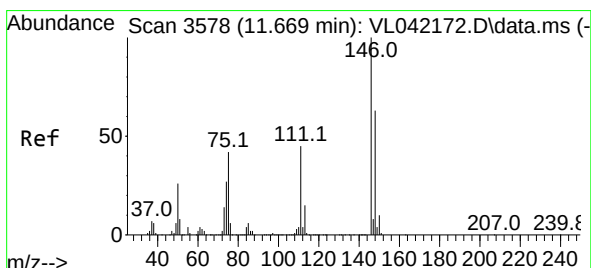
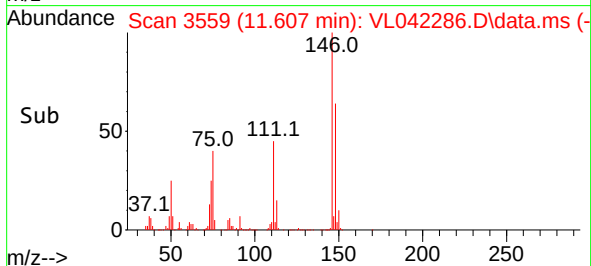
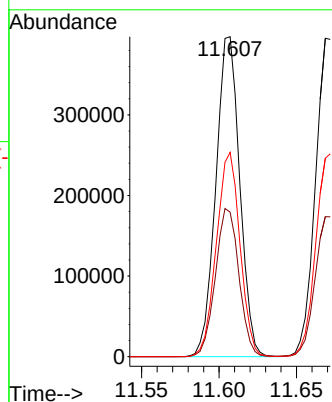
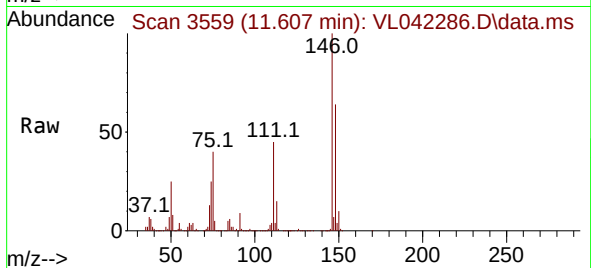
VSTDCCC010

Tgt Ion:146	Resp:	426300
Ion Ratio	Lower	Upper
146	100	
111	45.6	23.8 71.2
148	63.0	31.9 95.9

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#76

1,4-Dichlorobenzene

Concen: 12.442 ppbv

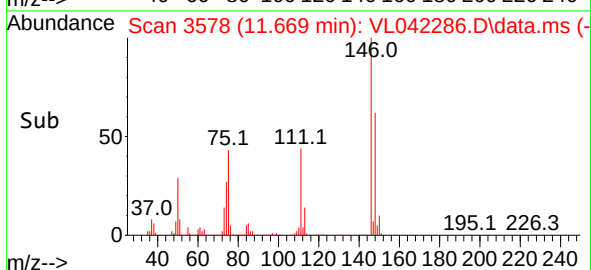
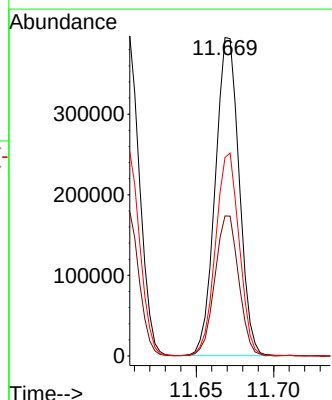
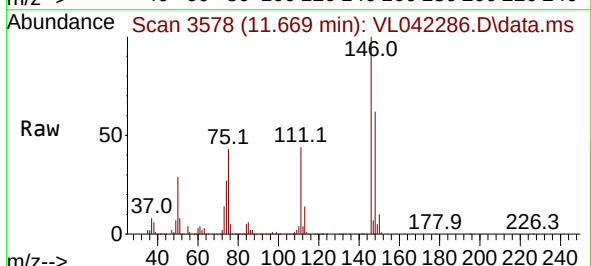
RT: 11.669 min Scan# 3578

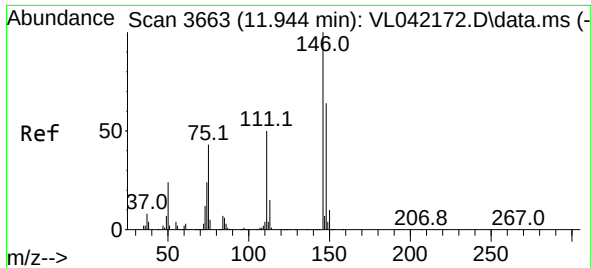
Delta R.T. 0.000 min

Lab File: VL042286.D

Acq: 09 Apr 2025 10:20

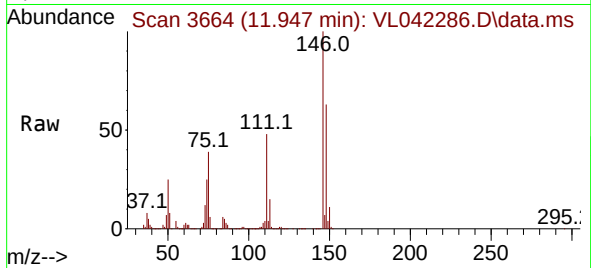
Tgt Ion:146	Resp:	423561
Ion Ratio	Lower	Upper
146	100	
111	44.2	23.0 69.0
148	63.4	31.9 95.7





#77
1,2-Dichlorobenzene
Concen: 12.589 ppbv
RT: 11.947 min Scan# 3664
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

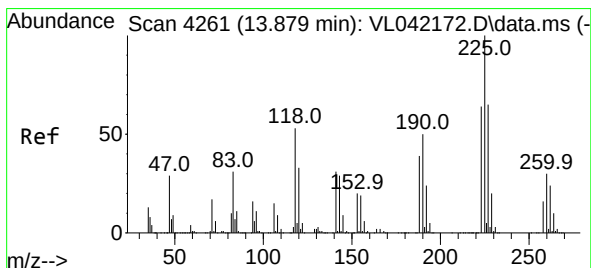
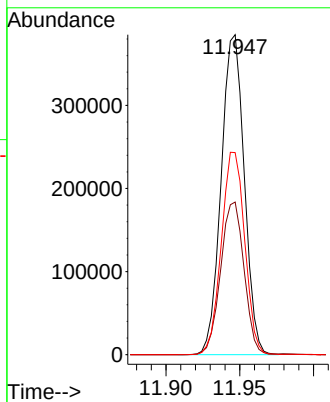
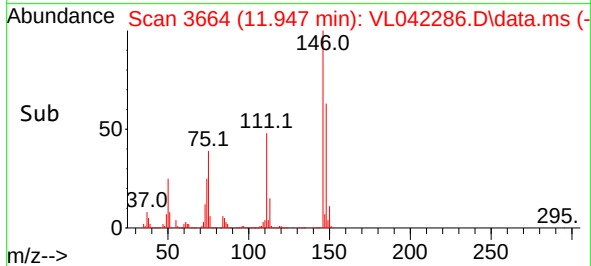
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion:146 Resp: 419286
Ion Ratio Lower Upper
146 100
111 48.5 24.8 74.3
148 64.3 31.6 94.8

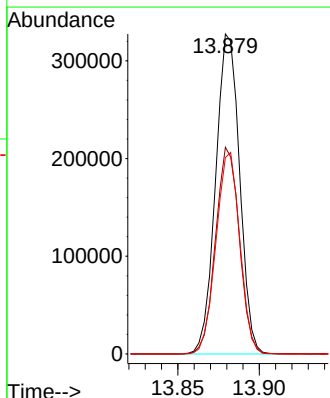
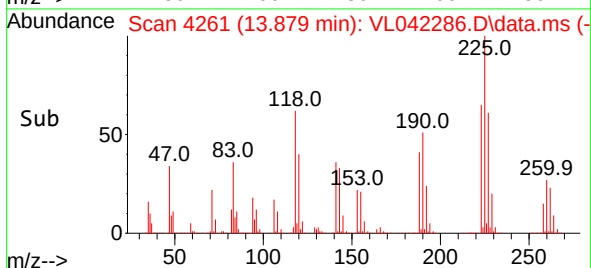
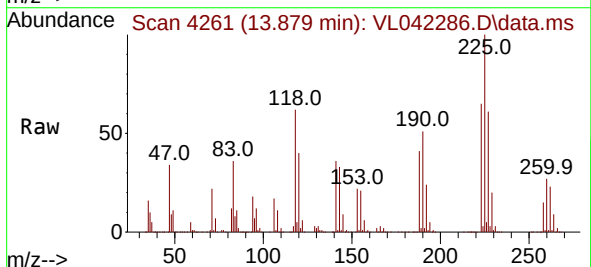
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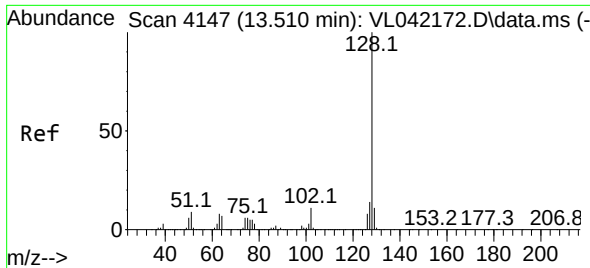
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#78
Hexachloro-1,3-Butadiene
Concen: 9.864 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

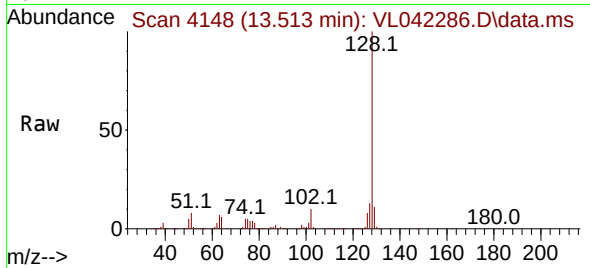
Tgt Ion:225 Resp: 334414
Ion Ratio Lower Upper
225 100
223 63.9 50.6 76.0
227 62.8 51.2 76.8





#79
Naphthalene
Concen: 11.851 ppbv
RT: 13.513 min Scan# 4147
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

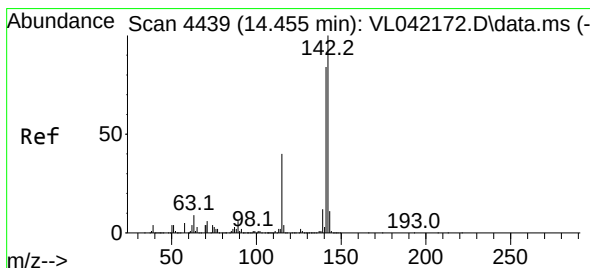
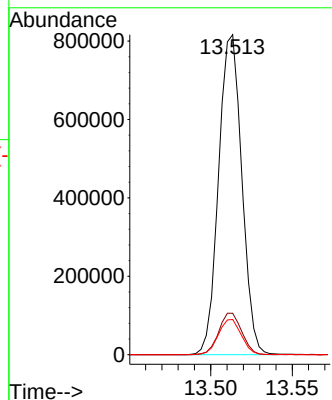
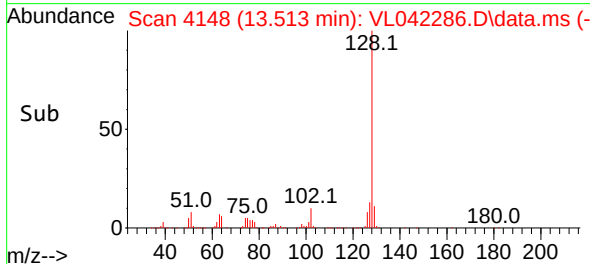
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion:128 Resp: 808459
Ion Ratio Lower Upper
128 100
127 12.9 10.8 16.2
129 11.0 9.0 13.4

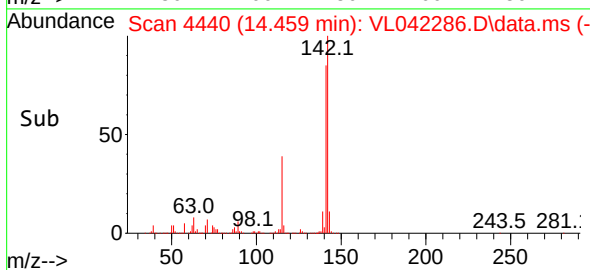
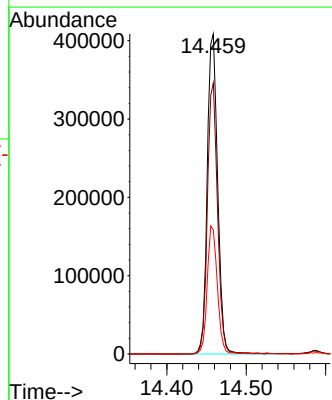
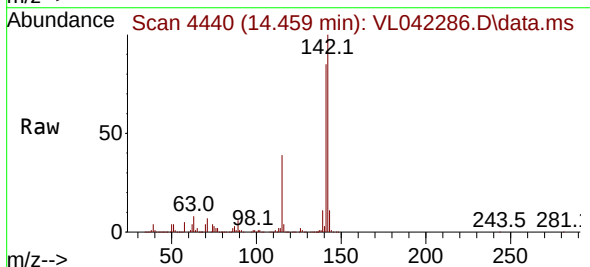
Manual Integrations
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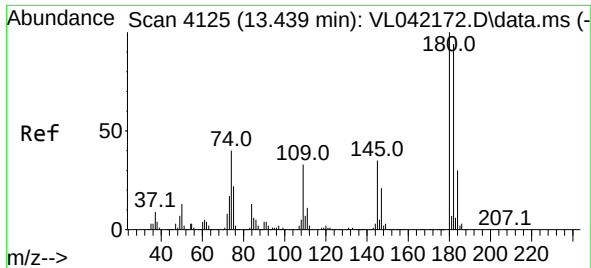
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#80
Naphthalene,2-methyl-
Concen: 11.158 ppbv
RT: 14.459 min Scan# 4440
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

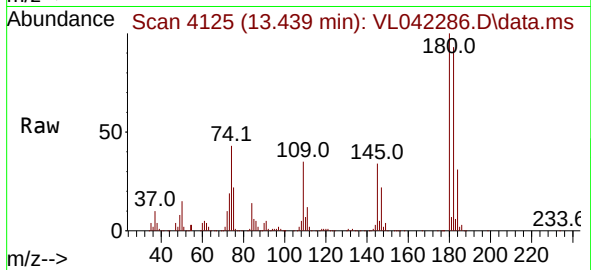
Tgt Ion:142 Resp: 373298
Ion Ratio Lower Upper
142 100
141 82.9 66.3 99.5
115 39.2 31.6 47.4





#81
 1,2,4-Trichlorobenzene
 Concen: 11.305 ppbv
 RT: 13.439 min Scan# 41
 Delta R.T. 0.000 min
 Lab File: VL042286.D
 Acq: 09 Apr 2025 10:20

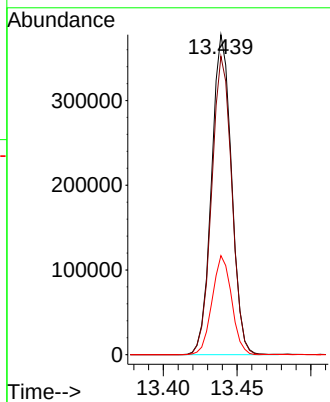
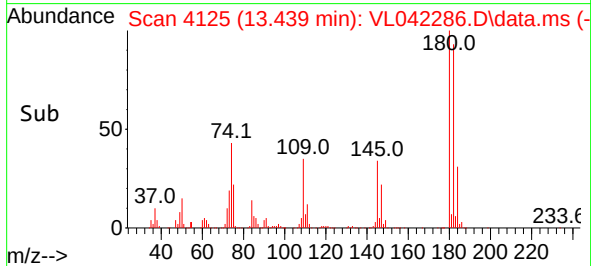
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



Tgt Ion:180 Resp: 35574
 Ion Ratio Lower Upper
 180 100
 182 93.9 75.1 112.7
 184 30.3 24.4 36.6

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 04/10/2025
 Supervised By :Mahesh Dadoda 04/10/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042286.D
Acq On : 09 Apr 2025 10:20
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
LabSampleId :
VSTDCCC010

Quant Time: Apr 10 01:39:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 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	83	0.00
2 T	Dichlorodifluoromethane	1.476	1.444	2.2	86	0.00
3	Chlorodifluoromethane	1.508	1.557	-3.2	89	0.00
4	Chloromethane	0.603	0.607	-0.7	88	0.00
5 T	Vinyl Chloride	0.639	0.560	12.4	85	0.00
6 T	Bromomethane	0.273	0.250	8.4	81	0.00
7	Chloroethane	0.242	0.225	7.0	82	0.00
8 T	Dichlorotetrafluoroethane	1.257	1.243	1.1	85	0.00
9 T	Propene	0.691	0.593	14.2	75	0.00
10 T	Heptane	1.839	1.800	2.1	84	0.00
11 T	Trichlorofluoromethane	1.437	1.405	2.2	87	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.181	1.149	2.7	85	0.00
13	Ethanol	0.065	0.030#	53.8#	86	0.00
14 T	Bromoethene	0.452	0.393	13.1	78	0.00
15 T	Acetone	1.399	1.260	9.9	94	0.00
16 T	1,3-Butadiene	0.683	0.610	10.7	89	0.00
17	tert-Butyl alcohol	1.742	1.415	18.8	73	0.00
18 T	1,1-Dichloroethene	0.552	0.499	9.6	82	0.00
19 T	Isopropyl Alcohol	0.789	0.664	15.8	79	0.00
20 T	Methylene Chloride	0.521	0.441	15.4	84	0.00
21 T	Allyl Chloride	0.986	0.899	8.8	83	0.00
22 T	trans-1,2-Dichloroethene	0.638	0.568	11.0	80	0.00
23 T	Vinyl Acetate	0.605	0.470	22.3	79	0.00
24 T	1,1-Dichloroethane	1.183	1.159	2.0	86	0.00
25 T	Ethyl Acetate	3.630	3.644	-0.4	88	0.00
26 T	Hexane	1.402	1.381	1.5	86	0.00
27 T	Carbon Disulfide	1.503	1.391	7.5	81	0.00
28 T	Methyl tert-Butyl Ether	0.873	0.705	19.2	71	0.00
29 T	Chloroform	2.052	2.190	-6.7	94	0.00
30 T	Cyclohexane	1.217	1.095	10.0	78	0.00
31 T	cis-1,2-Dichloroethene	1.423	1.297	8.9	79	0.00
32 T	1,1,1-Trichloroethane	2.349	2.135	9.1	86	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	73	0.00
34 T	2-Butanone	0.725	0.789	-8.8	86	0.00
35 T	Carbon Tetrachloride	0.781	0.879	-12.5	91	0.00
36 T	Benzene	0.991	1.071	-8.1	84	0.00
37 T	1,2-Dichloroethane	0.568	0.647	-13.9	88	0.00
38 T	Trichloroethene	0.414	0.429	-3.6	83	0.00
39 T	1,2-Dichloropropane	0.361	0.387	-7.2	84	0.00
40 T	1,4-Dioxane	0.192	0.183	4.7	79	0.00
41 T	Tetrahydrofuran	0.418	0.441	-5.5	81	0.00
42 T	Bromodichloromethane	0.782	0.904	-15.6	86	0.00
43	Methyl Methacrylate	0.420	0.390	7.1	71	0.00
44 T	2,2,4-Trimethylpentane	1.675	1.869	-11.6	85	0.00
45 T	t-1,3-Dichloropropene	0.450	0.371	17.6	62	0.00
46 T	cis-1,3-Dichloropropene	0.552	0.493	10.7	65	0.00
47 T	1,1,2-Trichloroethane	0.382	0.434	-13.6	87	0.00
48 T	Dibromochloromethane	0.647	0.705	-9.0	81	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042286.D
Acq On : 09 Apr 2025 10:20
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
LabSampleId :
VSTDCCC010

Quant Time: Apr 10 01:39:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 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	0.630	-8.4	79	0.00
50 T	4-Methyl-2-Pentanone	1.149	1.122	2.3	80	0.00
51 T	2-Hexanone	0.944	0.891	5.6	77	0.00
52 T	Tetrachloroethene	0.393	0.357	9.2	76	0.00
53 T	Toluene	1.175	1.171	0.3	76	0.00
54 T	1,2-Dibromoethane	0.532	0.578	-8.6	83	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	67	0.00
56	1,1,1,2-Tetrachloroethane	0.550	0.660	-20.0	87	0.00
57 T	Chlorobenzene	0.949	1.140	-20.1	88	0.00
58 T	Ethyl Benzene	1.776	1.924	-8.3	78	0.00
59 T	m/p-Xylene	1.418	1.658	-16.9	85	0.00
60 T	o-Xylene	1.422	1.659	-16.7	84	0.00
61 T	Styrene	0.703	0.718	-2.1	71	0.00
62	Isopropylbenzene	2.126	2.453	-15.4	84	0.00
63 T	1,1,2,2-Tetrachloroethane	0.864	1.091	-26.3	92	0.00
64	n-propylbenzene	0.547	0.653	-19.4	88	0.00
65	tert-Butylbenzene	1.966	2.240	-13.9	87	0.00
66 T	Benzyl Chloride	0.209	0.166	20.6	55	0.00
67	sec-Butylbenzene	2.733	3.222	-17.9	90	0.00
68 S	1-Bromo-4-Fluorobenzene	0.821	0.815	0.7	68	0.00
69	p-Isopropyltoluene	2.354	2.746	-16.7	89	0.00
70	n-Butylbenzene	2.407	2.852	-18.5	90	0.00
71	2-Chlorotoluene	1.650	1.869	-13.3	82	0.00
72 T	4-Ethyltoluene	1.770	2.081	-17.6	86	0.00
73 T	1,3,5-Trimethylbenzene	1.546	1.772	-14.6	86	0.00
74 T	1,2,4-Trimethylbenzene	1.781	2.025	-13.7	90	0.00
75 T	1,3-Dichlorobenzene	0.977	1.218	-24.7	93	0.00
76 T	1,4-Dichlorobenzene	0.972	1.210	-24.5	92	0.00
77 T	1,2-Dichlorobenzene	0.951	1.197	-25.9	95	0.00
78 T	Hexachloro-1,3-Butadiene	0.968	0.955	1.3	80	0.00
79 T	Naphthalene	1.948	2.309	-18.5	86	0.00
80 T	Naphthalene,2-methyl-	0.955	1.066	-11.6	73	0.00
81 T	1,2,4-Trichlorobenzene	0.899	1.016	-13.0	80	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.: Q1665 SAS No.: Q1665 SDG No.: Q1665

Instrument ID: MSVOA_L Calibration Date/Time: 04/11/2025 09:50

Lab File ID: VL042312.D Init. Calib. Date(s): 03/27/2025 03/27/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 08:26 11:36

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

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	1.476	1.441		-2.37	30
Chloromethane	0.603	0.609		1	30
Vinyl Chloride	0.639	0.557		-12.83	30
Bromomethane	0.273	0.234		-14.29	30
Chloroethane	0.242	0.228		-5.78	30
Tetrahydrofuran	0.418	0.467		11.72	30
Trichlorofluoromethane	1.437	1.362		-5.22	30
1,1,2-Trichlorotrifluoroethane	1.181	1.053		-10.84	30
Dichlorotetrafluoroethane	1.257	1.222		-2.78	30
tert-Butyl alcohol	1.742	1.391		-20.15	30
Heptane	1.839	1.822		-0.92	30
1,1-Dichloroethene	0.552	0.487		-11.77	30
Acetone	1.399	1.261		-9.86	30
Carbon Disulfide	1.503	1.325		-11.84	30
Methyl tert-Butyl Ether	0.873	0.703		-19.47	30
Methylene Chloride	0.521	0.419		-19.58	30
trans-1,2-Dichloroethene	0.638	0.555		-13.01	30
1,1-Dichloroethane	1.183	1.132		-4.31	30
Cyclohexane	1.217	1.108		-8.96	30
2-Butanone	0.725	0.821		13.24	30
Carbon Tetrachloride	0.781	0.841		7.68	30
cis-1,2-Dichloroethene	1.423	1.346		-5.41	30
Chloroform	2.052	2.143		4.43	30
1,1,1-Trichloroethane	2.349	2.070		-11.88	30
2,2,4-Trimethylpentane	1.675	1.882		12.36	30
Benzene	0.991	1.092		10.19	30
1,2-Dichloroethane	0.568	0.630		10.91	30
Trichloroethene	0.414	0.438		5.8	30
1,2-Dichloropropane	0.361	0.400		10.8	30
Bromodichloromethane	0.782	0.891		13.94	30
4-Methyl-2-Pentanone	1.149	1.147		-0.17	30
Toluene	1.175	1.181		0.51	30
t-1,3-Dichloropropene	0.450	0.381		-15.33	30
cis-1,3-Dichloropropene	0.552	0.509		-7.79	30
1,1,2-Trichloroethane	0.382	0.438		14.66	30
Dibromochloromethane	0.647	0.718		10.97	30
1,2-Dibromoethane	0.532	0.576		8.27	30
Tetrachloroethene	0.393	0.369		-6.11	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.: Q1665 SAS No.: Q1665 SDG No.: Q1665

Instrument ID: MSVOA_L Calibration Date/Time: 04/11/2025 09:50

Lab File ID: VL042312.D Init. Calib. Date(s): 03/27/2025 03/27/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 08:26 11:36

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

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Chlorobenzene	0.949	1.148		20.97	30
Ethyl Benzene	1.776	1.942		9.35	30
m/p-Xylene	1.418	1.649		16.29	30
o-Xylene	1.422	1.645		15.68	30
Styrene	0.703	0.726		3.27	30
Bromoform	0.581	0.635		9.29	30
1,1,2,2-Tetrachloroethane	0.864	1.112		28.7	30
2-Chlorotoluene	1.650	1.885		14.24	30
1,3,5-Trimethylbenzene	1.546	1.819		17.66	30
1,2,4-Trimethylbenzene	1.781	2.042		14.65	30
1,3-Dichlorobenzene	0.977	1.227		25.59	30
1,4-Dichlorobenzene	0.972	1.218		25.31	30
1,2-Dichlorobenzene	0.951	1.233		29.65	30
1,2,4-Trichlorobenzene	0.899	0.934		3.89	30
Hexachloro-1,3-Butadiene	0.968	0.929		-4.03	30
1,3-Butadiene	0.683	0.611		-10.54	30
Naphthalene	1.948	2.055		5.49	30
4-Ethyltoluene	1.770	2.112		19.32	30
1-Bromo-4-Fluorobenzene	0.821	0.793		-3.41	30
Hexane	1.402	1.398		-0.28	30
Allyl Chloride	0.986	0.887		-10.04	30
1,4-Dioxane	191.626	177.632		-7.3	30
Methyl Methacrylate	0.420	0.398		-5.24	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\VL041125\
 Data File : VL042312.D
 Acq On : 11 Apr 2025 09:50
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Quant Time: Apr 11 22:56:21 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 02:00:52 2025

Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 04/16/2025
 Supervised By : Mahesh Dadoda 04/17/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.787	49	183700	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	463746	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	401340	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	318204	9.655	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.500%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	264775	9.762	ppbv	100
3) Chlorodifluoromethane	1.476	51	287991	10.394	ppbv	97
4) Chloromethane	1.531	50	111786	10.085	ppbv	98
5) Vinyl Chloride	1.580	62	102342	8.713	ppbv	95
6) Bromomethane	1.667	94	43054	8.571	ppbv	99
7) Chloroethane	1.703	64	41946	9.427	ppbv	98
8) Dichlorotetrafluoroethane	1.554	85	224489	9.719	ppbv	94
9) Propene	1.483	41	117677	9.266	ppbv	99
10) Heptane	4.981	43	334707	9.908	ppbv	100
11) Trichlorofluoromethane	1.877	101	250122	9.477	ppbv	99
12) 1,1,2-Trichlorotrifluoro...	2.140	101	193510	8.920	ppbv	97
13) Ethanol	1.722	45	5849	4.872	ppbv	89
14) Bromoethene	1.780	108	73294	8.820	ppbv	100
15) Acetone	1.835	43	231724	9.019	ppbv	97
16) 1,3-Butadiene	1.609	39	112297	8.950	ppbv	97
17) tert-Butyl alcohol	2.039	59	255575	7.987	ppbv	99
18) 1,1-Dichloroethene	2.033	96	89512	8.827	ppbv	98
19) Isopropyl Alcohol	1.887	45	125233	8.639	ppbv	92
20) Methylene Chloride	2.062	84	76968	8.044	ppbv	93
21) Allyl Chloride	2.098	41	162998	8.996	ppbv	97
22) trans-1,2-Dichloroethene	2.340	96	101974	8.700	ppbv	95
23) Vinyl Acetate	2.463	43	95152	8.557	ppbv	99
24) 1,1-Dichloroethane	2.408	63	207862	9.567	ppbv	99
25) Ethyl Acetate	2.835	43	678920	10.182	ppbv	99
26) Hexane	2.826	57	256866	9.973	ppbv	98
27) Carbon Disulfide	2.149	76	243367	8.812	ppbv	98
28) Methyl tert-Butyl Ether	2.441	73	129141	8.053	ppbv	96
29) Chloroform	2.848	83	393638	10.443	ppbv	98
30) Cyclohexane	3.858	84	203526	9.100	ppbv	97
31) cis-1,2-Dichloroethene	2.722	61	247194	9.454	ppbv	97
32) 1,1,1-Trichloroethane	3.370	97	380312	8.813	ppbv	98
34) 2-Butanone	2.557	43	380682	11.321	ppbv	98
35) Carbon Tetrachloride	3.764	117	390140	10.769	ppbv	98
36) Benzene	3.658	78	506278	11.012	ppbv	97
37) 1,2-Dichloroethane	3.221	62	292183	11.101	ppbv	99
38) Trichloroethene	4.551	130	203156	10.591	ppbv	96
39) 1,2-Dichloropropane	4.315	63	185497	11.079	ppbv	97
40) 1,4-Dioxane	4.583	88	82376	9.270	ppbv #	98
41) Tetrahydrofuran	3.056	42	216646	11.188	ppbv	93
42) Bromodichloromethane	4.493	83	413250	11.389	ppbv	99
43) Methyl Methacrylate	4.884	69	184472	9.478	ppbv	96
44) 2,2,4-Trimethylpentane	4.642	57	872871	11.235	ppbv	98
45) t-1,3-Dichloropropene	6.422	75	176804	8.467	ppbv	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
 Data File : VL042312.D
 Acq On : 11 Apr 2025 09:50
 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 04/16/2025
 Supervised By : Mahesh Dadoda 04/17/2025

Quant Time: Apr 11 22:56:21 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

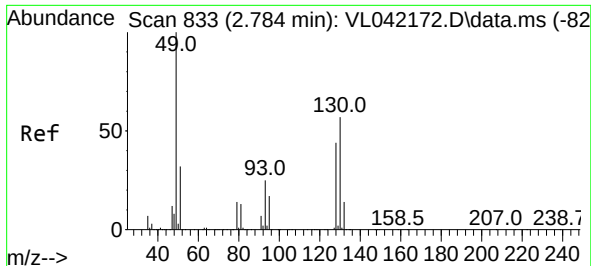
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Fri Mar 28 02:00:52 2025

Response via : Initial Calibration

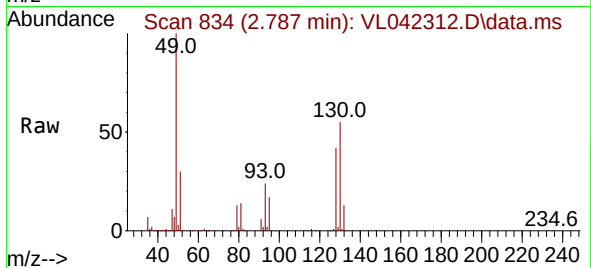
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.603	75	236039	9.222	ppbv	99
47) 1,1,2-Trichloroethane	6.583	97	202891	11.463	ppbv	98
48) Dibromochloromethane	7.389	129	333128	11.106	ppbv	99
49) Bromoform	9.484	173	294489	10.935	ppbv	100
50) 4-Methyl-2-Pentanone	5.755	43	531851	9.980	ppbv	95
51) 2-Hexanone	7.438	43	424035	9.689	ppbv #	94
52) Tetrachloroethene	8.224	164	170989	9.378	ppbv	97
53) Toluene	6.936	91	547579	10.048	ppbv	99
54) 1,2-Dibromoethane	7.655	107	267225	10.831	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.927	131	271350	12.283	ppbv	100
57) Chlorobenzene	8.924	112	460598	12.099	ppbv	98
58) Ethyl Benzene	9.357	91	779227	10.931	ppbv	98
59) m/p-Xylene	9.552	91	1323463m	23.249	ppbv	
60) o-Xylene	9.966	91	660065	11.567	ppbv	96
61) Styrene	9.872	104	291355	10.320	ppbv	99
62) Isopropylbenzene	10.542	105	988337	11.582	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.966	83	446341	12.873	ppbv	99
64) n-propylbenzene	10.992	120	268681	12.231	ppbv	97
65) tert-Butylbenzene	11.532	119	932850	11.820	ppbv	98
66) Benzyl Chloride	11.616	91	68675	8.201	ppbv	99
67) sec-Butylbenzene	11.769	105	1310042	11.942	ppbv	100
69) p-Isopropyltoluene	11.927	119	1107045	11.720	ppbv	99
70) n-Butylbenzene	12.283	91	1144571	11.848	ppbv	99
71) 2-Chlorotoluene	10.904	91	756562	11.423	ppbv	98
72) 4-Ethyltoluene	11.128	105	847821	11.932	ppbv	99
73) 1,3,5-Trimethylbenzene	11.205	105	729887	11.762	ppbv	99
74) 1,2,4-Trimethylbenzene	11.539	105	819490	11.463	ppbv	92
75) 1,3-Dichlorobenzene	11.610	146	492549	12.562	ppbv	99
76) 1,4-Dichlorobenzene	11.675	146	488636	12.522	ppbv	98
77) 1,2-Dichlorobenzene	11.950	146	494739	12.959	ppbv	98
78) Hexachloro-1,3-Butadiene	13.882	225	373025	9.599	ppbv	99
79) Naphthalene	13.516	128	824947	10.550	ppbv	100
80) Naphthalene,2-methyl-	14.458	142	276556	7.212	ppbv	98
81) 1,2,4-Trichlorobenzene	13.442	180	374714	10.389	ppbv	99

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



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

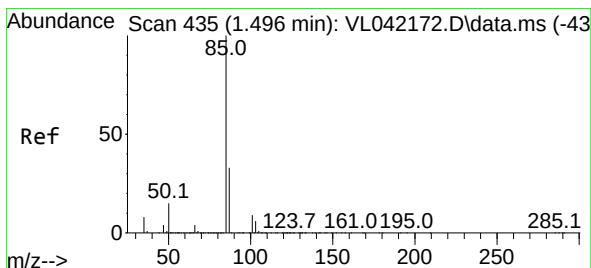
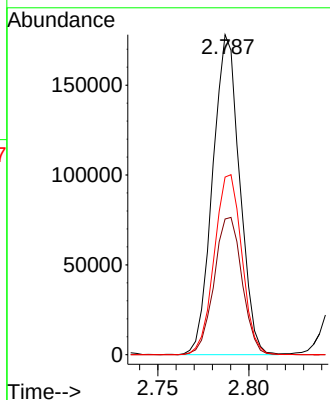
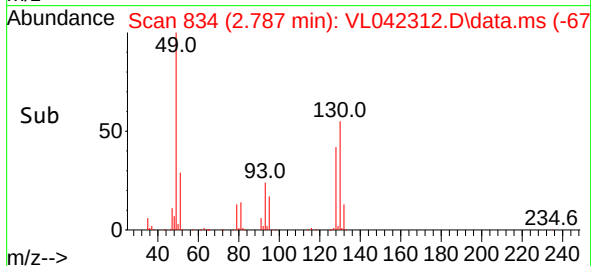
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



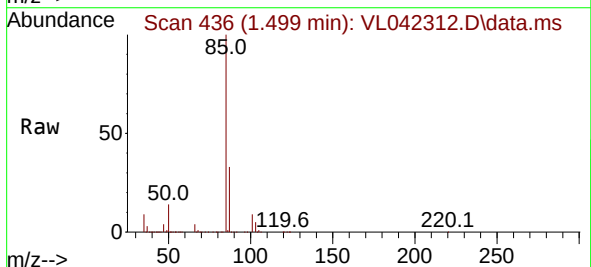
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Ion Ratio Lower Upper
49 100
128 44.4 22.9 68.5
130 57.3 28.8 86.4

Manual Integrations
APPROVED

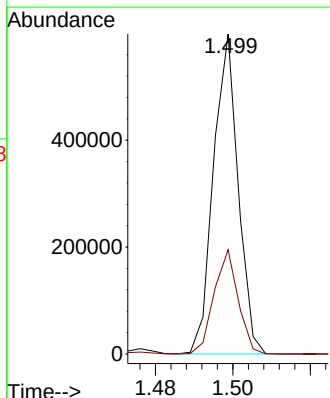
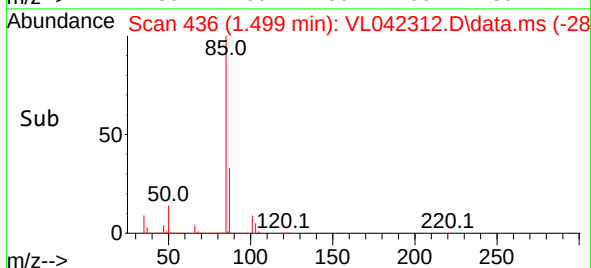
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

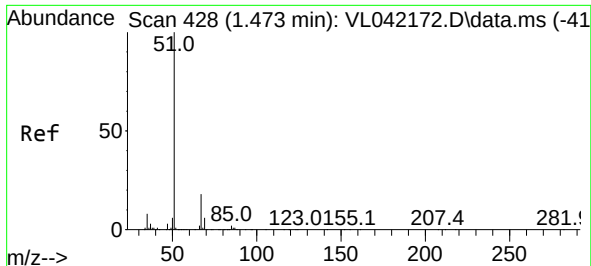


#2
Dichlorodifluoromethane
Concen: 9.762 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50



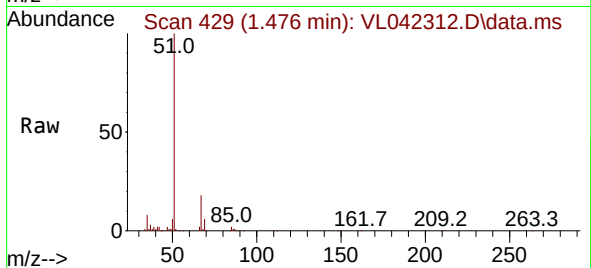
Tgt Ion: 85 Resp: 264775
Ion Ratio Lower Upper
85 100
87 32.5 26.1 39.1





#3
Chlorodifluoromethane
Concen: 10.394 ppbv
RT: 1.476 min Scan# 428
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

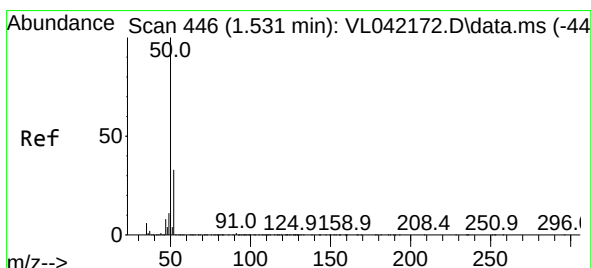
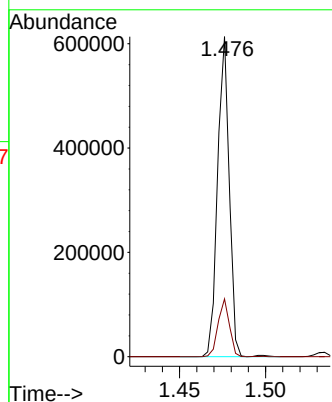
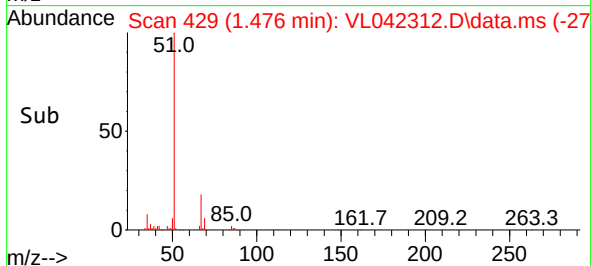
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



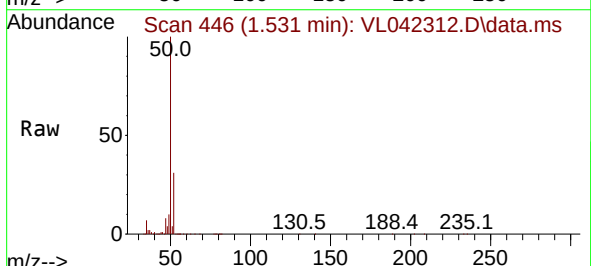
Tgt Ion: 51 Resp: 28799
Ion Ratio Lower Upper
51 100
67 17.6 15.0 22.6

Manual Integrations
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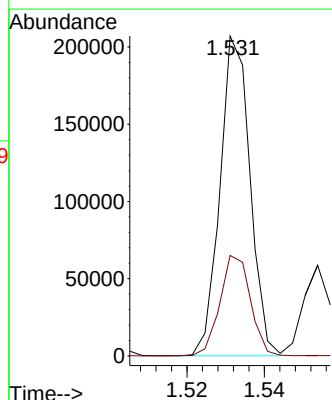
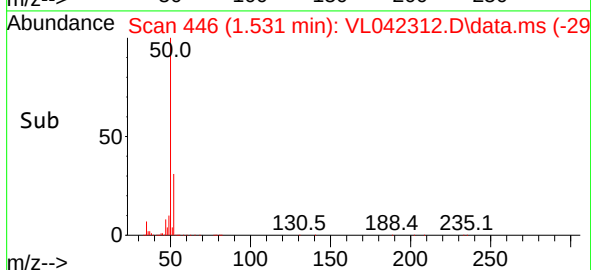
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

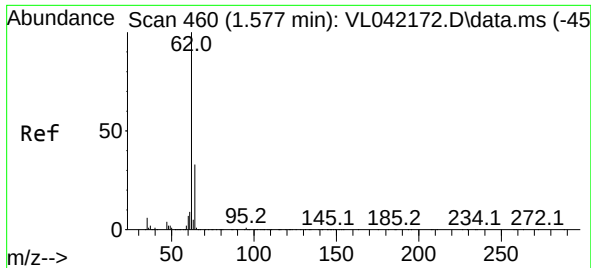


#4
Chloromethane
Concen: 10.085 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50



Tgt Ion: 50 Resp: 111786
Ion Ratio Lower Upper
50 100
52 31.3 26.1 39.1





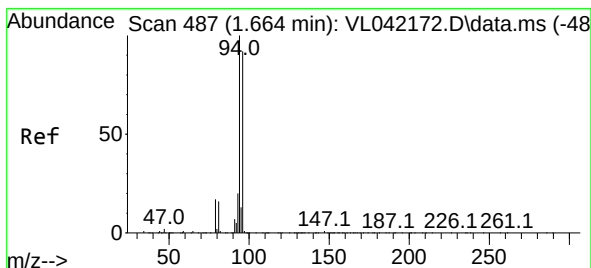
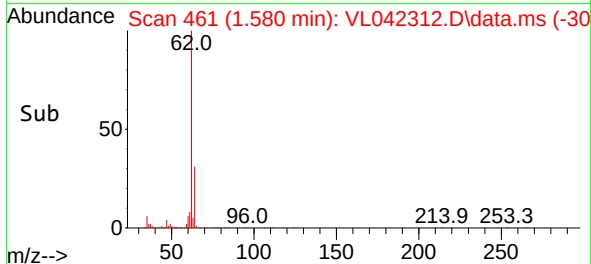
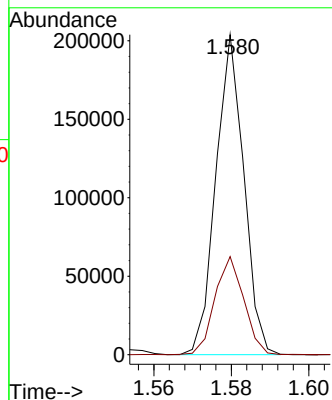
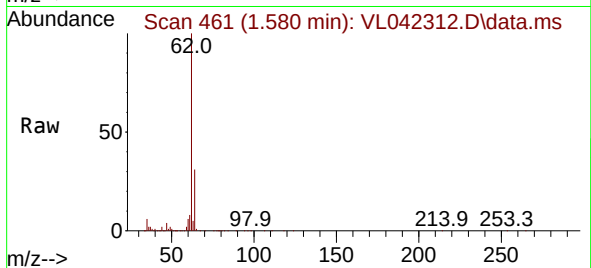
#5
 Vinyl Chloride
 Concen: 8.713 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. 0.003 min
 Lab File: VL042312.D
 Acq: 11 Apr 2025 09:50

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tgt Ion: 62 Resp: 10234
 Ion Ratio Lower Upper
 62 100
 64 30.6 26.6 40.0

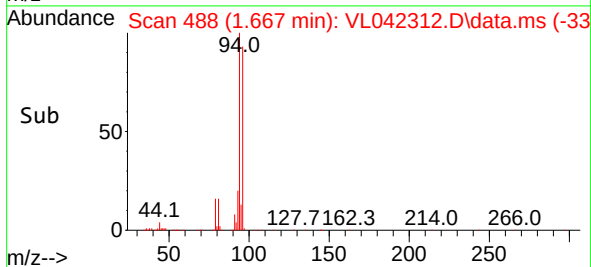
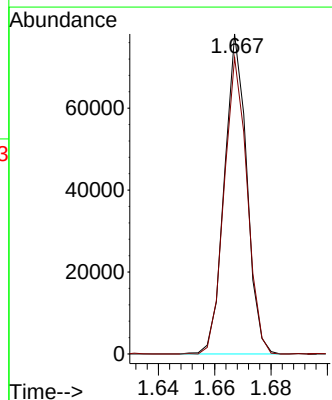
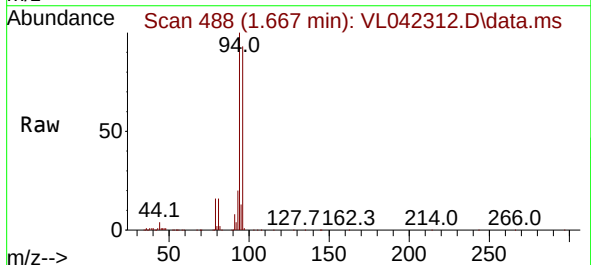
Manual Integrations
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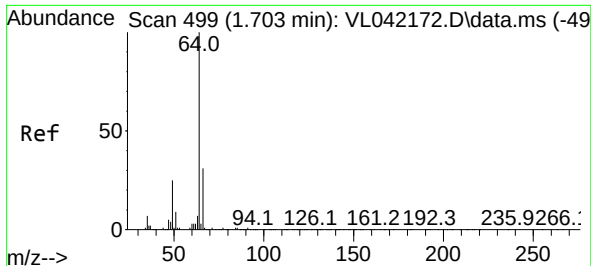
Reviewed By :Semsettin Yesilyurt 04/16/2025
 Supervised By :Mahesh Dadoda 04/17/2025



#6
 Bromomethane
 Concen: 8.571 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. 0.003 min
 Lab File: VL042312.D
 Acq: 11 Apr 2025 09:50

Tgt Ion: 94 Resp: 43054
 Ion Ratio Lower Upper
 94 100
 96 92.7 73.1 109.7





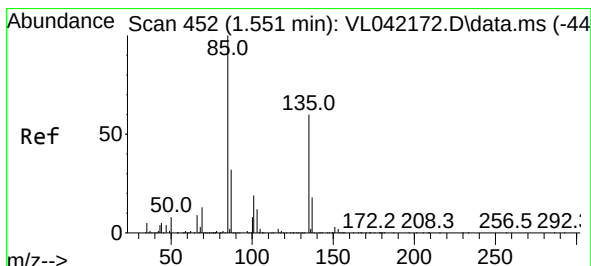
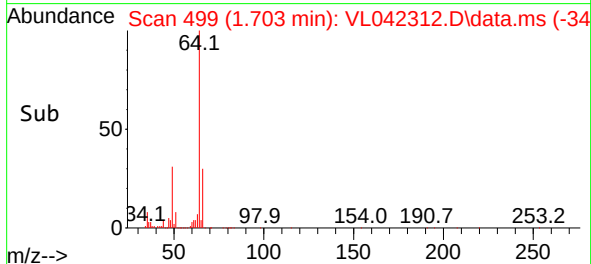
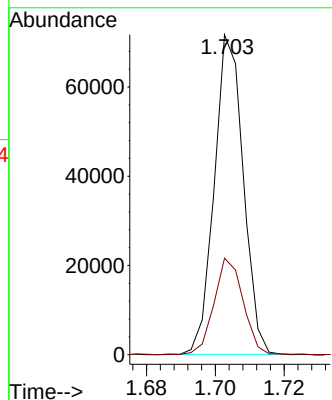
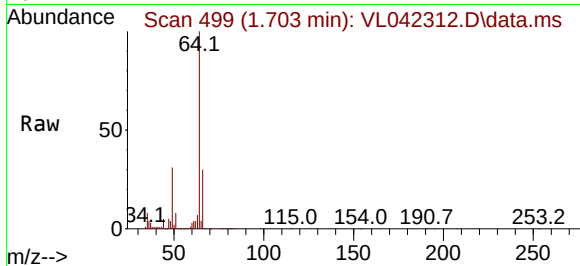
#7
Chloroethane
Concen: 9.427 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 64 Resp: 41940
Ion Ratio Lower Upper
64 100
66 30.1 25.2 37.8

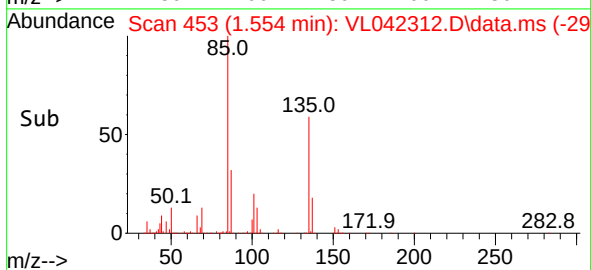
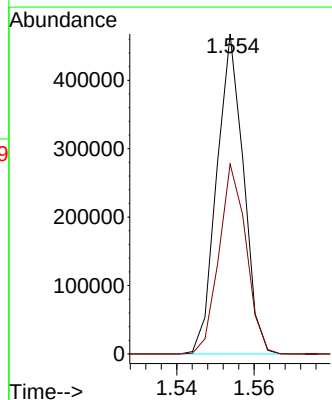
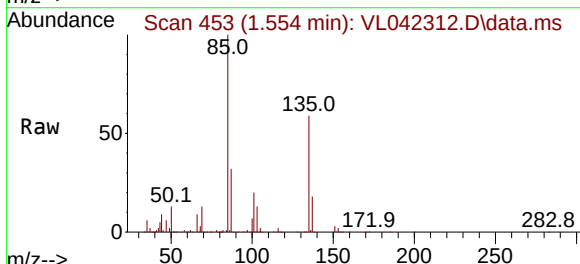
Manual Integrations
APPROVED

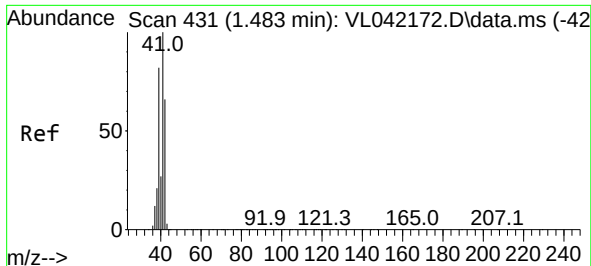
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#8
Dichlorotetrafluoroethane
Concen: 9.719 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

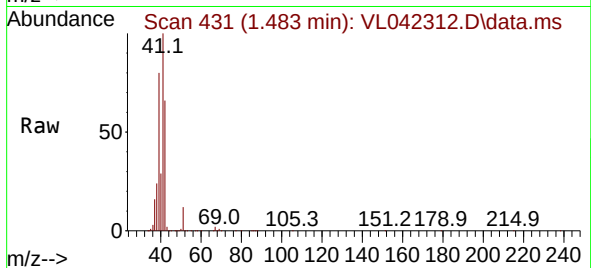
Tgt Ion: 85 Resp: 224489
Ion Ratio Lower Upper
85 100
135 60.5 52.4 78.6





#9
Propene
Concen: 9.266 ppbv
RT: 1.483 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

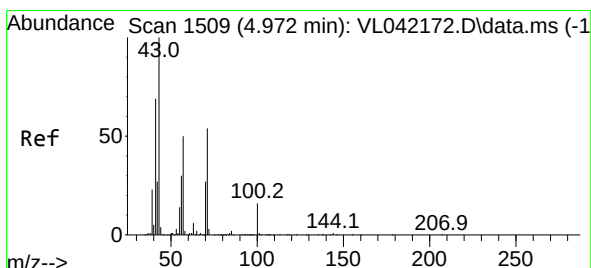
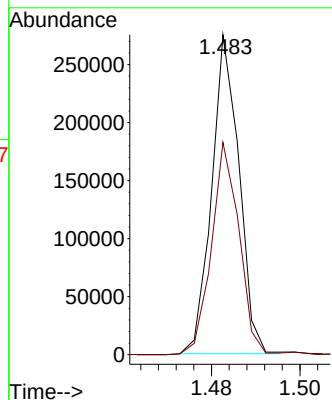
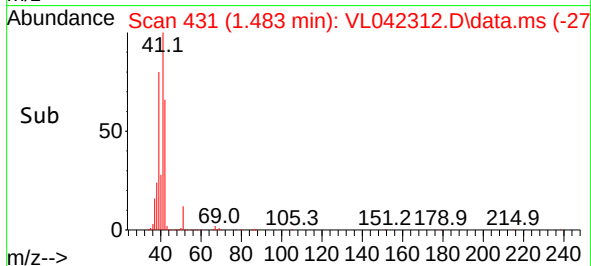
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion: 41 Resp: 11767
Ion Ratio Lower Upper
41 100
42 68.3 55.4 83.2

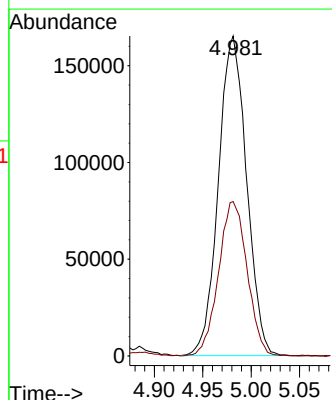
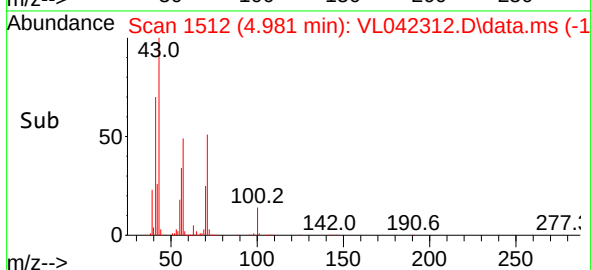
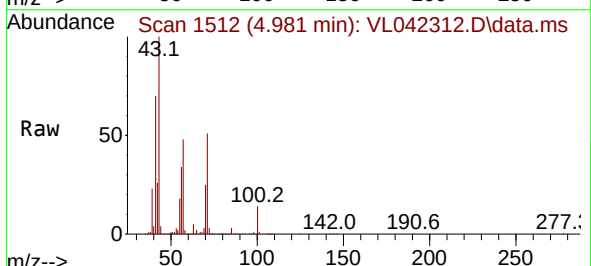
Manual Integrations
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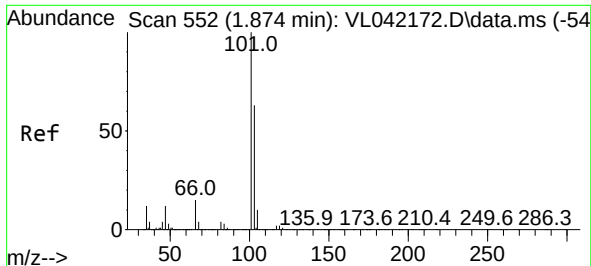
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#10
Heptane
Concen: 9.908 ppbv
RT: 4.981 min Scan# 1512
Delta R.T. 0.009 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

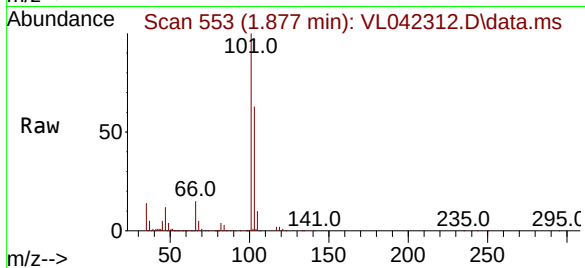
Tgt Ion: 43 Resp: 334707
Ion Ratio Lower Upper
43 100
57 49.0 39.4 59.2





#11
Trichlorofluoromethane
Concen: 9.477 ppbv
RT: 1.877 min Scan# 511
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

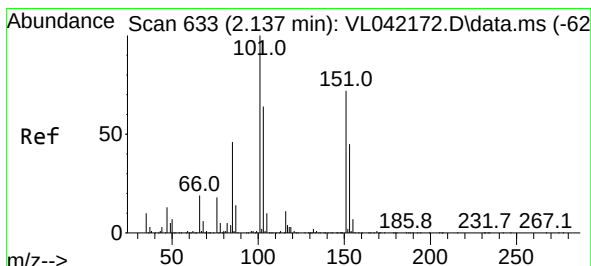
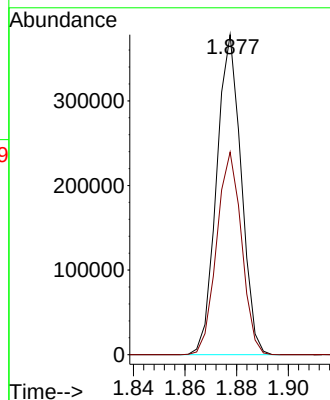
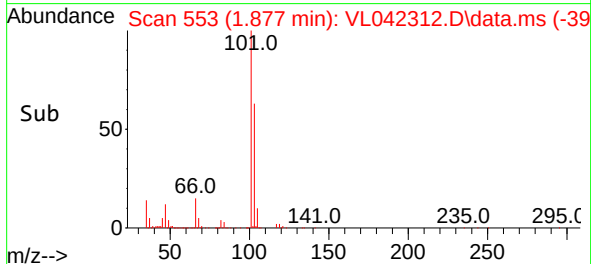
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



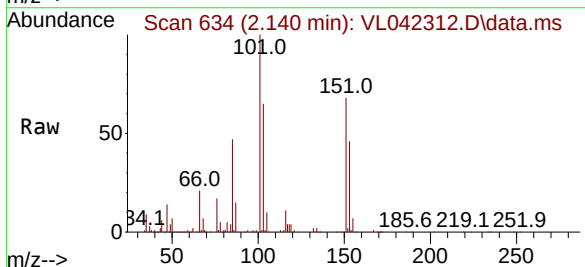
Tgt Ion:101 Resp: 25012
Ion Ratio Lower Upper
101 100
103 63.3 50.2 75.2

Manual Integrations
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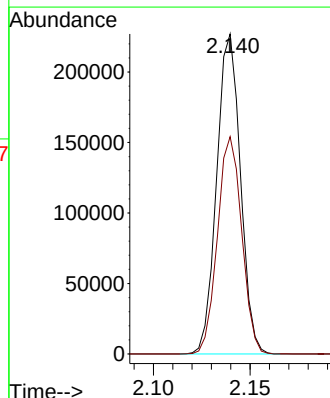
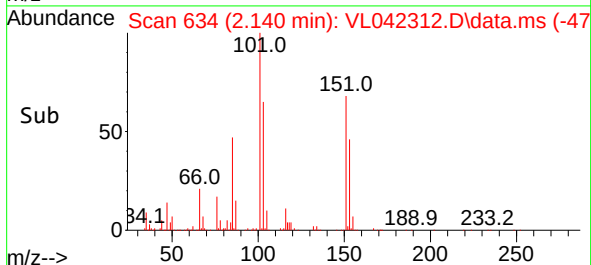
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

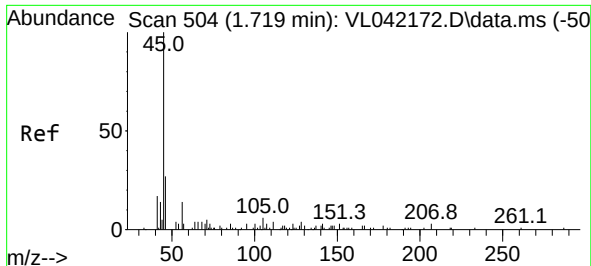


#12
1,1,2-Trichlorotrifluoroethane
Concen: 8.920 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50



Tgt Ion:101 Resp: 193510
Ion Ratio Lower Upper
101 100
151 69.2 57.1 85.7





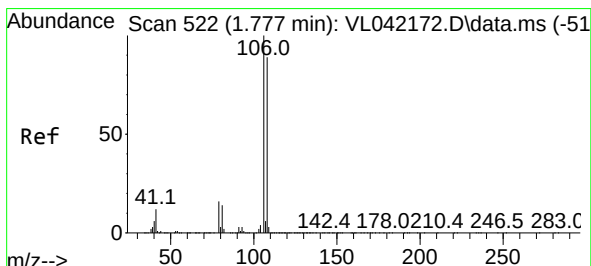
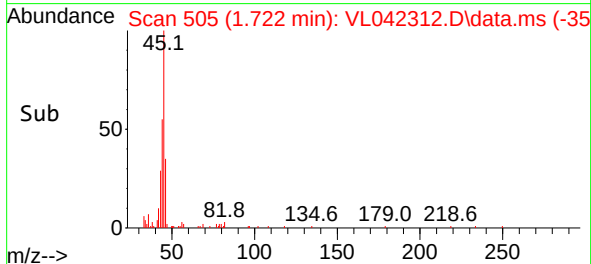
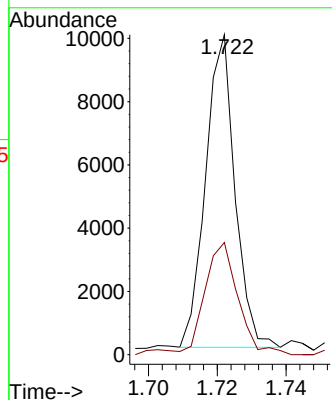
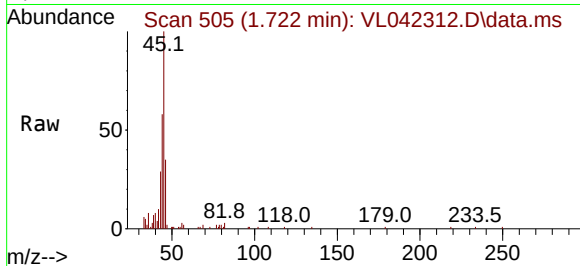
#13
Ethanol
Concen: 4.872 ppbv
RT: 1.722 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 45 Resp: 5849
Ion Ratio Lower Upper
45 100
46 43.0 20.2 80.8

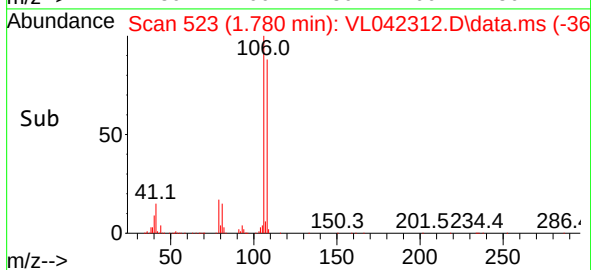
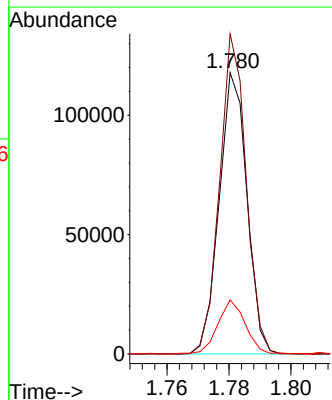
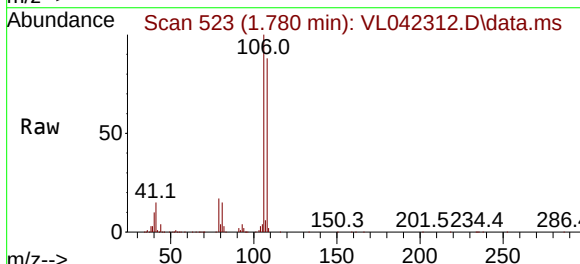
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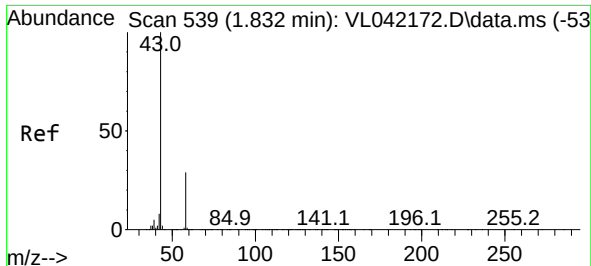
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#14
Bromoethene
Concen: 8.820 ppbv
RT: 1.780 min Scan# 523
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion:108 Resp: 73294
Ion Ratio Lower Upper
108 100
106 108.4 86.8 130.2
79 19.5 15.0 22.6





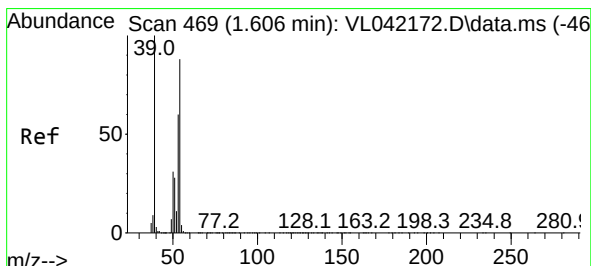
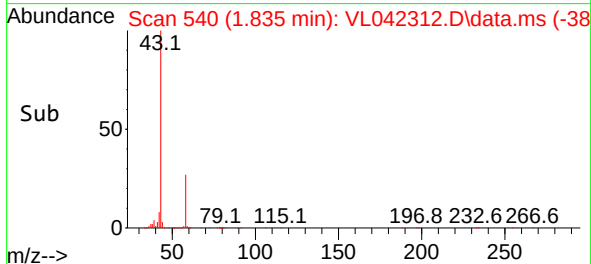
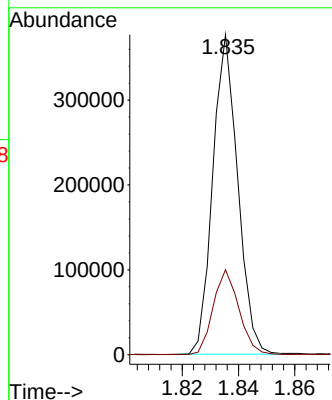
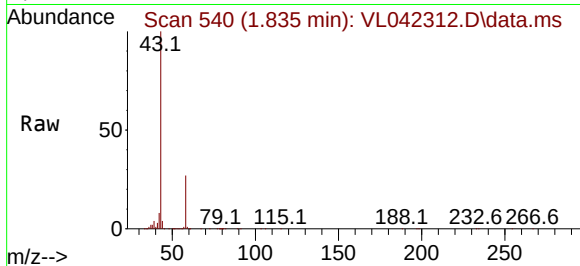
#15
Acetone
Concen: 9.019 ppbv
RT: 1.835 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 43 Resp: 231724
Ion Ratio Lower Upper
43 100
58 27.5 23.2 34.8

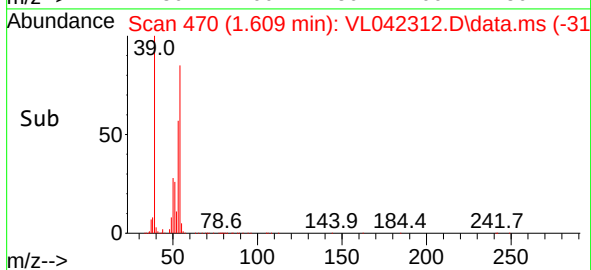
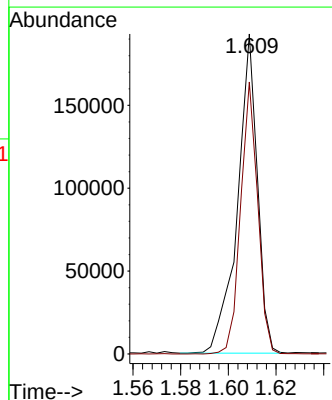
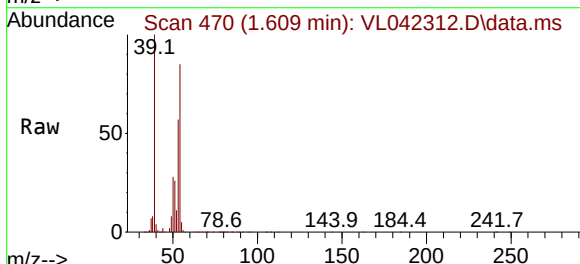
Manual Integrations
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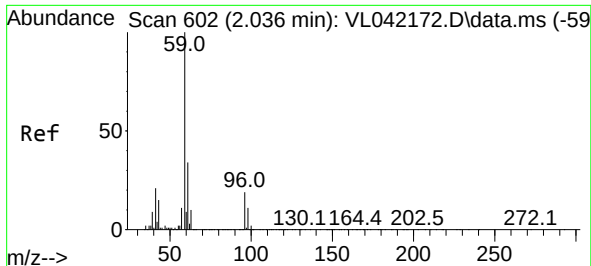
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#16
1,3-Butadiene
Concen: 8.950 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 39 Resp: 112297
Ion Ratio Lower Upper
39 100
54 73.5 60.7 91.1





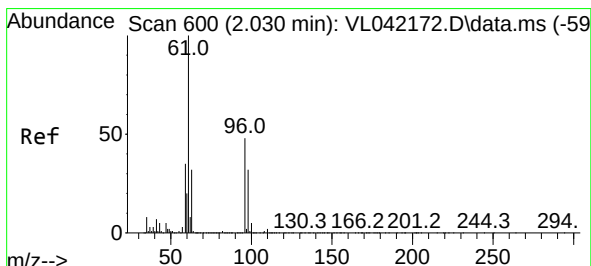
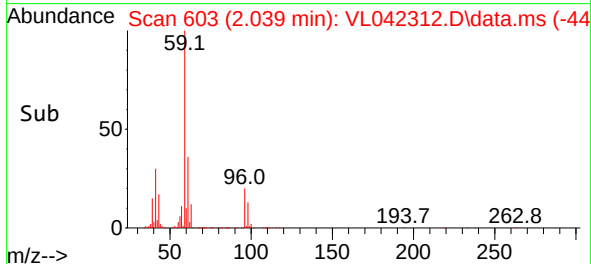
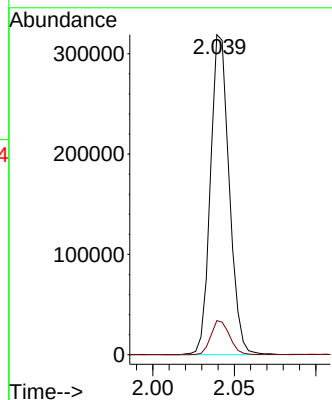
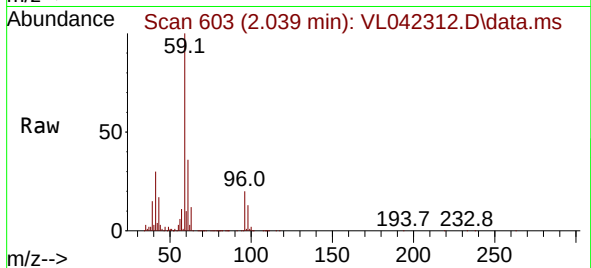
#17
tert-Butyl alcohol
Concen: 7.987 ppbv
RT: 2.039 min Scan# 601
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 59 Resp: 25557
Ion Ratio Lower Upper
59 100
57 10.6 8.9 13.3

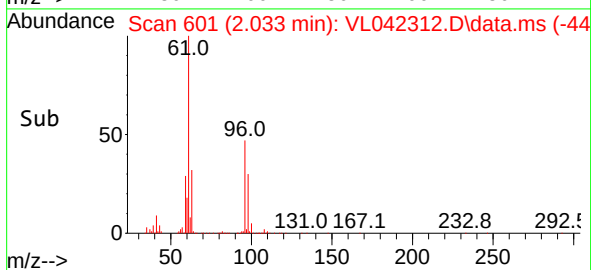
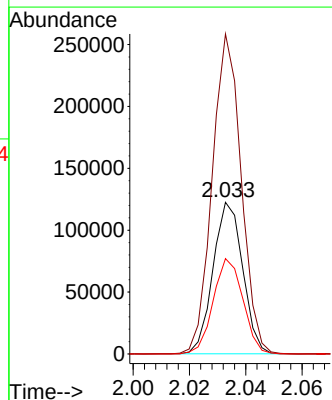
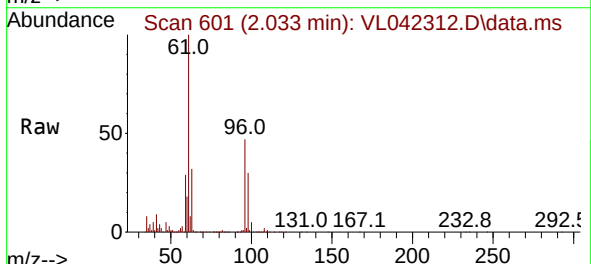
Manual Integrations
APPROVED

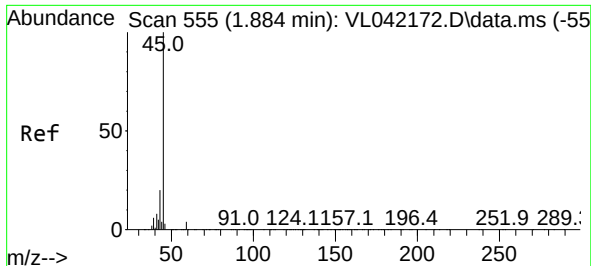
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#18
1,1-Dichloroethene
Concen: 8.827 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 96 Resp: 89512
Ion Ratio Lower Upper
96 100
61 210.8 167.6 251.4
98 62.9 53.5 80.3





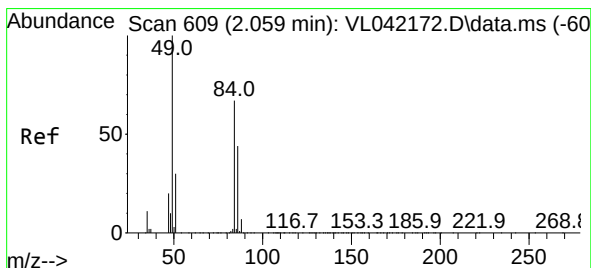
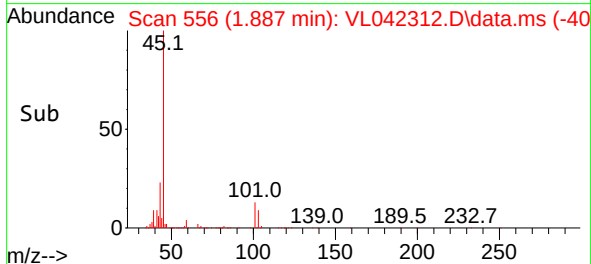
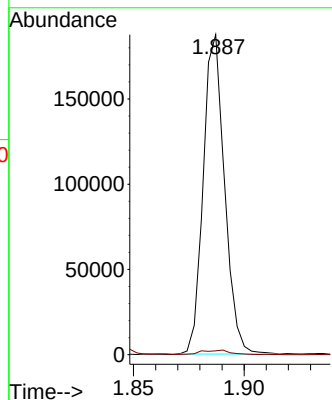
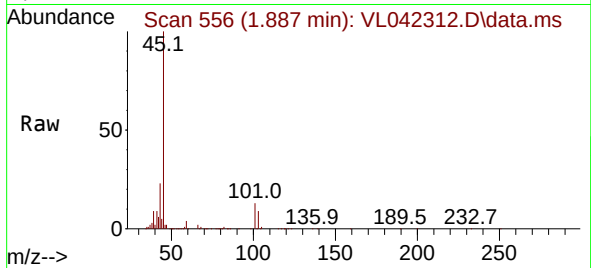
#19
Isopropyl Alcohol
Concen: 8.639 ppbv
RT: 1.887 min Scan# 511
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 45 Resp: 12523
Ion Ratio Lower Upper
45 100
58 51.2 36.9 55.3

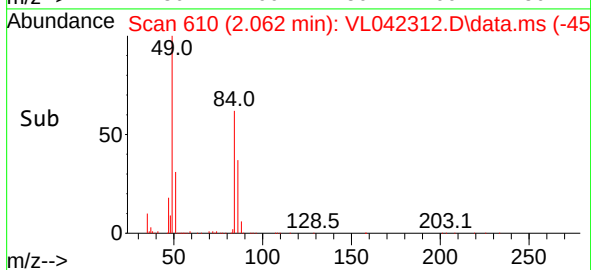
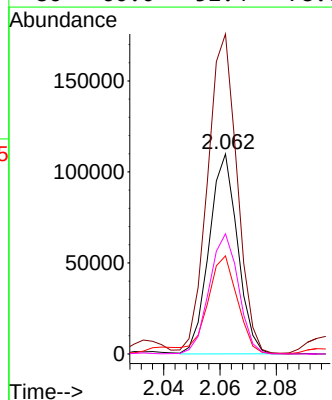
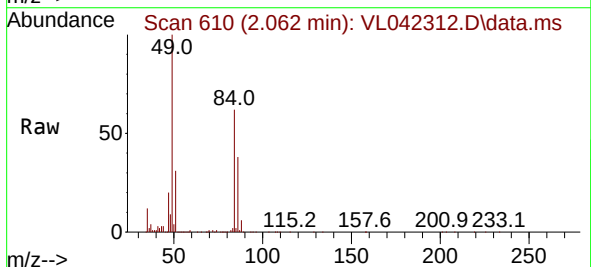
Manual Integrations
APPROVED

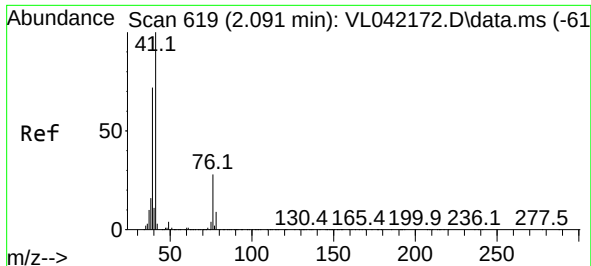
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#20
Methylene Chloride
Concen: 8.044 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

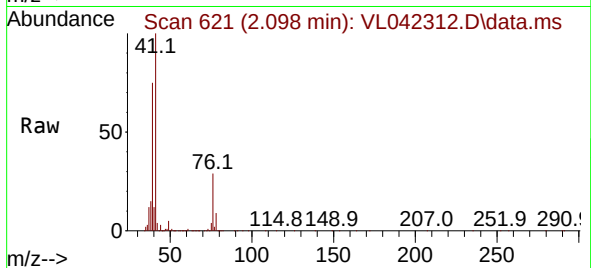
Tgt Ion: 84 Resp: 76968
Ion Ratio Lower Upper
84 100
49 159.9 120.2 180.4
51 48.8 37.4 56.0
86 60.0 52.4 78.6





#21
Allyl Chloride
Concen: 8.996 ppbv
RT: 2.098 min Scan# 619
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

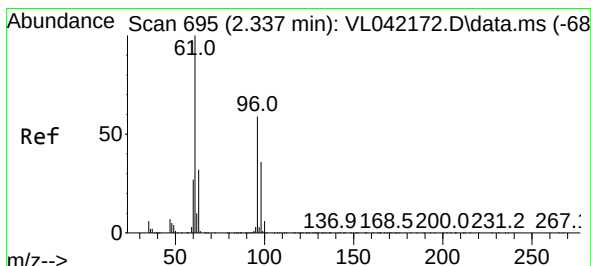
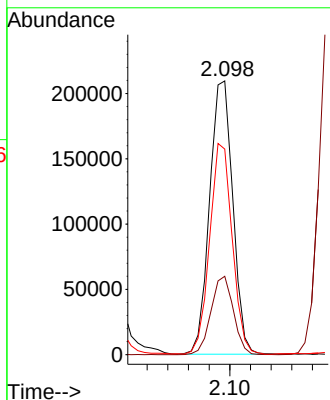
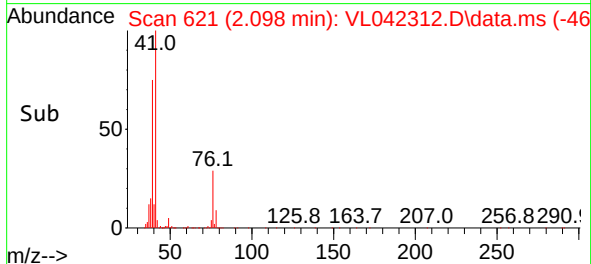
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



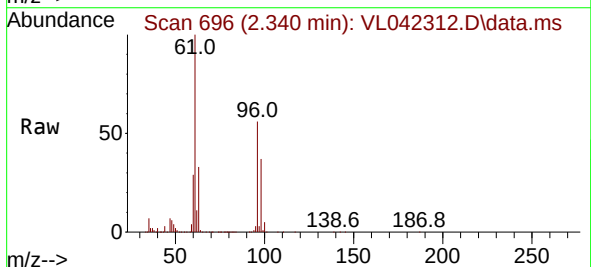
Tgt Ion: 41 Resp: 162998
Ion Ratio Lower Upper
41 100
76 27.7 24.1 36.1
39 74.5 61.1 91.7

Manual Integrations
APPROVED

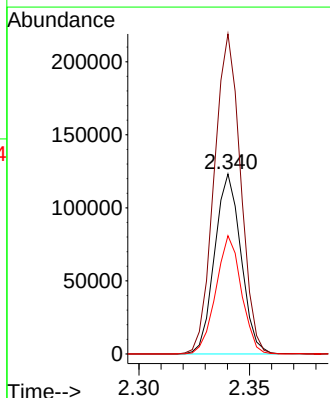
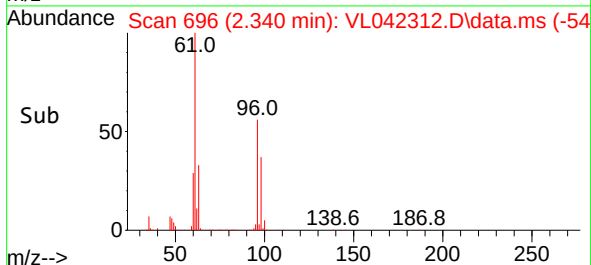
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

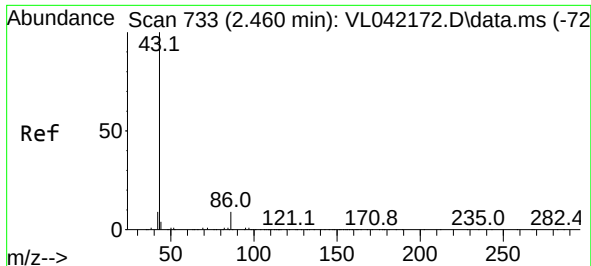


#22
trans-1,2-Dichloroethene
Concen: 8.700 ppbv
RT: 2.340 min Scan# 696
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50



Tgt Ion: 96 Resp: 101974
Ion Ratio Lower Upper
96 100
61 177.7 136.6 204.8
98 65.6 49.4 74.2





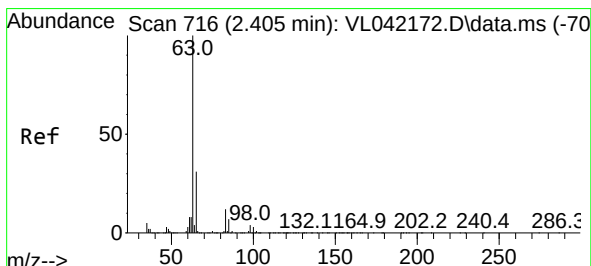
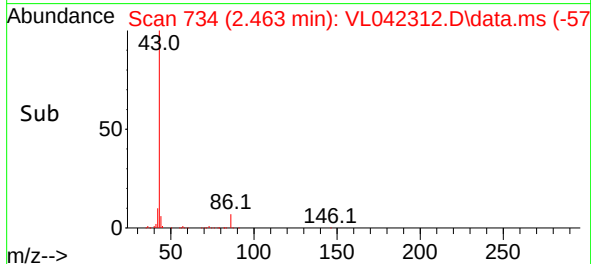
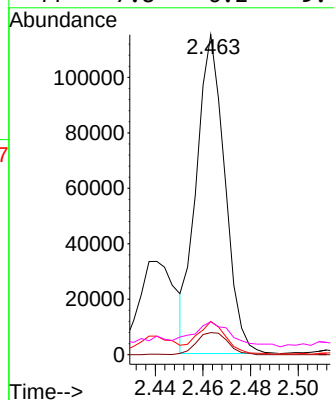
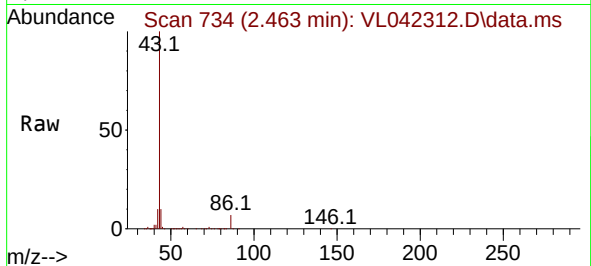
#23
Vinyl Acetate
Concen: 8.557 ppbv
RT: 2.463 min Scan# 716
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:	43	Resp:	9515
Ion	Ratio	Lower	Upper
43	100		
86	6.9	5.5	8.3
42	10.1	8.6	13.0
44	7.8	6.2	9.4

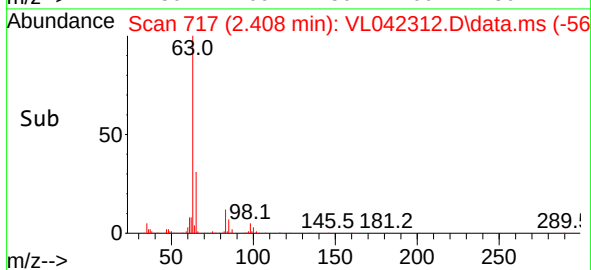
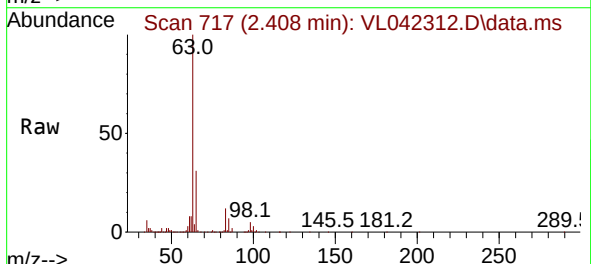
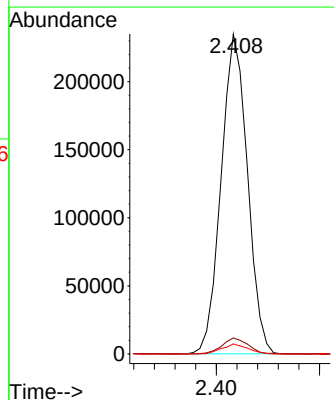
Manual Integrations
APPROVED

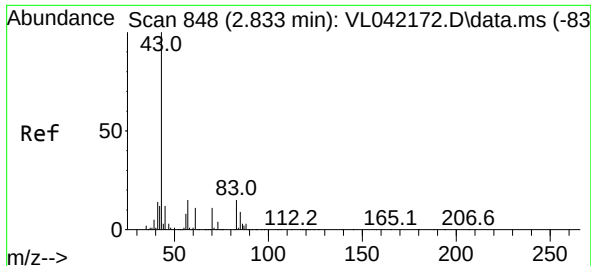
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#24
1,1-Dichloroethane
Concen: 9.567 ppbv
RT: 2.408 min Scan# 717
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

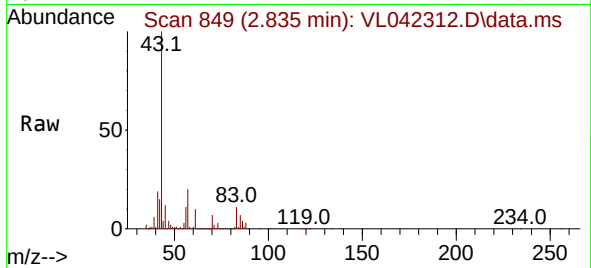
Tgt Ion:	63	Resp:	207862
Ion	Ratio	Lower	Upper
63	100		
98	5.0	2.3	6.8
100	3.2	1.6	4.7





#25
Ethyl Acetate
Concen: 10.182 ppbv
RT: 2.835 min Scan# 84
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

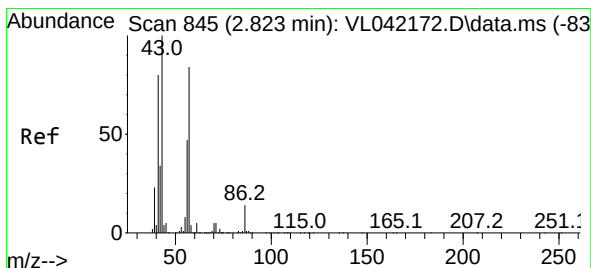
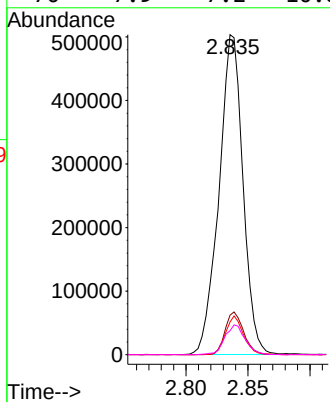
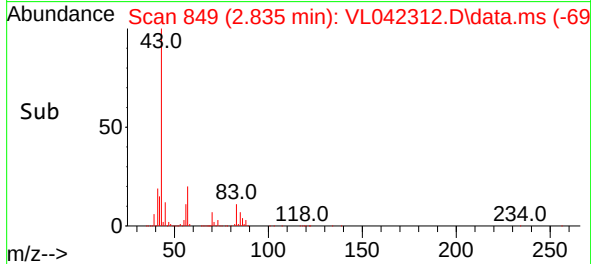
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



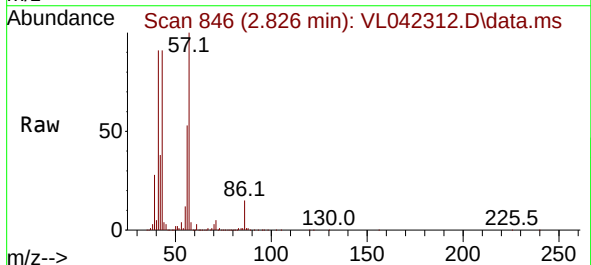
Tgt Ion: 43 Resp: 678920
Ion Ratio Lower Upper
43 100
45 10.5 8.2 12.2
61 9.1 7.3 10.9
70 7.9 7.2 10.8

Manual Integrations
APPROVED

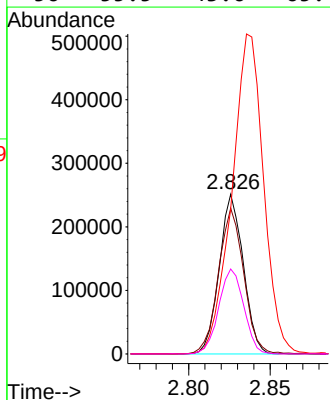
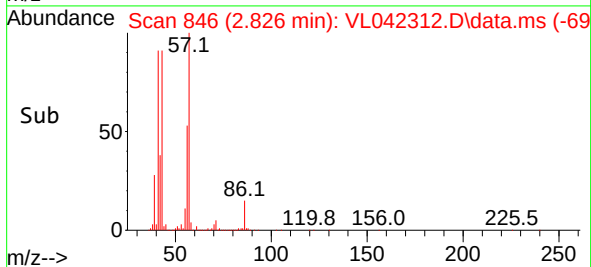
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

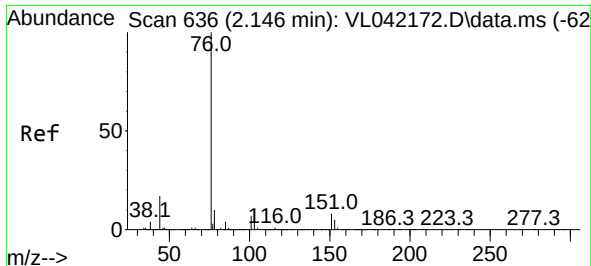


#26
Hexane
Concen: 9.973 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50



Tgt Ion: 57 Resp: 256866
Ion Ratio Lower Upper
57 100
41 96.5 76.6 114.8
43 265.7 207.8 311.8
56 55.5 43.6 65.4





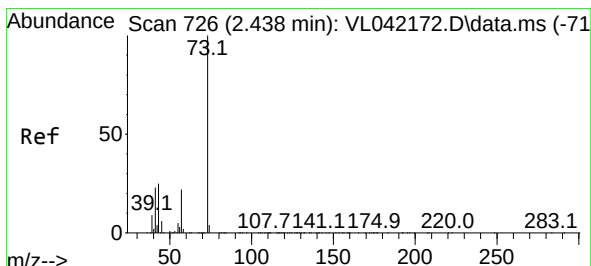
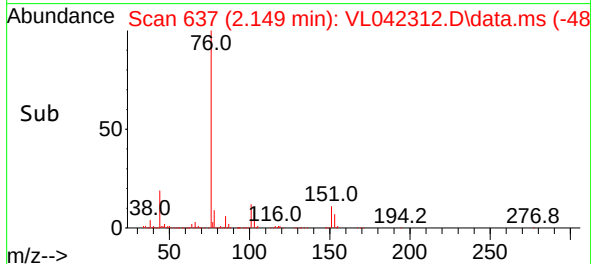
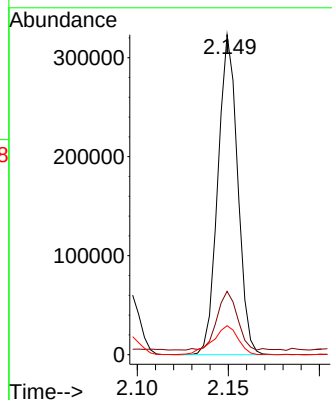
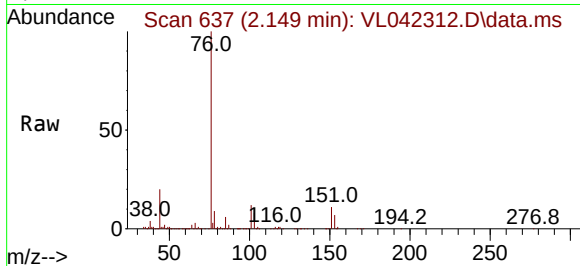
#27
Carbon Disulfide
Concen: 8.812 ppbv
RT: 2.149 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 76 Resp: 24336
Ion Ratio Lower Upper
76 100
44 19.5 14.7 22.1
78 11.6 9.3 13.9

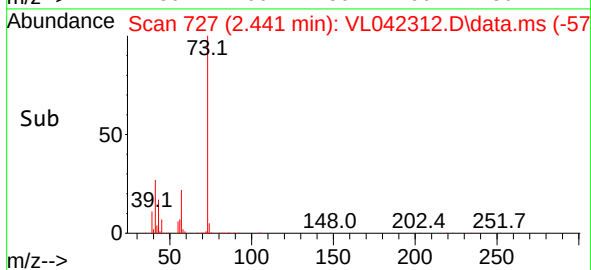
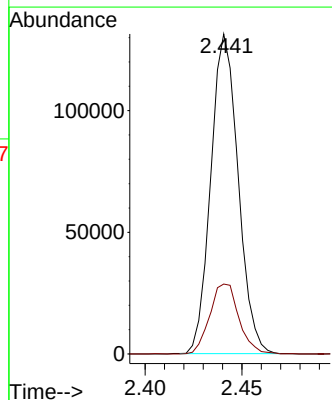
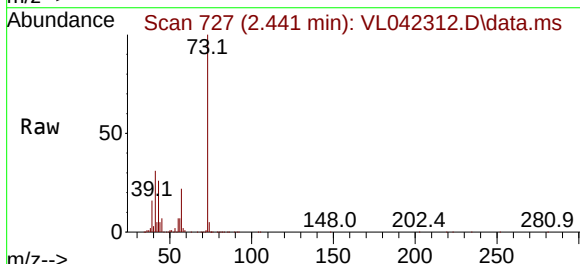
Manual Integrations
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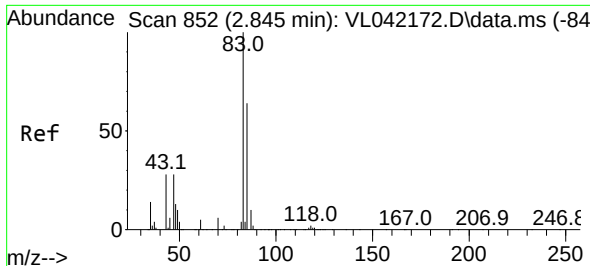
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#28
Methyl tert-Butyl Ether
Concen: 8.053 ppbv
RT: 2.441 min Scan# 727
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 73 Resp: 129141
Ion Ratio Lower Upper
73 100
57 23.4 20.5 30.7





#29

Chloroform

Concen: 10.443 ppbv

RT: 2.848 min Scan# 81

Delta R.T. 0.003 min

Lab File: VL042312.D

Acq: 11 Apr 2025 09:50

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 83 Resp: 393638

Ion Ratio Lower Upper

83 100

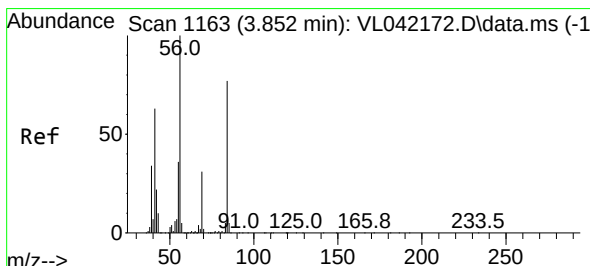
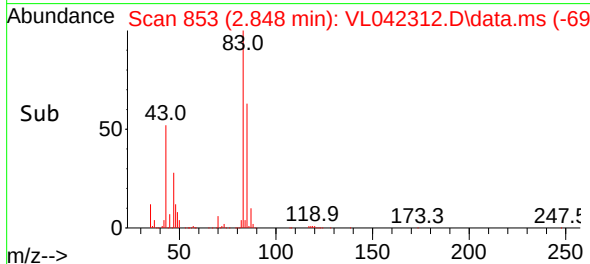
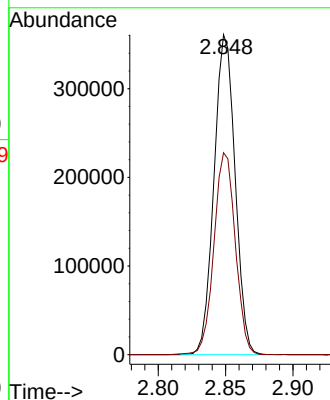
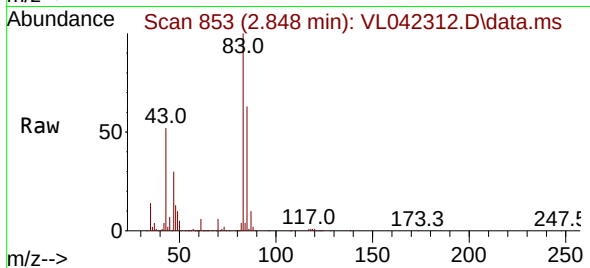
85 63.1 51.4 77.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/16/2025

Supervised By :Mahesh Dadoda 04/17/2025



#30

Cyclohexane

Concen: 9.100 ppbv

RT: 3.858 min Scan# 1165

Delta R.T. 0.006 min

Lab File: VL042312.D

Acq: 11 Apr 2025 09:50

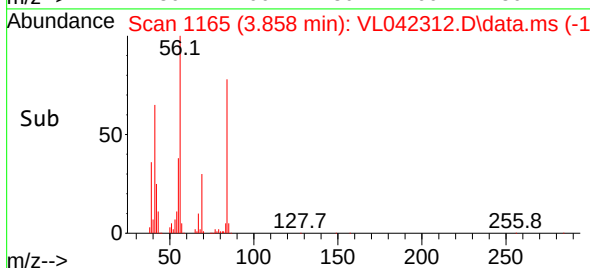
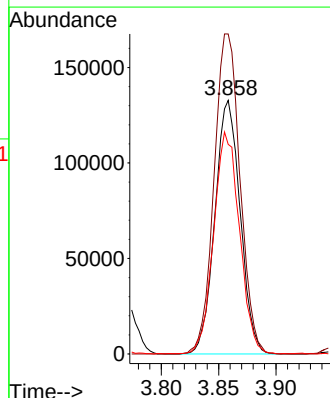
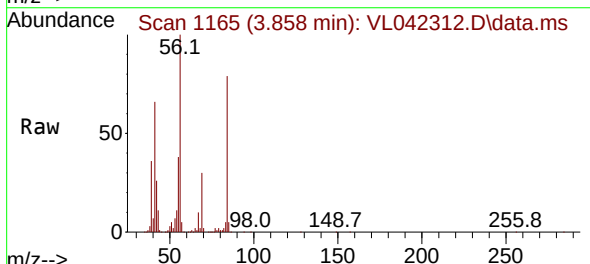
Tgt Ion: 84 Resp: 203526

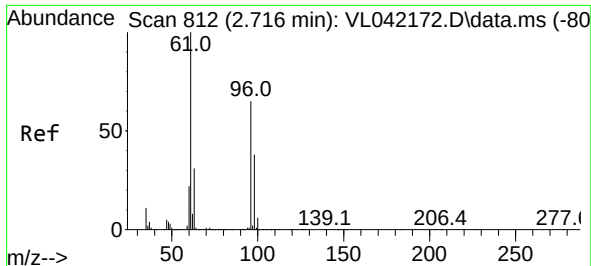
Ion Ratio Lower Upper

84 100

56 129.8 102.8 154.2

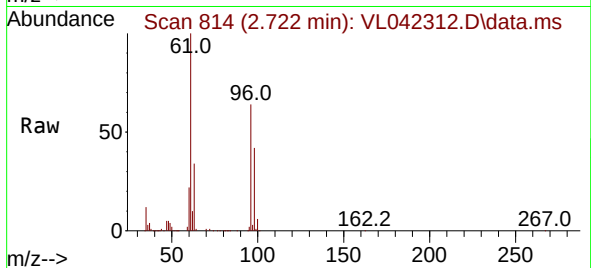
41 89.4 66.5 99.7





#31
 cis-1,2-Dichloroethene
 Concen: 9.454 ppbv
 RT: 2.722 min Scan# 812
 Delta R.T. 0.006 min
 Lab File: VL042312.D
 Acq: 11 Apr 2025 09:50

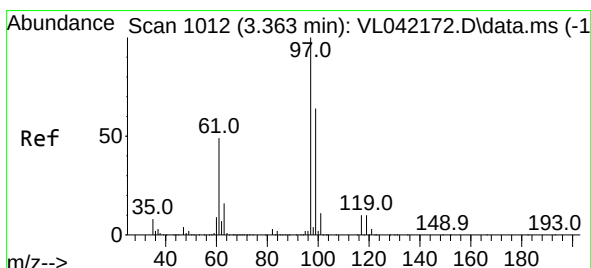
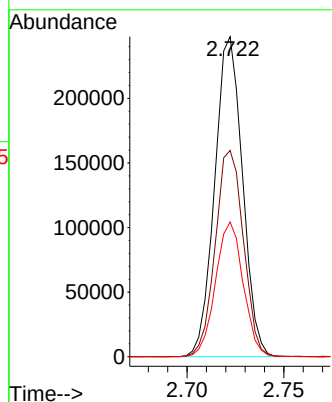
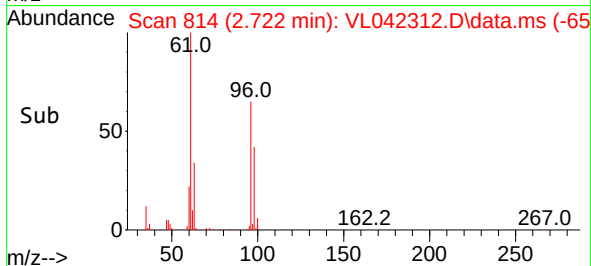
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



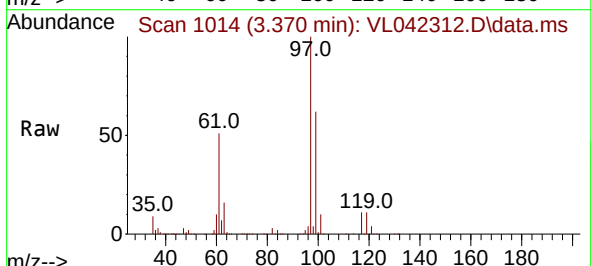
Tgt Ion: 61 Resp: 247194
 Ion Ratio Lower Upper
 61 100
 96 64.4 51.8 77.8
 98 42.0 30.6 46.0

Manual Integrations
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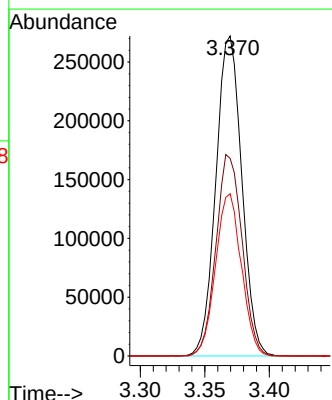
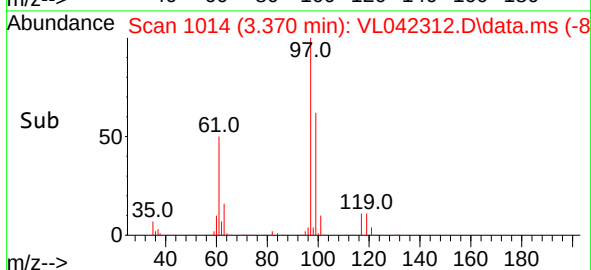
Reviewed By :Semsettin Yesilyurt 04/16/2025
 Supervised By :Mahesh Dadoda 04/17/2025

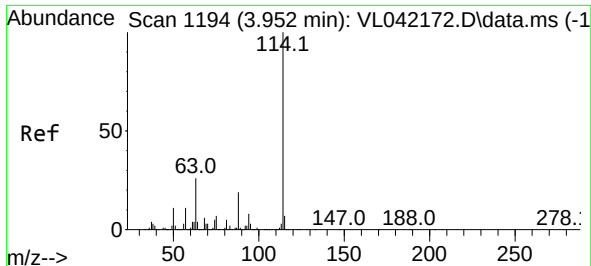


#32
 1,1,1-Trichloroethane
 Concen: 8.813 ppbv
 RT: 3.370 min Scan# 1014
 Delta R.T. 0.006 min
 Lab File: VL042312.D
 Acq: 11 Apr 2025 09:50



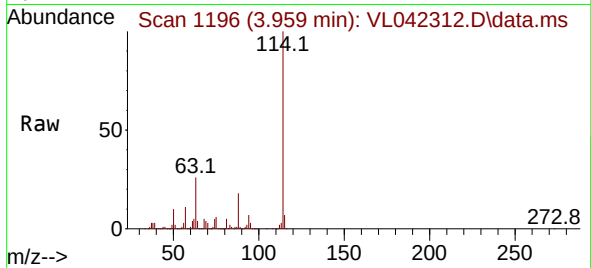
Tgt Ion: 97 Resp: 380312
 Ion Ratio Lower Upper
 97 100
 99 63.2 51.5 77.3
 61 50.6 38.7 58.1





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

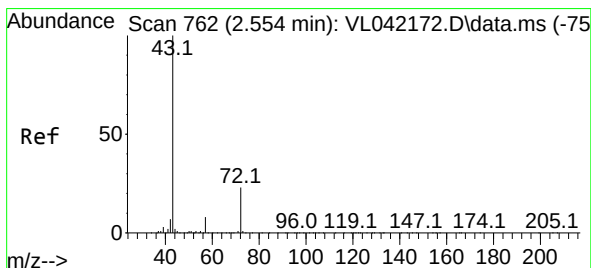
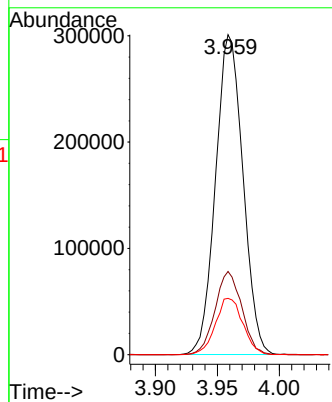
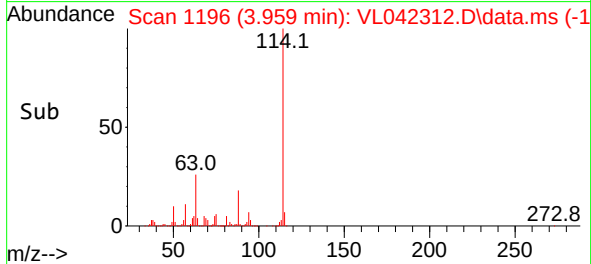
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



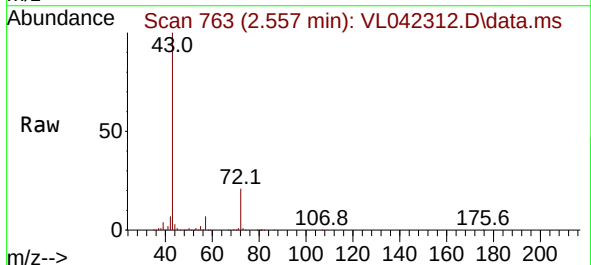
Tgt Ion:114 Resp: 463740
Ion Ratio Lower Upper
114 100
63 25.5 20.7 31.1
88 17.7 15.0 22.4

Manual Integrations
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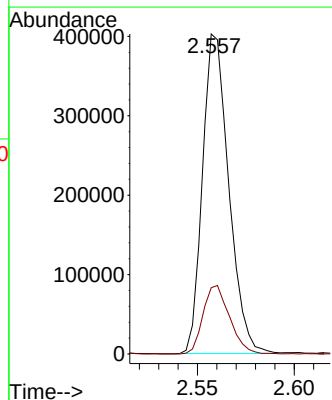
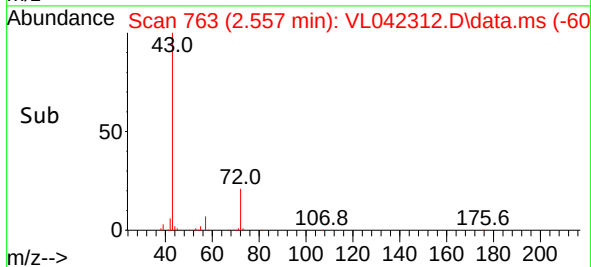
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

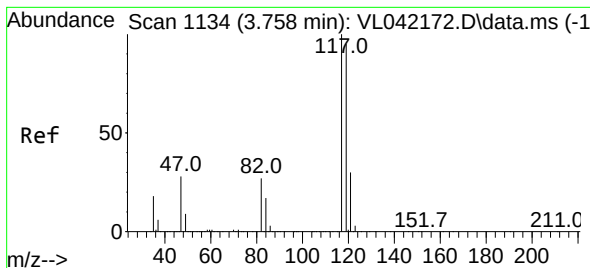


#34
2-Butanone
Concen: 11.321 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50



Tgt Ion: 43 Resp: 380682
Ion Ratio Lower Upper
43 100
72 21.7 18.2 27.2





#35

Carbon Tetrachloride

Concen: 10.769 ppbv

RT: 3.764 min Scan# 1134

Delta R.T. 0.006 min

Lab File: VL042312.D

Acq: 11 Apr 2025 09:50

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 117 Resp: 390140

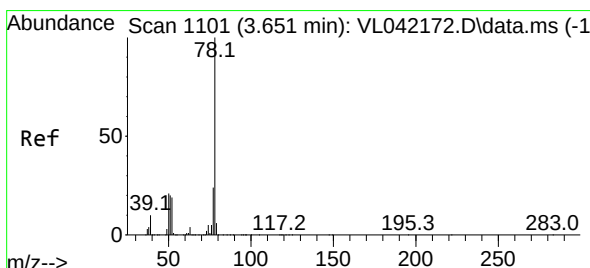
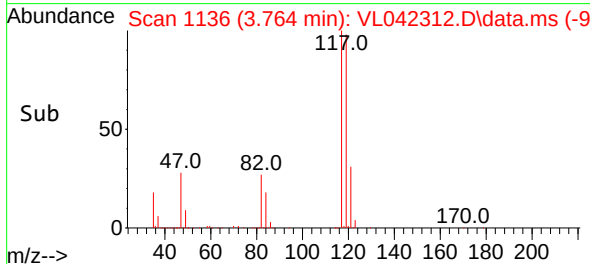
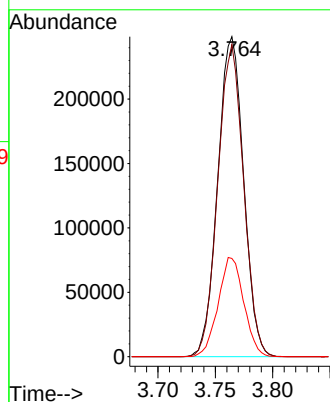
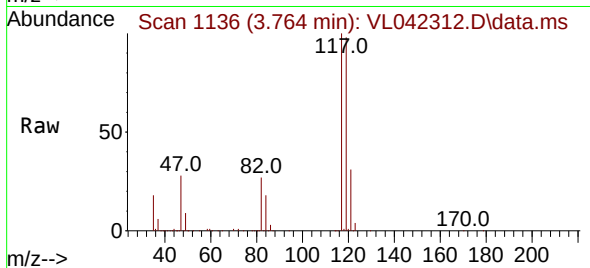
Ion	Ratio	Lower	Upper
117	100		
119	97.6	76.2	114.2
121	30.7	24.2	36.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/16/2025

Supervised By :Mahesh Dadoda 04/17/2025



#36

Benzene

Concen: 11.012 ppbv

RT: 3.658 min Scan# 1103

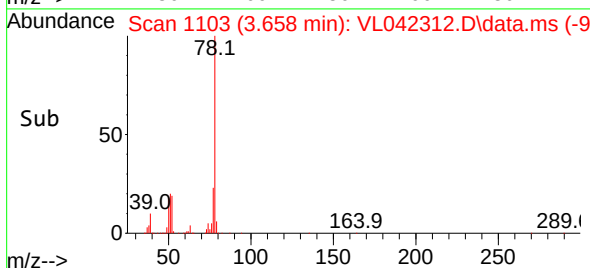
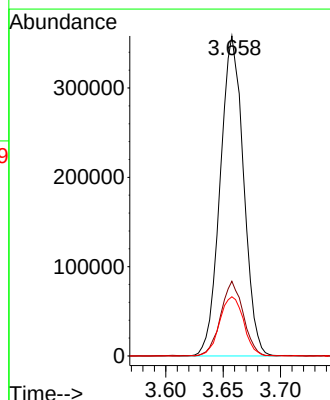
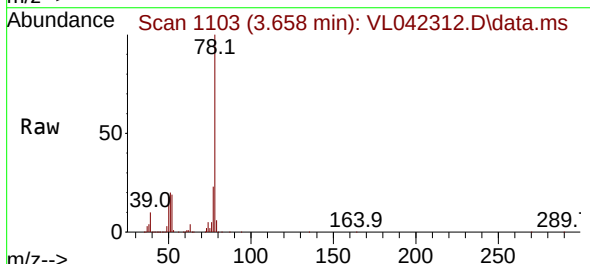
Delta R.T. 0.006 min

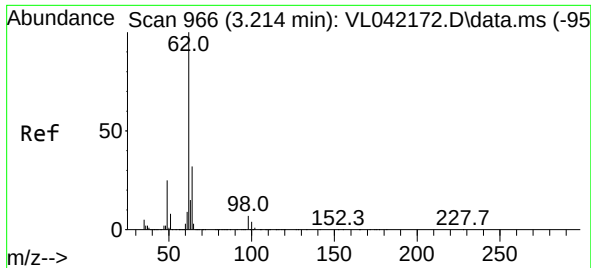
Lab File: VL042312.D

Acq: 11 Apr 2025 09:50

Tgt Ion: 78 Resp: 506278

Ion	Ratio	Lower	Upper
78	100		
77	23.3	19.1	28.7
50	18.5	16.6	24.8





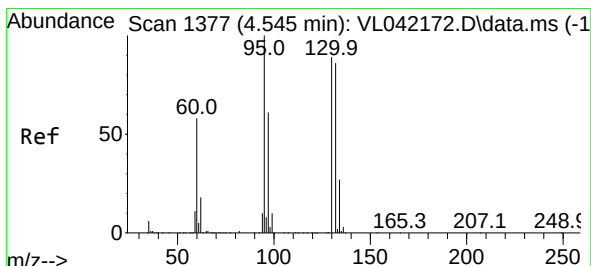
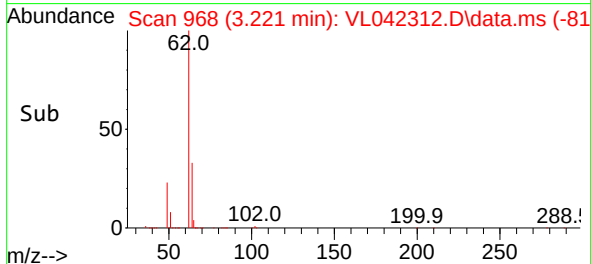
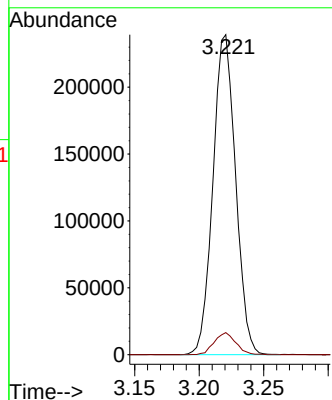
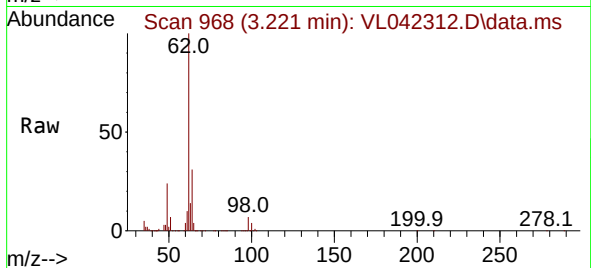
#37
1,2-Dichloroethane
Concen: 11.101 ppbv
RT: 3.221 min Scan# 968
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 62 Resp: 29218
Ion Ratio Lower Upper
62 100
98 6.6 5.4 8.2

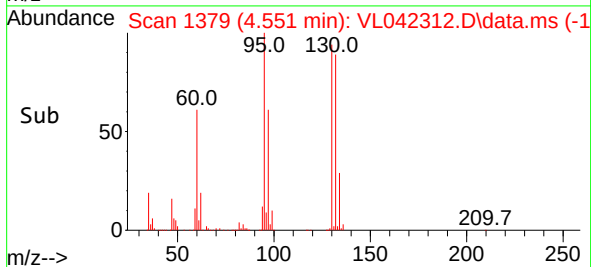
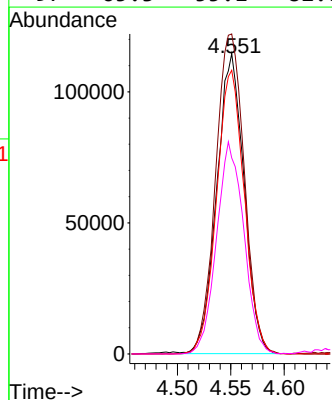
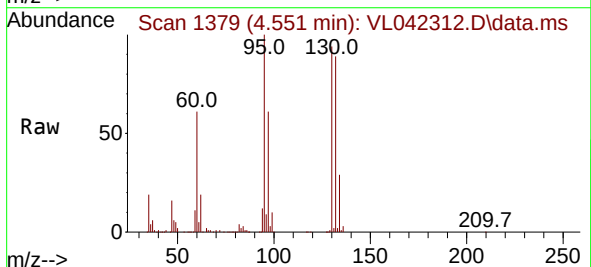
Manual Integrations
APPROVED

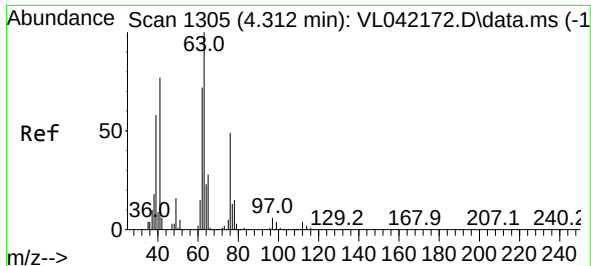
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#38
Trichloroethene
Concen: 10.591 ppbv
RT: 4.551 min Scan# 1379
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion:130 Resp: 203156
Ion Ratio Lower Upper
130 100
95 106.6 89.8 134.8
132 94.5 77.4 116.2
97 65.3 55.1 82.7





#39

1,2-Dichloropropane

Concen: 11.079 ppbv

RT: 4.315 min Scan# 1305

Delta R.T. 0.003 min

Lab File: VL042312.D

Acq: 11 Apr 2025 09:50

Instrument :

MSVOA_L

ClientSampleId :

VSTDC010

Tgt Ion: 63 Resp: 18549

Ion Ratio Lower Upper

63 100

41 82.2 61.7 92.5

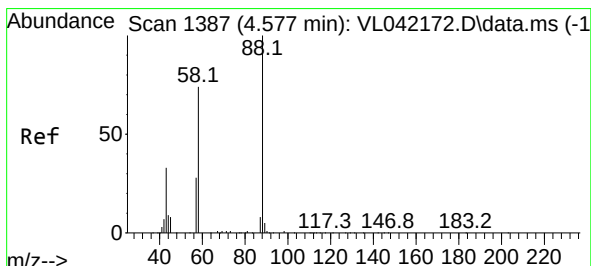
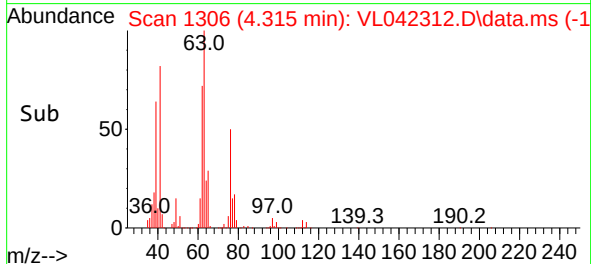
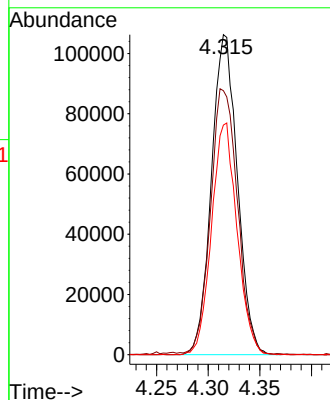
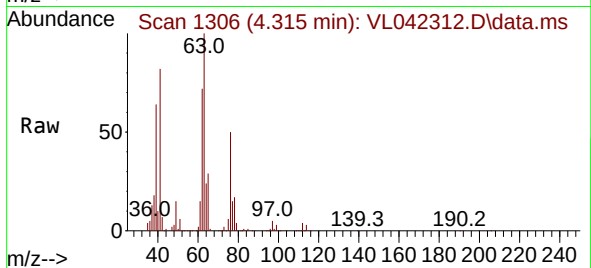
62 71.8 57.6 86.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/16/2025

Supervised By :Mahesh Dadoda 04/17/2025



#40

1,4-Dioxane

Concen: 9.270 ppbv

RT: 4.583 min Scan# 1389

Delta R.T. 0.006 min

Lab File: VL042312.D

Acq: 11 Apr 2025 09:50

Tgt Ion: 88 Resp: 82376

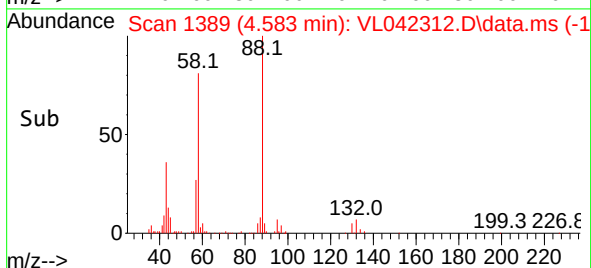
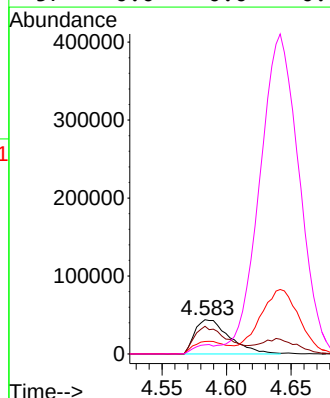
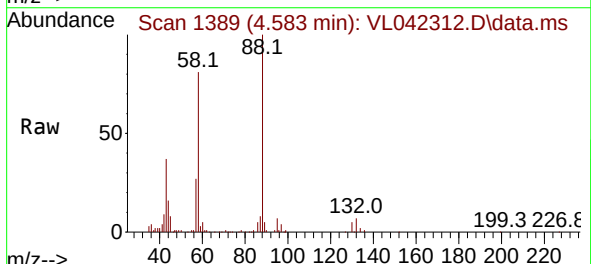
Ion Ratio Lower Upper

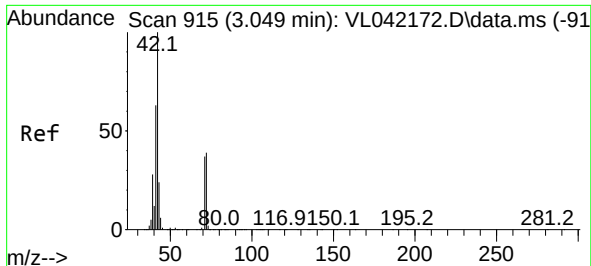
88 100

58 79.1 62.7 94.1

43 30.6 23.0 34.4

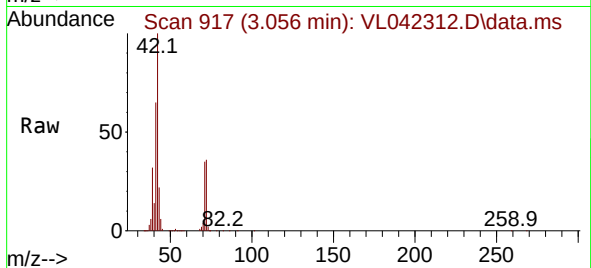
57 0.0 0.0 0.0





#41
Tetrahydrofuran
Concen: 11.188 ppbv
RT: 3.056 min Scan# 915
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

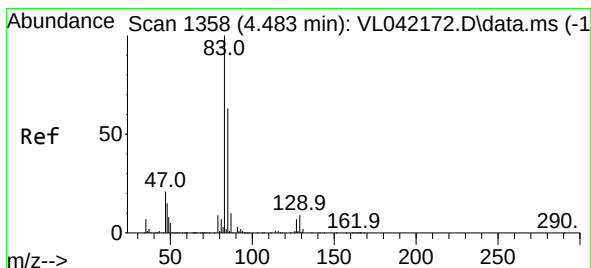
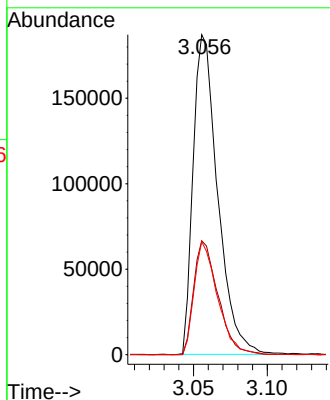
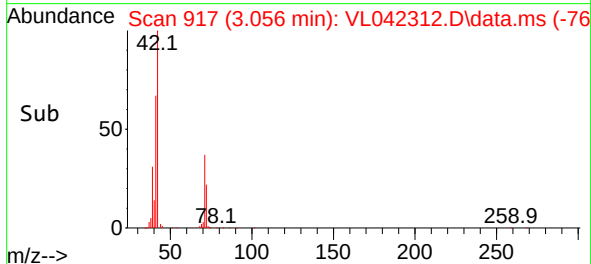
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



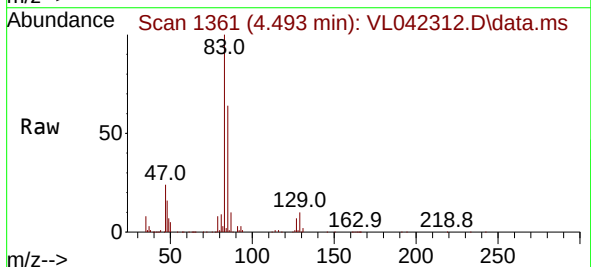
Tgt Ion: 42 Resp: 216640
Ion Ratio Lower Upper
42 100
72 35.3 31.4 47.0
71 33.8 30.2 45.4

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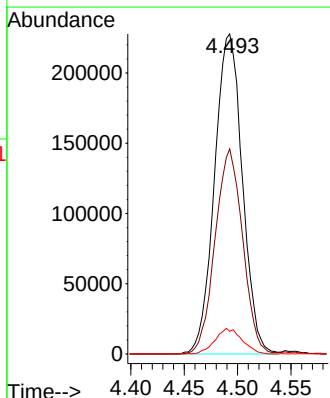
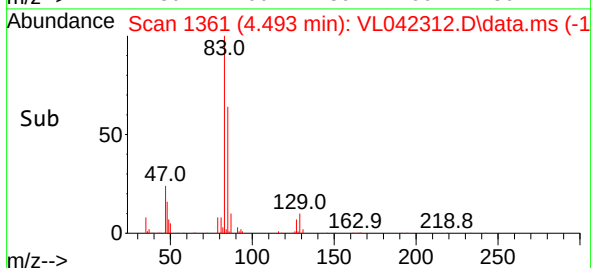
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

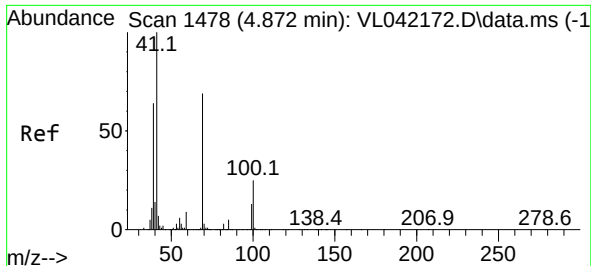


#42
Bromodichloromethane
Concen: 11.389 ppbv
RT: 4.493 min Scan# 1361
Delta R.T. 0.009 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50



Tgt Ion: 83 Resp: 413250
Ion Ratio Lower Upper
83 100
85 64.1 50.5 75.7
127 7.1 5.9 8.9





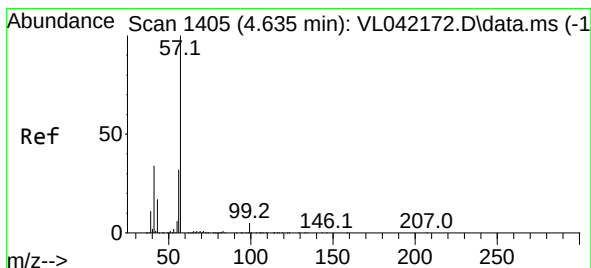
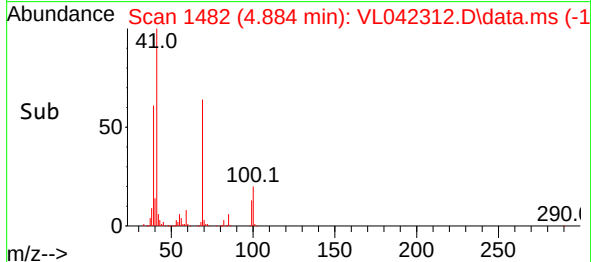
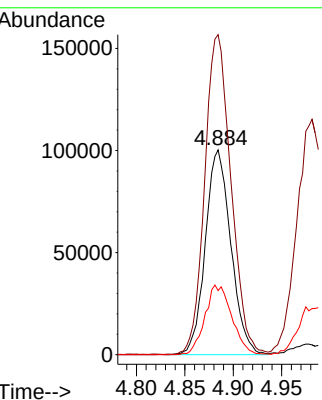
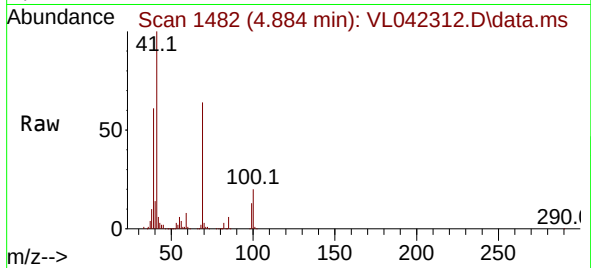
#43
Methyl Methacrylate
Concen: 9.478 ppbv
RT: 4.884 min Scan# 1478
Delta R.T. 0.013 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 69 Resp: 184472
Ion Ratio Lower Upper
69 100
41 160.3 123.8 185.6
100 35.6 28.4 42.6

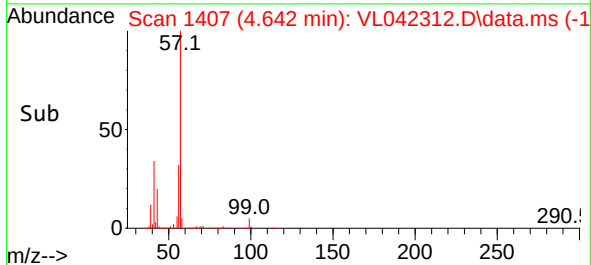
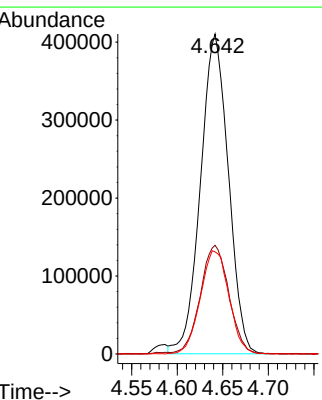
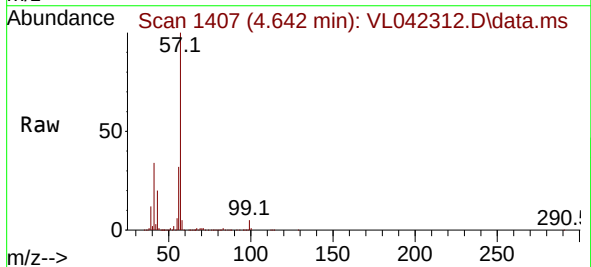
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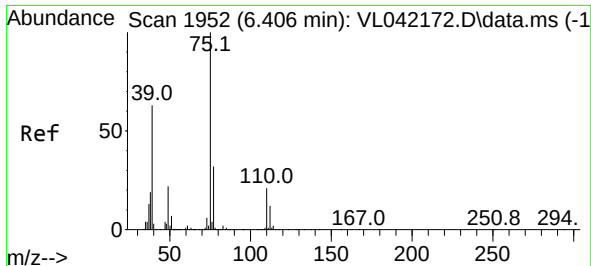
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#44
2,2,4-Trimethylpentane
Concen: 11.235 ppbv
RT: 4.642 min Scan# 1407
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

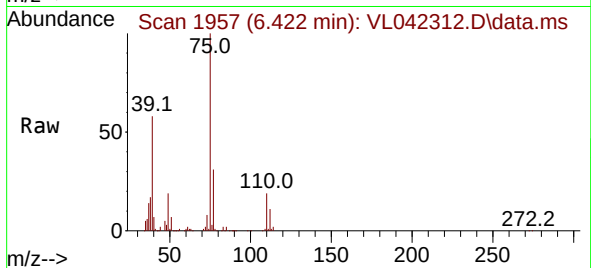
Tgt Ion: 57 Resp: 872871
Ion Ratio Lower Upper
57 100
41 35.1 26.8 40.2
56 33.1 25.6 38.4





#45
t-1,3-Dichloropropene
Concen: 8.467 ppbv
RT: 6.422 min Scan# 1952
Delta R.T. 0.016 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

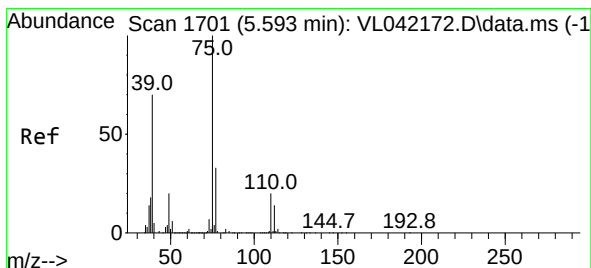
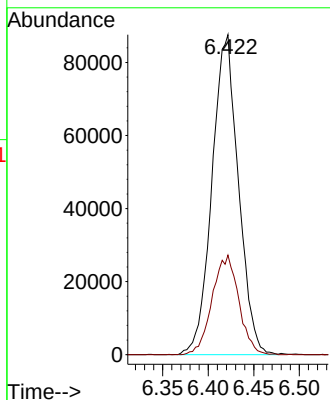
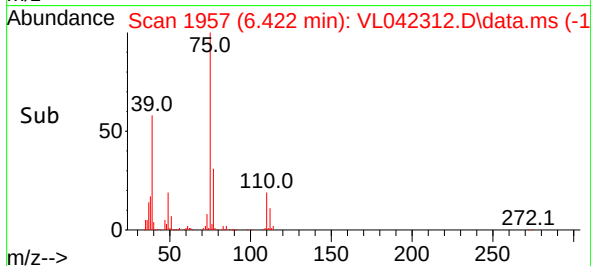
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion: 75 Resp: 176804
Ion Ratio Lower Upper
75 100
77 31.1 26.0 39.0

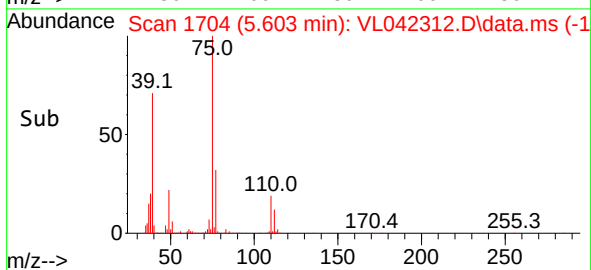
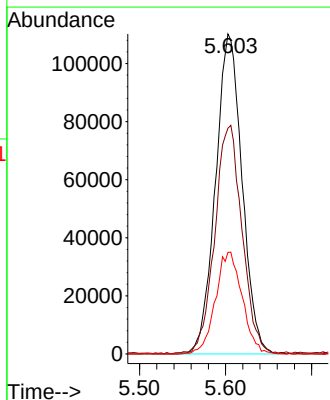
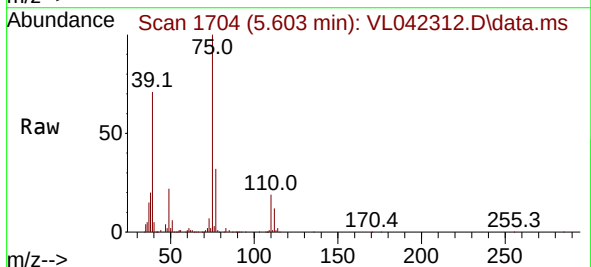
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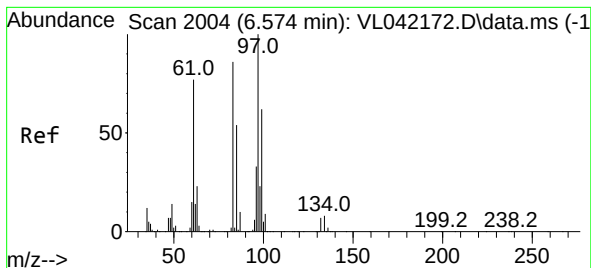
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#46
cis-1,3-Dichloropropene
Concen: 9.222 ppbv
RT: 5.603 min Scan# 1704
Delta R.T. 0.009 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 75 Resp: 236039
Ion Ratio Lower Upper
75 100
39 70.2 55.8 83.6
77 31.7 26.0 39.0





#47

1,1,2-Trichloroethane

Concen: 11.463 ppbv

RT: 6.583 min Scan# 2004

Delta R.T. 0.009 min

Lab File: VL042312.D

Acq: 11 Apr 2025 09:50

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 97 Resp: 20289

Ion Ratio Lower Upper

97 100

83 87.5 69.2 103.8

85 56.7 43.1 64.7

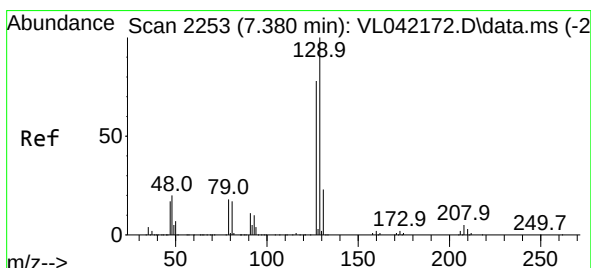
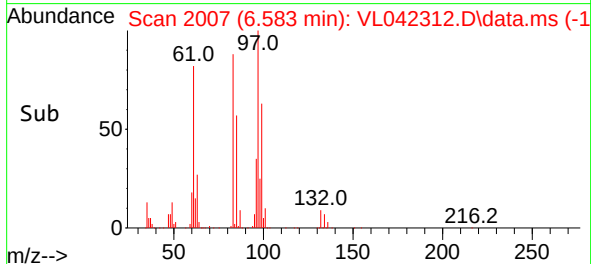
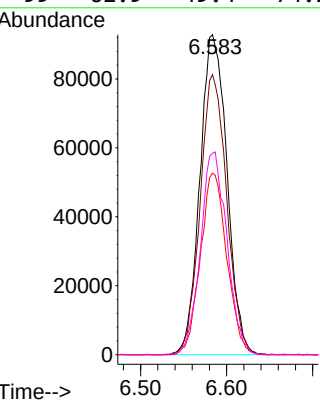
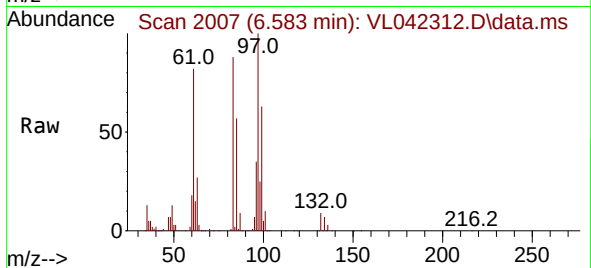
99 62.9 49.4 74.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/16/2025

Supervised By :Mahesh Dadoda 04/17/2025



#48

Dibromochloromethane

Concen: 11.106 ppbv

RT: 7.389 min Scan# 2256

Delta R.T. 0.009 min

Lab File: VL042312.D

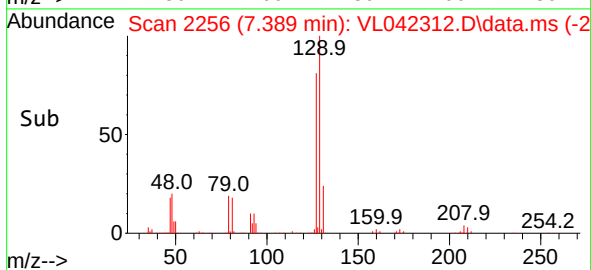
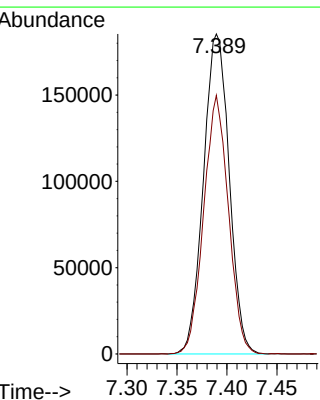
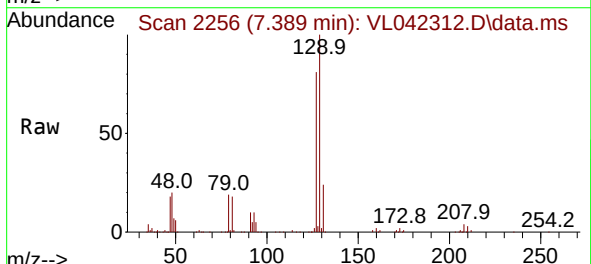
Acq: 11 Apr 2025 09:50

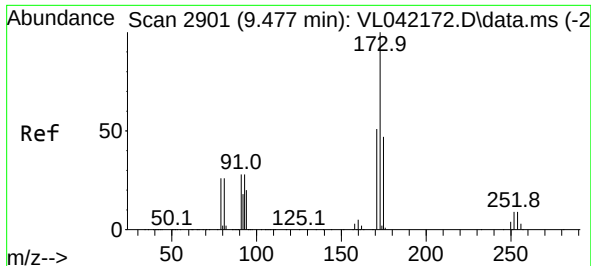
Tgt Ion:129 Resp: 333128

Ion Ratio Lower Upper

129 100

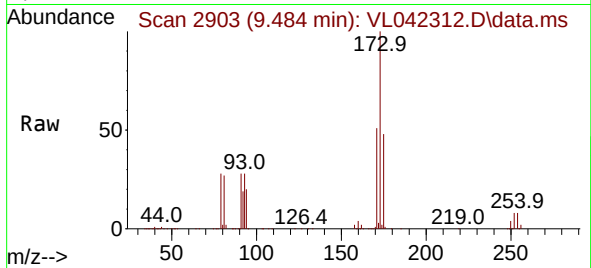
127 77.4 39.1 117.2





#49
Bromoform
Concen: 10.935 ppbv
RT: 9.484 min Scan# 2901
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

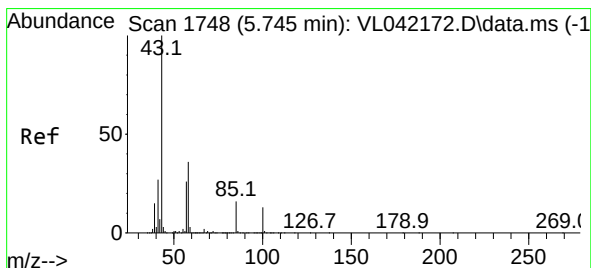
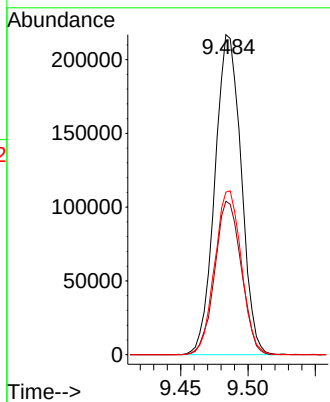
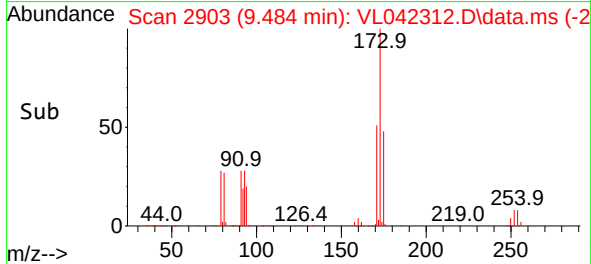
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



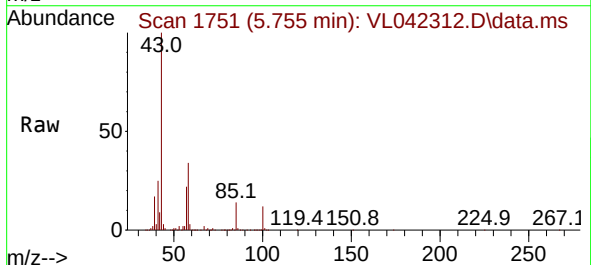
Tgt Ion:173 Resp: 294489
Ion Ratio Lower Upper
173 100
175 48.5 38.6 57.8
171 51.8 41.8 62.6

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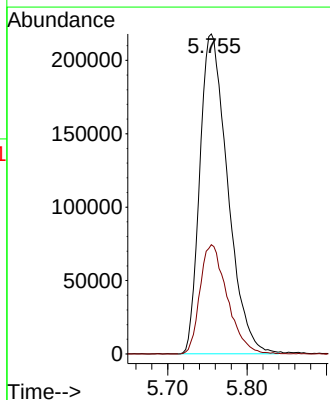
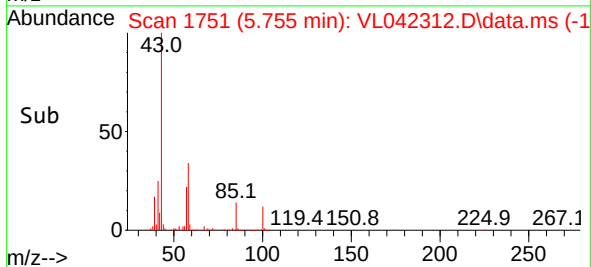
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

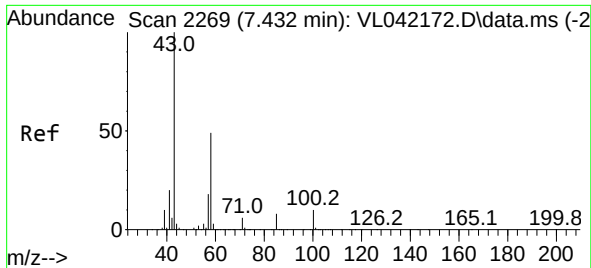


#50
4-Methyl-2-Pentanone
Concen: 9.980 ppbv
RT: 5.755 min Scan# 1751
Delta R.T. 0.009 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50



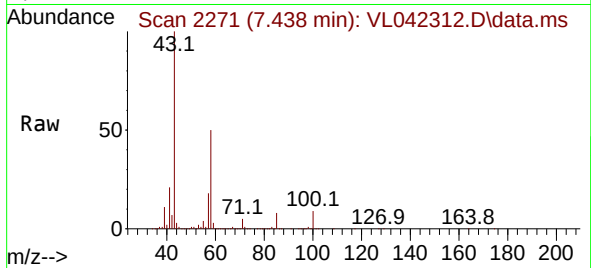
Tgt Ion: 43 Resp: 531851
Ion Ratio Lower Upper
43 100
58 33.5 29.0 43.6





#51
2-Hexanone
Concen: 9.689 ppbv
RT: 7.438 min Scan# 2114
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

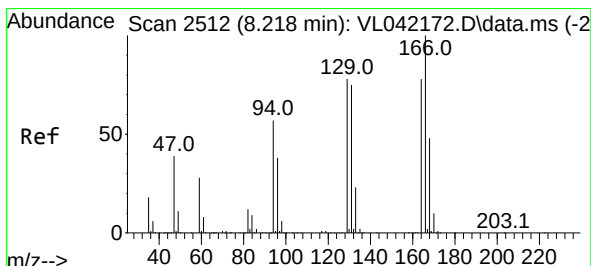
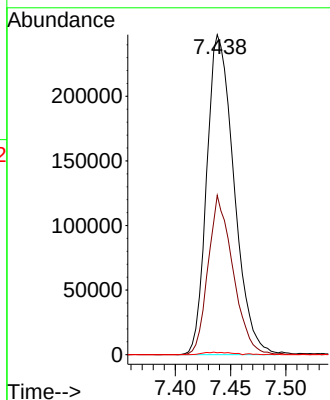
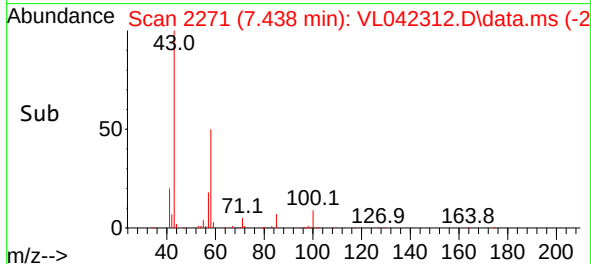
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion: 43 Resp: 424035
Ion Ratio Lower Upper
43 100
58 45.7 39.7 59.5
98 0.9 0.1 0.1

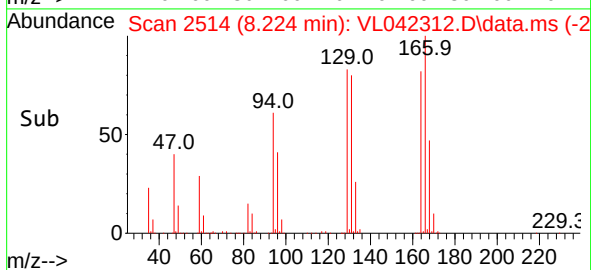
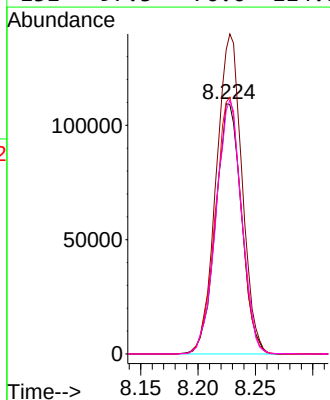
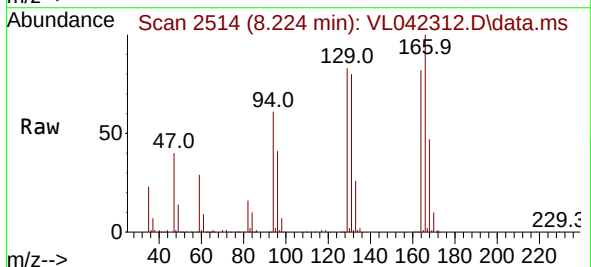
Manual Integrations
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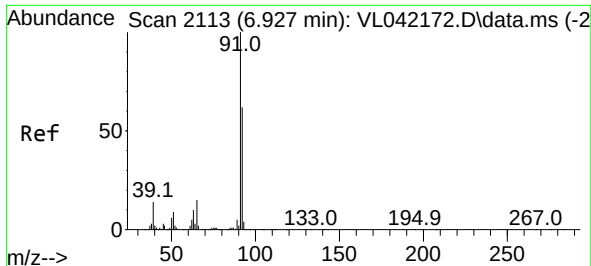
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#52
Tetrachloroethene
Concen: 9.378 ppbv
RT: 8.224 min Scan# 2514
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion:164 Resp: 170989
Ion Ratio Lower Upper
164 100
166 121.6 102.5 153.7
129 100.6 79.8 119.8
131 97.3 76.6 114.8





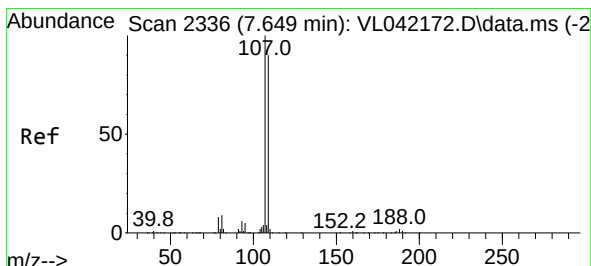
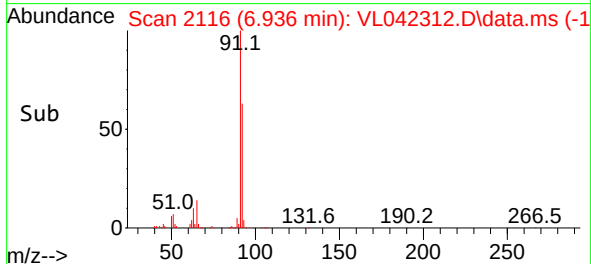
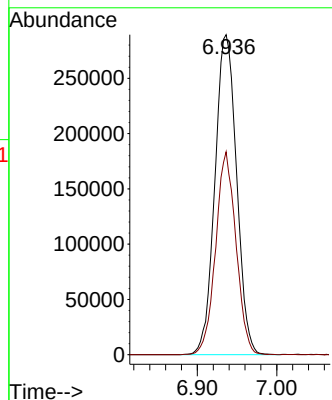
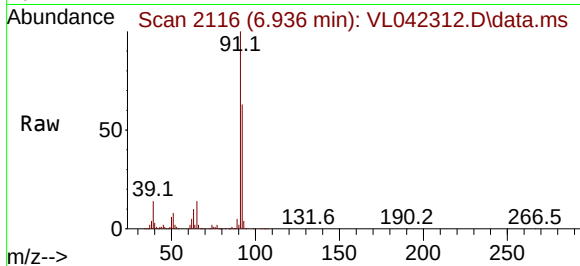
#53
Toluene
Concen: 10.048 ppbv
RT: 6.936 min Scan# 2113
Delta R.T. 0.009 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 91 Resp: 547579
Ion Ratio Lower Upper
91 100
92 59.5 48.4 72.6

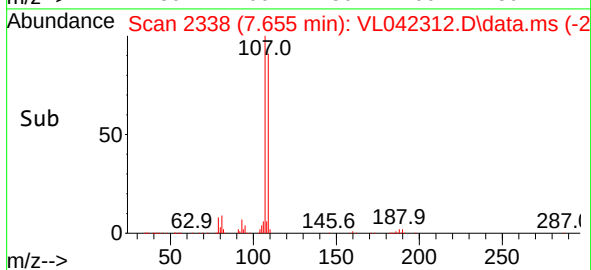
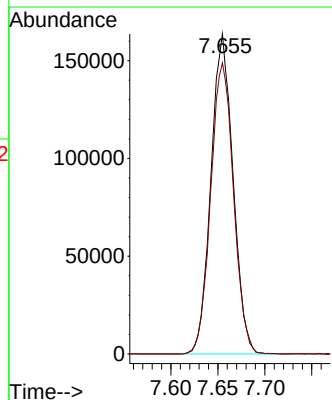
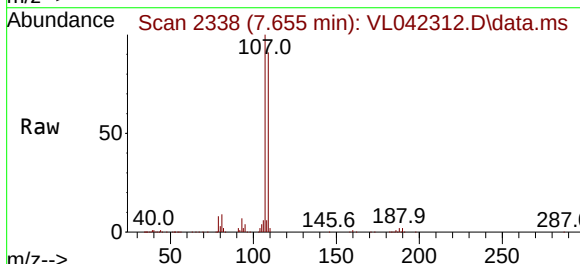
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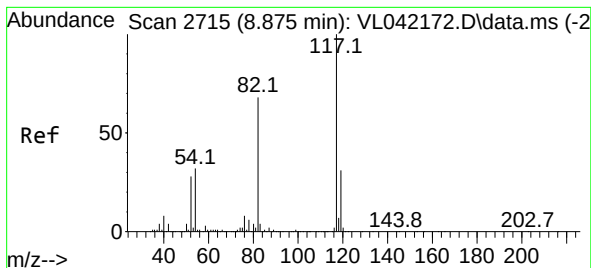
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#54
1,2-Dibromoethane
Concen: 10.831 ppbv
RT: 7.655 min Scan# 2338
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion:107 Resp: 267225
Ion Ratio Lower Upper
107 100
109 91.0 72.2 108.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.885 min Scan# 2715

Delta R.T. 0.009 min

Lab File: VL042312.D

Acq: 11 Apr 2025 09:50

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

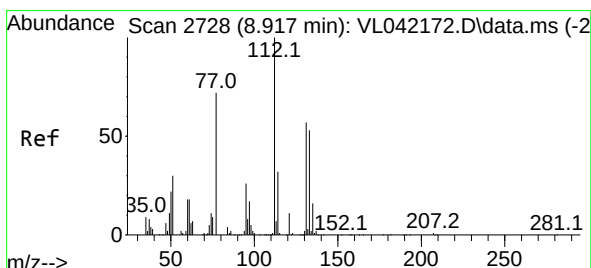
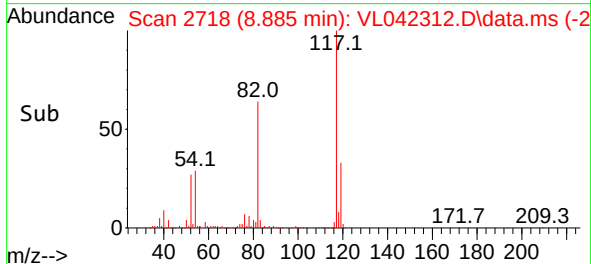
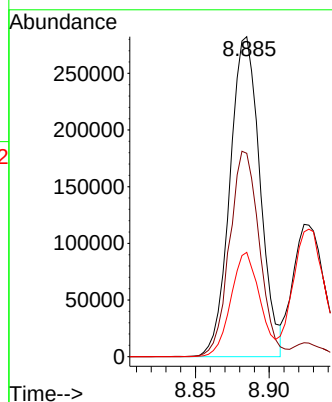
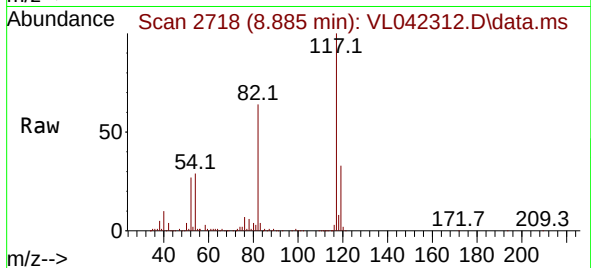
Tgt Ion:117 Resp: 401340

Ion	Ratio	Lower	Upper
117	100		
82	67.7	55.8	83.6
119	31.5	25.5	38.3

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Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#56

1,1,1,2-Tetrachloroethane

Concen: 12.283 ppbv

RT: 8.927 min Scan# 2731

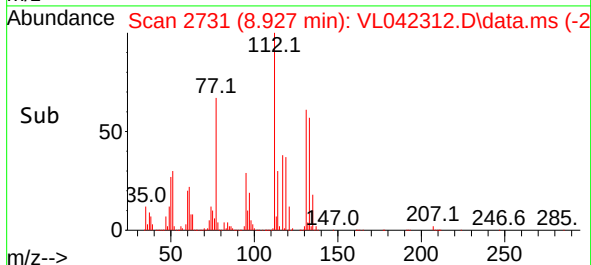
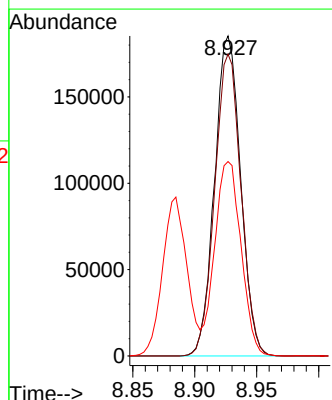
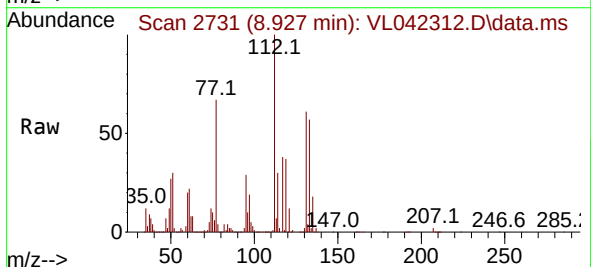
Delta R.T. 0.009 min

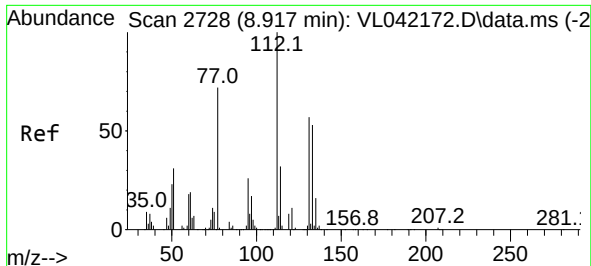
Lab File: VL042312.D

Acq: 11 Apr 2025 09:50

Tgt Ion:131 Resp: 271350

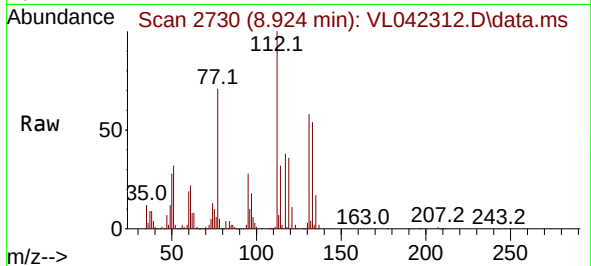
Ion	Ratio	Lower	Upper
131	100		
133	95.3	76.6	114.8
119	62.7	49.8	74.6





#57
Chlorobenzene
Concen: 12.099 ppbv
RT: 8.924 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

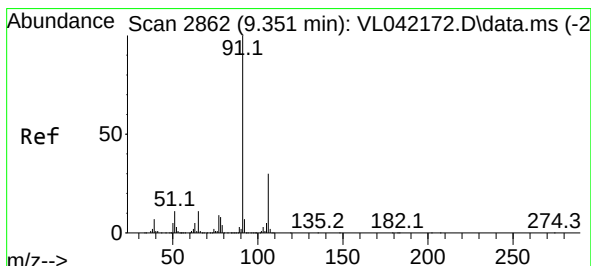
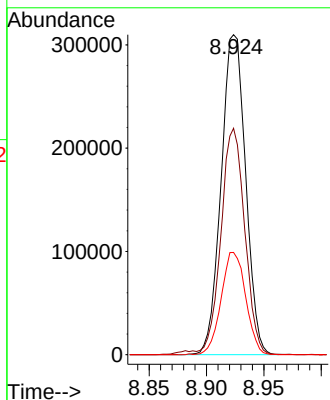
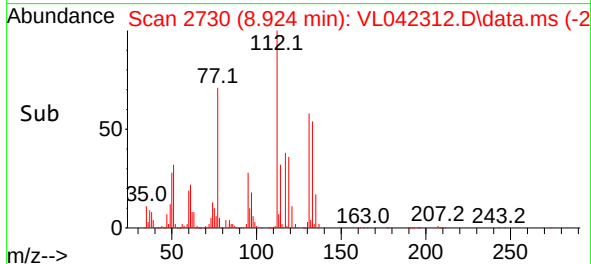
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion:112 Resp: 460598
Ion Ratio Lower Upper
112 100
77 70.7 58.2 87.2
114 32.0 29.1 35.5

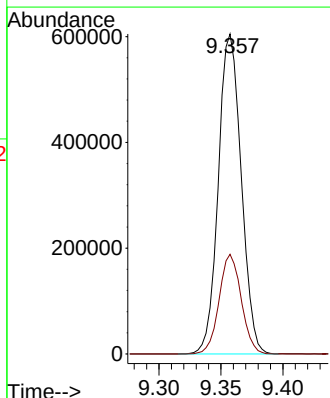
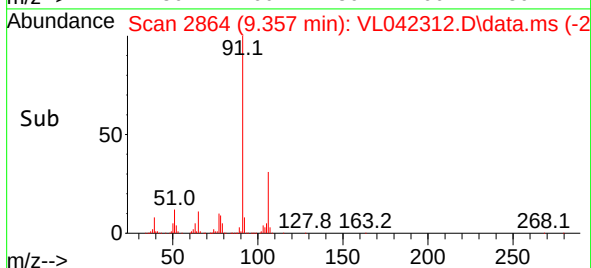
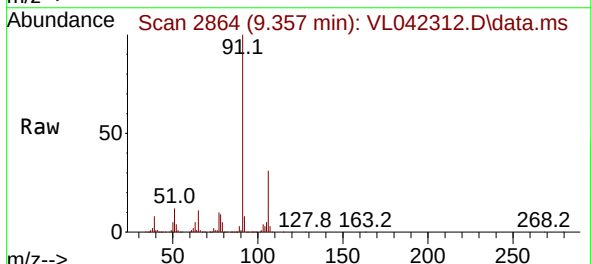
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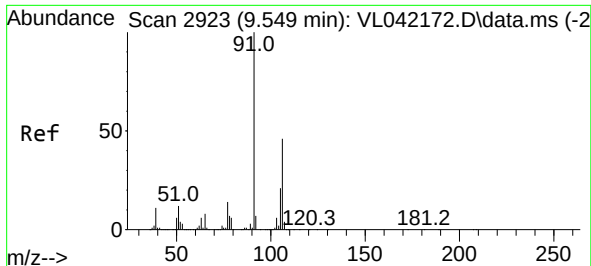
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#58
Ethyl Benzene
Concen: 10.931 ppbv
RT: 9.357 min Scan# 2864
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 91 Resp: 779227
Ion Ratio Lower Upper
91 100
106 31.1 24.2 36.2





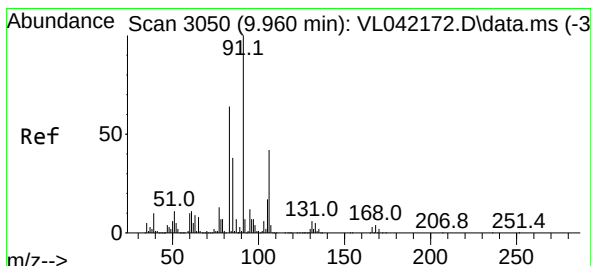
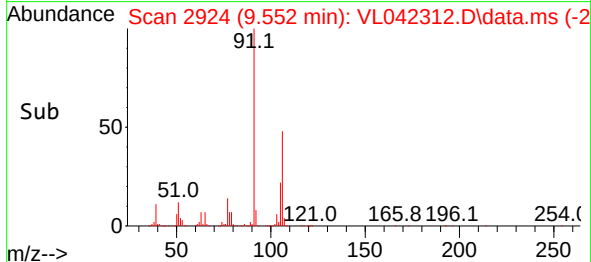
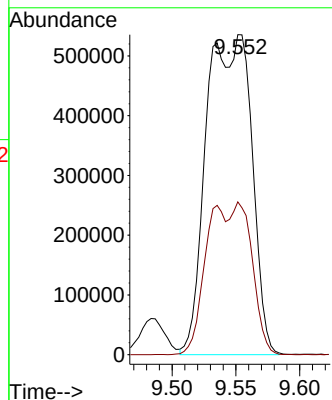
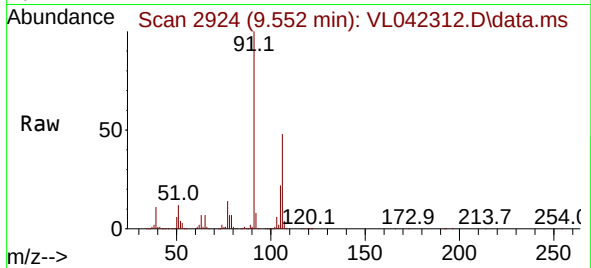
#59
m/p-Xylene
Concen: 23.249 ppbv m
RT: 9.552 min Scan# 2923
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

Tgt Ion: 91 Resp: 132346
Ion Ratio Lower Upper
91 100
106 47.1 36.4 54.6

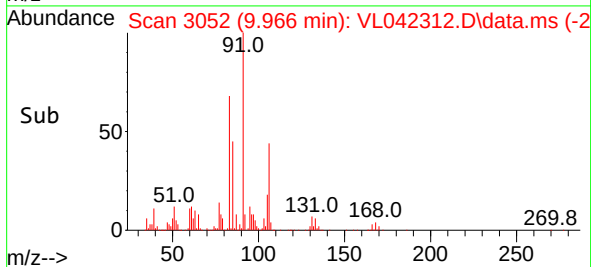
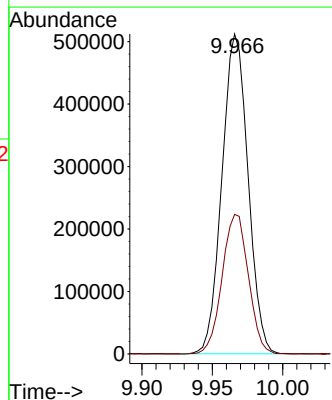
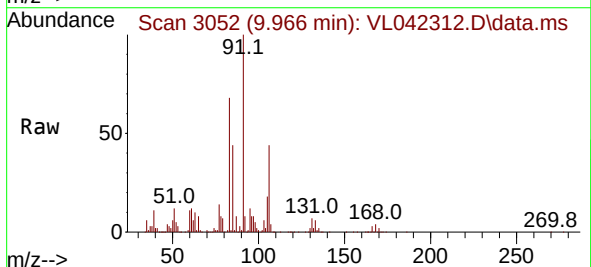
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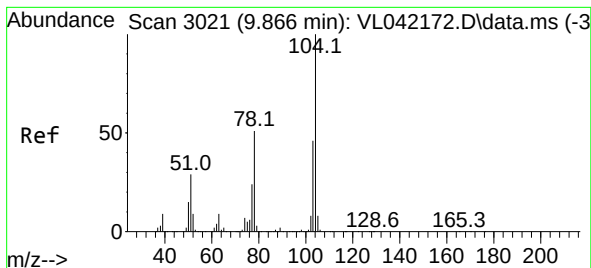
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#60
o-Xylene
Concen: 11.567 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 91 Resp: 660065
Ion Ratio Lower Upper
91 100
106 44.0 20.8 62.5





#61

Styrene

Concen: 10.320 ppbv

RT: 9.872 min Scan# 3021

Delta R.T. 0.006 min

Lab File: VL042312.D

Acq: 11 Apr 2025 09:50

Instrument :

MSVOA_L

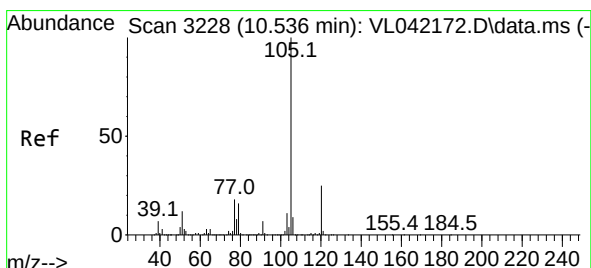
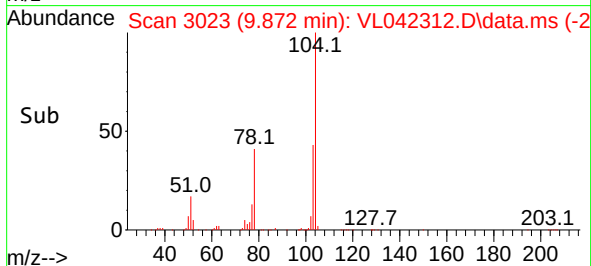
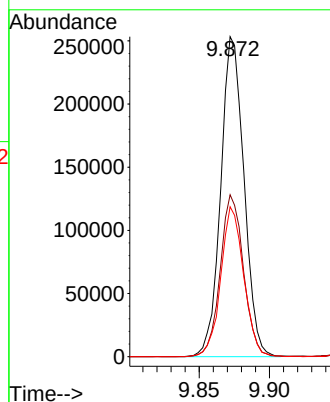
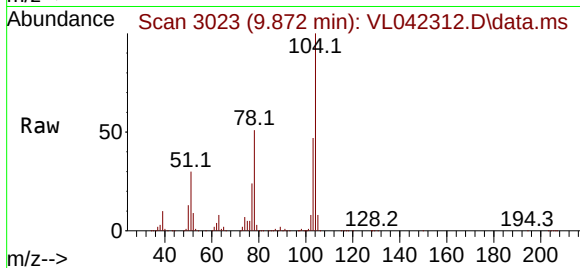
ClientSampleId :

VSTDCCC010

Tgt Ion:104 Resp: 29135
 Ion Ratio Lower Upper
 104 100
 78 50.6 41.8 62.6
 103 46.3 37.0 55.4

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Reviewed By :Semsettin Yesilyurt 04/16/2025
 Supervised By :Mahesh Dadoda 04/17/2025



#62

Isopropylbenzene

Concen: 11.582 ppbv

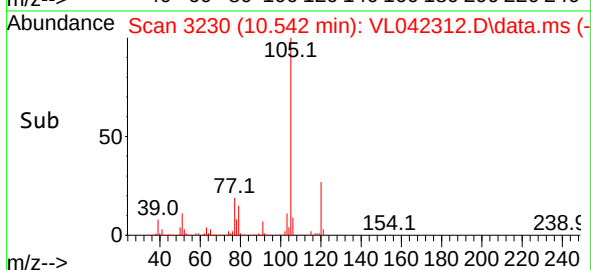
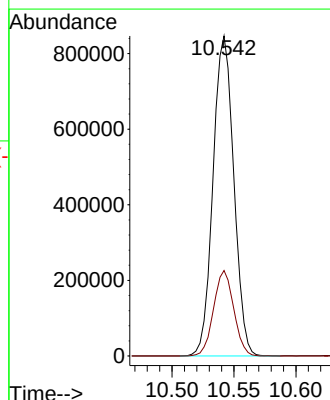
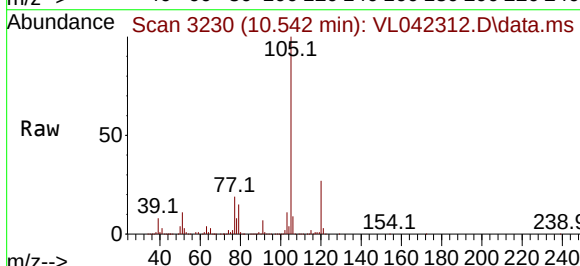
RT: 10.542 min Scan# 3230

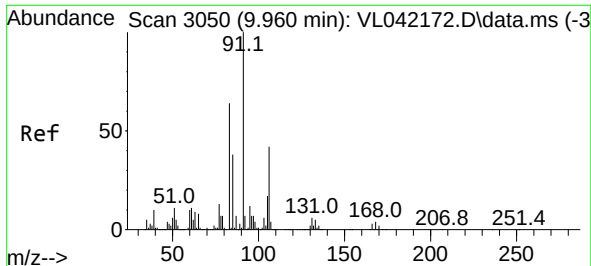
Delta R.T. 0.006 min

Lab File: VL042312.D

Acq: 11 Apr 2025 09:50

Tgt Ion:105 Resp: 988337
 Ion Ratio Lower Upper
 105 100
 120 25.9 19.9 29.9





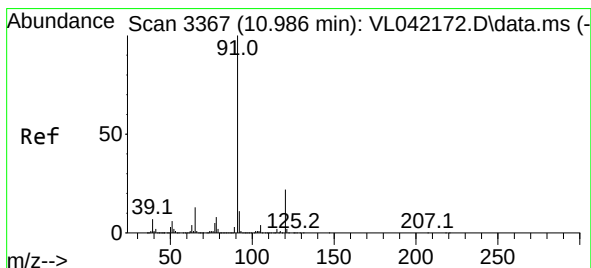
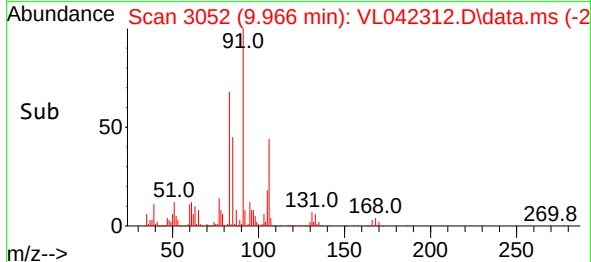
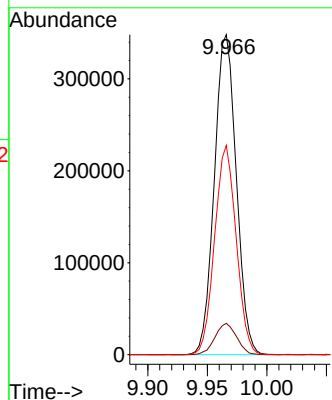
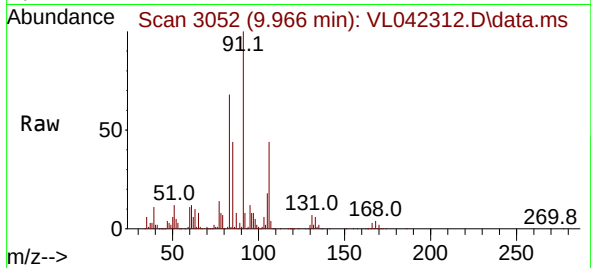
#63
1,1,2,2-Tetrachloroethane
Concen: 12.873 ppbv
RT: 9.966 min Scan# 3050
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 83 Resp: 44634
Ion Ratio Lower Upper
83 100
131 9.6 4.8 14.4
85 64.0 32.5 97.5

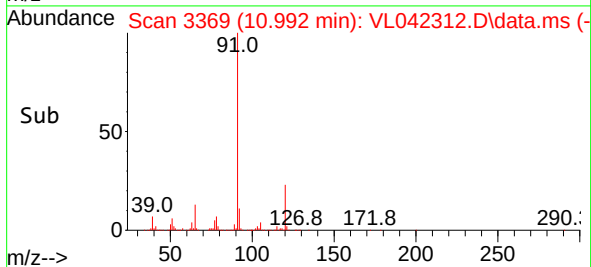
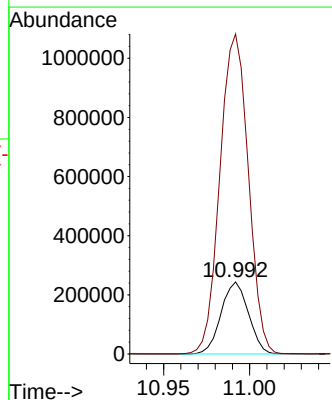
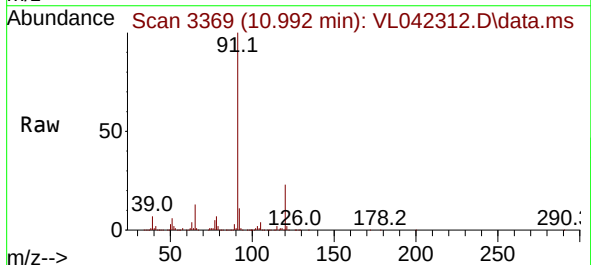
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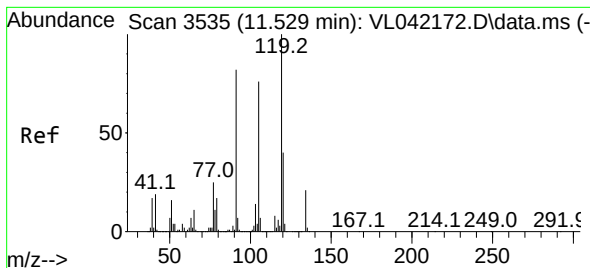
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#64
n-propylbenzene
Concen: 12.231 ppbv
RT: 10.992 min Scan# 3369
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

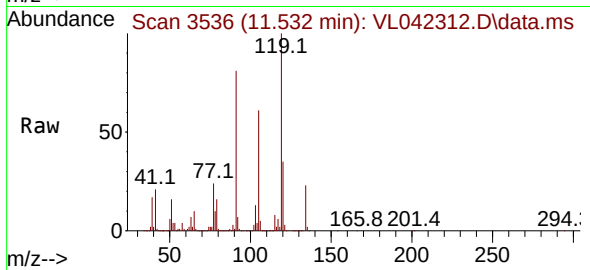
Tgt Ion:120 Resp: 268681
Ion Ratio Lower Upper
120 100
91 463.6 376.9 565.3





#65
tert-Butylbenzene
Concen: 11.820 ppbv
RT: 11.532 min Scan# 3535
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

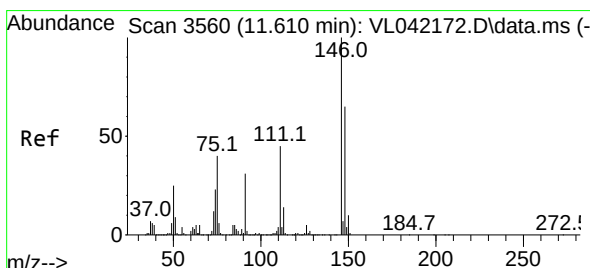
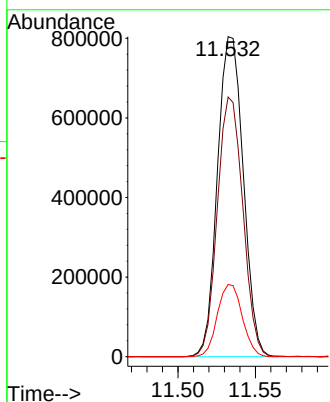
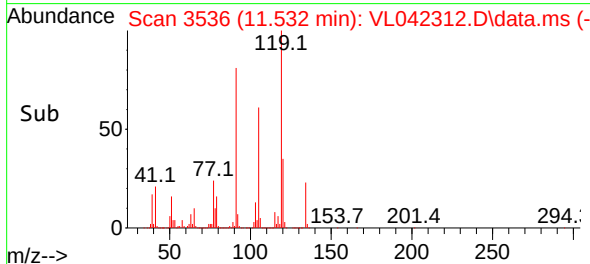
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



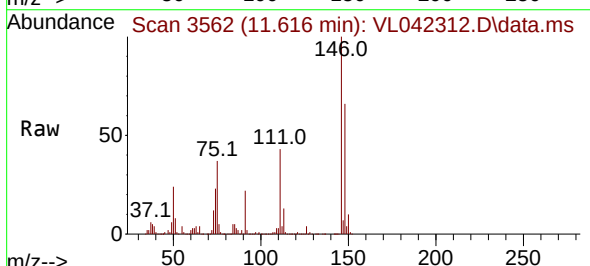
Tgt Ion: 119 Resp: 932850
Ion Ratio Lower Upper
119 100
91 80.3 66.0 99.0
134 21.7 16.7 25.1

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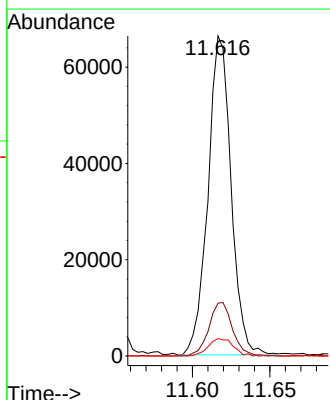
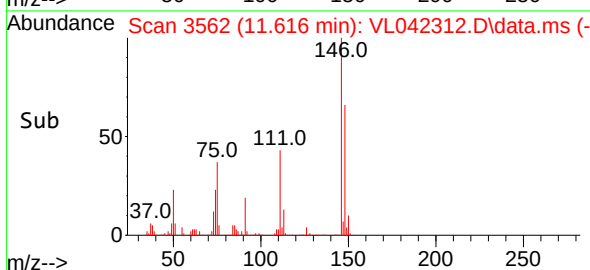
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

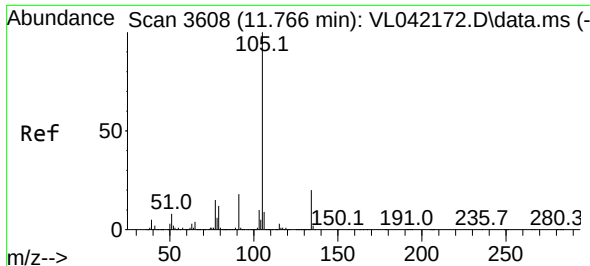


#66
Benzyl Chloride
Concen: 8.201 ppbv
RT: 11.616 min Scan# 3562
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50



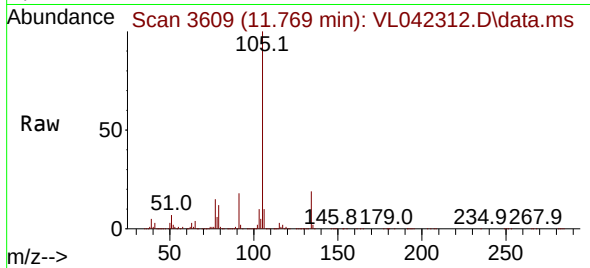
Tgt Ion: 91 Resp: 68675
Ion Ratio Lower Upper
91 100
126 16.9 13.8 20.6
128 6.2 4.5 6.7





#67
 sec-Butylbenzene
 Concen: 11.942 ppbv
 RT: 11.769 min Scan# 3609
 Delta R.T. 0.003 min
 Lab File: VL042312.D
 Acq: 11 Apr 2025 09:50

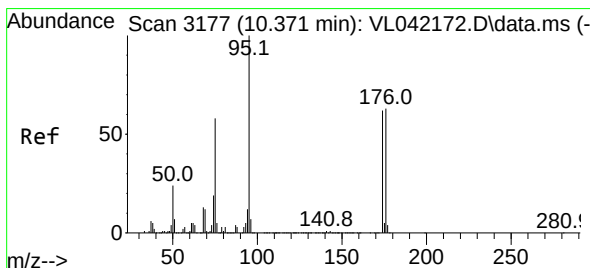
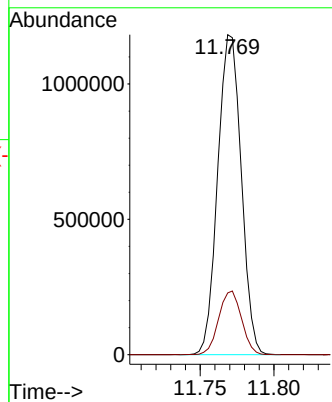
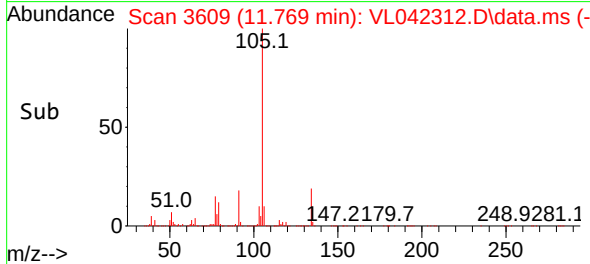
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



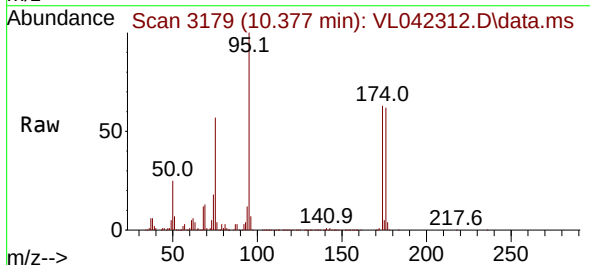
Tgt Ion:105 Resp: 131004
 Ion Ratio Lower Upper
 105 100
 134 19.4 15.5 23.3

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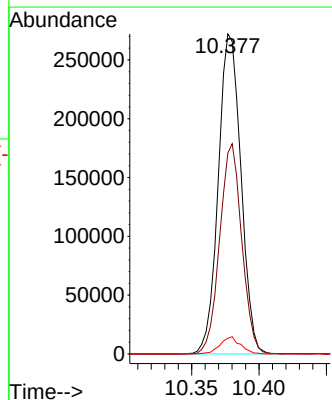
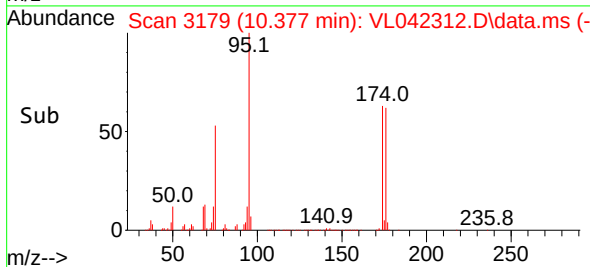
Reviewed By :Semsettin Yesilyurt 04/16/2025
 Supervised By :Mahesh Dadoda 04/17/2025

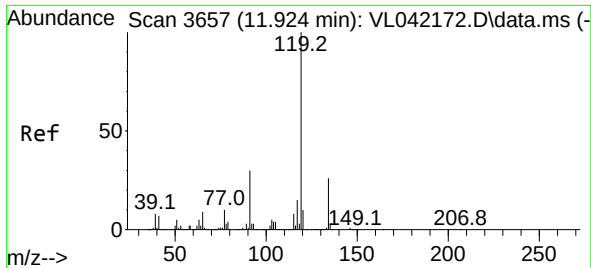


#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.655 ppbv
 RT: 10.377 min Scan# 3179
 Delta R.T. 0.006 min
 Lab File: VL042312.D
 Acq: 11 Apr 2025 09:50



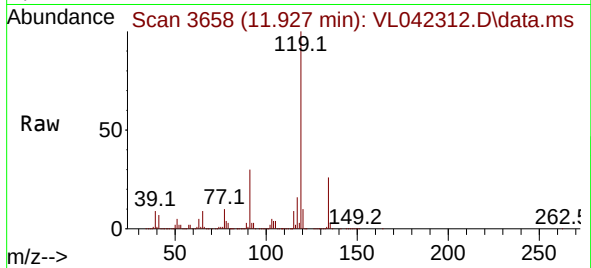
Tgt Ion: 95 Resp: 318204
 Ion Ratio Lower Upper
 95 100
 174 64.0 50.6 76.0
 175 4.9 3.8 5.6





#69
p-Isopropyltoluene
Concen: 11.720 ppbv
RT: 11.927 min Scan# 3658
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

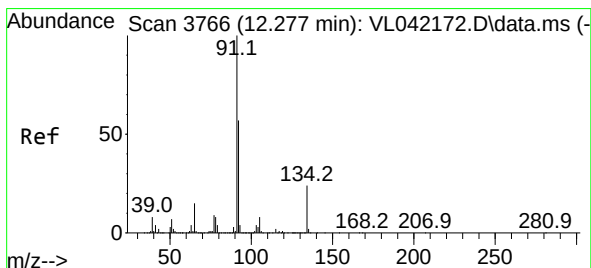
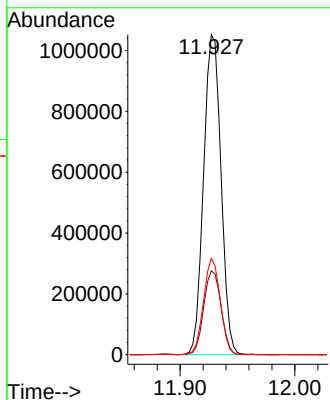
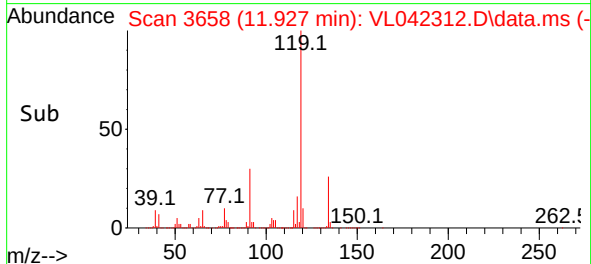
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



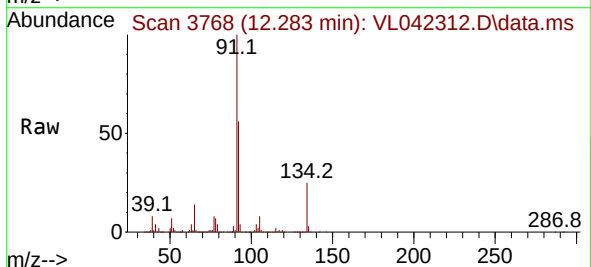
Tgt Ion: 119 Resp: 1107045
Ion Ratio Lower Upper
119 100
134 26.2 20.4 30.6
91 29.0 23.7 35.5

Manual Integrations
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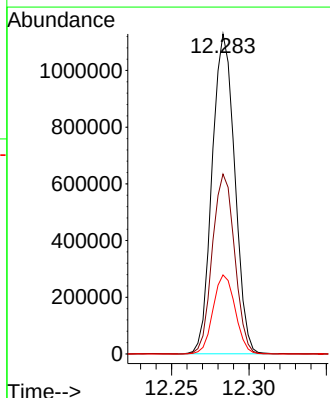
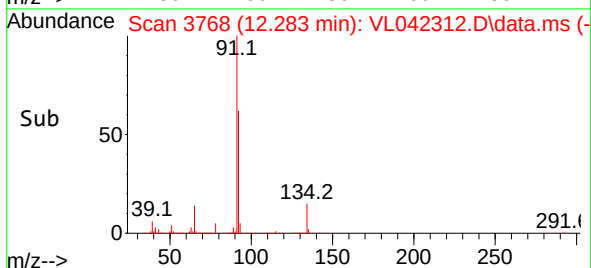
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

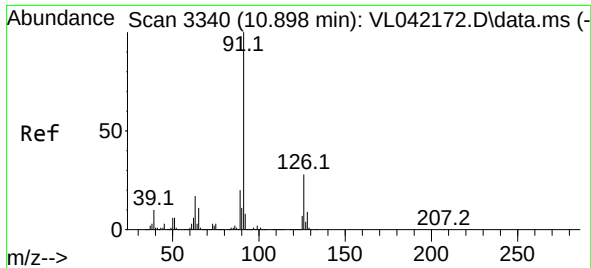


#70
n-Butylbenzene
Concen: 11.848 ppbv
RT: 12.283 min Scan# 3768
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50



Tgt Ion: 91 Resp: 1144571
Ion Ratio Lower Upper
91 100
92 55.6 44.9 67.3
134 24.2 19.2 28.8





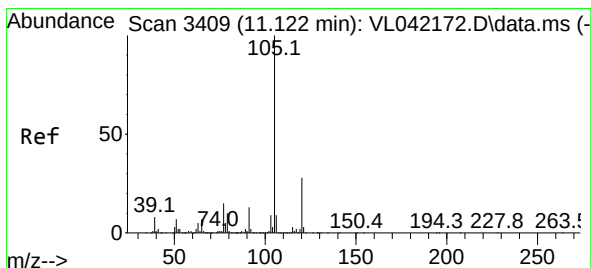
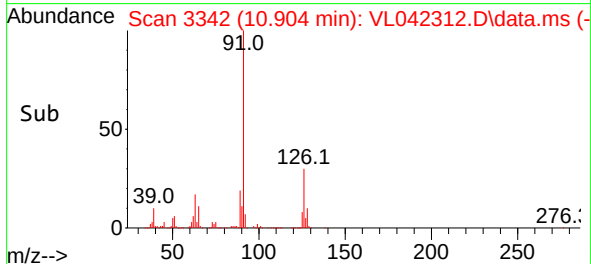
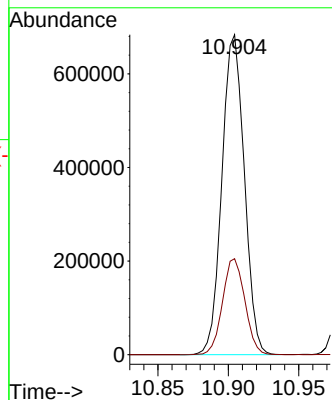
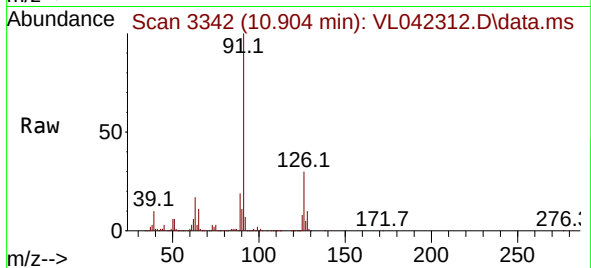
#71
2-Chlorotoluene
Concen: 11.423 ppbv
RT: 10.904 min Scan# 311
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 91 Resp: 75656
Ion Ratio Lower Upper
91 100
126 29.9 11.6 46.4

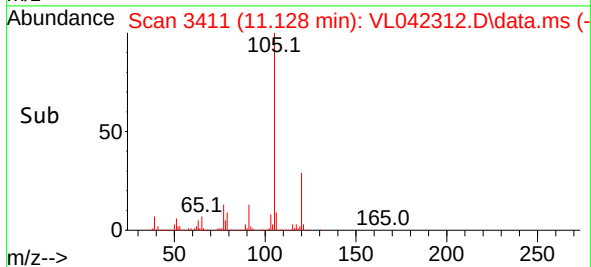
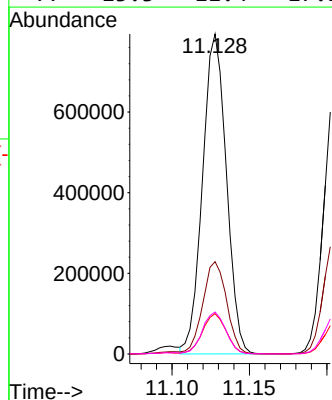
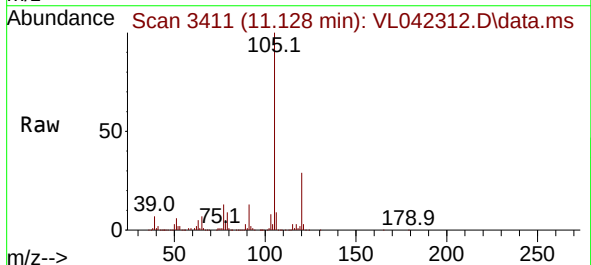
Manual Integrations
APPROVED

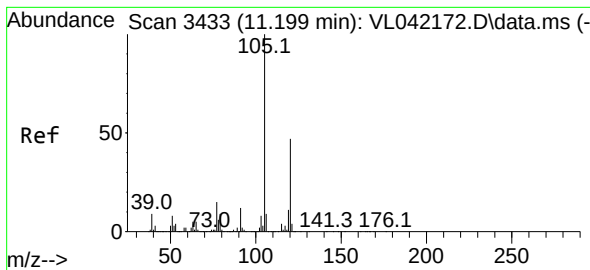
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#72
4-Ethyltoluene
Concen: 11.932 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion:105 Resp: 847821
Ion Ratio Lower Upper
105 100
120 29.7 23.4 35.0
91 13.0 10.3 15.5
77 13.3 11.4 17.2





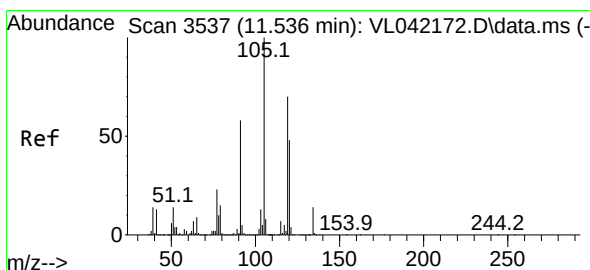
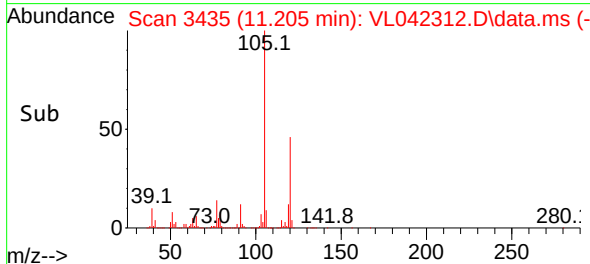
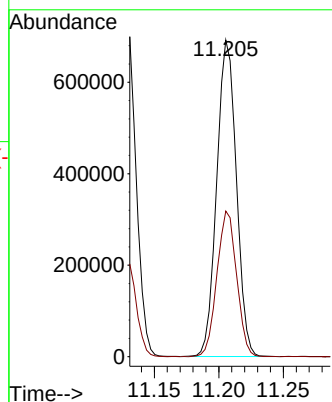
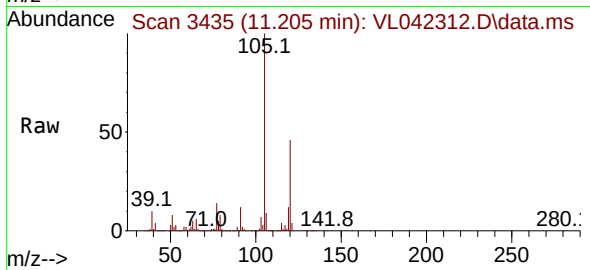
#73
1,3,5-Trimethylbenzene
Concen: 11.762 ppbv
RT: 11.205 min Scan# 3433
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:105 Resp: 72988
Ion Ratio Lower Upper
105 100
120 46.0 37.4 56.0

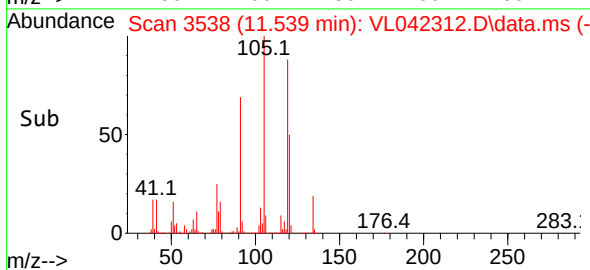
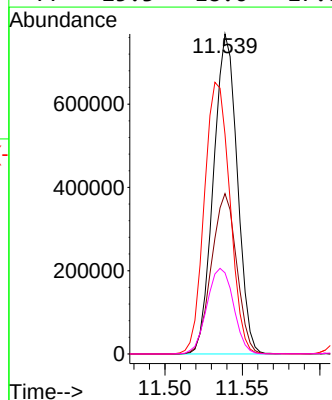
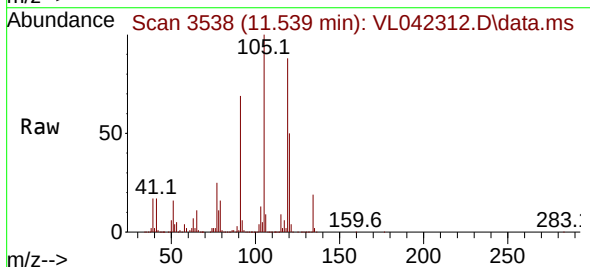
Manual Integrations
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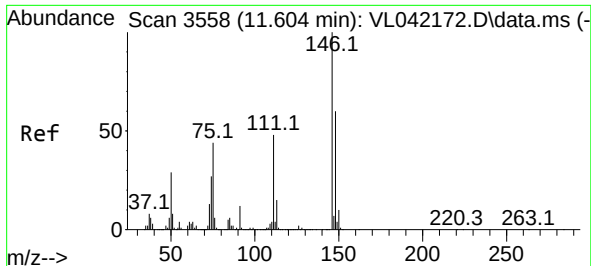
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#74
1,2,4-Trimethylbenzene
Concen: 11.463 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion:105 Resp: 819490
Ion Ratio Lower Upper
105 100
120 50.1 38.6 58.0
91 68.5 46.2 69.2
77 25.3 18.6 27.8





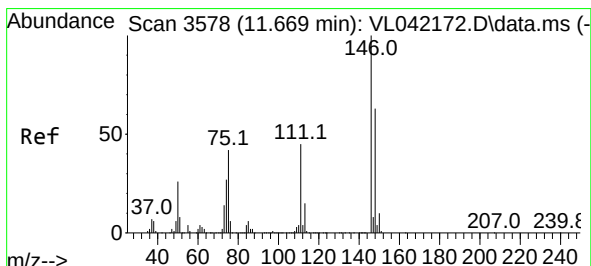
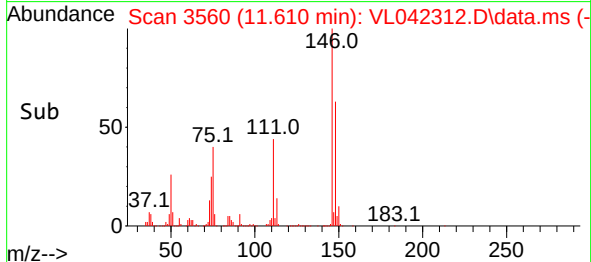
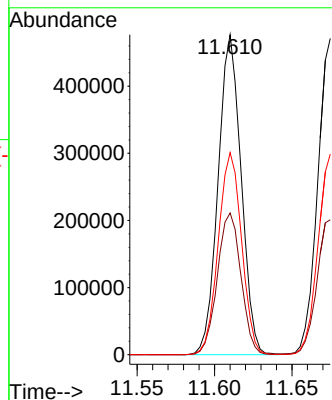
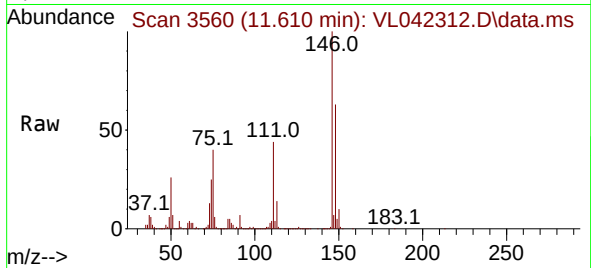
#75
1,3-Dichlorobenzene
Concen: 12.562 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:146 Resp: 492549
Ion Ratio Lower Upper
146 100
111 45.5 23.8 71.2
148 64.0 31.9 95.9

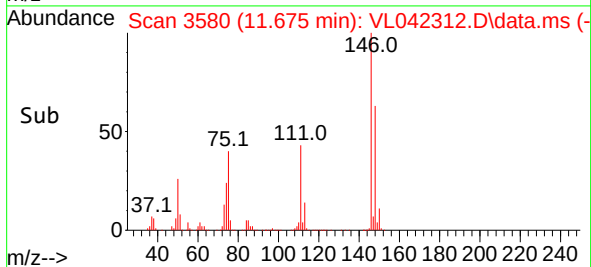
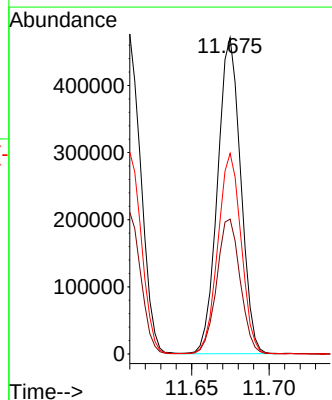
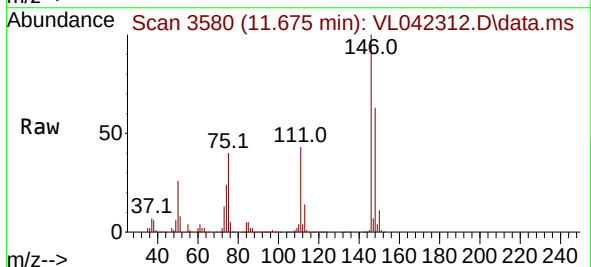
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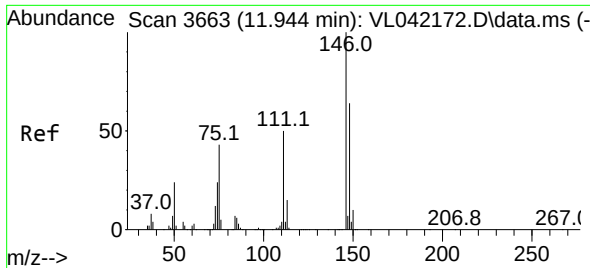
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#76
1,4-Dichlorobenzene
Concen: 12.522 ppbv
RT: 11.675 min Scan# 3580
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion:146 Resp: 488636
Ion Ratio Lower Upper
146 100
111 43.7 23.0 69.0
148 64.0 31.9 95.7





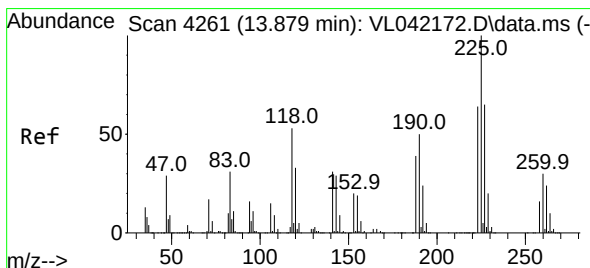
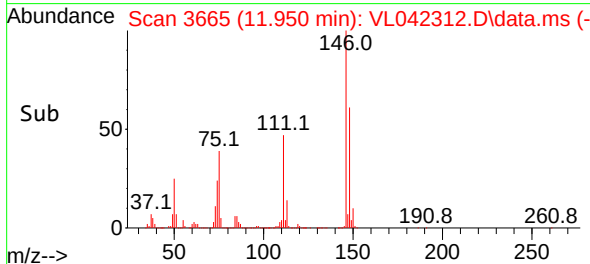
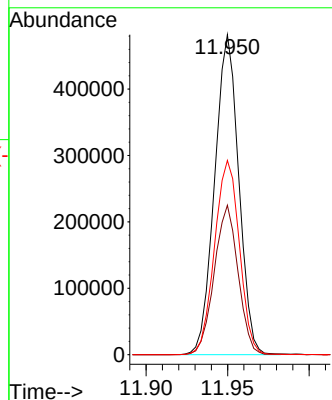
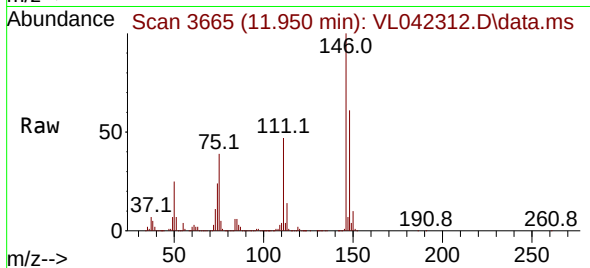
#77
1,2-Dichlorobenzene
Concen: 12.959 ppbv
RT: 11.950 min Scan# 3665
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:146 Resp: 494739
Ion Ratio Lower Upper
146 100
111 46.4 24.8 74.3
148 62.7 31.6 94.8

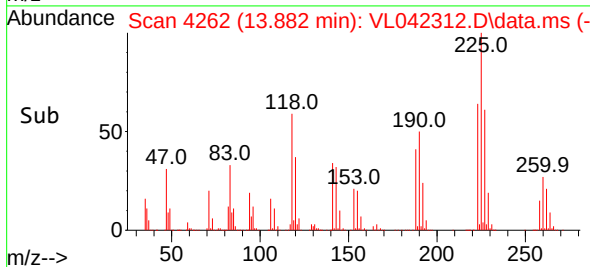
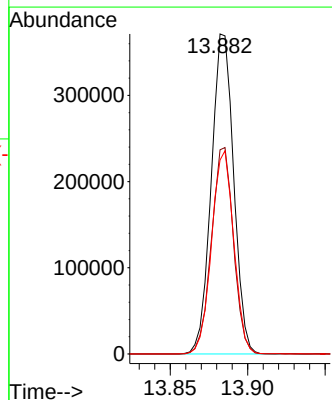
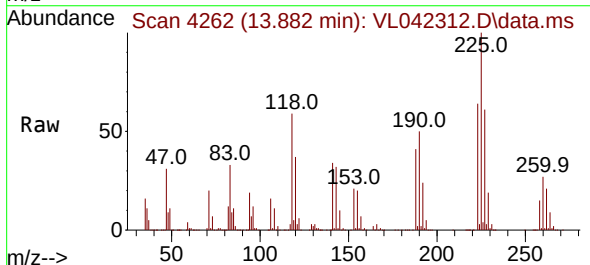
Manual Integrations
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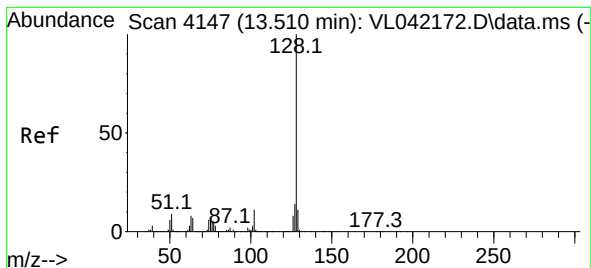
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#78
Hexachloro-1,3-Butadiene
Concen: 9.599 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion:225 Resp: 373025
Ion Ratio Lower Upper
225 100
223 63.4 50.6 76.0
227 62.8 51.2 76.8





#79

Naphthalene

Concen: 10.550 ppbv

RT: 13.516 min Scan# 4147

Delta R.T. 0.006 min

Lab File: VL042312.D

Acq: 11 Apr 2025 09:50

Instrument :

MSVOA_L

ClientSampleId :

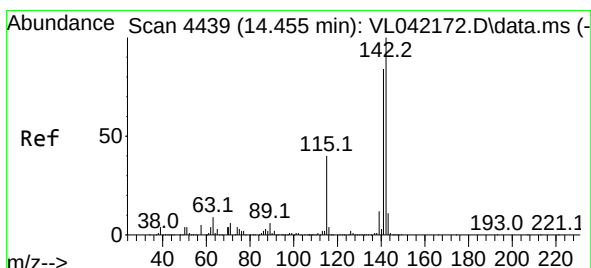
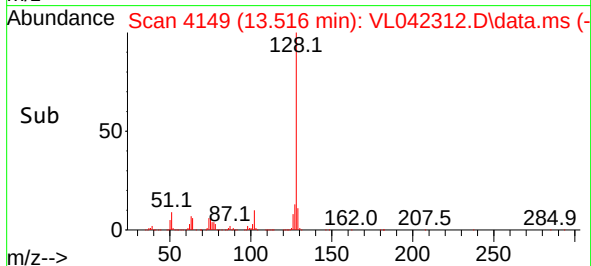
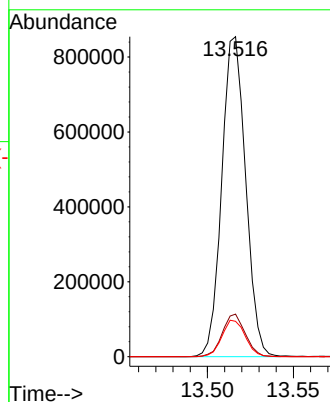
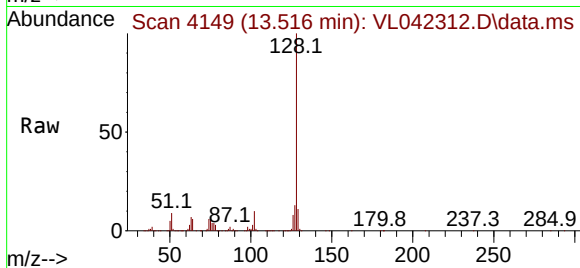
VSTDCCC010

Tgt Ion:	128	Resp:	82494
Ion Ratio	Lower	Upper	
128	100		
127	13.3	10.8	16.2
129	11.1	9.0	13.4

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#80

Naphthalene,2-methyl-

Concen: 7.212 ppbv

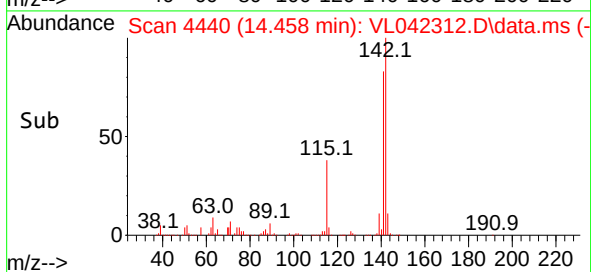
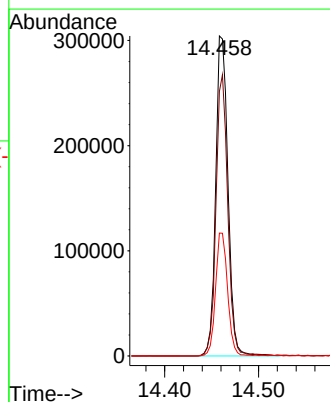
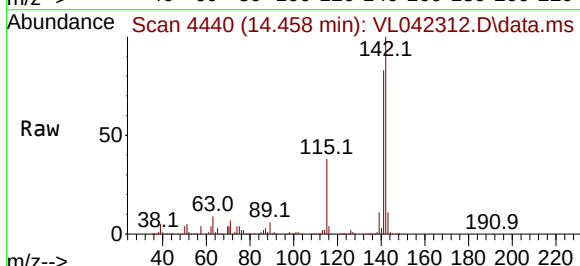
RT: 14.458 min Scan# 4440

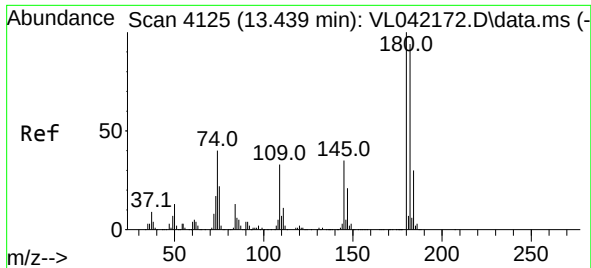
Delta R.T. 0.003 min

Lab File: VL042312.D

Acq: 11 Apr 2025 09:50

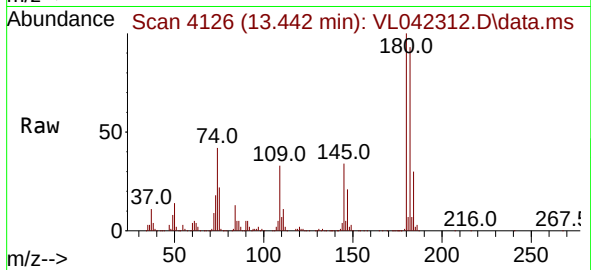
Tgt Ion:	142	Resp:	276556
Ion Ratio	Lower	Upper	
142	100		
141	84.7	66.3	99.5
115	38.0	31.6	47.4





#81
 1,2,4-Trichlorobenzene
 Concen: 10.389 ppbv
 RT: 13.442 min Scan# 41
 Delta R.T. 0.003 min
 Lab File: VL042312.D
 Acq: 11 Apr 2025 09:50

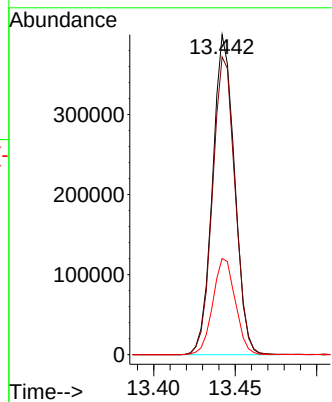
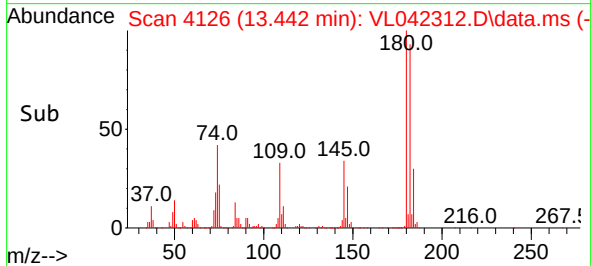
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



Tgt Ion:180 Resp: 374714
 Ion Ratio Lower Upper
 180 100
 182 95.6 75.1 112.7
 184 30.8 24.4 36.6

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/16/2025
 Supervised By :Mahesh Dadoda 04/17/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042312.D
Acq On : 11 Apr 2025 09:50
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
LabSampleId :
VSTDCCC010

Quant Time: Apr 11 22:56:21 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	98	0.00
2 T	Dichlorodifluoromethane	1.476	1.441	2.4	101	0.00
3	Chlorodifluoromethane	1.508	1.568	-4.0	106	0.00
4	Chloromethane	0.603	0.609	-1.0	104	0.00
5 T	Vinyl Chloride	0.639	0.557	12.8	100	0.00
6 T	Bromomethane	0.273	0.234	14.3	90	0.00
7	Chloroethane	0.242	0.228	5.8	99	0.00
8 T	Dichlorotetrafluoroethane	1.257	1.222	2.8	99	0.00
9 T	Propene	0.691	0.641	7.2	95	0.00
10 T	Heptane	1.839	1.822	0.9	100	0.00
11 T	Trichlorofluoromethane	1.437	1.362	5.2	100	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.181	1.053	10.8	92	0.00
13	Ethanol	0.065	0.032#	50.8#	110	0.00
14 T	Bromoethene	0.452	0.399	11.7	94	0.00
15 T	Acetone	1.399	1.261	9.9	111	0.00
16 T	1,3-Butadiene	0.683	0.611	10.5	105	0.00
17	tert-Butyl alcohol	1.742	1.391	20.1	84	0.00
18 T	1,1-Dichloroethene	0.552	0.487	11.8	95	0.00
19 T	Isopropyl Alcohol	0.789	0.682	13.6	95	0.00
20 T	Methylene Chloride	0.521	0.419	19.6	94	0.00
21 T	Allyl Chloride	0.986	0.887	10.0	97	0.00
22 T	trans-1,2-Dichloroethene	0.638	0.555	13.0	92	0.00
23 T	Vinyl Acetate	0.605	0.518	14.4	102	0.00
24 T	1,1-Dichloroethane	1.183	1.132	4.3	99	0.00
25 T	Ethyl Acetate	3.630	3.696	-1.8	105	0.00
26 T	Hexane	1.402	1.398	0.3	103	0.00
27 T	Carbon Disulfide	1.503	1.325	11.8	91	0.00
28 T	Methyl tert-Butyl Ether	0.873	0.703	19.5	83	0.00
29 T	Chloroform	2.052	2.143	-4.4	109	0.00
30 T	Cyclohexane	1.217	1.108	9.0	94	0.00
31 T	cis-1,2-Dichloroethene	1.423	1.346	5.4	96	0.00
32 T	1,1,1-Trichloroethane	2.349	2.070	11.9	99	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	85	0.00
34 T	2-Butanone	0.725	0.821	-13.2	105	0.00
35 T	Carbon Tetrachloride	0.781	0.841	-7.7	102	0.00
36 T	Benzene	0.991	1.092	-10.2	99	0.00
37 T	1,2-Dichloroethane	0.568	0.630	-10.9	100	0.00
38 T	Trichloroethene	0.414	0.438	-5.8	100	0.00
39 T	1,2-Dichloropropane	0.361	0.400	-10.8	101	0.00
40 T	1,4-Dioxane	0.192	0.178	7.3	89	0.00
41 T	Tetrahydrofuran	0.418	0.467	-11.7	100	0.00
42 T	Bromodichloromethane	0.782	0.891	-13.9	99	0.00
43	Methyl Methacrylate	0.420	0.398	5.2	84	0.01
44 T	2,2,4-Trimethylpentane	1.675	1.882	-12.4	100	0.00
45 T	t-1,3-Dichloropropene	0.450	0.381	15.3	74	0.02
46 T	cis-1,3-Dichloropropene	0.552	0.509	7.8	79	0.00
47 T	1,1,2-Trichloroethane	0.382	0.438	-14.7	102	0.00
48 T	Dibromochloromethane	0.647	0.718	-11.0	96	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
 Data File : VL042312.D
 Acq On : 11 Apr 2025 09:50
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Apr 11 22:56:21 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	0.635	-9.3	93	0.00
50 T	4-Methyl-2-Pentanone	1.149	1.147	0.2	95	0.00
51 T	2-Hexanone	0.944	0.914	3.2	92	0.00
52 T	Tetrachloroethene	0.393	0.369	6.1	91	0.00
53 T	Toluene	1.175	1.181	-0.5	89	0.00
54 T	1,2-Dibromoethane	0.532	0.576	-8.3	97	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	77	0.00
56	1,1,1,2-Tetrachloroethane	0.550	0.676	-22.9	102	0.00
57 T	Chlorobenzene	0.949	1.148	-21.0	101	0.00
58 T	Ethyl Benzene	1.776	1.942	-9.3	90	0.00
59 T	m/p-Xylene	1.418	1.649	-16.3	96	0.00
60 T	o-Xylene	1.422	1.645	-15.7	96	0.00
61 T	Styrene	0.703	0.726	-3.3	82	0.00
62	Isopropylbenzene	2.126	2.463	-15.9	97	0.00
63 T	1,1,2,2-Tetrachloroethane	0.864	1.112	-28.7	108	0.00
64	n-propylbenzene	0.547	0.669	-22.3	104	0.00
65	tert-Butylbenzene	1.966	2.324	-18.2	103	0.00
66 T	Benzyl Chloride	0.209	0.171	18.2	65	0.00
67	sec-Butylbenzene	2.733	3.264	-19.4	105	0.00
68 S	1-Bromo-4-Fluorobenzene	0.821	0.793	3.4	75	0.00
69	p-Isopropyltoluene	2.354	2.758	-17.2	103	0.00
70	n-Butylbenzene	2.407	2.852	-18.5	103	0.00
71	2-Chlorotoluene	1.650	1.885	-14.2	95	0.00
72 T	4-Ethyltoluene	1.770	2.112	-19.3	100	0.00
73 T	1,3,5-Trimethylbenzene	1.546	1.819	-17.7	101	0.00
74 T	1,2,4-Trimethylbenzene	1.781	2.042	-14.7	104	0.00
75 T	1,3-Dichlorobenzene	0.977	1.227	-25.6	107	0.00
76 T	1,4-Dichlorobenzene	0.972	1.218	-25.3	106	0.00
77 T	1,2-Dichlorobenzene	0.951	1.233	-29.7	112	0.00
78 T	Hexachloro-1,3-Butadiene	0.968	0.929	4.0	90	0.00
79 T	Naphthalene	1.948	2.055	-5.5	88	0.00
80 T	Naphthalene,2-methyl-	0.955	0.689	27.9	54	0.00
81 T	1,2,4-Trichlorobenzene	0.899	0.934	-3.9	84	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.: Q1665 SAS No.: Q1665 SDG No.: Q1665

Instrument ID: MSVOA_L Calibration Date/Time: 04/15/2025 11:30

Lab File ID: VL042326.D Init. Calib. Date(s): 03/27/2025 03/27/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 08:26 11:36

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

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	1.476	1.245		-15.65	30
Chloromethane	0.603	0.520		-13.77	30
Vinyl Chloride	0.639	0.483		-24.41	30
Bromomethane	0.273	0.211		-22.71	30
Chloroethane	0.242	0.187		-22.73	30
Tetrahydrofuran	0.418	0.397		-5.02	30
Trichlorofluoromethane	1.437	1.175		-18.23	30
1,1,2-Trichlorotrifluoroethane	1.181	0.912		-22.78	30
Dichlorotetrafluoroethane	1.257	1.062		-15.51	30
tert-Butyl alcohol	1.742	1.218		-30.08	30
Heptane	1.839	1.607		-12.62	30
1,1-Dichloroethene	0.552	0.420		-23.91	30
Acetone	1.399	1.065		-23.87	30
Carbon Disulfide	1.503	1.135		-24.48	30
Methyl tert-Butyl Ether	0.873	0.675		-22.68	30
Methylene Chloride	0.521	0.350		-32.82	30
trans-1,2-Dichloroethene	0.638	0.474		-25.7	30
1,1-Dichloroethane	1.183	0.983		-16.91	30
Cyclohexane	1.217	1.006		-17.34	30
2-Butanone	0.725	0.694		-4.28	30
Carbon Tetrachloride	0.781	0.695		-11.01	30
cis-1,2-Dichloroethene	1.423	1.208		-15.11	30
Chloroform	2.052	1.824		-11.11	30
1,1,1-Trichloroethane	2.349	1.810		-22.95	30
2,2,4-Trimethylpentane	1.675	1.593		-4.9	30
Benzene	0.991	0.928		-6.36	30
1,2-Dichloroethane	0.568	0.524		-7.75	30
Trichloroethene	0.414	0.377		-8.94	30
1,2-Dichloropropane	0.361	0.332		-8.03	30
Bromodichloromethane	0.782	0.729		-6.78	30
4-Methyl-2-Pentanone	1.149	0.969		-15.67	30
Toluene	1.175	1.010		-14.04	30
t-1,3-Dichloropropene	0.450	0.330		-26.67	30
cis-1,3-Dichloropropene	0.552	0.447		-19.02	30
1,1,2-Trichloroethane	0.382	0.357		-6.55	30
Dibromochloromethane	0.647	0.596		-7.88	30
1,2-Dibromoethane	0.532	0.481		-9.59	30
Tetrachloroethene	0.393	0.316		-19.59	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.: Q1665 SAS No.: Q1665 SDG No.: Q1665

Instrument ID: MSVOA_L Calibration Date/Time: 04/15/2025 11:30

Lab File ID: VL042326.D Init. Calib. Date(s): 03/27/2025 03/27/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 08:26 11:36

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

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Chlorobenzene	0.949	0.912		-3.9	30
Ethyl Benzene	1.776	1.555		-12.44	30
m/p-Xylene	1.418	1.292		-8.89	30
o-Xylene	1.422	1.285		-9.63	30
Styrene	0.703	0.596		-15.22	30
Bromoform	0.581	0.522		-10.15	30
1,1,2,2-Tetrachloroethane	0.864	0.835		-3.36	30
2-Chlorotoluene	1.650	1.457		-11.7	30
1,3,5-Trimethylbenzene	1.546	1.355		-12.35	30
1,2,4-Trimethylbenzene	1.781	1.515		-14.94	30
1,3-Dichlorobenzene	0.977	0.927		-5.12	30
1,4-Dichlorobenzene	0.972	0.924		-4.94	30
1,2-Dichlorobenzene	0.951	0.923		-2.94	30
1,2,4-Trichlorobenzene	0.899	0.819		-8.9	30
Hexachloro-1,3-Butadiene	0.968	0.758		-21.69	30
1,3-Butadiene	0.683	0.528		-22.69	30
Naphthalene	1.948	1.849		-5.08	30
4-Ethyltoluene	1.770	1.598		-9.72	30
1-Bromo-4-Fluorobenzene	0.821	0.792		-3.53	30
Hexane	1.402	1.241		-11.48	30
Allyl Chloride	0.986	0.772		-21.7	30
1,4-Dioxane	191.626	157.635		-17.74	30
Methyl Methacrylate	0.420	0.340		-19.05	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\VL041525\
 Data File : VL042326.D
 Acq On : 15 Apr 2025 11:30
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Quant Time: Apr 16 01:29:10 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 02:00:52 2025

Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 04/16/2025
 Supervised By : Mahesh Dadoda 04/16/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.806	49	172263	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.988	114	457227	10.000	ppbv	0.04
55) Chlorobenzene-d5	8.911	117	411493	10.000	ppbv	0.04
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.403	95	325960	9.646	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.500%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.505	85	214541	8.435	ppbv	99
3) Chlorodifluoromethane	1.483	51	235250	9.054	ppbv	98
4) Chloromethane	1.541	50	89653	8.625	ppbv	98
5) Vinyl Chloride	1.589	62	83204	7.554	ppbv	96
6) Bromomethane	1.677	94	36297	7.705	ppbv	99
7) Chloroethane	1.716	64	32145	7.704	ppbv	97
8) Dichlorotetrafluoroethane	1.564	85	182884	8.443	ppbv	94
9) Propene	1.492	41	101034	8.483	ppbv	98
10) Heptane	5.020	43	276748	8.736	ppbv	98
11) Trichlorofluoromethane	1.887	101	202387	8.178	ppbv	99
12) 1,1,2-Trichlorotrifluoro...	2.153	101	157030	7.719	ppbv	98
13) Ethanol	1.732	45	4440	3.944	ppbv	93
14) Bromoethene	1.793	108	59588	7.646	ppbv	99
15) Acetone	1.845	43	183439	7.614	ppbv	96
16) 1,3-Butadiene	1.619	39	90954	7.731	ppbv	100
17) tert-Butyl alcohol	2.052	59	209737	6.990	ppbv	100
18) 1,1-Dichloroethene	2.046	96	72322	7.605	ppbv	96
19) Isopropyl Alcohol	1.897	45	104424	7.682	ppbv	98
20) Methylene Chloride	2.075	84	60337	6.725	ppbv	90
21) Allyl Chloride	2.111	41	132956	7.825	ppbv	98
22) trans-1,2-Dichloroethene	2.357	96	81572	7.422	ppbv	96
23) Vinyl Acetate	2.480	43	72160	6.920	ppbv	97
24) 1,1-Dichloroethane	2.425	63	169411	8.315	ppbv	100
25) Ethyl Acetate	2.855	43	564611	9.030	ppbv	99
26) Hexane	2.845	57	213782	8.851	ppbv	98
27) Carbon Disulfide	2.166	76	195452	7.547	ppbv	97
28) Methyl tert-Butyl Ether	2.457	73	116301	7.734	ppbv	96
29) Chloroform	2.868	83	314164	8.888	ppbv	100
30) Cyclohexane	3.884	84	173360	8.266	ppbv	98
31) cis-1,2-Dichloroethene	2.739	61	208160	8.490	ppbv	96
32) 1,1,1-Trichloroethane	3.392	97	311758	7.704	ppbv	98
34) 2-Butanone	2.577	43	317117	9.565	ppbv	97
35) Carbon Tetrachloride	3.790	117	317942	8.902	ppbv	99
36) Benzene	3.684	78	424254	9.360	ppbv	94
37) 1,2-Dichloroethane	3.243	62	239556	9.231	ppbv	100
38) Trichloroethene	4.583	130	172146	9.102	ppbv	96
39) 1,2-Dichloropropane	4.350	63	151707	9.190	ppbv	96
40) 1,4-Dioxane	4.622	88	72075	8.226	ppbv #	98
41) Tetrahydrofuran	3.075	42	181471	9.505	ppbv	95
42) Bromodichloromethane	4.525	83	333167	9.313	ppbv	97
43) Methyl Methacrylate	4.923	69	155399	8.098	ppbv	96
44) 2,2,4-Trimethylpentane	4.677	57	728571	9.511	ppbv	99
45) t-1,3-Dichloropropene	6.461	75	151063	7.338	ppbv	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041525\
 Data File : VL042326.D
 Acq On : 15 Apr 2025 11:30
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Quant Time: Apr 16 01:29:10 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 02:00:52 2025

Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 04/16/2025
 Supervised By : Mahesh Dadoda 04/16/2025

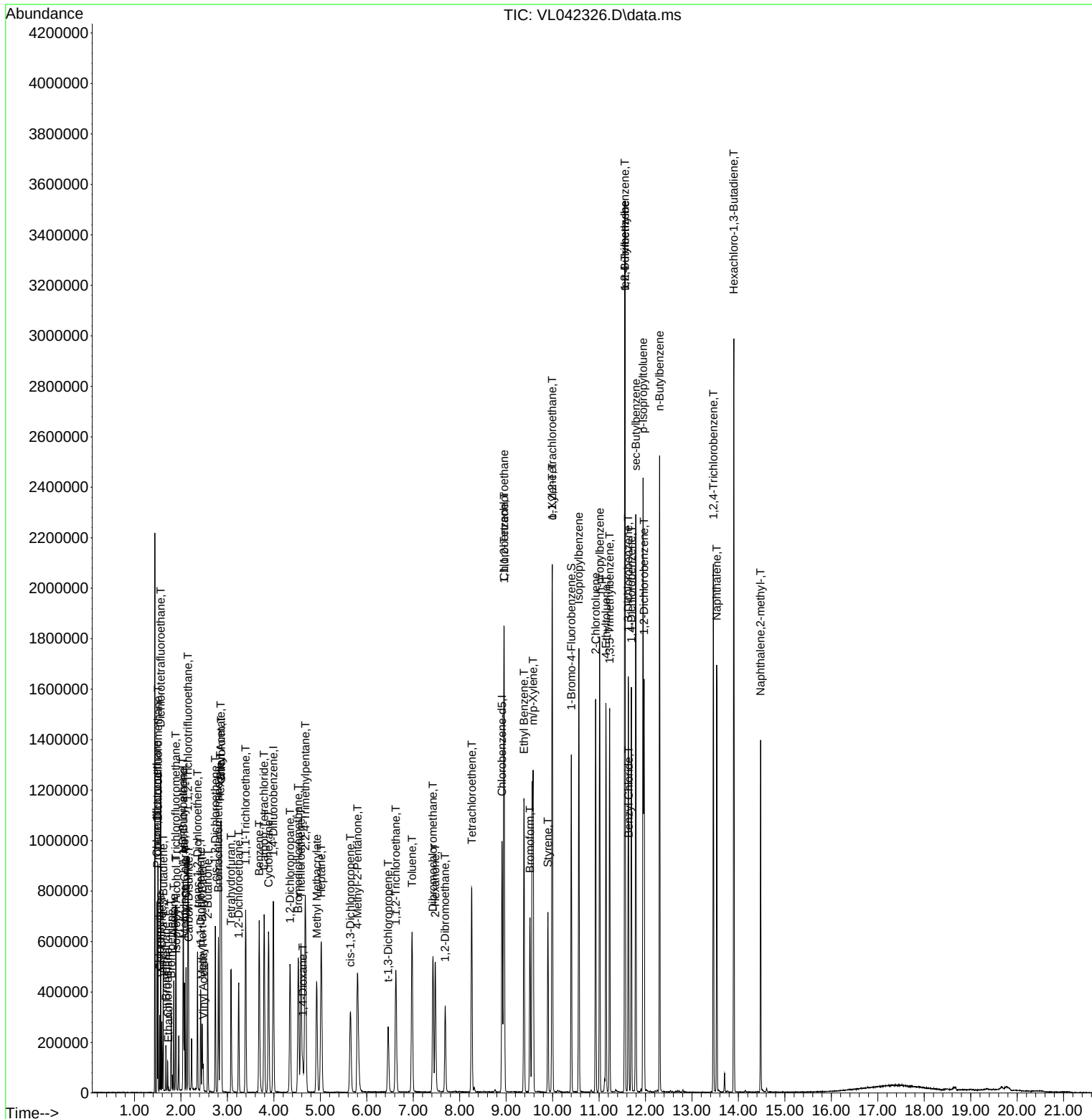
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.648	75	204339	8.097	ppbv	98
47) 1,1,2-Trichloroethane	6.626	97	163132	9.348	ppbv	97
48) Dibromochloromethane	7.425	129	272592	9.217	ppbv	99
49) Bromoform	9.513	173	238880	8.997	ppbv	100
50) 4-Methyl-2-Pentanone	5.800	43	442851	8.428	ppbv	97
51) 2-Hexanone	7.474	43	353471	8.192	ppbv #	97
52) Tetrachloroethene	8.260	164	144481	8.037	ppbv	98
53) Toluene	6.975	91	461854	8.595	ppbv	100
54) 1,2-Dibromoethane	7.687	107	220075	9.047	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.956	131	214175	9.455	ppbv	99
57) Chlorobenzene	8.953	112	375357	9.617	ppbv	97
58) Ethyl Benzene	9.383	91	639857	8.754	ppbv	99
59) m/p-Xylene	9.581	91	1063509m	18.222	ppbv	
60) o-Xylene	9.992	91	528896	9.040	ppbv	95
61) Styrene	9.898	104	245300	8.474	ppbv	97
62) Isopropylbenzene	10.565	105	794408	9.079	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.992	83	343786	9.671	ppbv	100
64) n-propylbenzene	11.015	120	212879	9.452	ppbv	95
65) tert-Butylbenzene	11.555	119	721078	8.911	ppbv	97
66) Benzyl Chloride	11.639	91	54427	6.339	ppbv	98
67) sec-Butylbenzene	11.791	105	1026079	9.123	ppbv	99
69) p-Isopropyltoluene	11.947	119	865385	8.935	ppbv	99
70) n-Butylbenzene	12.303	91	884265	8.928	ppbv	99
71) 2-Chlorotoluene	10.927	91	599592	8.830	ppbv	98
72) 4-Ethyltoluene	11.147	105	657765	9.029	ppbv	99
73) 1,3,5-Trimethylbenzene	11.228	105	557593	8.764	ppbv	99
74) 1,2,4-Trimethylbenzene	11.558	105	623563	8.507	ppbv #	86
75) 1,3-Dichlorobenzene	11.630	146	381572	9.492	ppbv	98
76) 1,4-Dichlorobenzene	11.694	146	380035	9.499	ppbv	98
77) 1,2-Dichlorobenzene	11.969	146	379896	9.706	ppbv	97
78) Hexachloro-1,3-Butadiene	13.902	225	311900	7.828	ppbv	99
79) Naphthalene	13.533	128	760876	9.490	ppbv	99
80) Naphthalene,2-methyl-	14.478	142	365398	9.294	ppbv	98
81) 1,2,4-Trichlorobenzene	13.461	180	337032	9.114	ppbv	99

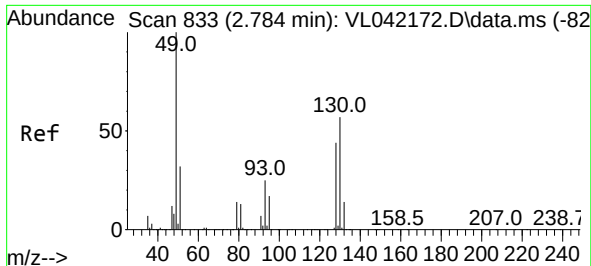
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025

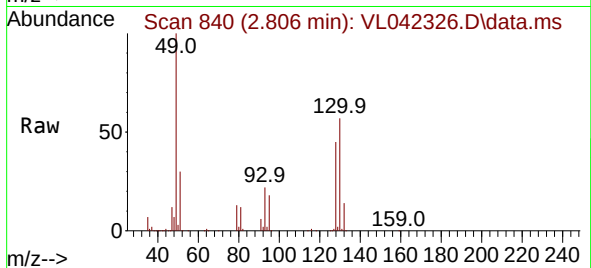
Quant Time: Apr 16 01:29:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.806 min Scan# 84
Delta R.T. 0.022 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

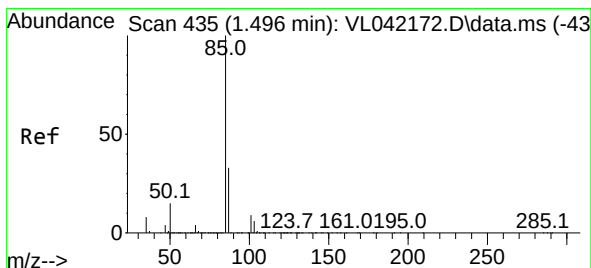
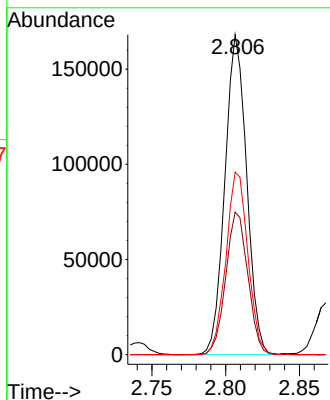
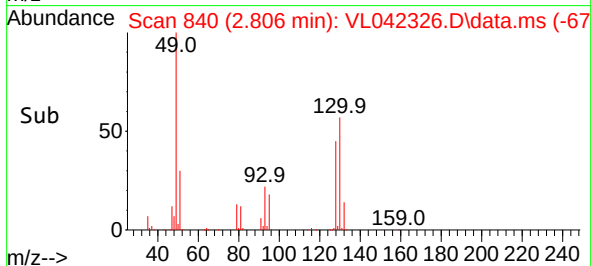
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion: 49 Resp: 17226
Ion Ratio Lower Upper
49 100
128 45.3 22.9 68.5
130 57.8 28.8 86.4

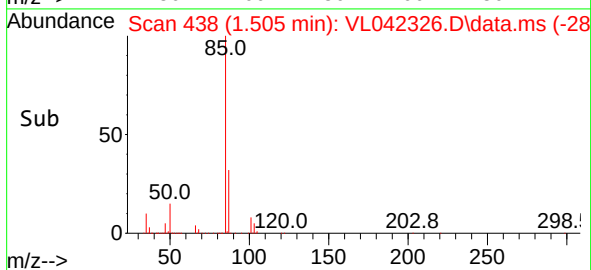
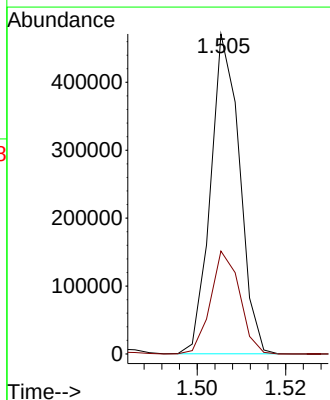
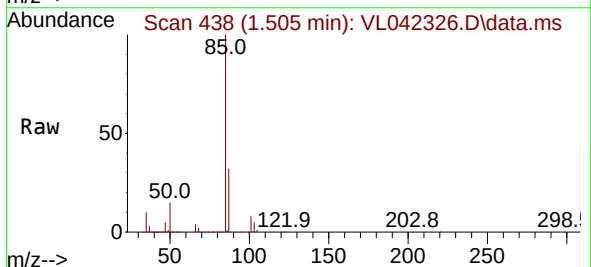
Manual Integrations
APPROVED

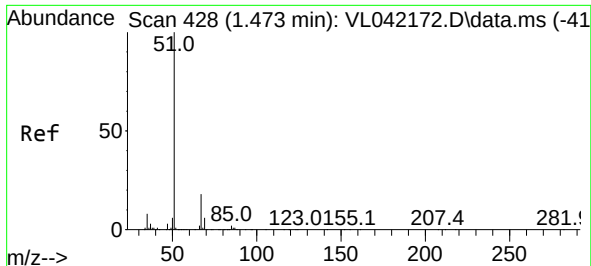
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025



#2
Dichlorodifluoromethane
Concen: 8.435 ppbv
RT: 1.505 min Scan# 438
Delta R.T. 0.010 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 85 Resp: 214541
Ion Ratio Lower Upper
85 100
87 32.1 26.1 39.1





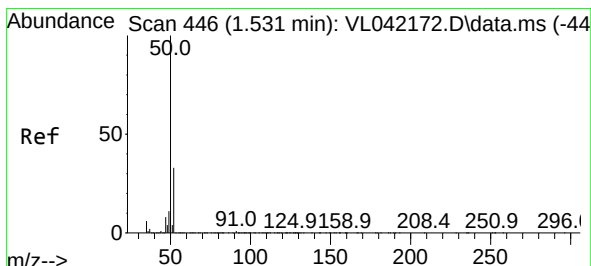
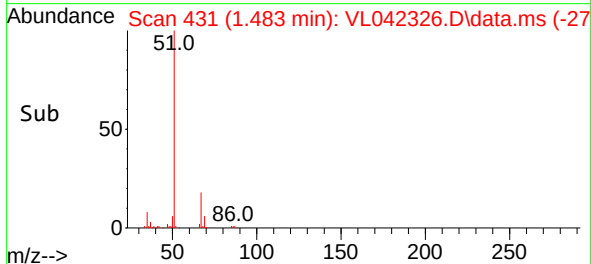
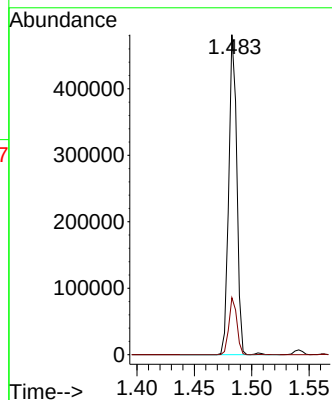
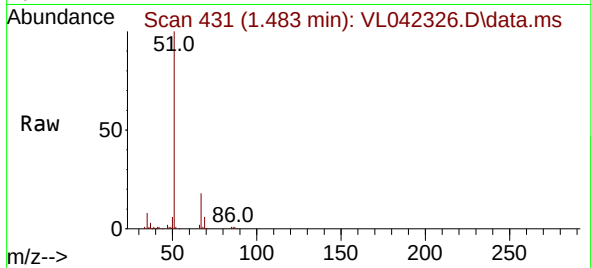
#3
Chlorodifluoromethane
Concen: 9.054 ppbv
RT: 1.483 min Scan# 41
Delta R.T. 0.010 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 51 Resp: 235250
Ion Ratio Lower Upper
51 100
67 17.7 15.0 22.6

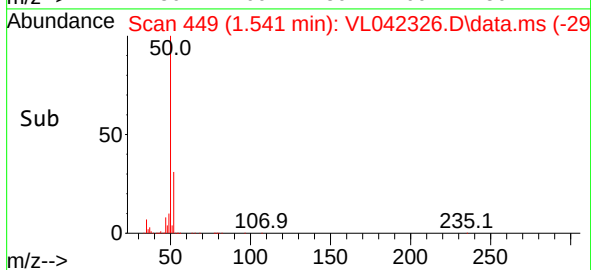
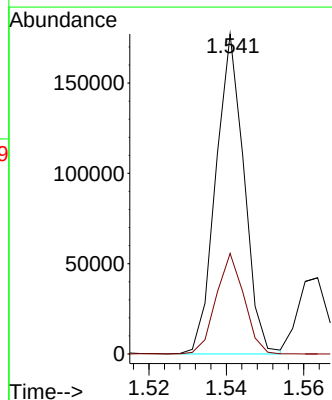
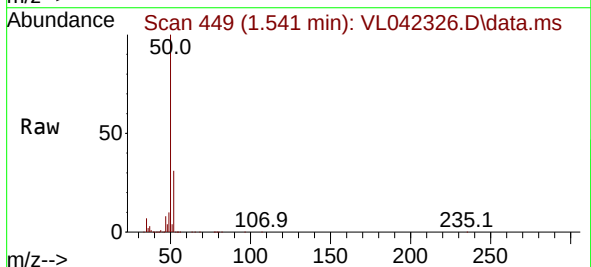
Manual Integrations
APPROVED

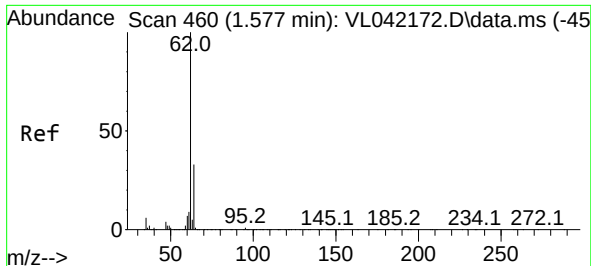
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025



#4
Chloromethane
Concen: 8.625 ppbv
RT: 1.541 min Scan# 449
Delta R.T. 0.010 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 50 Resp: 89653
Ion Ratio Lower Upper
50 100
52 31.4 26.1 39.1





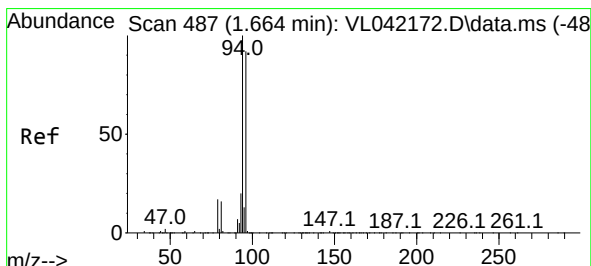
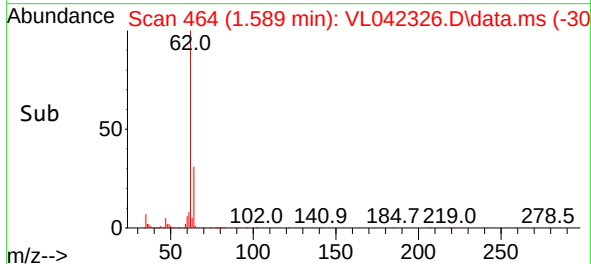
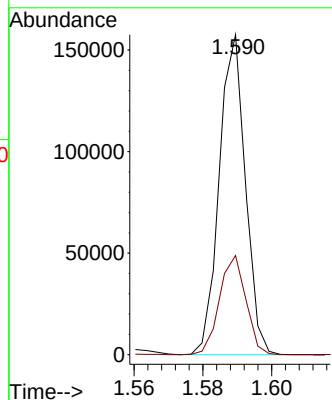
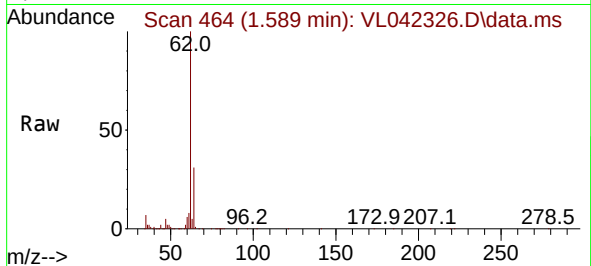
#5
 Vinyl Chloride
 Concen: 7.554 ppbv
 RT: 1.589 min Scan# 408
 Delta R.T. 0.013 min
 Lab File: VL042326.D
 Acq: 15 Apr 2025 11:30

Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDCCC010

Tgt Ion: 62 Resp: 83204
 Ion Ratio Lower Upper
 62 100
 64 31.0 26.6 40.0

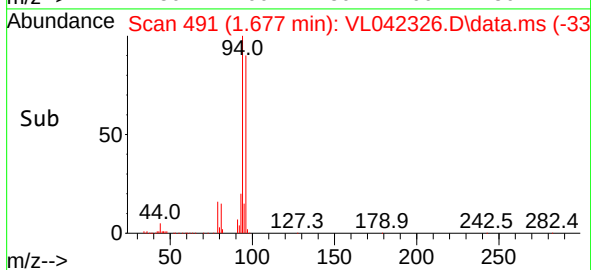
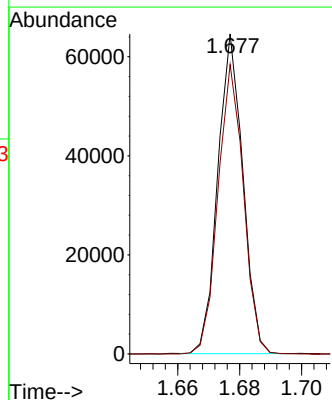
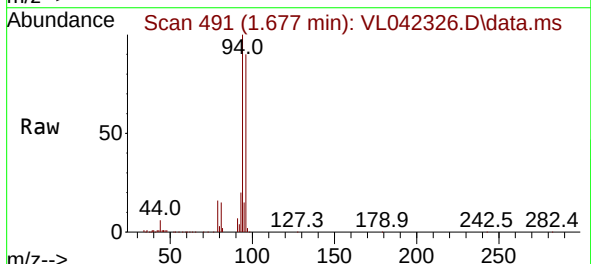
Manual Integrations
 APPROVED

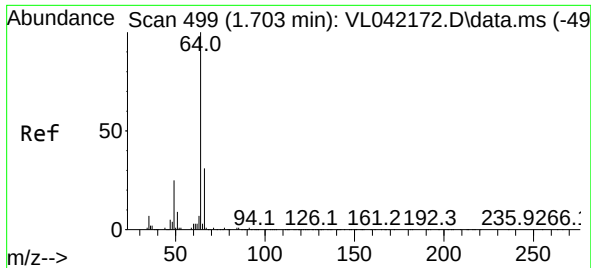
Reviewed By :Semsettin Yesilyurt 04/16/2025
 Supervised By :Mahesh Dadoda 04/16/2025



#6
 Bromomethane
 Concen: 7.705 ppbv
 RT: 1.677 min Scan# 491
 Delta R.T. 0.013 min
 Lab File: VL042326.D
 Acq: 15 Apr 2025 11:30

Tgt Ion: 94 Resp: 36297
 Ion Ratio Lower Upper
 94 100
 96 90.5 73.1 109.7





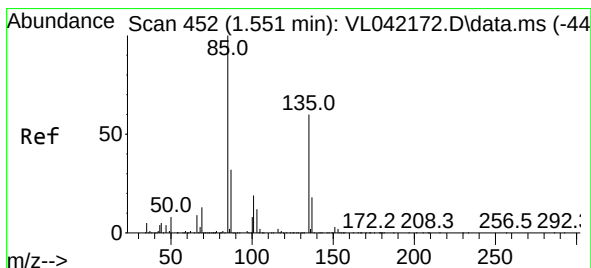
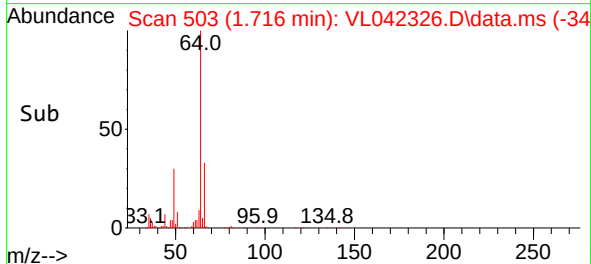
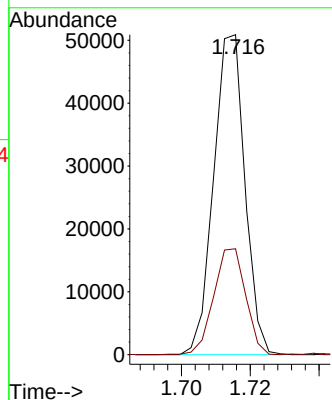
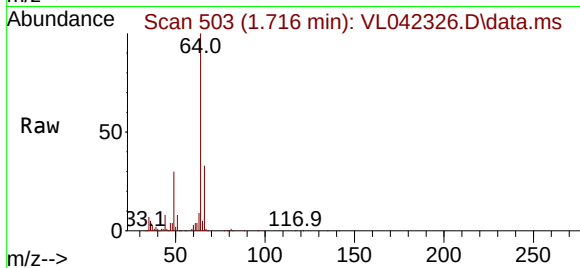
#7
Chloroethane
Concen: 7.704 ppbv
RT: 1.716 min Scan# 503
Delta R.T. 0.013 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 64 Resp: 3214
Ion Ratio Lower Upper
64 100
66 33.1 25.2 37.8

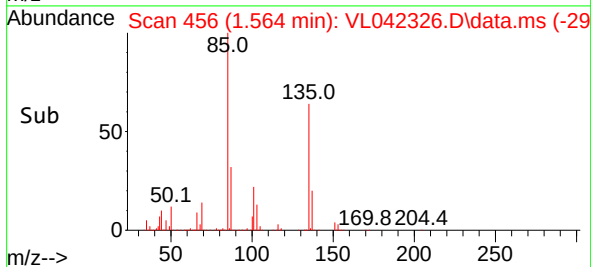
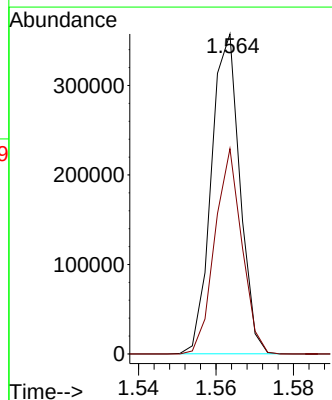
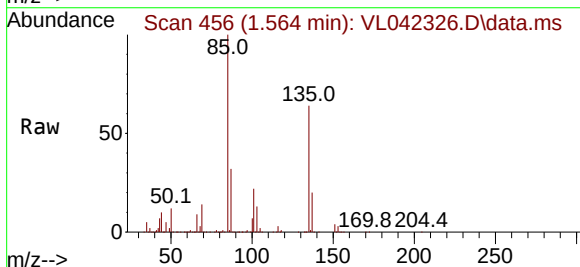
Manual Integrations
APPROVED

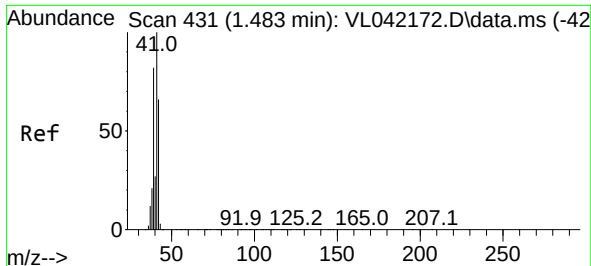
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025



#8
Dichlorotetrafluoroethane
Concen: 8.443 ppbv
RT: 1.564 min Scan# 456
Delta R.T. 0.013 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 85 Resp: 182884
Ion Ratio Lower Upper
85 100
135 60.9 52.4 78.6





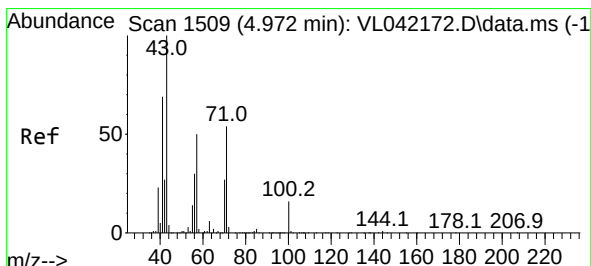
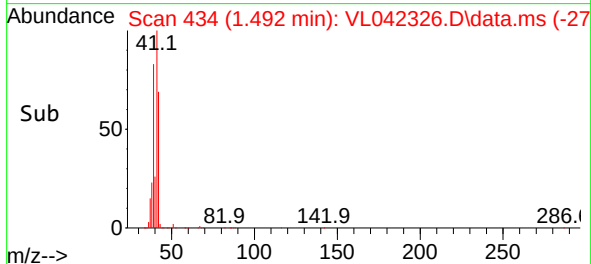
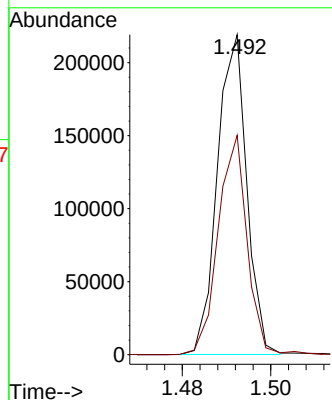
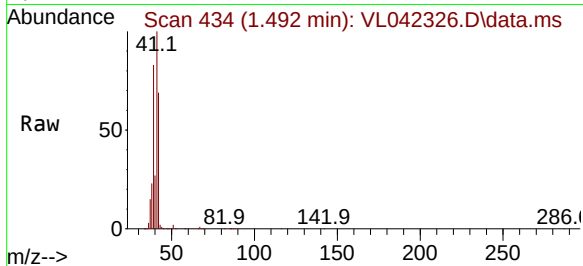
#9
 Propene
 Concen: 8.483 ppbv
 RT: 1.492 min Scan# 41
 Delta R.T. 0.010 min
 Lab File: VL042326.D
 Acq: 15 Apr 2025 11:30

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tgt Ion: 41 Resp: 101034
 Ion Ratio Lower Upper
 41 100
 42 67.9 55.4 83.2

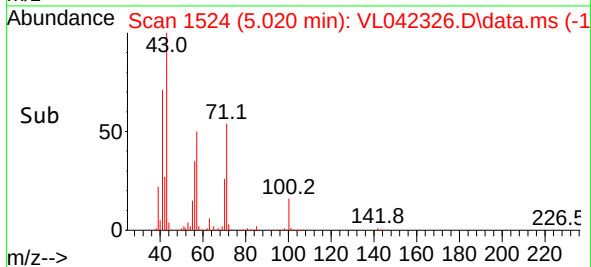
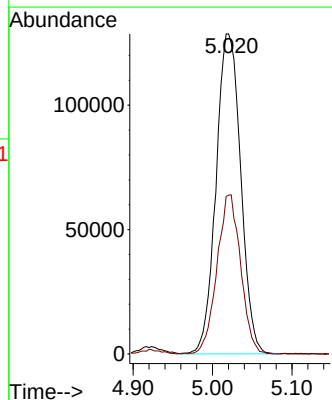
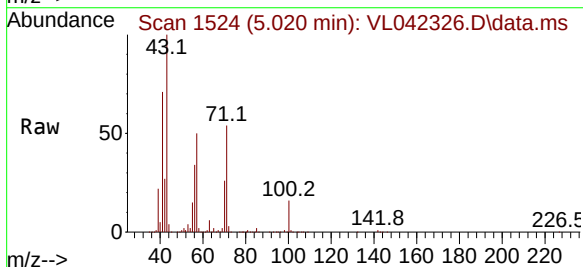
Manual Integrations
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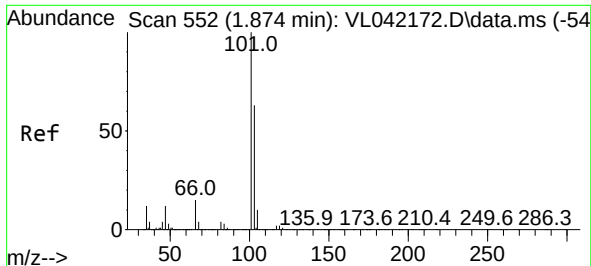
Reviewed By :Semsettin Yesilyurt 04/16/2025
 Supervised By :Mahesh Dadoda 04/16/2025



#10
 Heptane
 Concen: 8.736 ppbv
 RT: 5.020 min Scan# 1524
 Delta R.T. 0.048 min
 Lab File: VL042326.D
 Acq: 15 Apr 2025 11:30

Tgt Ion: 43 Resp: 276748
 Ion Ratio Lower Upper
 43 100
 57 47.8 39.4 59.2





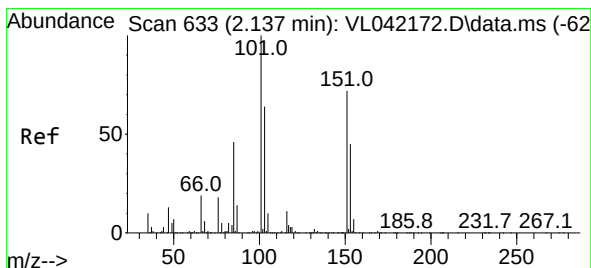
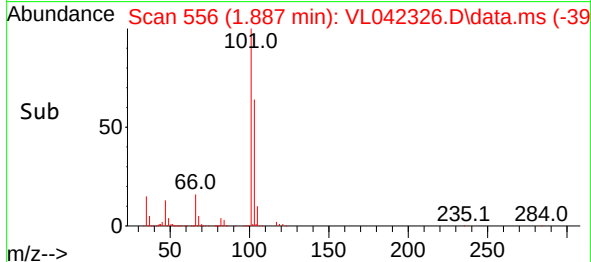
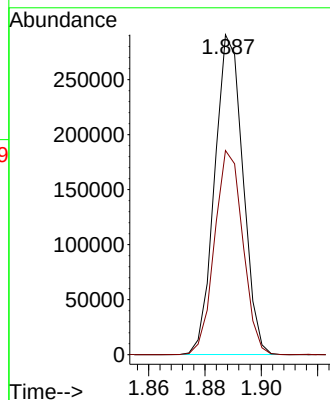
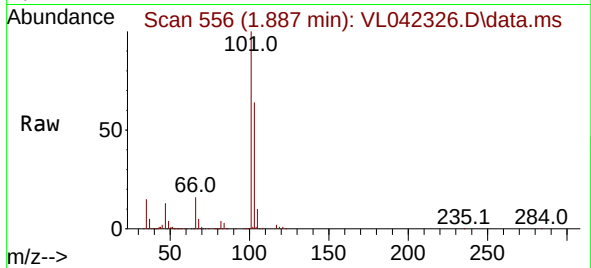
#11
Trichlorofluoromethane
Concen: 8.178 ppbv
RT: 1.887 min Scan# 51
Delta R.T. 0.013 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:101 Resp: 20238
Ion Ratio Lower Upper
101 100
103 63.8 50.2 75.2

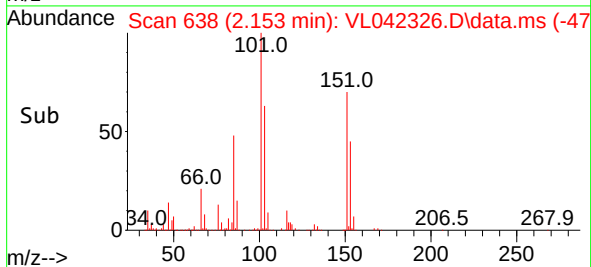
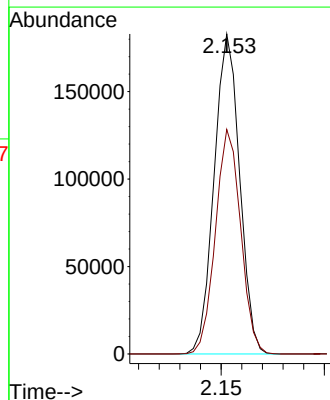
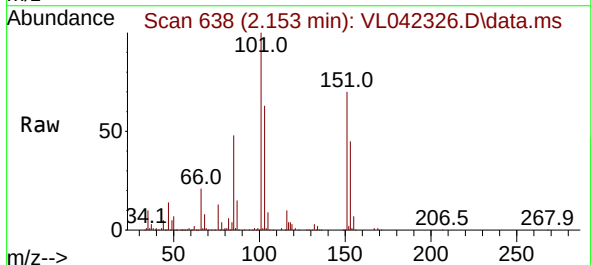
Manual Integrations
APPROVED

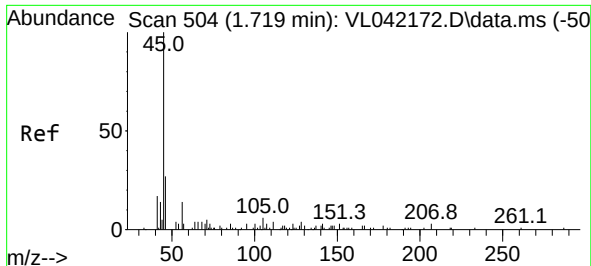
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025



#12
1,1,2-Trichlorotrifluoroethane
Concen: 7.719 ppbv
RT: 2.153 min Scan# 638
Delta R.T. 0.016 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion:101 Resp: 157030
Ion Ratio Lower Upper
101 100
151 69.5 57.1 85.7





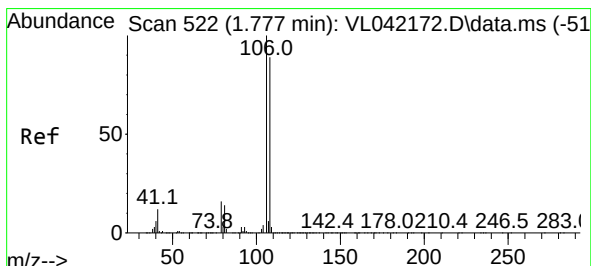
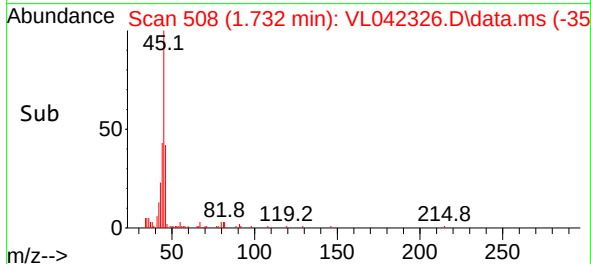
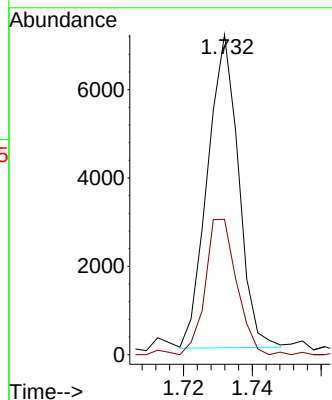
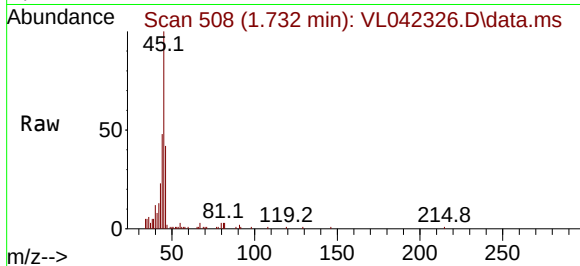
#13
Ethanol
Concen: 3.944 ppbv
RT: 1.732 min Scan# 504
Delta R.T. 0.013 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 45 Resp: 4440
Ion Ratio Lower Upper
45 100
46 45.7 20.2 80.8

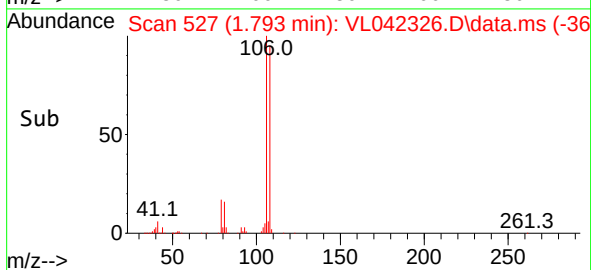
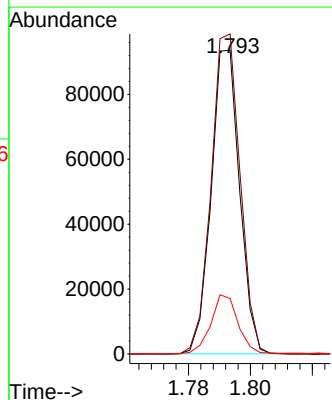
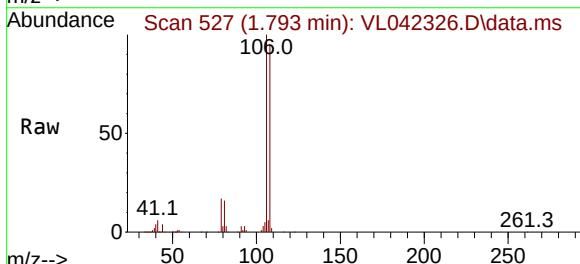
Manual Integrations
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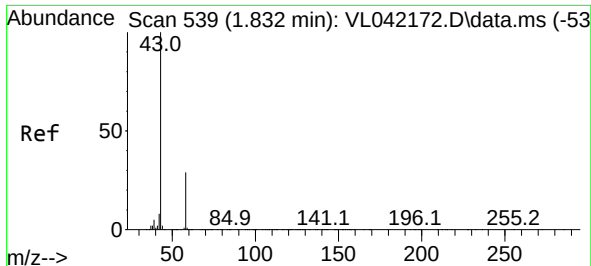
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025



#14
Bromoethene
Concen: 7.646 ppbv
RT: 1.793 min Scan# 527
Delta R.T. 0.016 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion:108 Resp: 59588
Ion Ratio Lower Upper
108 100
106 107.3 86.8 130.2
79 19.2 15.0 22.6





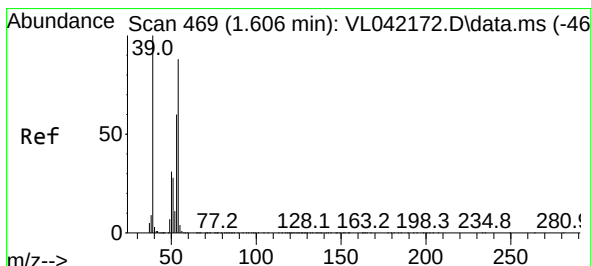
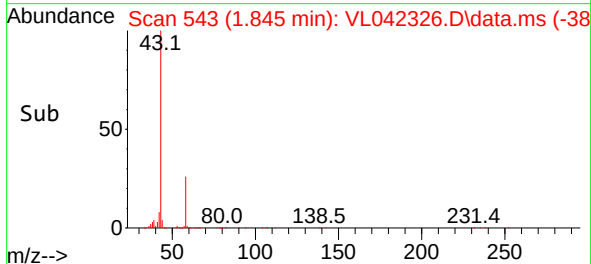
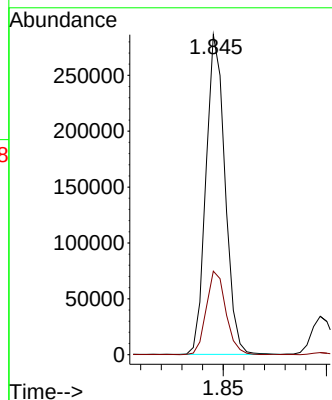
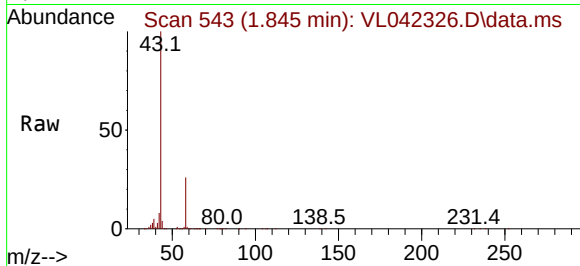
#15
Acetone
Concen: 7.614 ppbv
RT: 1.845 min Scan# 54
Delta R.T. 0.013 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 43 Resp: 183439
Ion Ratio Lower Upper
43 100
58 27.0 23.2 34.8

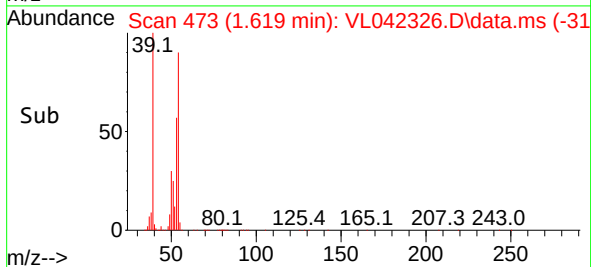
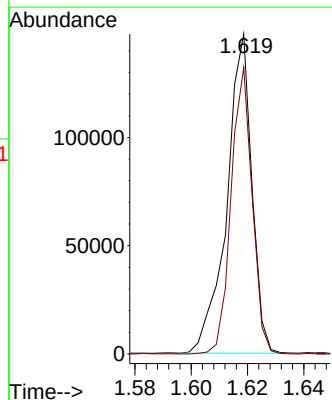
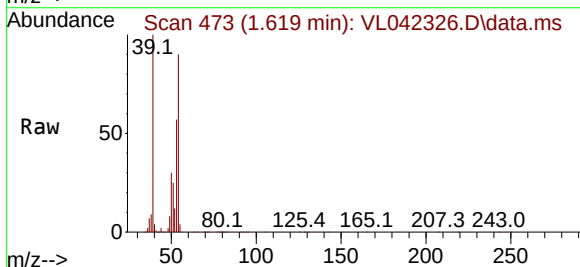
Manual Integrations
APPROVED

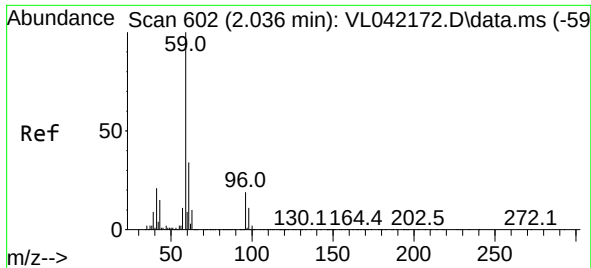
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025



#16
1,3-Butadiene
Concen: 7.731 ppbv
RT: 1.619 min Scan# 473
Delta R.T. 0.013 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 39 Resp: 90954
Ion Ratio Lower Upper
39 100
54 75.6 60.7 91.1





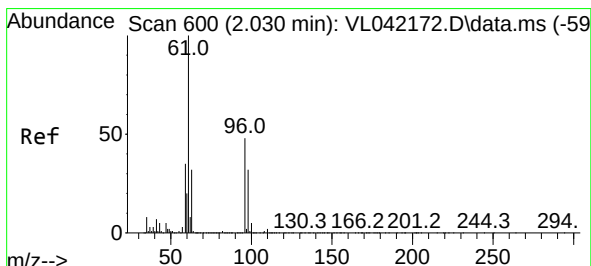
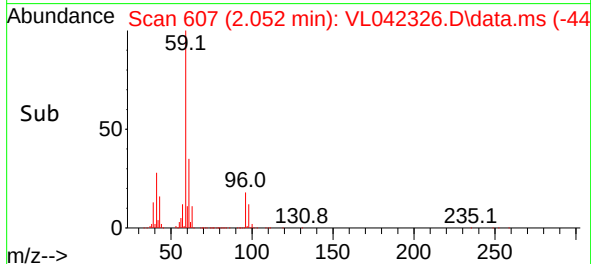
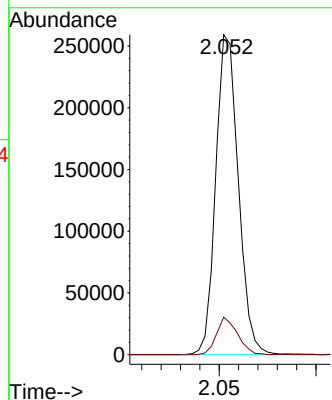
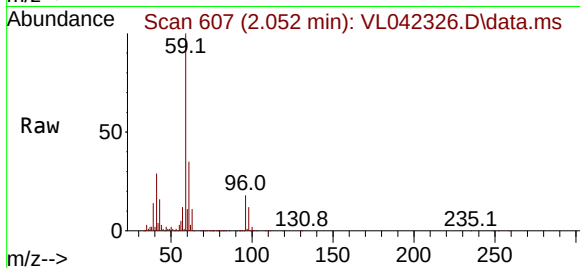
#17
tert-Butyl alcohol
Concen: 6.990 ppbv
RT: 2.052 min Scan# 60
Delta R.T. 0.016 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 59 Resp: 20973
Ion Ratio Lower Upper
59 100
57 11.0 8.9 13.3

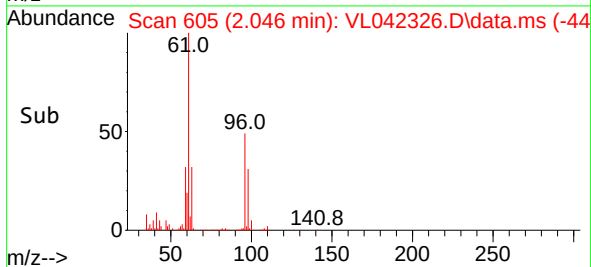
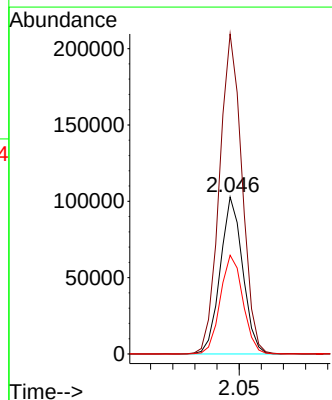
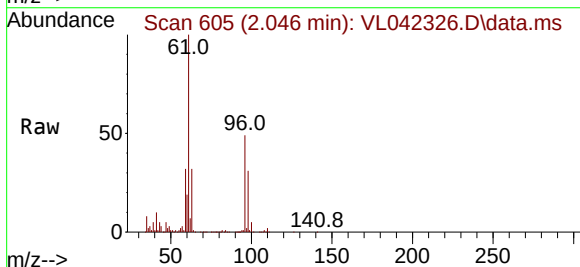
Manual Integrations
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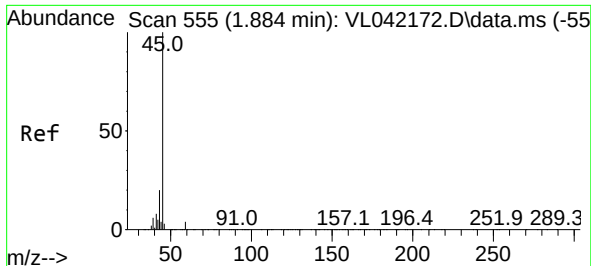
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025



#18
1,1-Dichloroethene
Concen: 7.605 ppbv
RT: 2.046 min Scan# 605
Delta R.T. 0.016 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

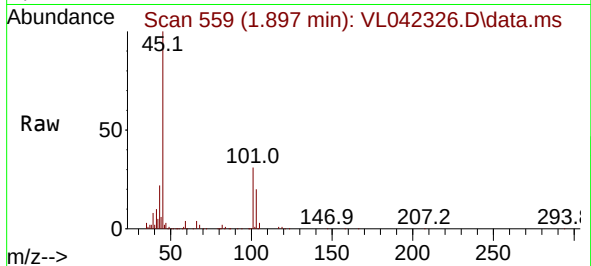
Tgt Ion: 96 Resp: 72322
Ion Ratio Lower Upper
96 100
61 203.8 167.6 251.4
98 62.9 53.5 80.3





#19
Isopropyl Alcohol
Concen: 7.682 ppbv
RT: 1.897 min Scan# 51
Delta R.T. 0.013 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

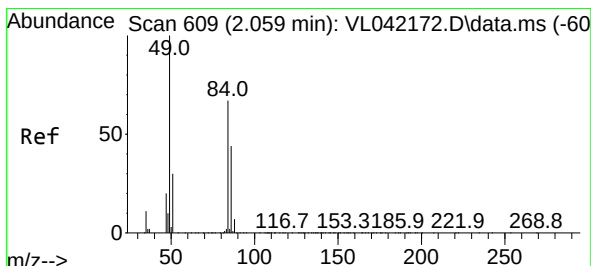
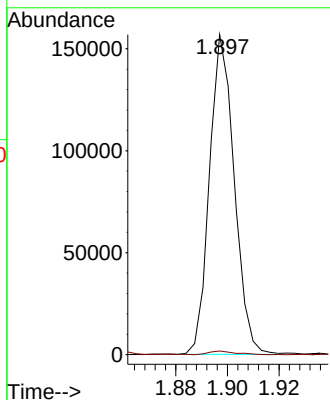
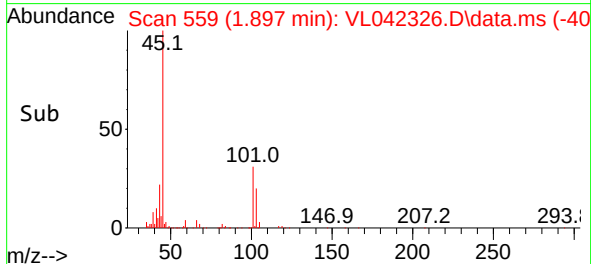
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



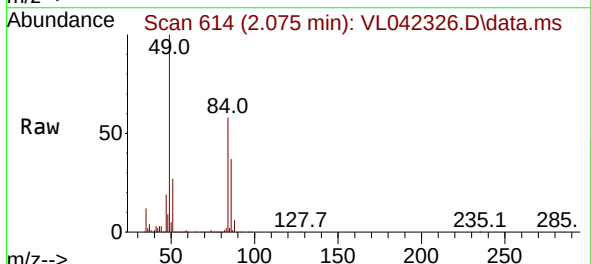
Tgt Ion: 45 Resp: 104424
Ion Ratio Lower Upper
45 100
58 47.5 36.9 55.3

Manual Integrations
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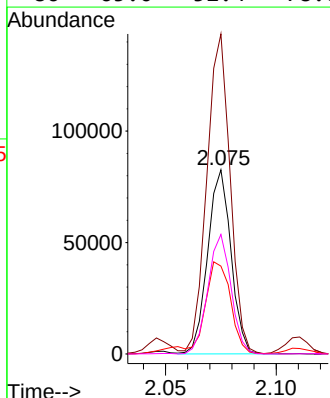
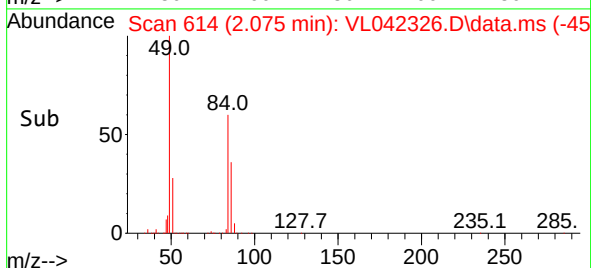
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025

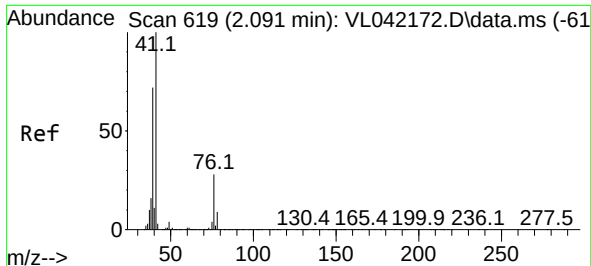


#20
Methylene Chloride
Concen: 6.725 ppbv
RT: 2.075 min Scan# 614
Delta R.T. 0.016 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30



Tgt Ion: 84 Resp: 60337
Ion Ratio Lower Upper
84 100
49 172.1 120.2 180.4
51 47.0 37.4 56.0
86 65.0 52.4 78.6





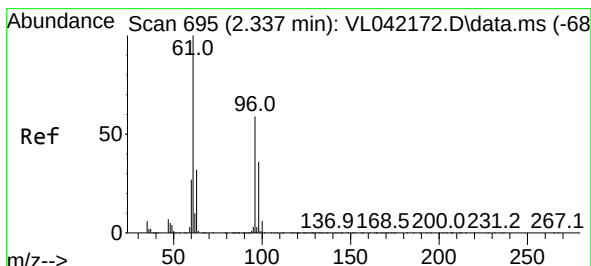
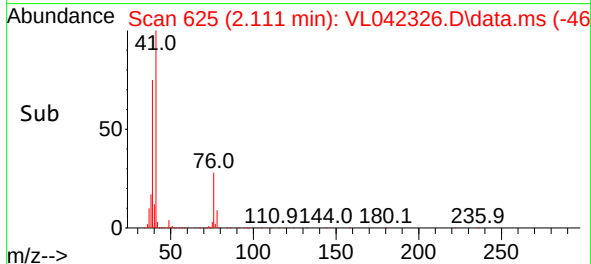
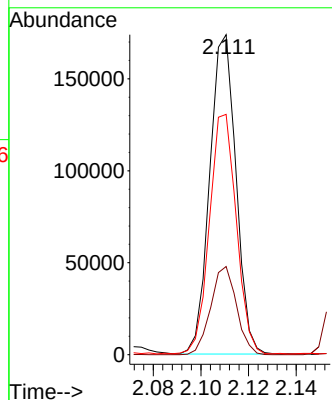
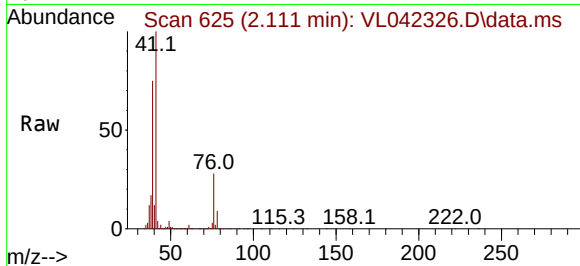
#21
 Allyl Chloride
 Concen: 7.825 ppbv
 RT: 2.111 min Scan# 61
 Delta R.T. 0.019 min
 Lab File: VL042326.D
 Acq: 15 Apr 2025 11:30

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tgt Ion: 41 Resp: 132950
 Ion Ratio Lower Upper
 41 100
 76 27.1 24.1 36.1
 39 76.9 61.1 91.7

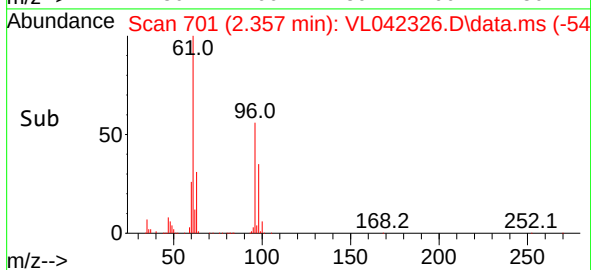
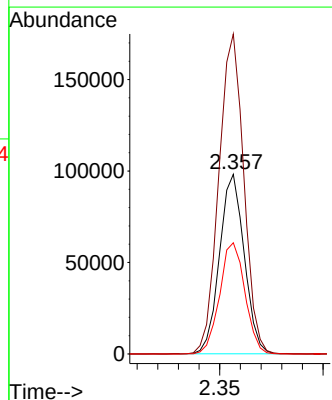
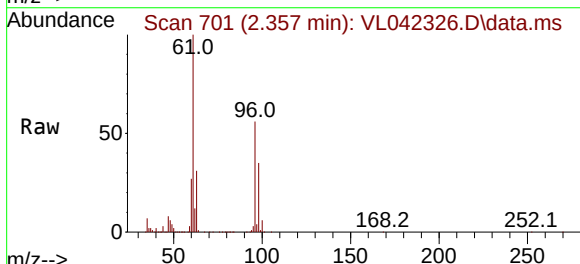
Manual Integrations
 APPROVED

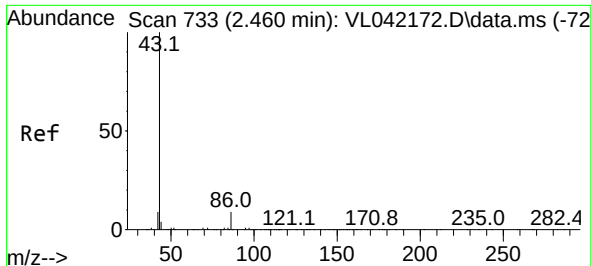
Reviewed By :Semsettin Yesilyurt 04/16/2025
 Supervised By :Mahesh Dadoda 04/16/2025



#22
 trans-1,2-Dichloroethene
 Concen: 7.422 ppbv
 RT: 2.357 min Scan# 701
 Delta R.T. 0.019 min
 Lab File: VL042326.D
 Acq: 15 Apr 2025 11:30

Tgt Ion: 96 Resp: 81572
 Ion Ratio Lower Upper
 96 100
 61 178.1 136.6 204.8
 98 61.9 49.4 74.2





#23
 Vinyl Acetate
 Concen: 6.920 ppbv
 RT: 2.480 min Scan# 716
 Delta R.T. 0.019 min
 Lab File: VL042326.D
 Acq: 15 Apr 2025 11:30

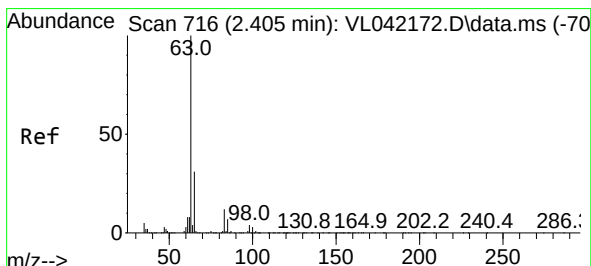
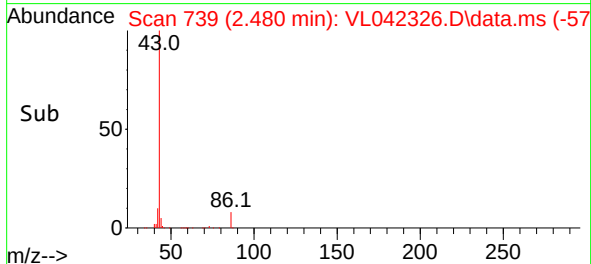
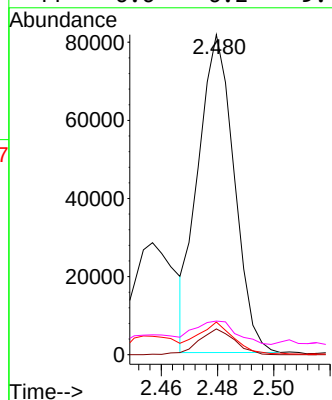
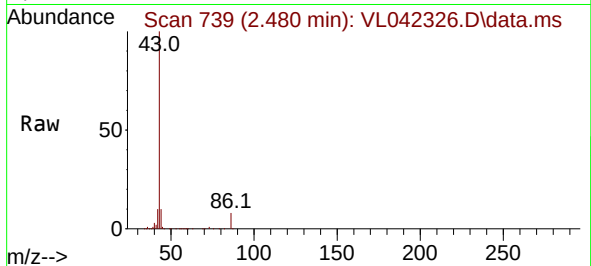
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tgt Ion: 43 Resp: 72160

Ion	Ratio	Lower	Upper
43	100		
86	8.1	5.5	8.3
42	9.8	8.6	13.0
44	6.6	6.2	9.4

Manual Integrations
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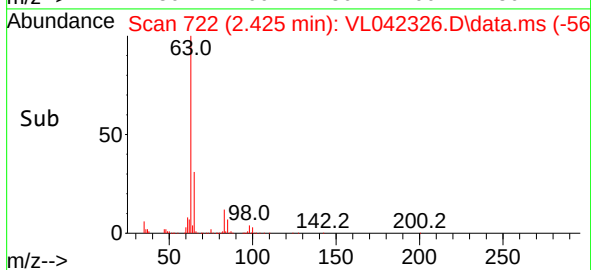
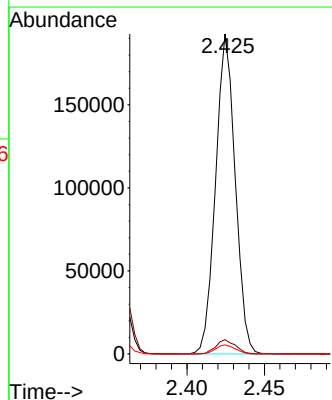
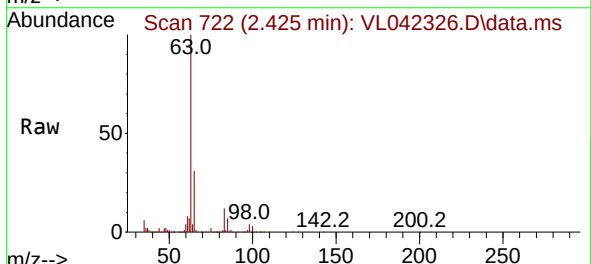
Reviewed By :Semsettin Yesilyurt 04/16/2025
 Supervised By :Mahesh Dadoda 04/16/2025

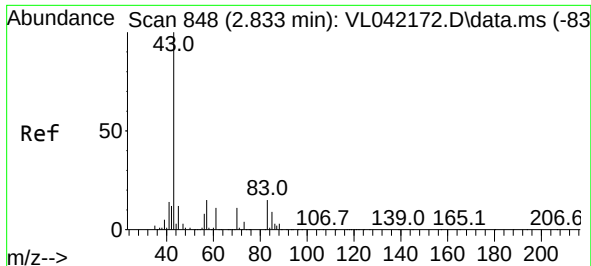


#24
 1,1-Dichloroethane
 Concen: 8.315 ppbv
 RT: 2.425 min Scan# 722
 Delta R.T. 0.019 min
 Lab File: VL042326.D
 Acq: 15 Apr 2025 11:30

Tgt Ion: 63 Resp: 169411

Ion	Ratio	Lower	Upper
63	100		
98	4.4	2.3	6.8
100	2.8	1.6	4.7





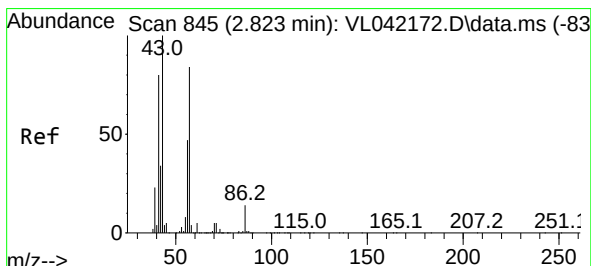
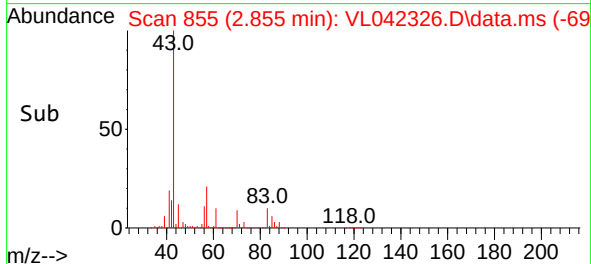
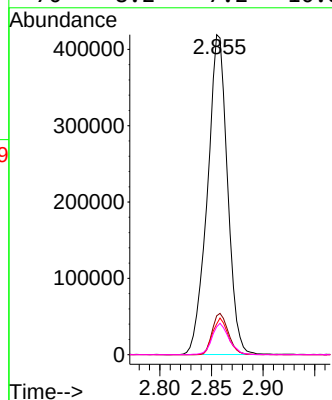
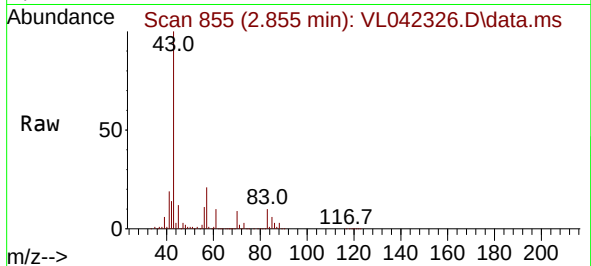
#25
Ethyl Acetate
Concen: 9.030 ppbv
RT: 2.855 min Scan# 81
Delta R.T. 0.023 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 43	Resp: 56461
Ion Ratio	Lower Upper
43 100	
45 10.4	8.2 12.2
61 9.0	7.3 10.9
70 8.2	7.2 10.8

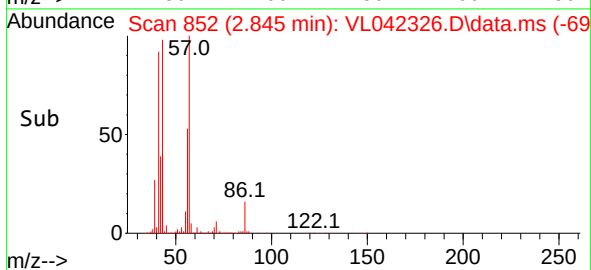
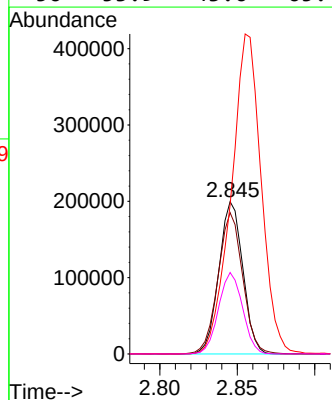
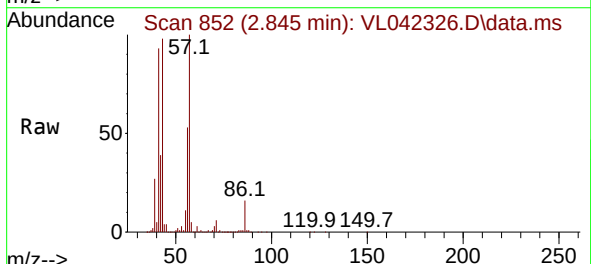
Manual Integrations
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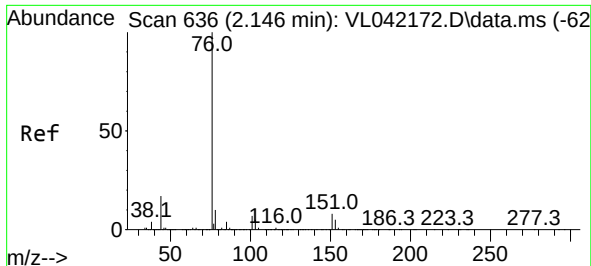
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025



#26
Hexane
Concen: 8.851 ppbv
RT: 2.845 min Scan# 852
Delta R.T. 0.023 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

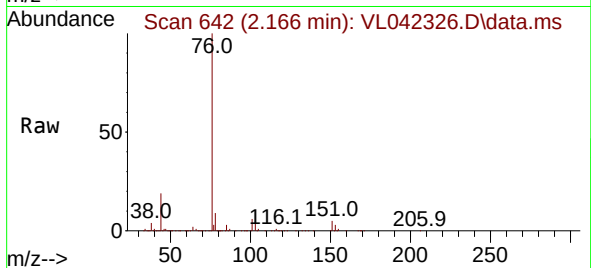
Tgt Ion: 57	Resp: 213782
Ion Ratio	Lower Upper
57 100	
41 95.9	76.6 114.8
43 264.9	207.8 311.8
56 53.9	43.6 65.4





#27
Carbon Disulfide
Concen: 7.547 ppbv
RT: 2.166 min Scan# 642
Delta R.T. 0.019 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

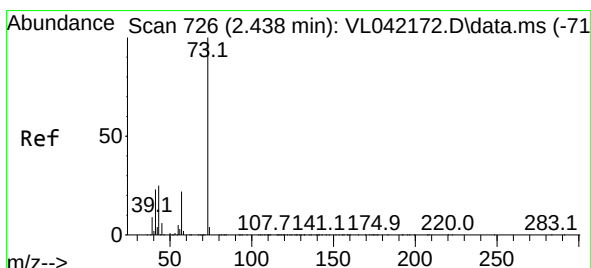
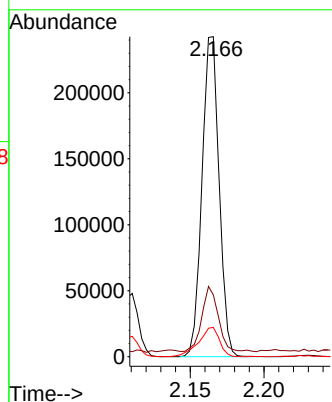
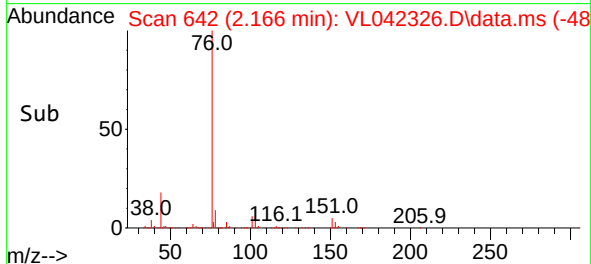
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



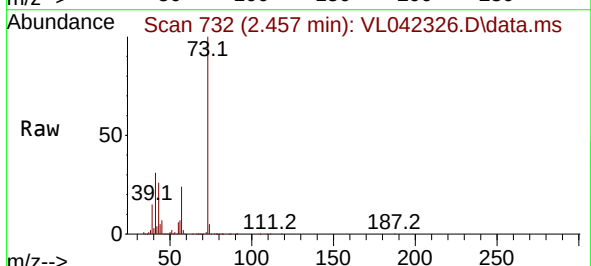
Tgt Ion: 76 Resp: 195452
Ion Ratio Lower Upper
76 100
44 20.1 14.7 22.1
78 11.2 9.3 13.9

Manual Integrations
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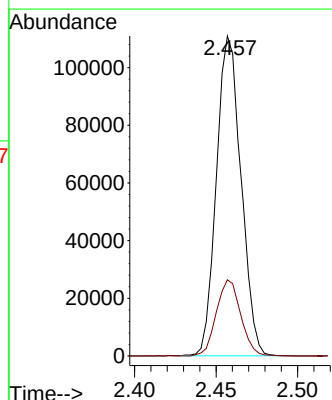
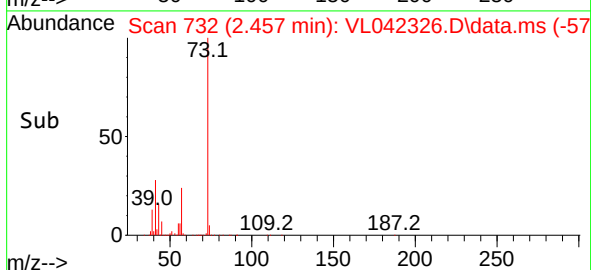
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025

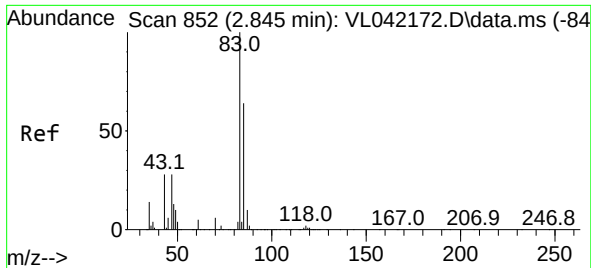


#28
Methyl tert-Butyl Ether
Concen: 7.734 ppbv
RT: 2.457 min Scan# 732
Delta R.T. 0.019 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30



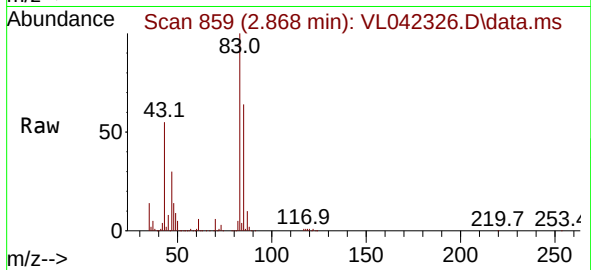
Tgt Ion: 73 Resp: 116301
Ion Ratio Lower Upper
73 100
57 23.7 20.5 30.7





#29
Chloroform
Concen: 8.888 ppbv
RT: 2.868 min Scan# 81
Delta R.T. 0.023 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

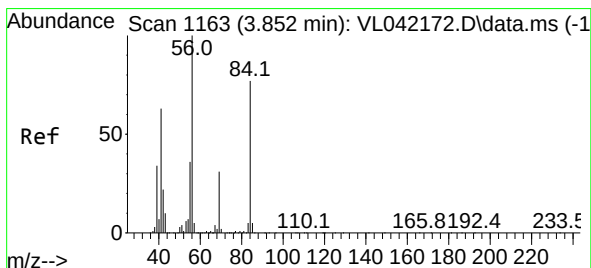
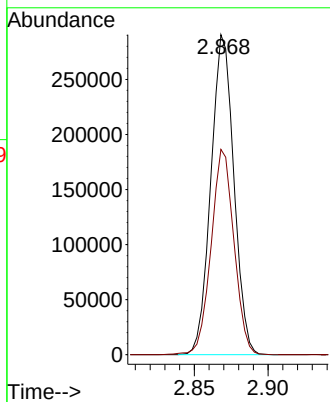
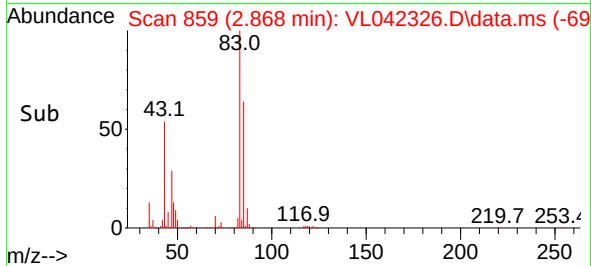
Instrument :
MSVOA_L
ClientSampleId :
VSTDC0010



Tgt Ion: 83 Resp: 314164
Ion Ratio Lower Upper
83 100
85 64.2 51.4 77.2

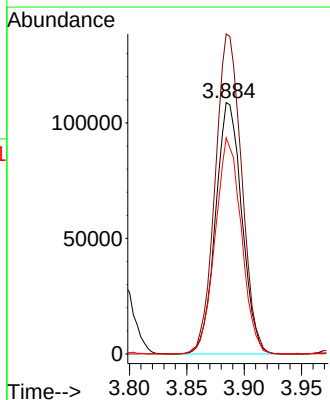
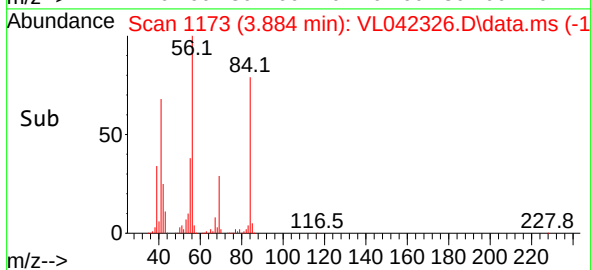
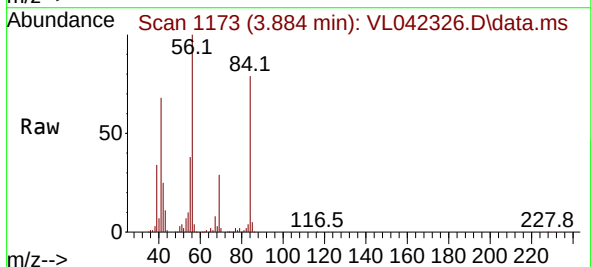
Manual Integrations
APPROVED

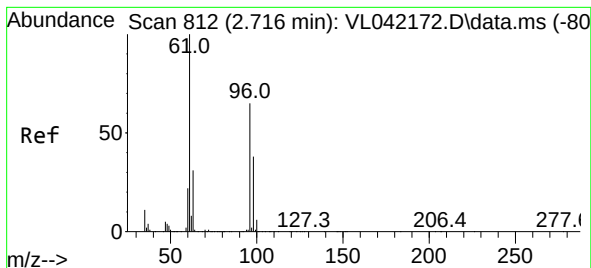
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025



#30
Cyclohexane
Concen: 8.266 ppbv
RT: 3.884 min Scan# 1173
Delta R.T. 0.032 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

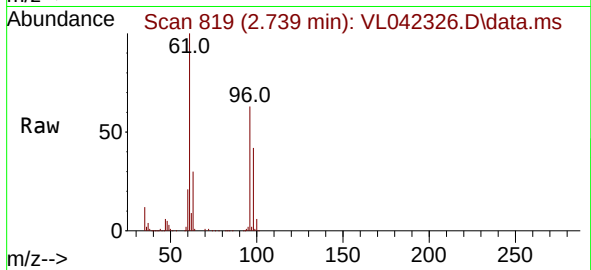
Tgt Ion: 84 Resp: 173360
Ion Ratio Lower Upper
84 100
56 127.7 102.8 154.2
41 85.6 66.5 99.7





#31
cis-1,2-Dichloroethene
Concen: 8.490 ppbv
RT: 2.739 min Scan# 812
Delta R.T. 0.023 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

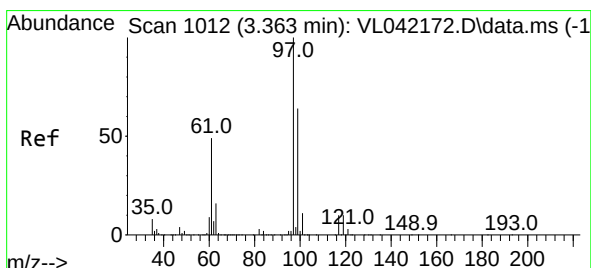
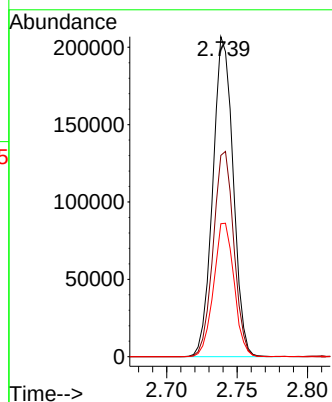
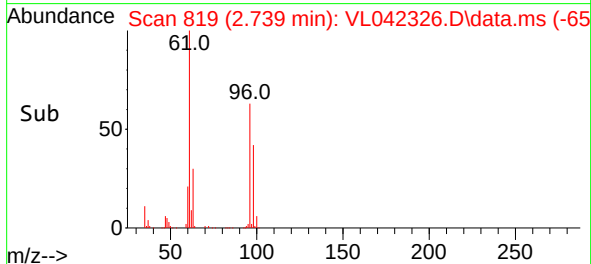
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



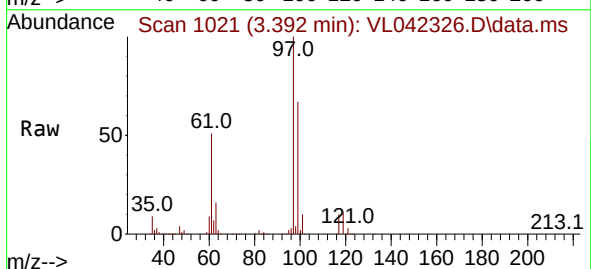
Tgt Ion: 61 Resp: 208160
Ion Ratio Lower Upper
61 100
96 62.9 51.8 77.8
98 41.5 30.6 46.0

Manual Integrations
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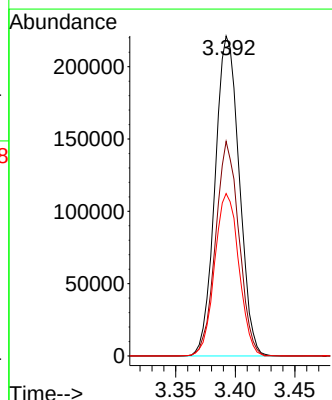
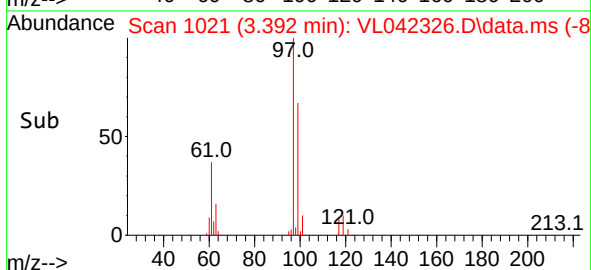
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025

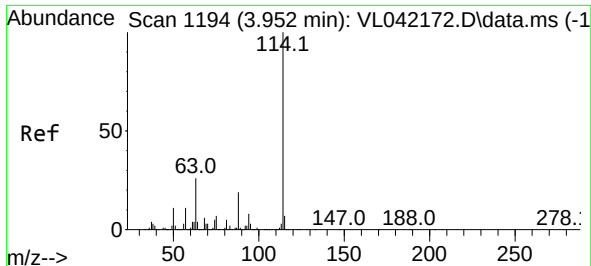


#32
1,1,1-Trichloroethane
Concen: 7.704 ppbv
RT: 3.392 min Scan# 1021
Delta R.T. 0.029 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30



Tgt Ion: 97 Resp: 311758
Ion Ratio Lower Upper
97 100
99 64.8 51.5 77.3
61 51.1 38.7 58.1





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.988 min Scan# 1194

Delta R.T. 0.035 min

Lab File: VL042326.D

Acq: 15 Apr 2025 11:30

Instrument :

MSVOA_L

ClientSampleId :

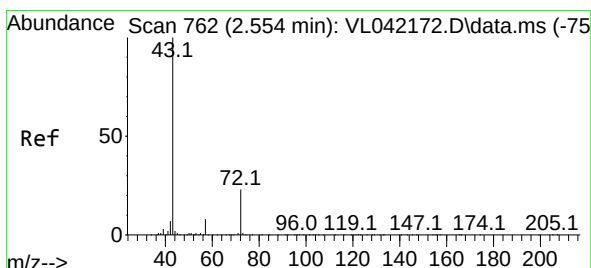
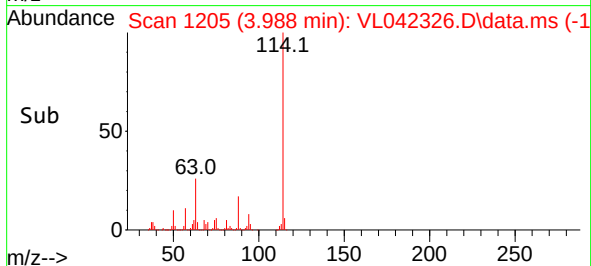
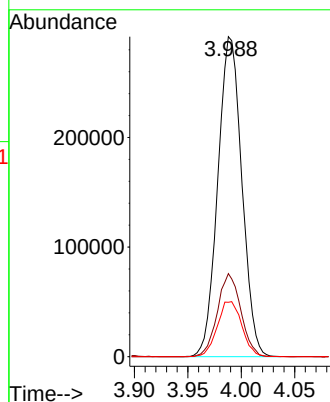
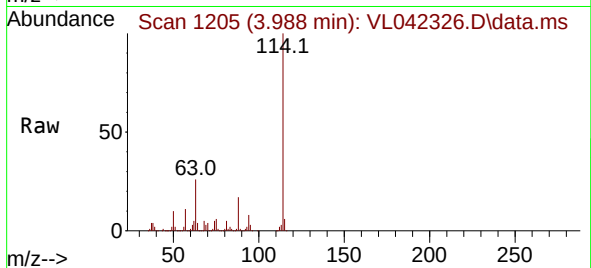
VSTDCCC010

Tgt Ion:	114	Resp:	45722
Ion	Ratio	Lower	Upper
114	100		
63	25.4	20.7	31.1
88	17.7	15.0	22.4

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025



#34

2-Butanone

Concen: 9.565 ppbv

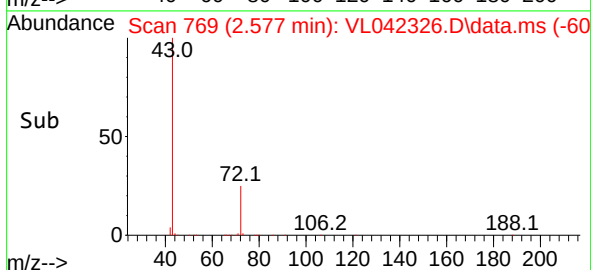
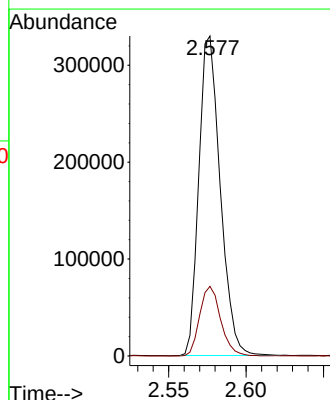
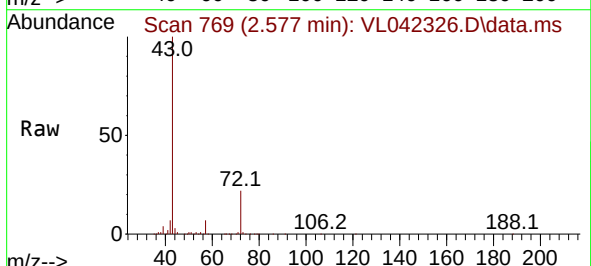
RT: 2.577 min Scan# 769

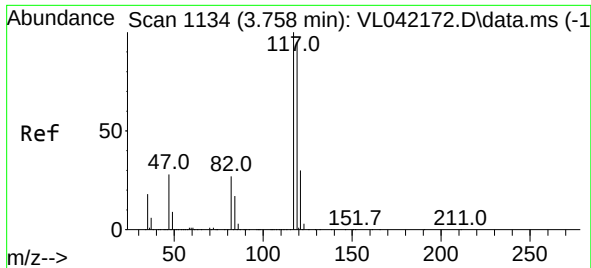
Delta R.T. 0.023 min

Lab File: VL042326.D

Acq: 15 Apr 2025 11:30

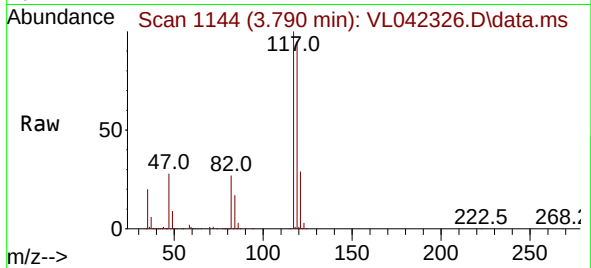
Tgt Ion:	43	Resp:	317117
Ion	Ratio	Lower	Upper
43	100		
72	21.5	18.2	27.2





#35
Carbon Tetrachloride
Concen: 8.902 ppbv
RT: 3.790 min Scan# 1114
Delta R.T. 0.032 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

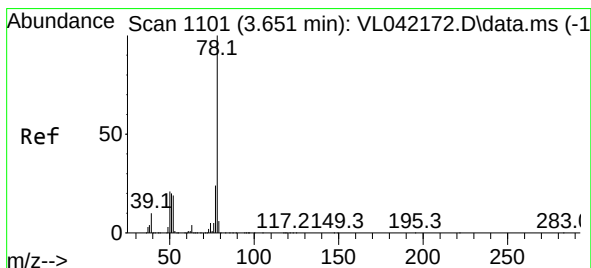
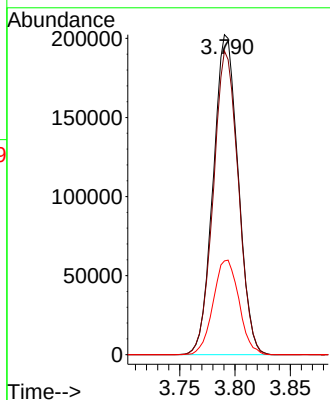
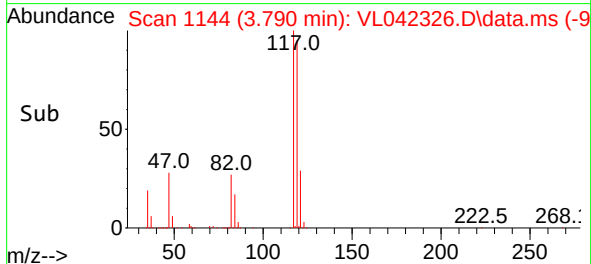
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



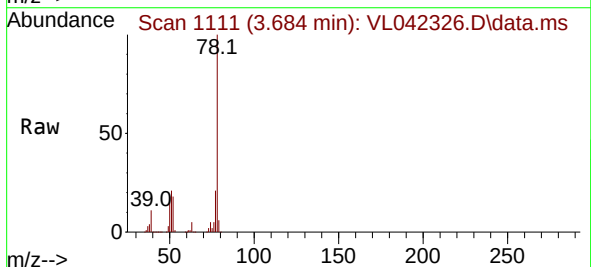
Tgt Ion: 117 Resp: 31794
Ion Ratio Lower Upper
117 100
119 94.9 76.2 114.2
121 29.3 24.2 36.4

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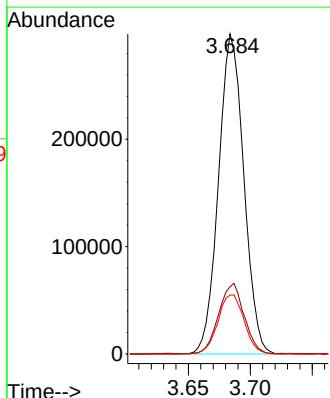
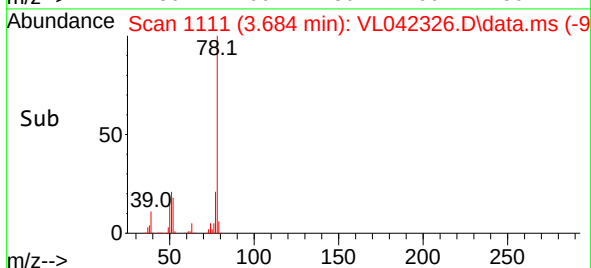
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025

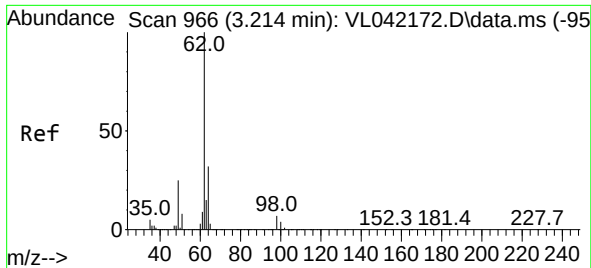


#36
Benzene
Concen: 9.360 ppbv
RT: 3.684 min Scan# 1111
Delta R.T. 0.032 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30



Tgt Ion: 78 Resp: 424254
Ion Ratio Lower Upper
78 100
77 20.9 19.1 28.7
50 18.4 16.6 24.8





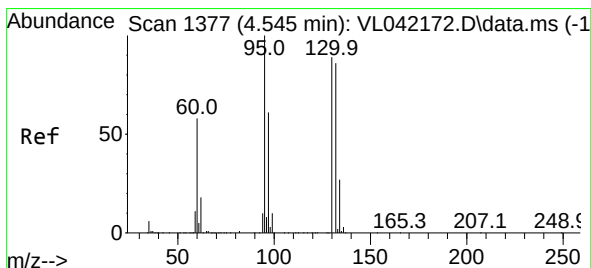
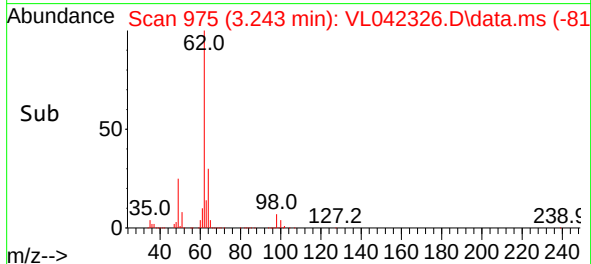
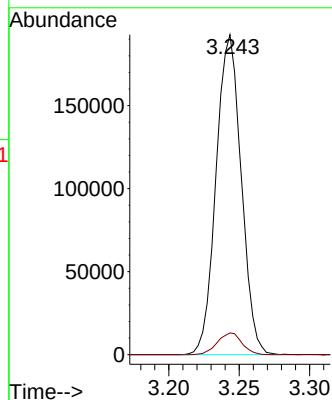
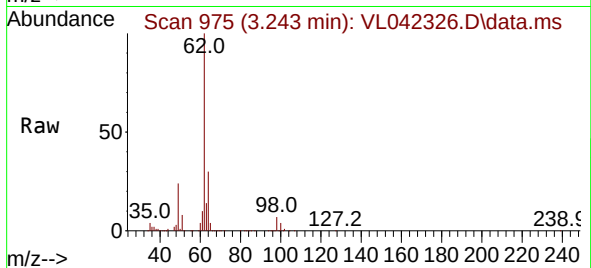
#37
1,2-Dichloroethane
Concen: 9.231 ppbv
RT: 3.243 min Scan# 91
Delta R.T. 0.029 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 62 Resp: 239550
Ion Ratio Lower Upper
62 100
98 6.7 5.4 8.2

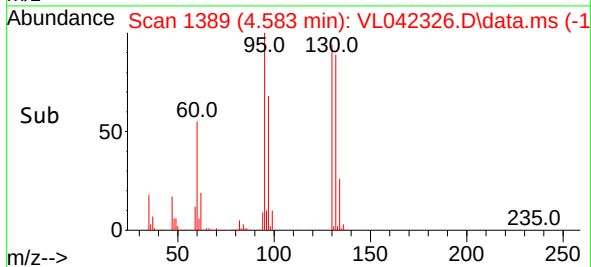
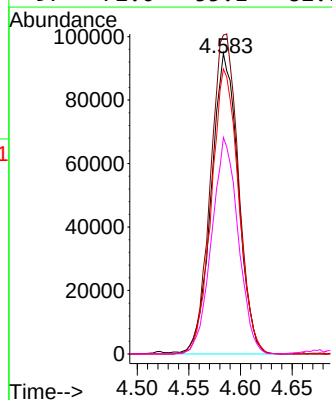
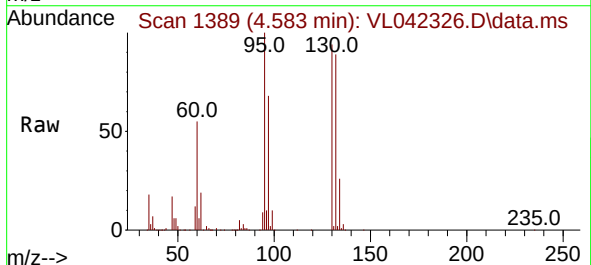
Manual Integrations
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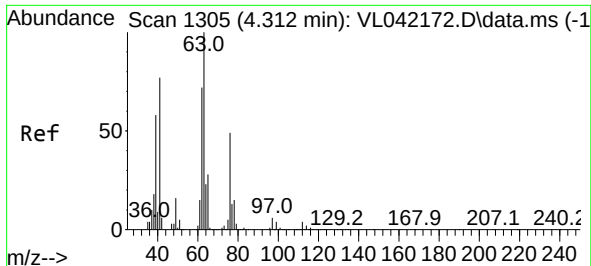
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025



#38
Trichloroethene
Concen: 9.102 ppbv
RT: 4.583 min Scan# 1389
Delta R.T. 0.039 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion:130 Resp: 172146
Ion Ratio Lower Upper
130 100
95 106.1 89.8 134.8
132 94.8 77.4 116.2
97 72.0 55.1 82.7





#39

1,2-Dichloropropane

Concen: 9.190 ppbv

RT: 4.350 min Scan# 11

Delta R.T. 0.039 min

Lab File: VL042326.D

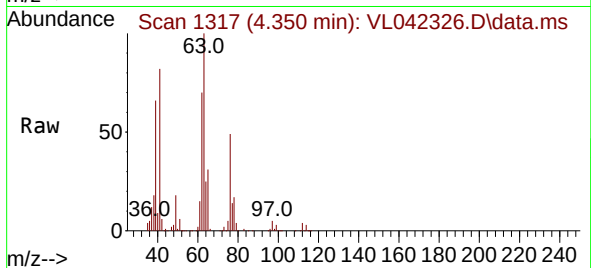
Acq: 15 Apr 2025 11:30

Instrument :

MSVOA_L

ClientSampleId :

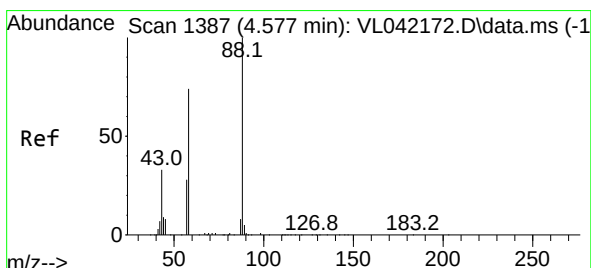
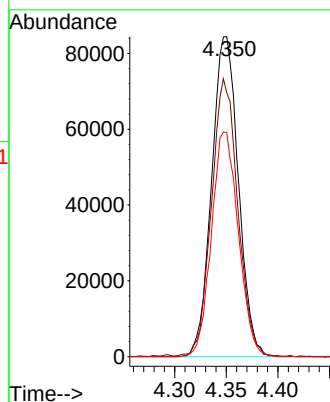
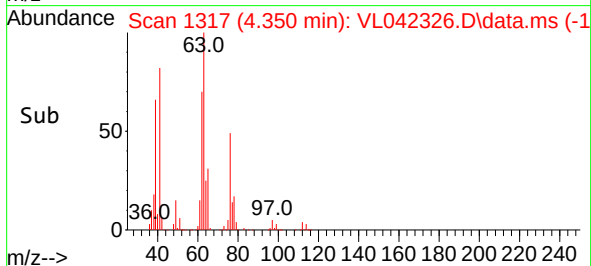
VSTDCCC010



Tgt Ion:	63	Resp:	15170
Ion	Ratio	Lower	Upper
63	100		
41	82.3	61.7	92.5
62	70.1	57.6	86.4

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025



#40

1,4-Dioxane

Concen: 8.226 ppbv

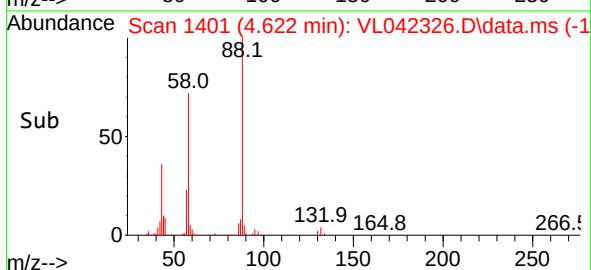
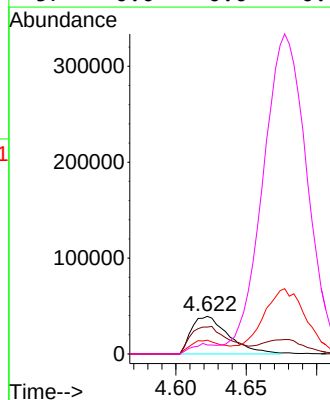
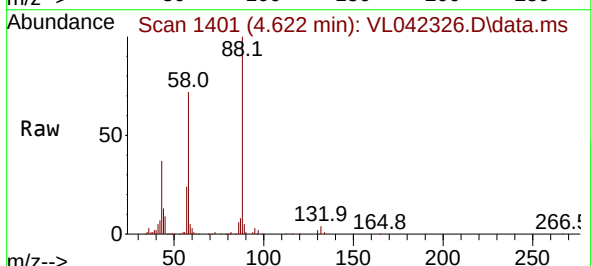
RT: 4.622 min Scan# 1401

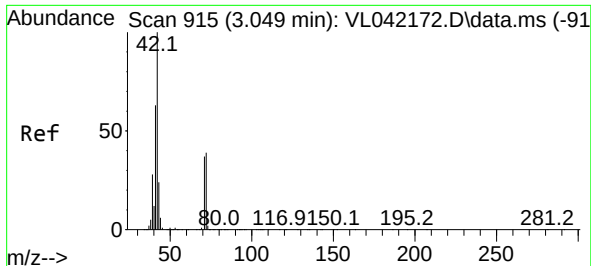
Delta R.T. 0.045 min

Lab File: VL042326.D

Acq: 15 Apr 2025 11:30

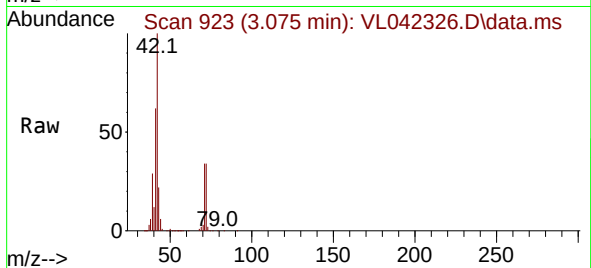
Tgt Ion:	88	Resp:	72075
Ion	Ratio	Lower	Upper
88	100		
58	79.6	62.7	94.1
43	31.4	23.0	34.4
57	0.0	0.0	0.0





#41
Tetrahydrofuran
Concen: 9.505 ppbv
RT: 3.075 min Scan# 915
Delta R.T. 0.026 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

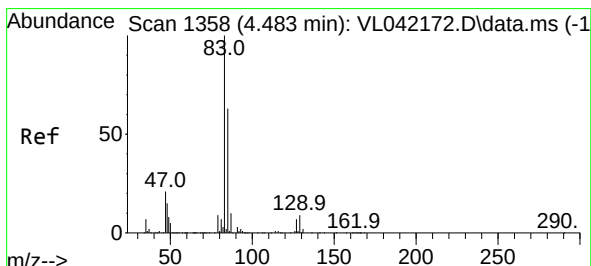
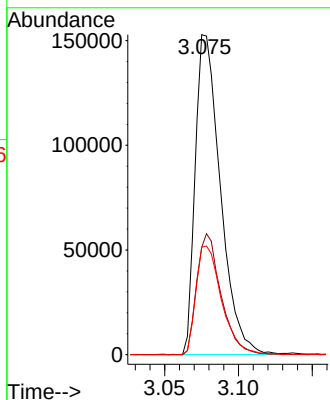
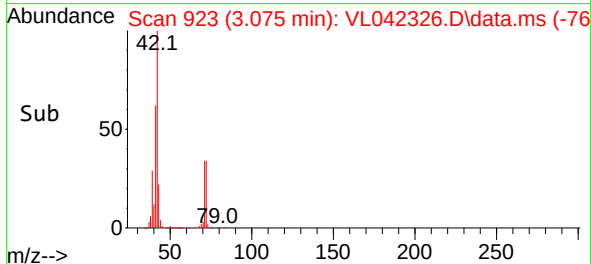
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



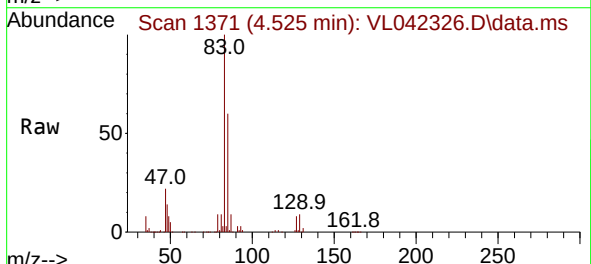
Tgt Ion: 42 Resp: 18147
Ion Ratio Lower Upper
42 100
72 36.5 31.4 47.0
71 34.6 30.2 45.4

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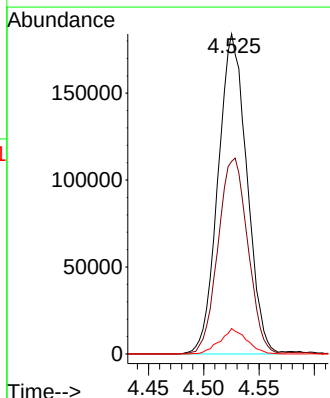
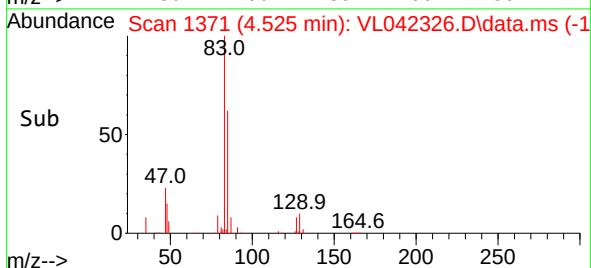
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025

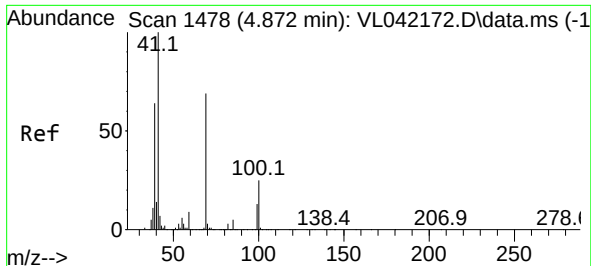


#42
Bromodichloromethane
Concen: 9.313 ppbv
RT: 4.525 min Scan# 1371
Delta R.T. 0.042 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30



Tgt Ion: 83 Resp: 333167
Ion Ratio Lower Upper
83 100
85 60.2 50.5 75.7
127 7.9 5.9 8.9





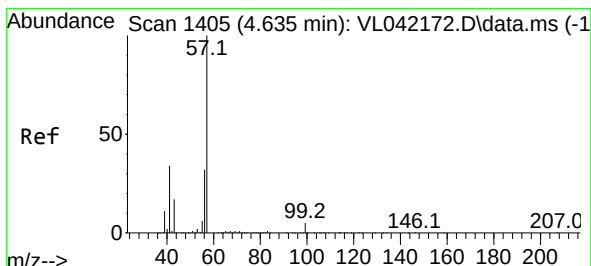
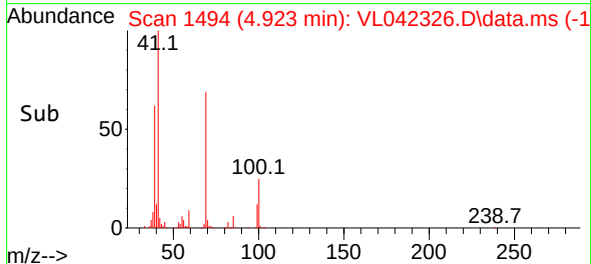
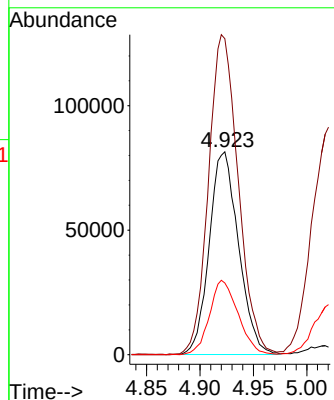
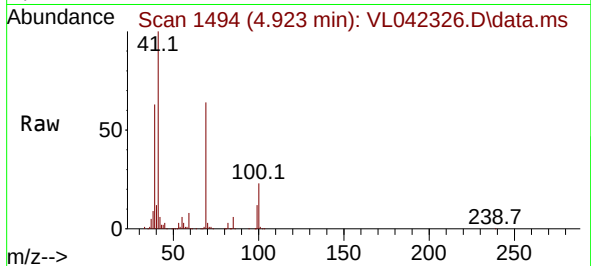
#43
Methyl Methacrylate
Concen: 8.098 ppbv
RT: 4.923 min Scan# 1418
Delta R.T. 0.052 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 69 Resp: 155399
Ion Ratio Lower Upper
69 100
41 160.2 123.8 185.6
100 35.9 28.4 42.6

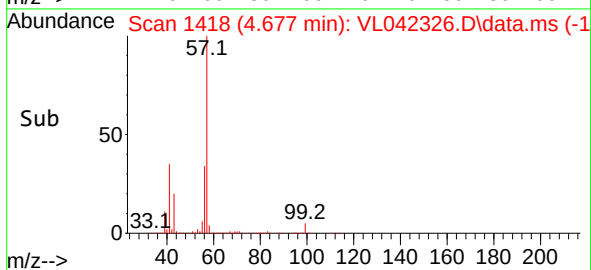
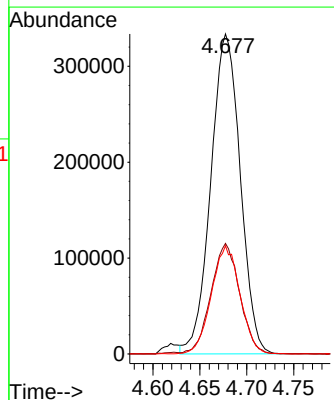
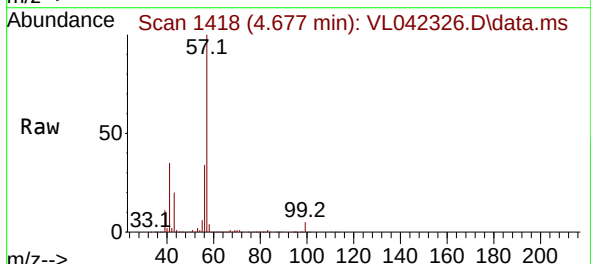
Manual Integrations
APPROVED

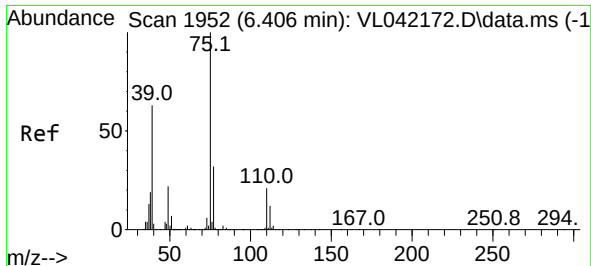
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025



#44
2,2,4-Trimethylpentane
Concen: 9.511 ppbv
RT: 4.677 min Scan# 1418
Delta R.T. 0.042 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

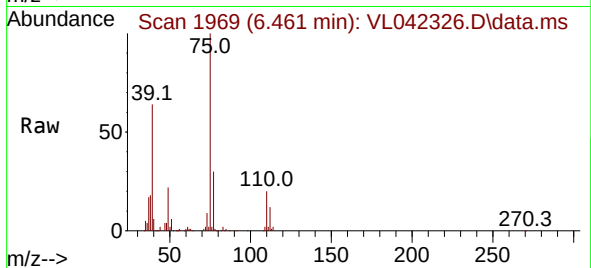
Tgt Ion: 57 Resp: 728571
Ion Ratio Lower Upper
57 100
41 33.8 26.8 40.2
56 32.8 25.6 38.4





#45
 t-1,3-Dichloropropene
 Concen: 7.338 ppbv
 RT: 6.461 min Scan# 1952
 Delta R.T. 0.055 min
 Lab File: VL042326.D
 Acq: 15 Apr 2025 11:30

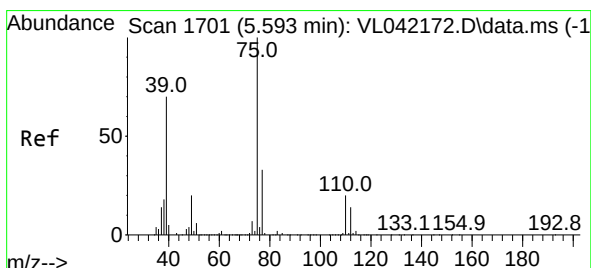
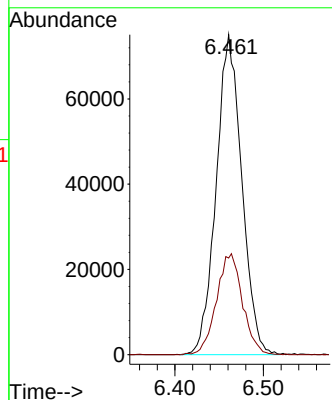
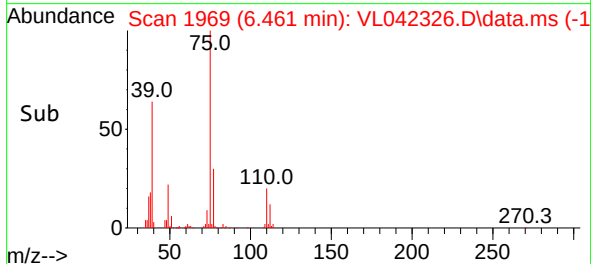
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



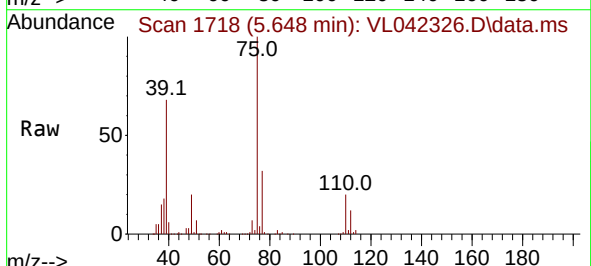
Tgt Ion: 75 Resp: 15106
 Ion Ratio Lower Upper
 75 100
 77 30.2 26.0 39.0

Manual Integrations
 APPROVED

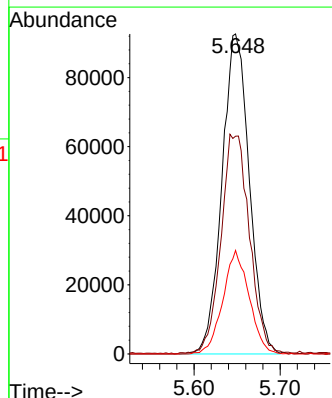
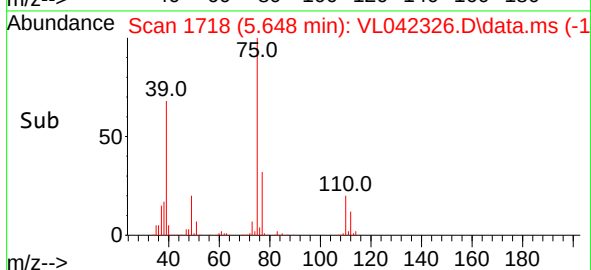
Reviewed By :Semsettin Yesilyurt 04/16/2025
 Supervised By :Mahesh Dadoda 04/16/2025

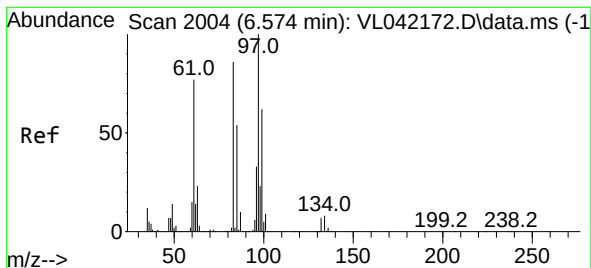


#46
 cis-1,3-Dichloropropene
 Concen: 8.097 ppbv
 RT: 5.648 min Scan# 1718
 Delta R.T. 0.055 min
 Lab File: VL042326.D
 Acq: 15 Apr 2025 11:30



Tgt Ion: 75 Resp: 204339
 Ion Ratio Lower Upper
 75 100
 39 67.6 55.8 83.6
 77 32.3 26.0 39.0





#47

1,1,2-Trichloroethane

Concen: 9.348 ppbv

RT: 6.626 min Scan# 20

Delta R.T. 0.052 min

Lab File: VL042326.D

Acq: 15 Apr 2025 11:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 97 Resp: 16313

Ion Ratio Lower Upper

97 100

83 87.6 69.2 103.8

85 58.3 43.1 64.7

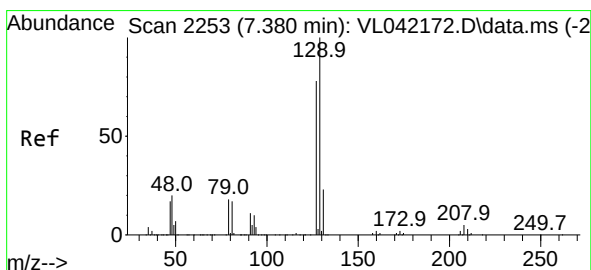
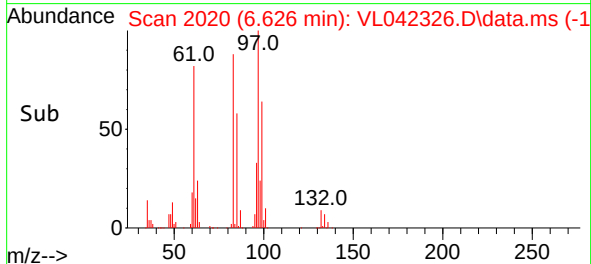
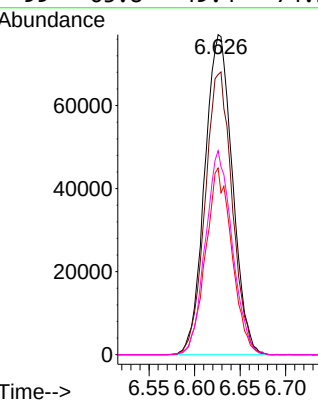
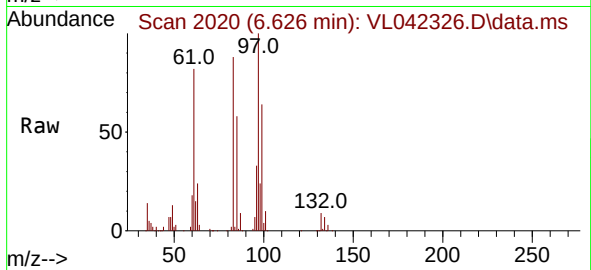
99 63.8 49.4 74.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/16/2025

Supervised By :Mahesh Dadoda 04/16/2025



#48

Dibromochloromethane

Concen: 9.217 ppbv

RT: 7.425 min Scan# 2267

Delta R.T. 0.045 min

Lab File: VL042326.D

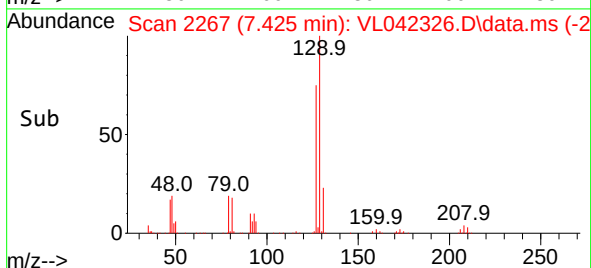
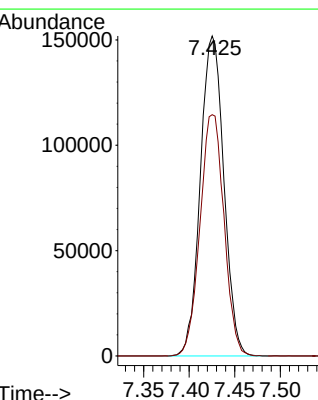
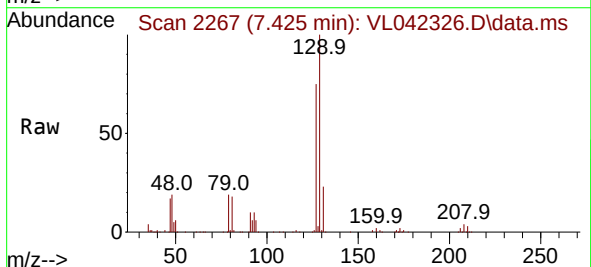
Acq: 15 Apr 2025 11:30

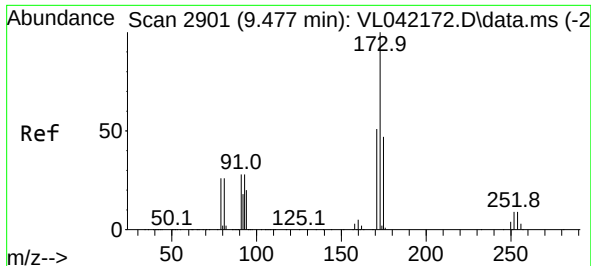
Tgt Ion:129 Resp: 272592

Ion Ratio Lower Upper

129 100

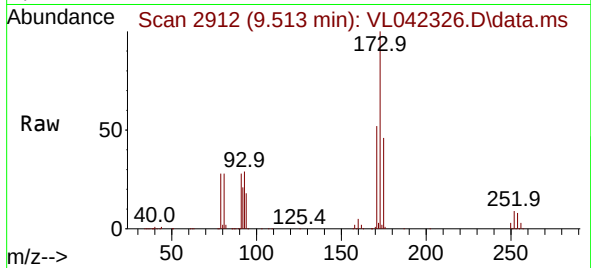
127 77.0 39.1 117.2





#49
Bromoform
Concen: 8.997 ppbv
RT: 9.513 min Scan# 2901
Delta R.T. 0.035 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

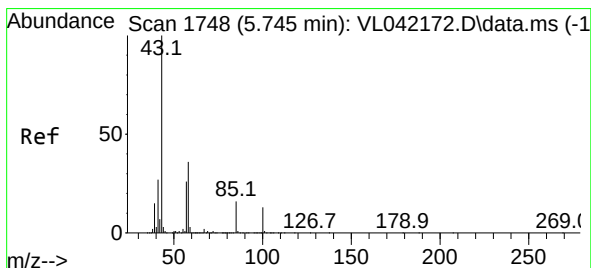
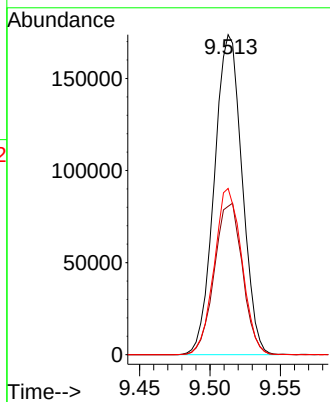
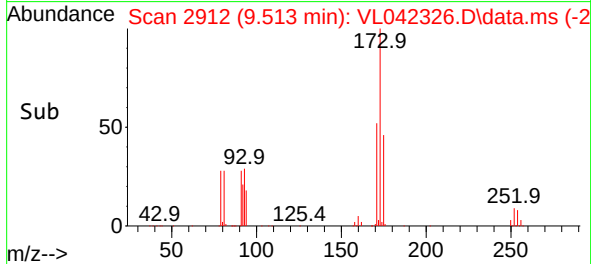
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



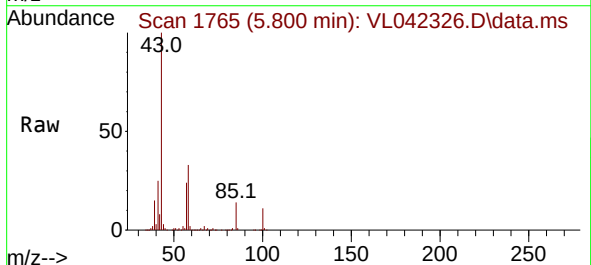
Tgt Ion:173 Resp: 238880
Ion Ratio Lower Upper
173 100
175 48.1 38.6 57.8
171 51.7 41.8 62.6

Manual Integrations
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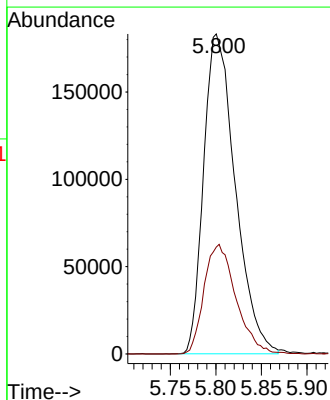
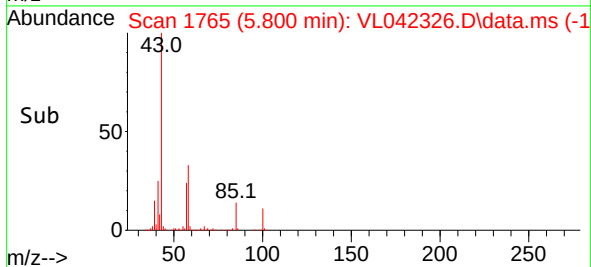
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025

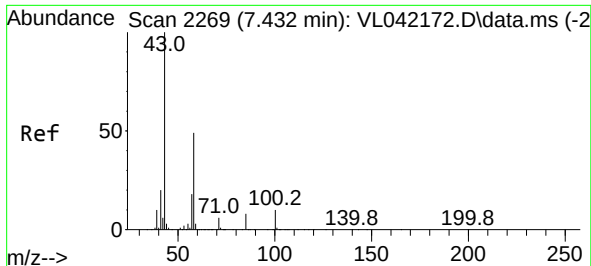


#50
4-Methyl-2-Pentanone
Concen: 8.428 ppbv
RT: 5.800 min Scan# 1765
Delta R.T. 0.055 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30



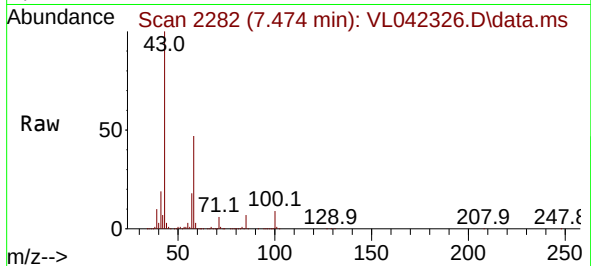
Tgt Ion: 43 Resp: 442851
Ion Ratio Lower Upper
43 100
58 34.6 29.0 43.6





#51
2-Hexanone
Concen: 8.192 ppbv
RT: 7.474 min Scan# 21
Delta R.T. 0.042 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

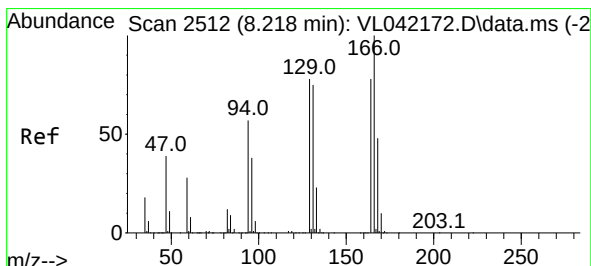
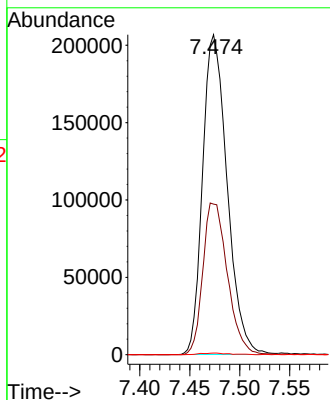
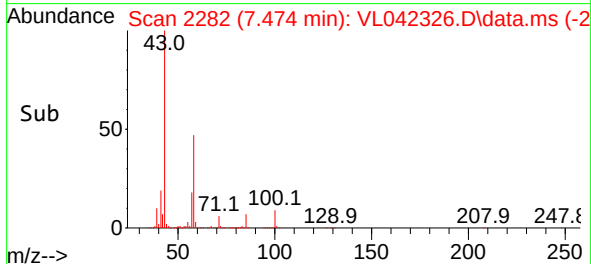
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion: 43 Resp: 35347
Ion Ratio Lower Upper
43 100
58 47.5 39.7 59.5
98 0.6 0.1 0.1

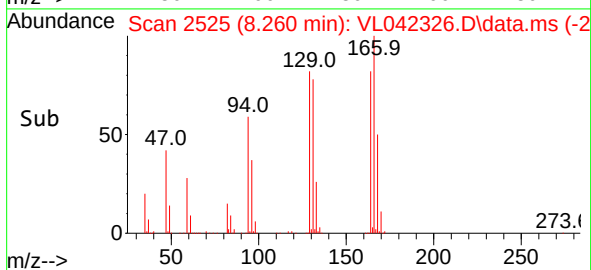
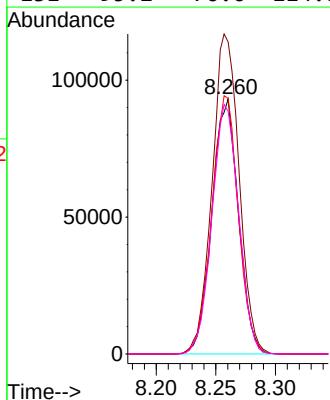
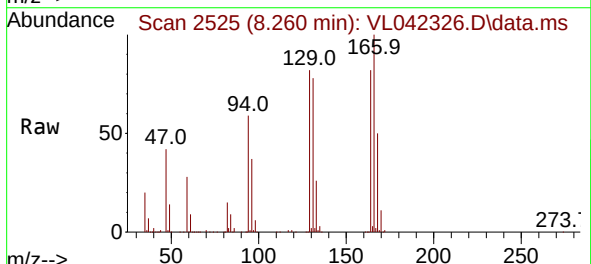
Manual Integrations
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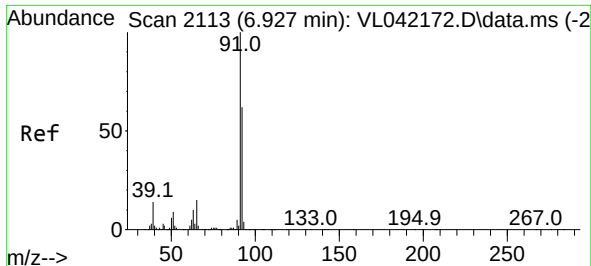
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025



#52
Tetrachloroethene
Concen: 8.037 ppbv
RT: 8.260 min Scan# 2525
Delta R.T. 0.042 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion:164 Resp: 144481
Ion Ratio Lower Upper
164 100
166 122.4 102.5 153.7
129 100.2 79.8 119.8
131 95.2 76.6 114.8





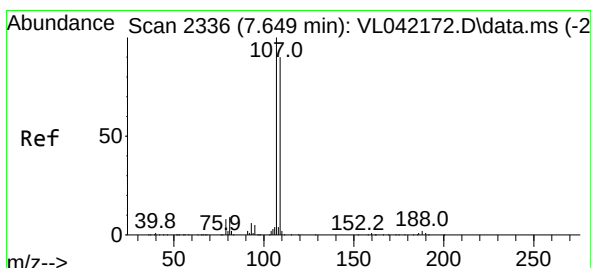
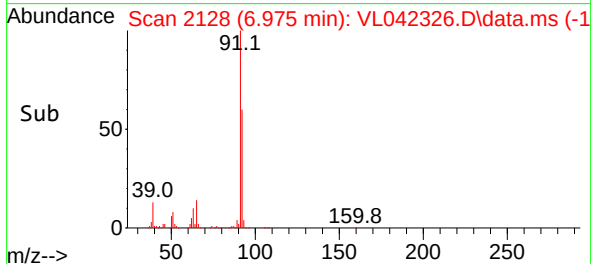
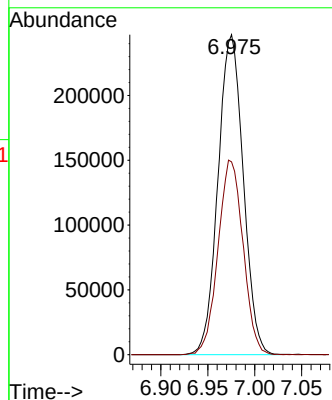
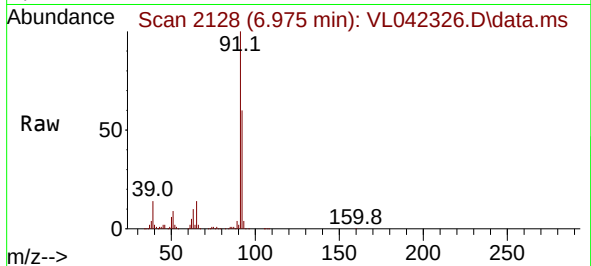
#53
Toluene
Concen: 8.595 ppbv
RT: 6.975 min Scan# 2113
Delta R.T. 0.048 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 91 Resp: 461854
Ion Ratio Lower Upper
91 100
92 60.2 48.4 72.6

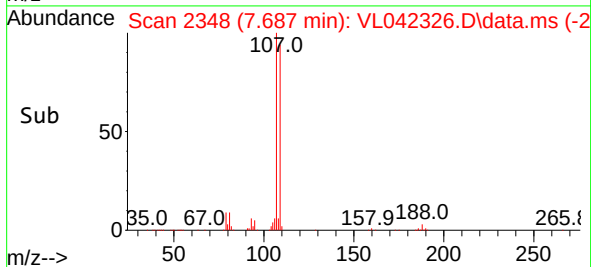
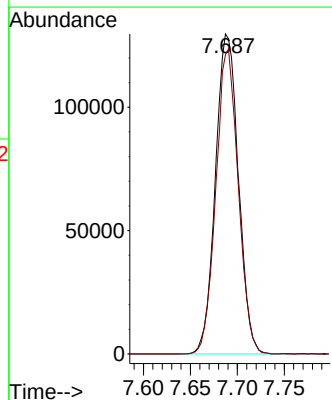
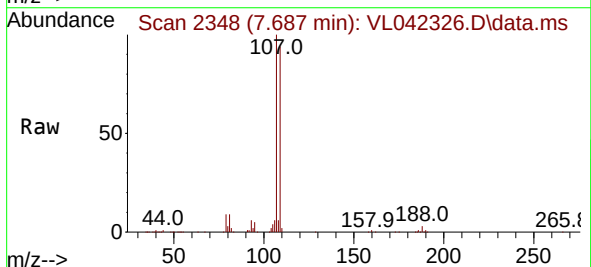
Manual Integrations
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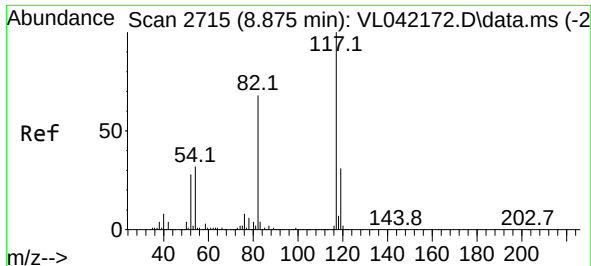
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025



#54
1,2-Dibromoethane
Concen: 9.047 ppbv
RT: 7.687 min Scan# 2348
Delta R.T. 0.039 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion:107 Resp: 220075
Ion Ratio Lower Upper
107 100
109 93.6 72.2 108.4





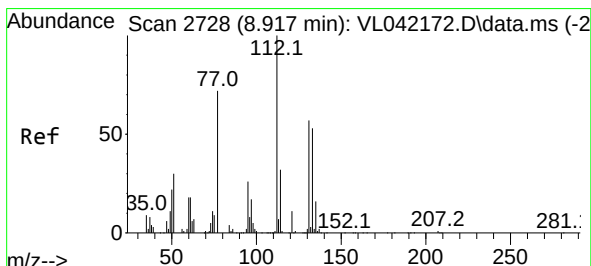
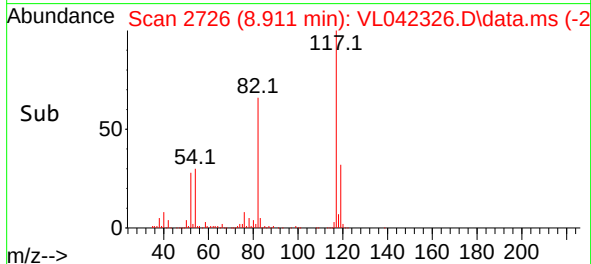
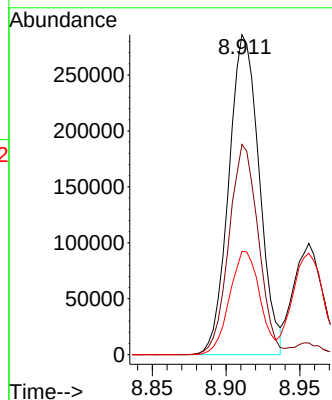
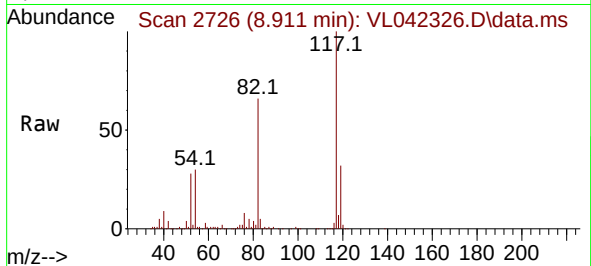
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.911 min Scan# 2715
Delta R.T. 0.035 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:117 Resp: 41149
Ion Ratio Lower Upper
117 100
82 67.0 55.8 83.6
119 33.0 25.5 38.3

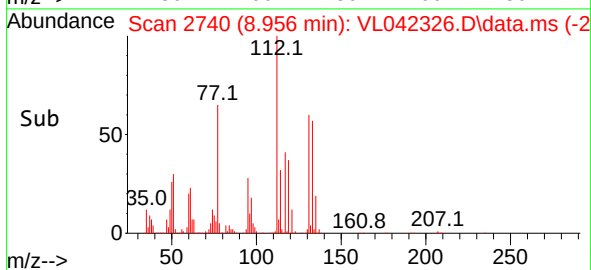
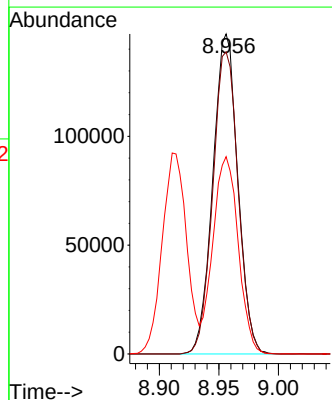
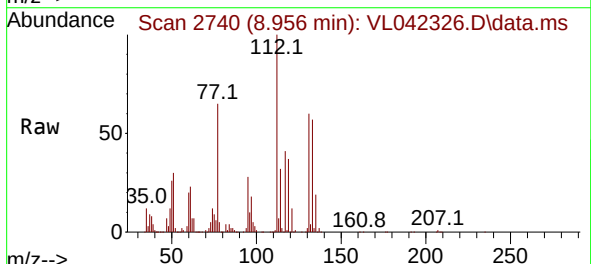
Manual Integrations
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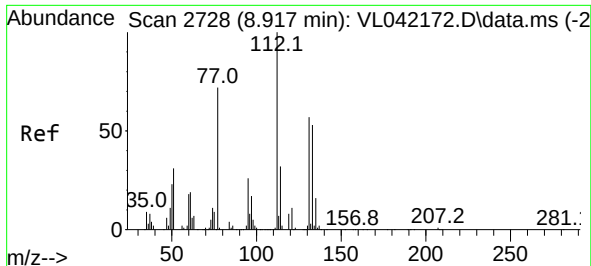
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025



#56
1,1,1,2-Tetrachloroethane
Concen: 9.455 ppbv
RT: 8.956 min Scan# 2740
Delta R.T. 0.039 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

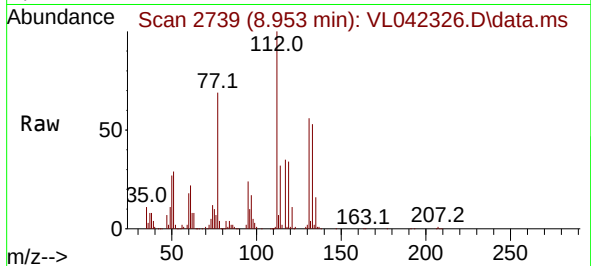
Tgt Ion:131 Resp: 214175
Ion Ratio Lower Upper
131 100
133 95.9 76.6 114.8
119 61.1 49.8 74.6





#57
Chlorobenzene
Concen: 9.617 ppbv
RT: 8.953 min Scan# 21
Delta R.T. 0.035 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

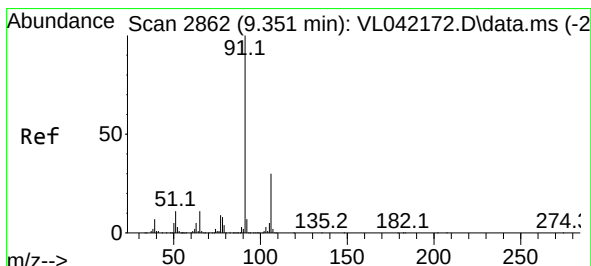
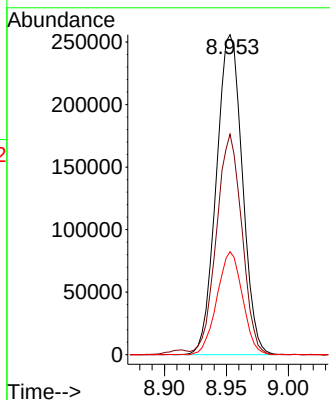
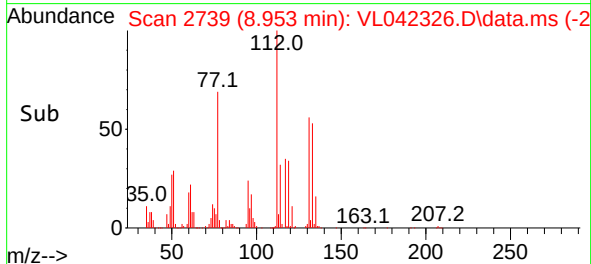
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



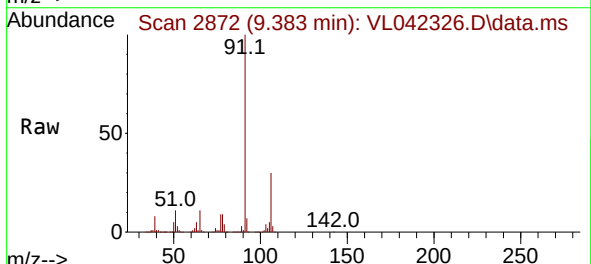
Tgt Ion:112 Resp: 37535
Ion Ratio Lower Upper
112 100
77 68.8 58.2 87.2
114 32.2 29.1 35.5

Manual Integrations
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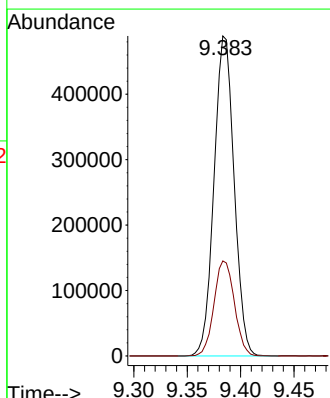
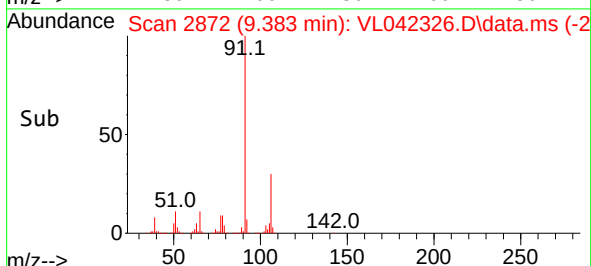
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025

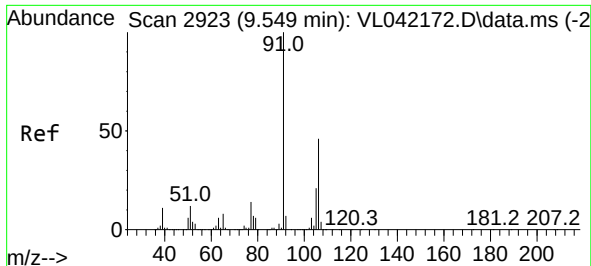


#58
Ethyl Benzene
Concen: 8.754 ppbv
RT: 9.383 min Scan# 2872
Delta R.T. 0.032 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30



Tgt Ion: 91 Resp: 639857
Ion Ratio Lower Upper
91 100
106 29.7 24.2 36.2





#59

m/p-Xylene

Concen: 18.222 ppbv m

RT: 9.581 min Scan# 2923

Delta R.T. 0.032 min

Lab File: VL042326.D

Acq: 15 Apr 2025 11:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 91 Resp: 1063509

Ion Ratio Lower Upper

91 100

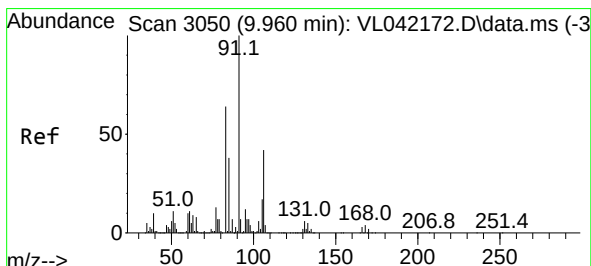
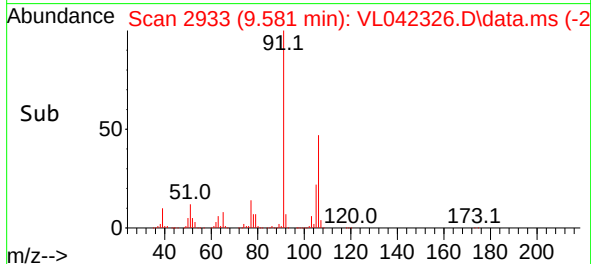
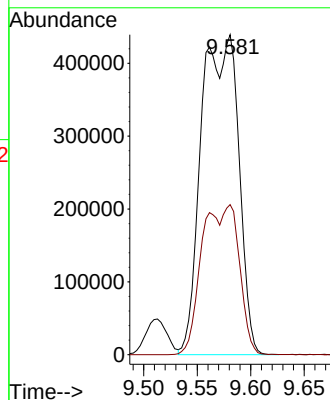
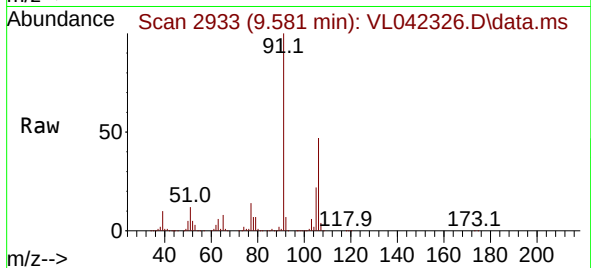
106 47.1 36.4 54.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/16/2025

Supervised By :Mahesh Dadoda 04/16/2025



#60

o-Xylene

Concen: 9.040 ppbv

RT: 9.992 min Scan# 3060

Delta R.T. 0.032 min

Lab File: VL042326.D

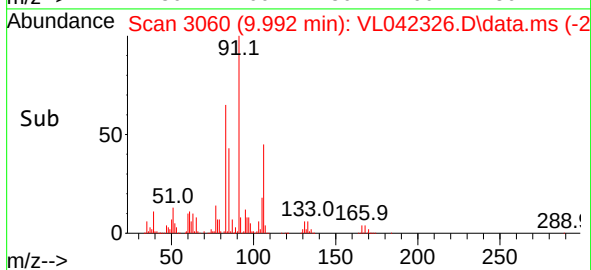
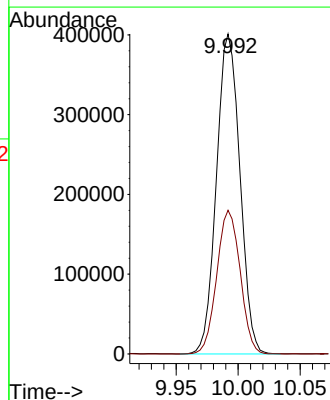
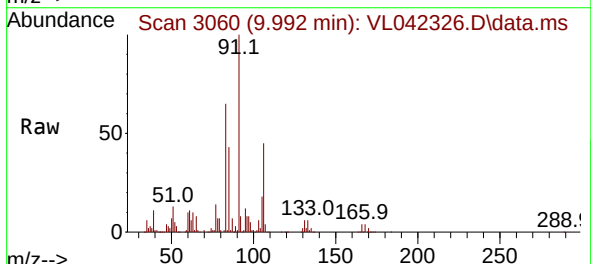
Acq: 15 Apr 2025 11:30

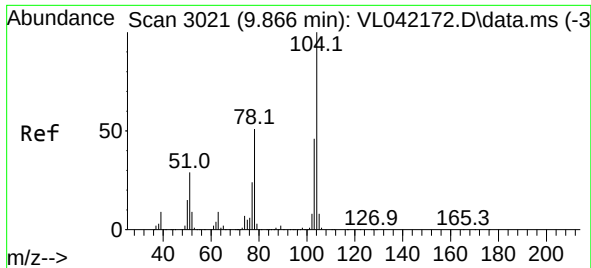
Tgt Ion: 91 Resp: 528896

Ion Ratio Lower Upper

91 100

106 44.8 20.8 62.5





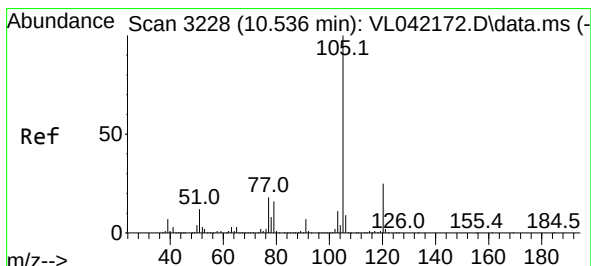
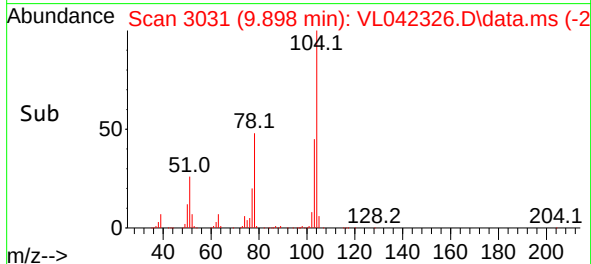
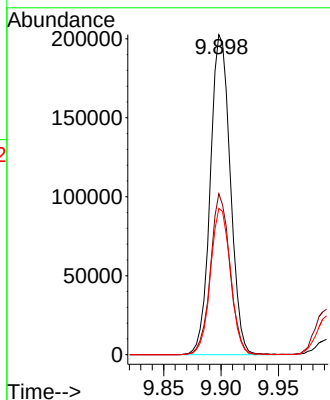
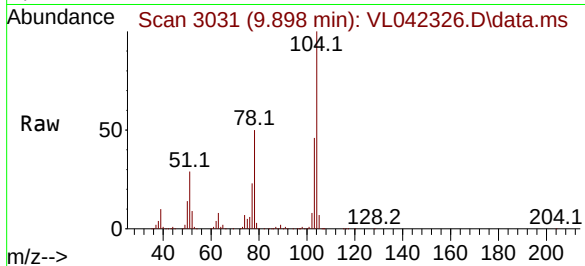
#61
Styrene
Concen: 8.474 ppbv
RT: 9.898 min Scan# 3021
Delta R.T. 0.032 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

Tgt Ion:104 Resp: 245300
Ion Ratio Lower Upper
104 100
78 49.0 41.8 62.6
103 46.0 37.0 55.4

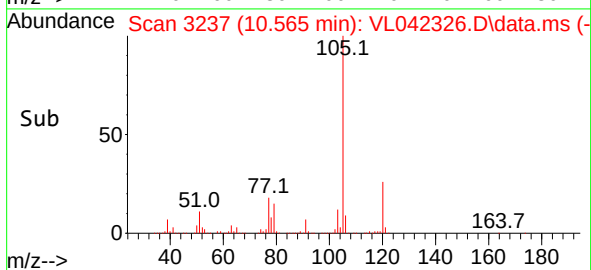
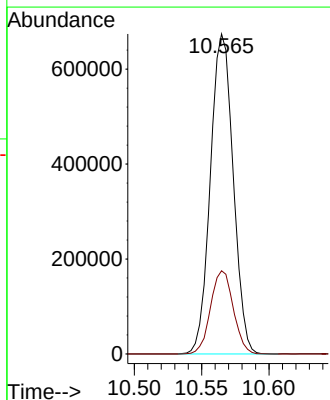
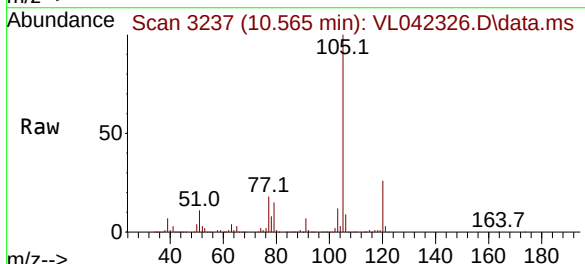
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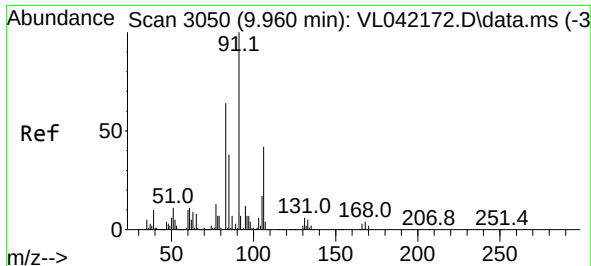
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025



#62
Isopropylbenzene
Concen: 9.079 ppbv
RT: 10.565 min Scan# 3237
Delta R.T. 0.029 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion:105 Resp: 794408
Ion Ratio Lower Upper
105 100
120 25.9 19.9 29.9





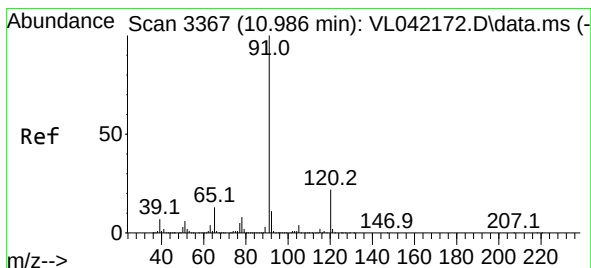
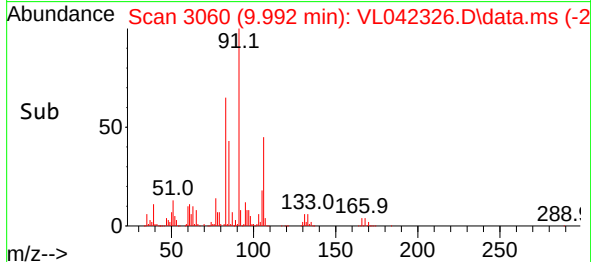
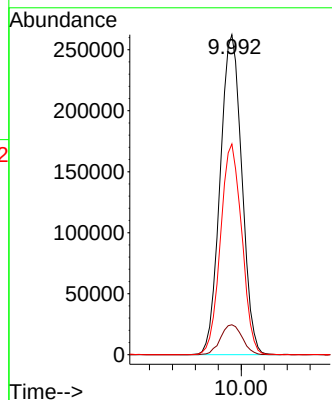
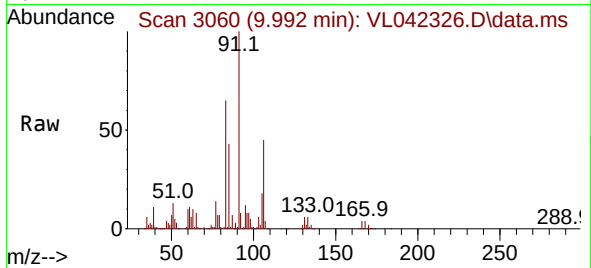
#63
1,1,2,2-Tetrachloroethane
Concen: 9.671 ppbv
RT: 9.992 min Scan# 3050
Delta R.T. 0.032 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 83 Resp: 343780
Ion Ratio Lower Upper
83 100
131 9.4 4.8 14.4
85 64.8 32.5 97.5

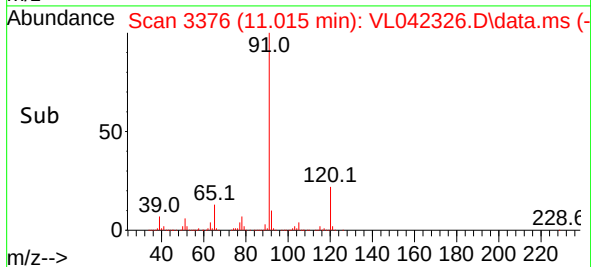
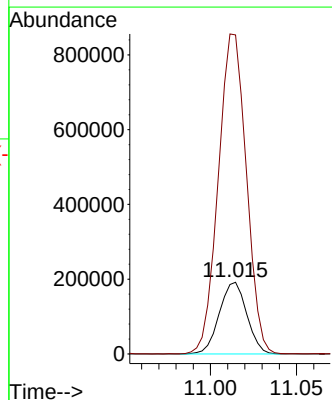
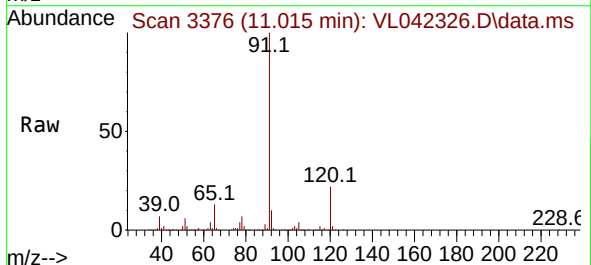
Manual Integrations
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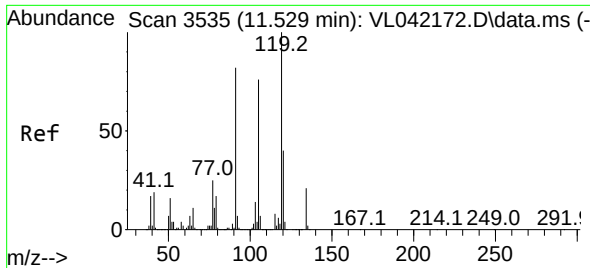
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025



#64
n-propylbenzene
Concen: 9.452 ppbv
RT: 11.015 min Scan# 3376
Delta R.T. 0.029 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

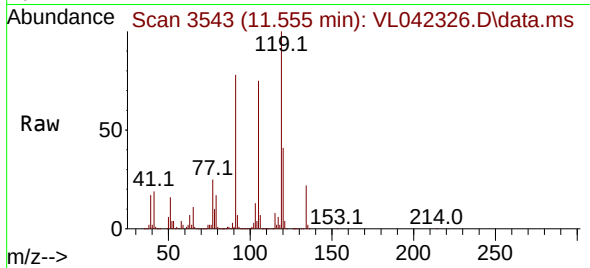
Tgt Ion:120 Resp: 212879
Ion Ratio Lower Upper
120 100
91 456.6 376.9 565.3





#65
tert-Butylbenzene
Concen: 8.911 ppbv
RT: 11.555 min Scan# 3543
Delta R.T. 0.026 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

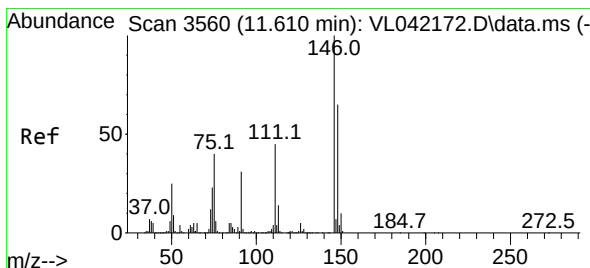
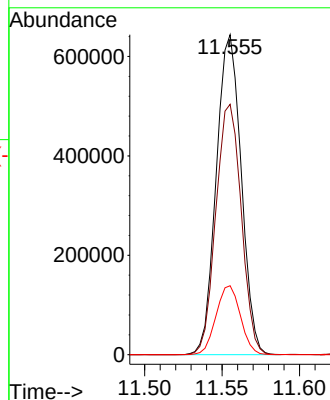
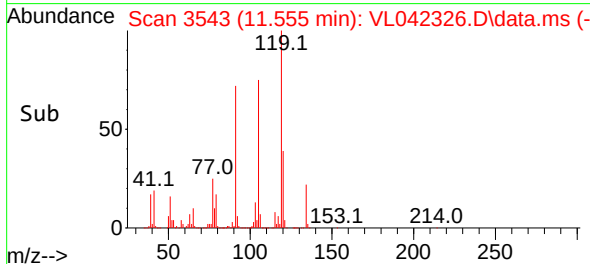
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



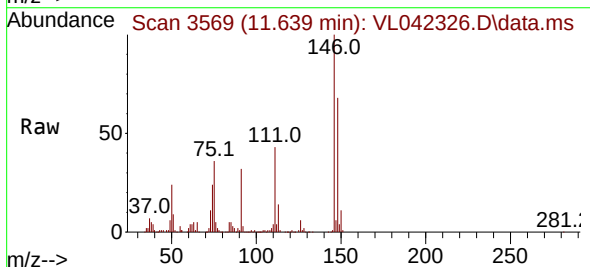
Tgt Ion: 119 Resp: 721078
Ion Ratio Lower Upper
119 100
91 79.7 66.0 99.0
134 21.1 16.7 25.1

Manual Integrations
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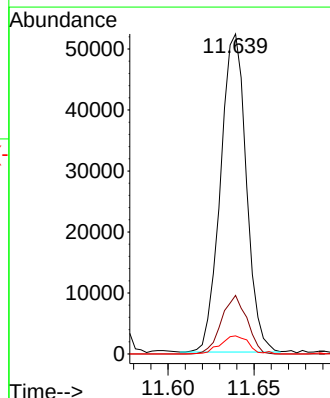
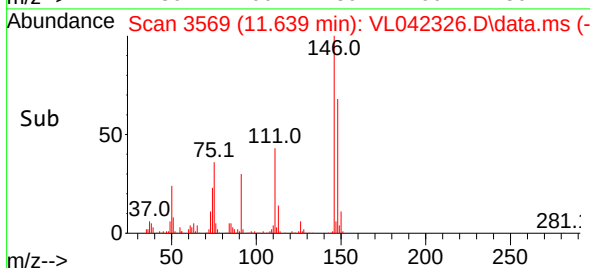
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025

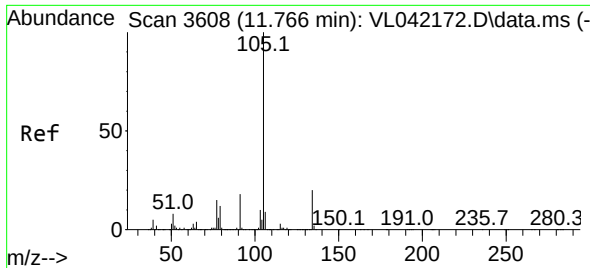


#66
Benzyl Chloride
Concen: 6.339 ppbv
RT: 11.639 min Scan# 3569
Delta R.T. 0.029 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30



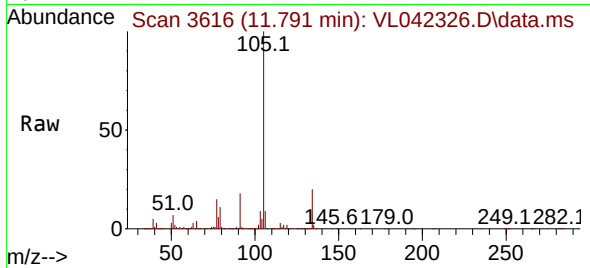
Tgt Ion: 91 Resp: 54427
Ion Ratio Lower Upper
91 100
126 18.2 13.8 20.6
128 6.3 4.5 6.7





#67
 sec-Butylbenzene
 Concen: 9.123 ppbv
 RT: 11.791 min Scan# 30
 Delta R.T. 0.026 min
 Lab File: VL042326.D
 Acq: 15 Apr 2025 11:30

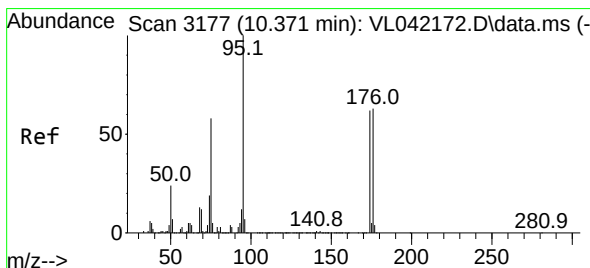
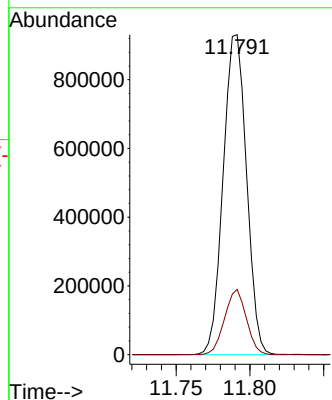
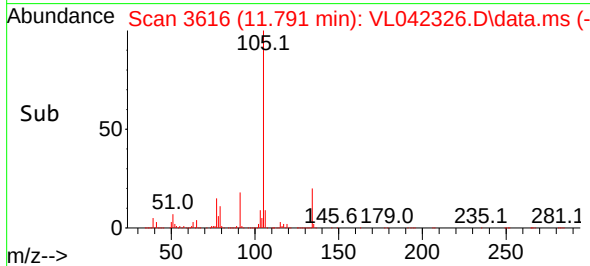
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



Tgt Ion:105 Resp: 1026079
 Ion Ratio Lower Upper
 105 100
 134 19.0 15.5 23.3

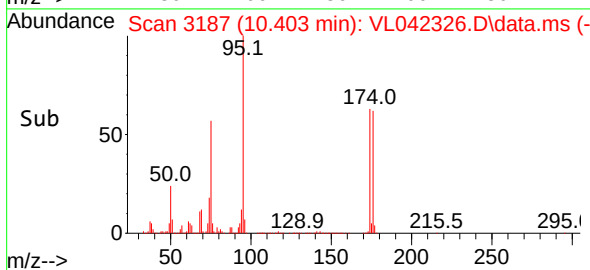
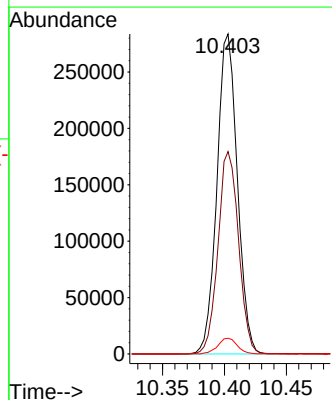
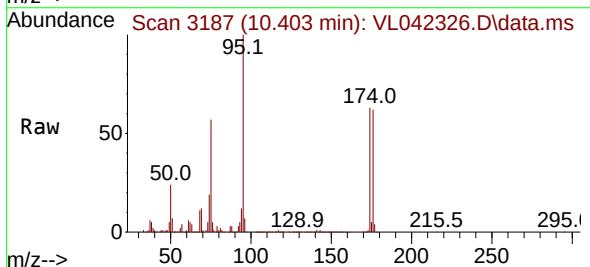
Manual Integrations
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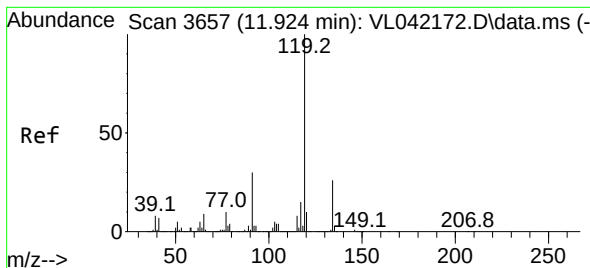
Reviewed By :Semsettin Yesilyurt 04/16/2025
 Supervised By :Mahesh Dadoda 04/16/2025



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.646 ppbv
 RT: 10.403 min Scan# 3187
 Delta R.T. 0.032 min
 Lab File: VL042326.D
 Acq: 15 Apr 2025 11:30

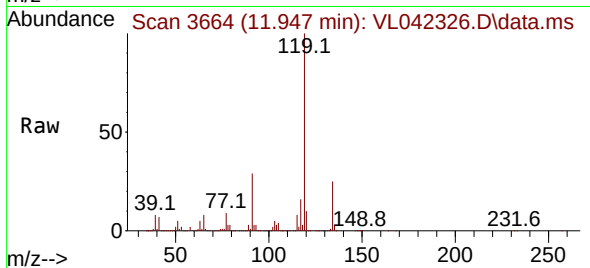
Tgt Ion: 95 Resp: 325960
 Ion Ratio Lower Upper
 95 100
 174 63.6 50.6 76.0
 175 4.7 3.8 5.6





#69
p-Isopropyltoluene
Concen: 8.935 ppbv
RT: 11.947 min Scan# 3664
Delta R.T. 0.023 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

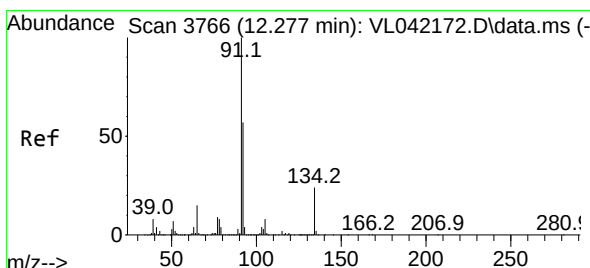
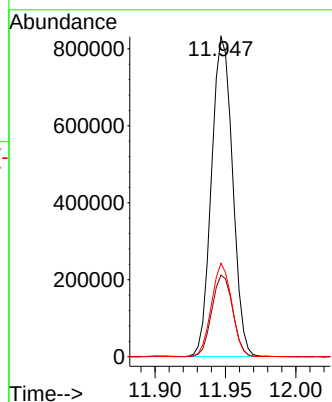
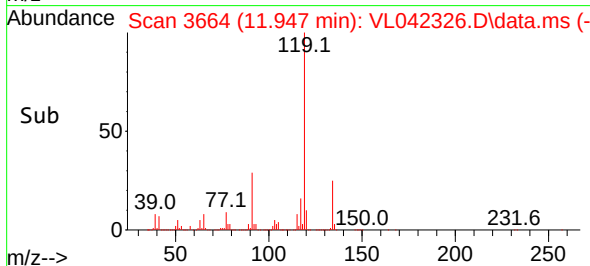
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



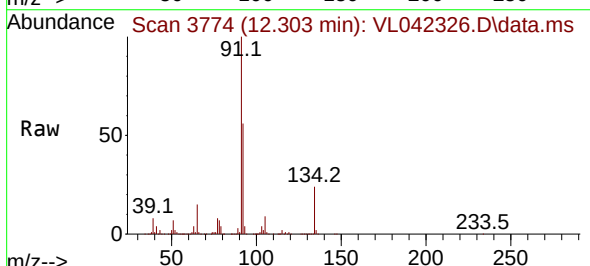
Tgt Ion: 119 Resp: 865385
Ion Ratio Lower Upper
119 100
134 25.4 20.4 30.6
91 28.4 23.7 35.5

Manual Integrations
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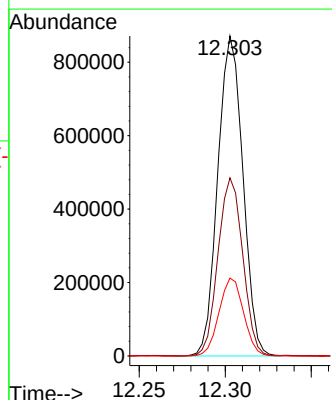
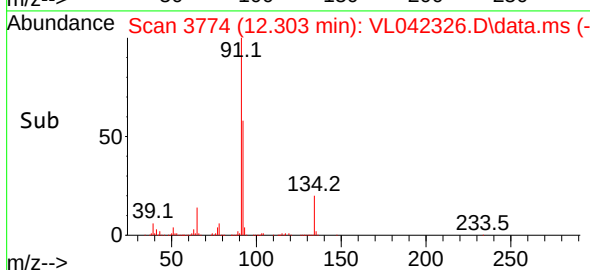
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025

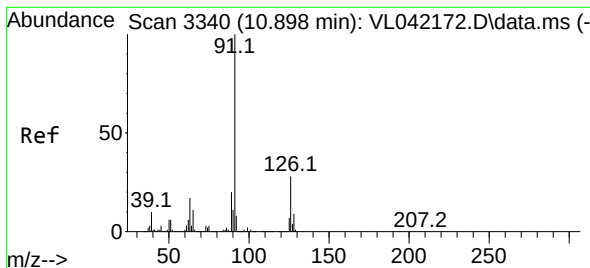


#70
n-Butylbenzene
Concen: 8.928 ppbv
RT: 12.303 min Scan# 3774
Delta R.T. 0.026 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30



Tgt Ion: 91 Resp: 884265
Ion Ratio Lower Upper
91 100
92 55.0 44.9 67.3
134 23.8 19.2 28.8





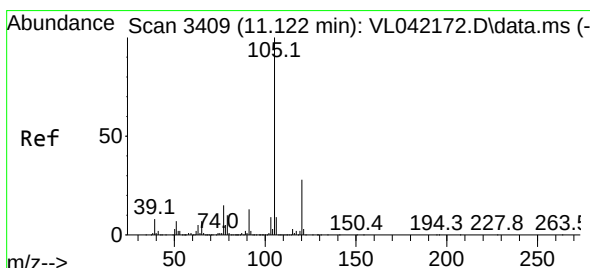
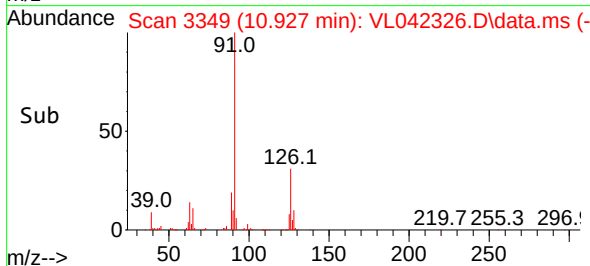
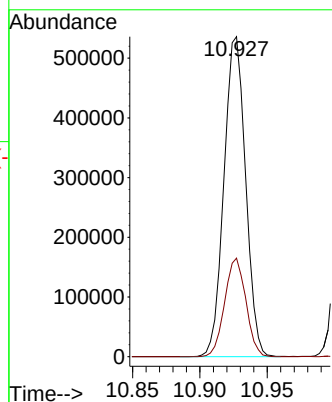
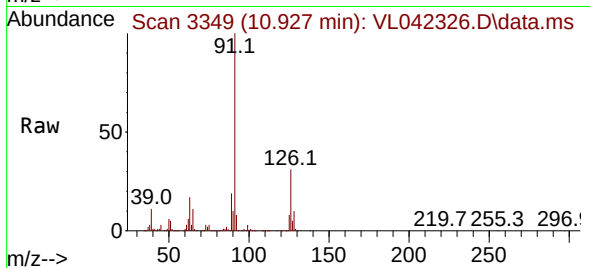
#71
2-Chlorotoluene
Concen: 8.830 ppbv
RT: 10.927 min Scan# 31
Delta R.T. 0.029 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 91 Resp: 599592
Ion Ratio Lower Upper
91 100
126 30.1 11.6 46.4

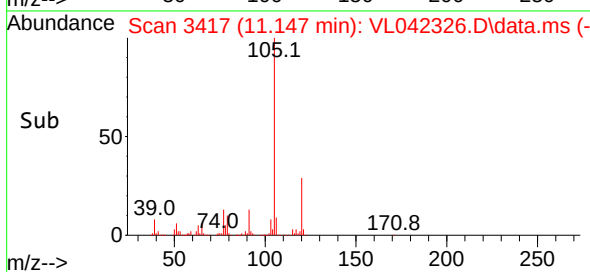
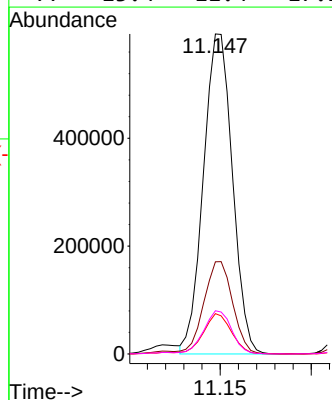
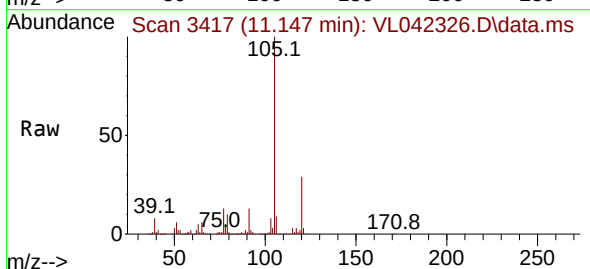
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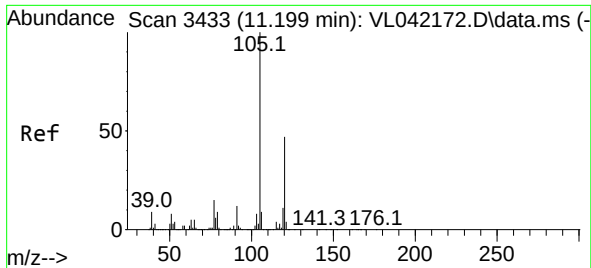
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025



#72
4-Ethyltoluene
Concen: 9.029 ppbv
RT: 11.147 min Scan# 3417
Delta R.T. 0.026 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

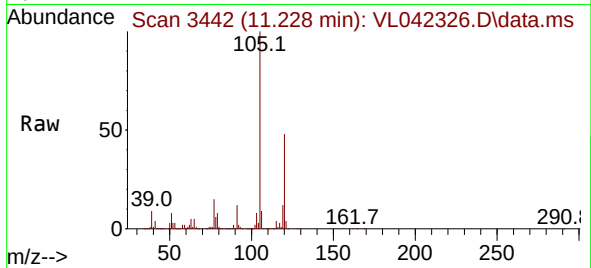
Tgt Ion:105 Resp: 657765
Ion Ratio Lower Upper
105 100
120 29.5 23.4 35.0
91 12.6 10.3 15.5
77 13.4 11.4 17.2





#73
1,3,5-Trimethylbenzene
Concen: 8.764 ppbv
RT: 11.228 min Scan# 3433
Delta R.T. 0.029 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

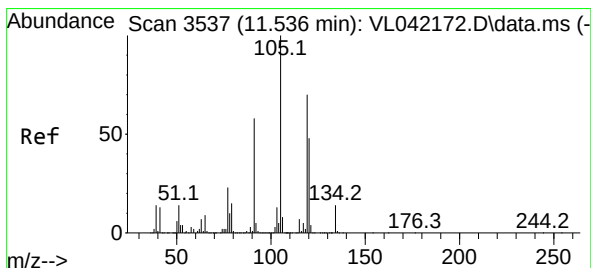
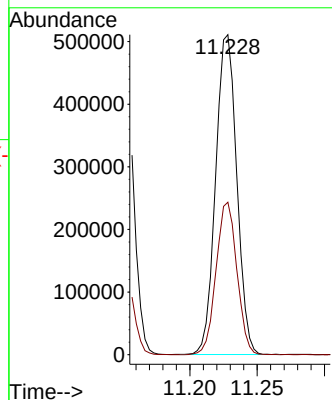
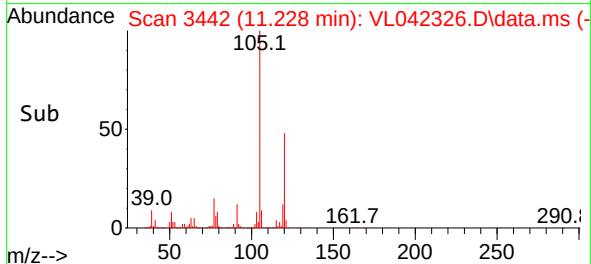
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



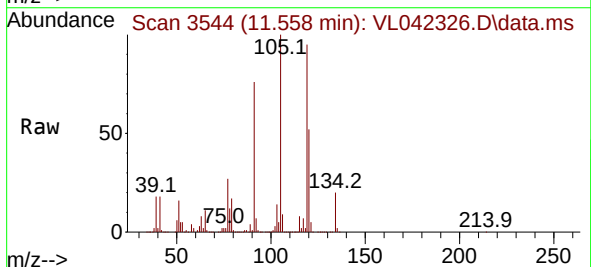
Tgt Ion:105 Resp: 55759
Ion Ratio Lower Upper
105 100
120 47.7 37.4 56.0

Manual Integrations
APPROVED

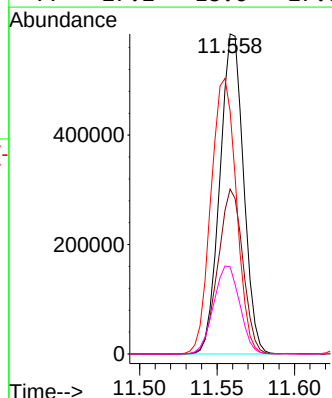
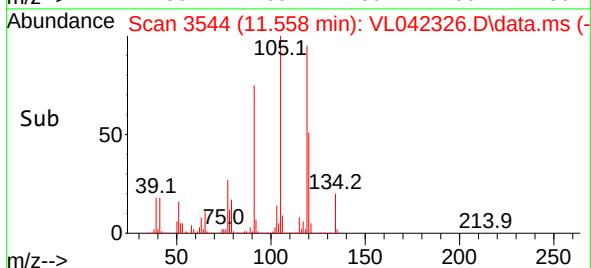
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025

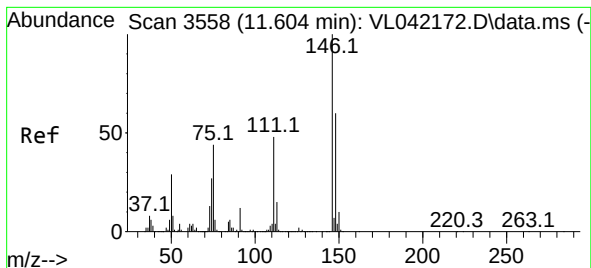


#74
1,2,4-Trimethylbenzene
Concen: 8.507 ppbv
RT: 11.558 min Scan# 3544
Delta R.T. 0.023 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30



Tgt Ion:105 Resp: 623563
Ion Ratio Lower Upper
105 100
120 51.5 38.6 58.0
91 75.8 46.2 69.2#
77 27.2 18.6 27.8





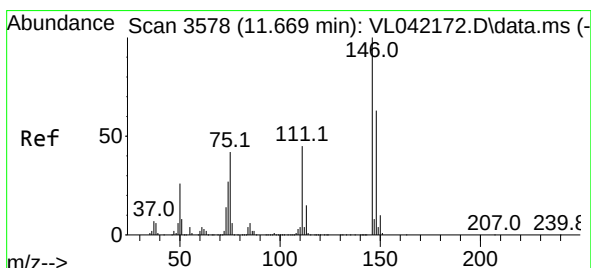
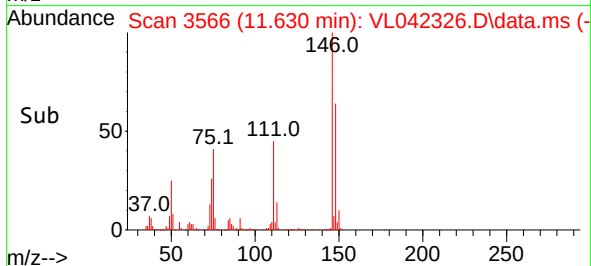
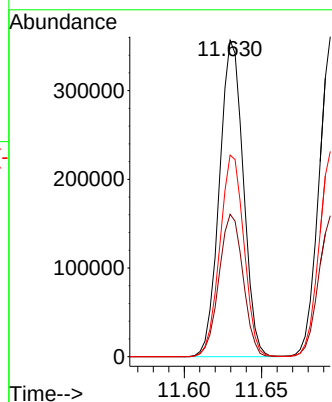
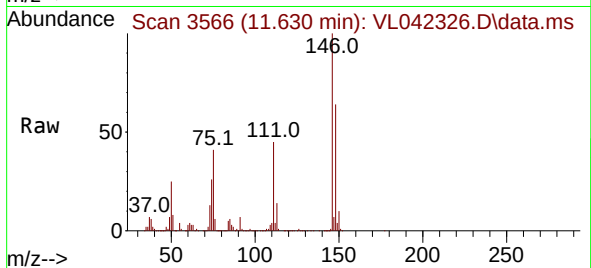
#75
1,3-Dichlorobenzene
Concen: 9.492 ppbv
RT: 11.630 min Scan# 3558
Delta R.T. 0.026 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:146 Resp: 381572
Ion Ratio Lower Upper
146 100
111 45.6 23.8 71.2
148 64.4 31.9 95.9

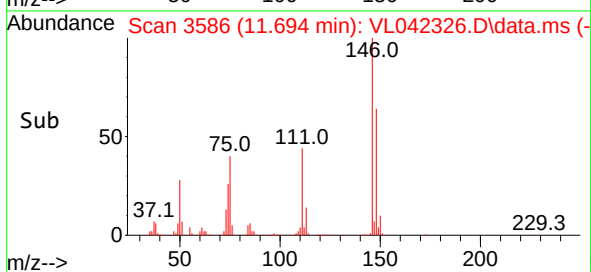
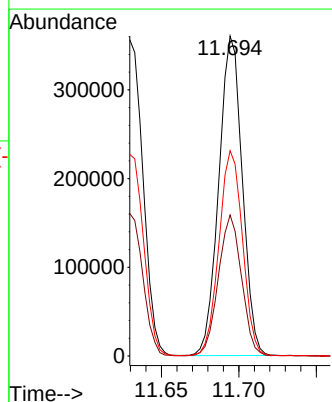
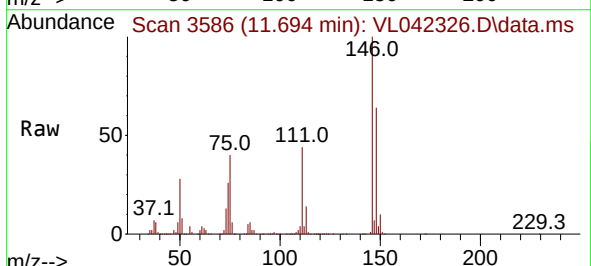
Manual Integrations
APPROVED

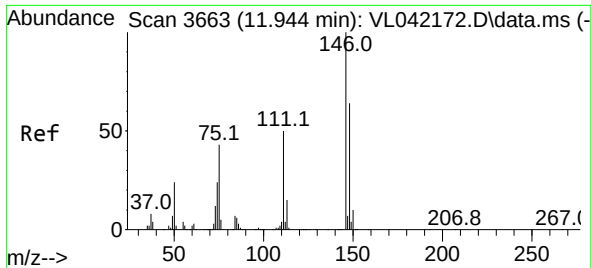
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025



#76
1,4-Dichlorobenzene
Concen: 9.499 ppbv
RT: 11.694 min Scan# 3586
Delta R.T. 0.026 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

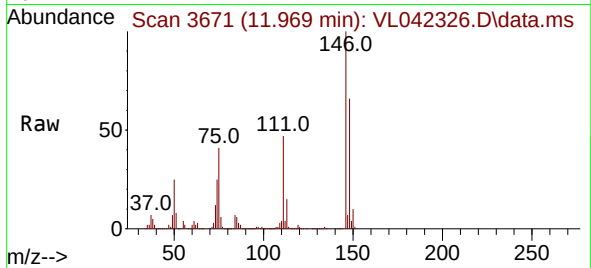
Tgt Ion:146 Resp: 380035
Ion Ratio Lower Upper
146 100
111 43.7 23.0 69.0
148 64.7 31.9 95.7





#77
1,2-Dichlorobenzene
Concen: 9.706 ppbv
RT: 11.969 min Scan# 30
Delta R.T. 0.026 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

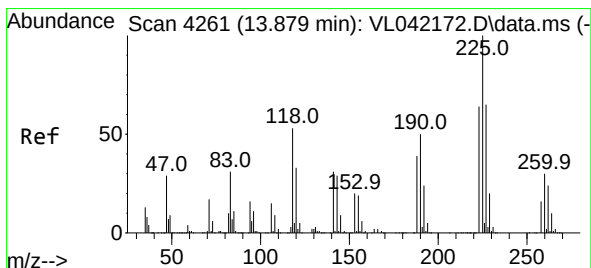
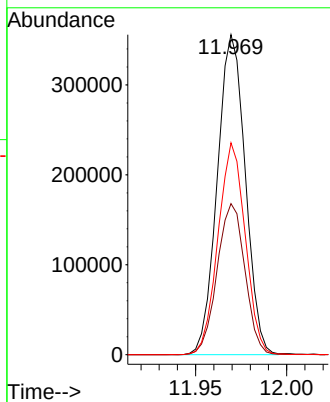
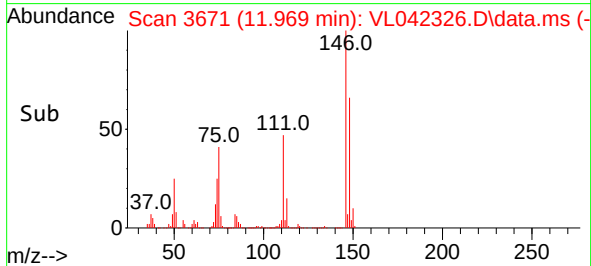
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



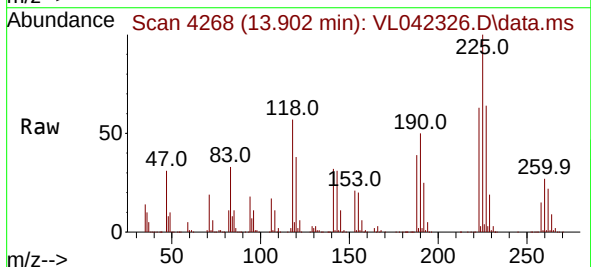
Tgt Ion:146 Resp: 379890
Ion Ratio Lower Upper
146 100
111 47.0 24.8 74.3
148 64.5 31.6 94.8

Manual Integrations
APPROVED

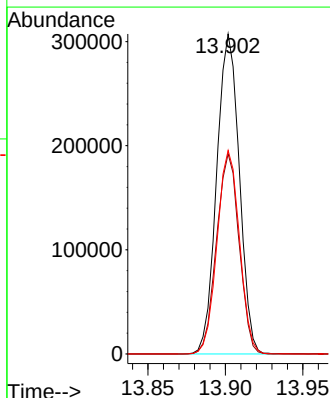
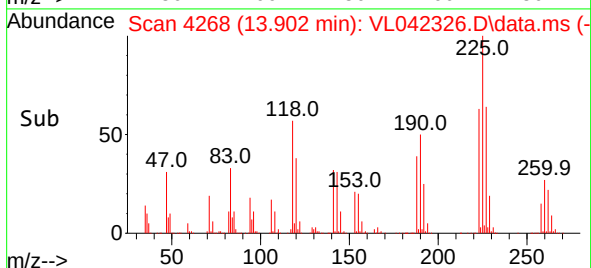
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025

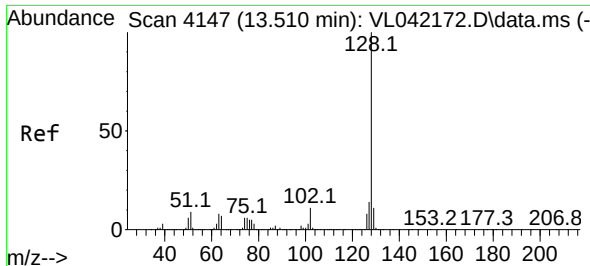


#78
Hexachloro-1,3-Butadiene
Concen: 7.828 ppbv
RT: 13.902 min Scan# 4268
Delta R.T. 0.023 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30



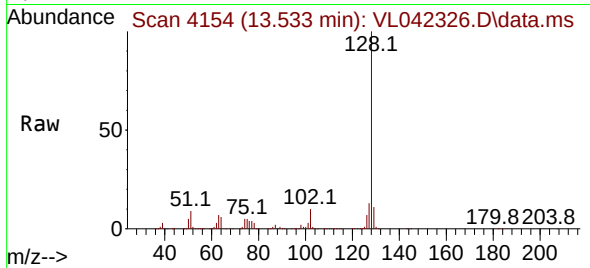
Tgt Ion:225 Resp: 311900
Ion Ratio Lower Upper
225 100
223 62.4 50.6 76.0
227 63.0 51.2 76.8





#79
Naphthalene
Concen: 9.490 ppbv
RT: 13.533 min Scan# 4147
Delta R.T. 0.023 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

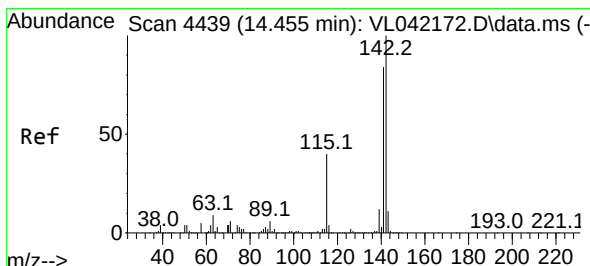
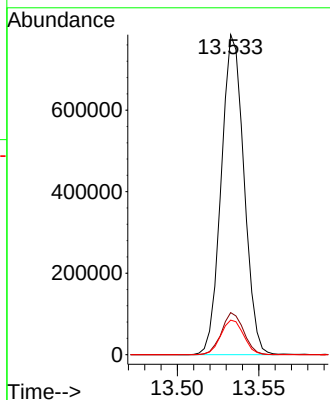
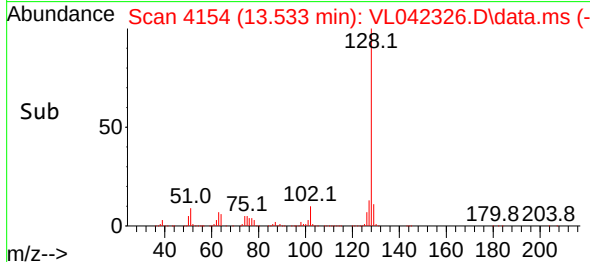
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



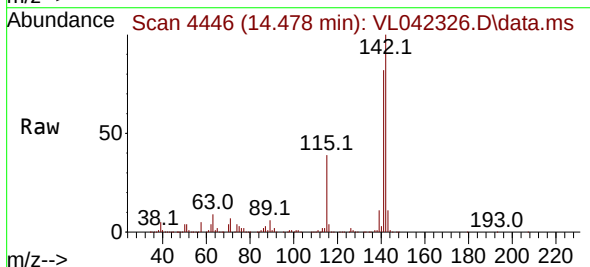
Tgt Ion:128 Resp: 760870
Ion Ratio Lower Upper
128 100
127 13.2 10.8 16.2
129 10.8 9.0 13.4

Manual Integrations
APPROVED

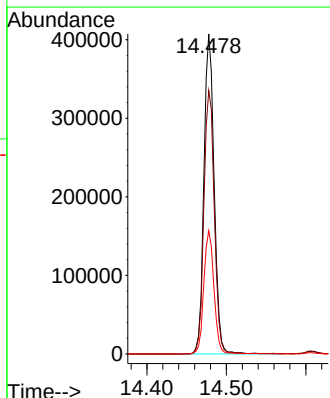
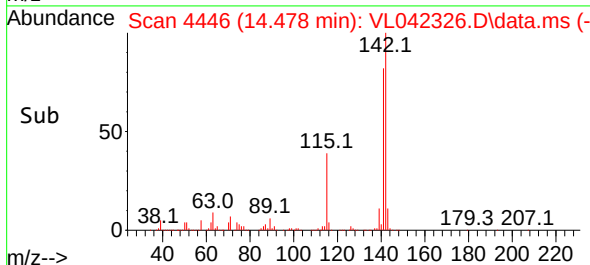
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025

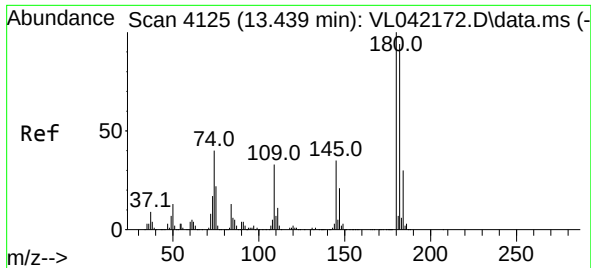


#80
Naphthalene,2-methyl-
Concen: 9.294 ppbv
RT: 14.478 min Scan# 4446
Delta R.T. 0.023 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30



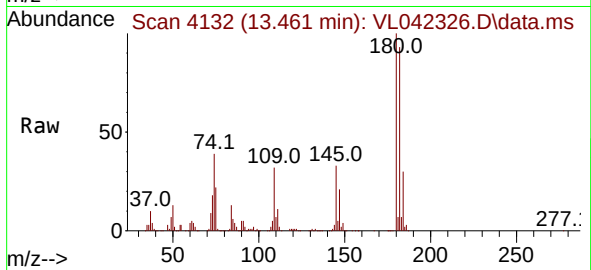
Tgt Ion:142 Resp: 365398
Ion Ratio Lower Upper
142 100
141 84.6 66.3 99.5
115 38.5 31.6 47.4





#81
 1,2,4-Trichlorobenzene
 Concen: 9.114 ppbv
 RT: 13.461 min Scan# 41
 Delta R.T. 0.023 min
 Lab File: VL042326.D
 Acq: 15 Apr 2025 11:30

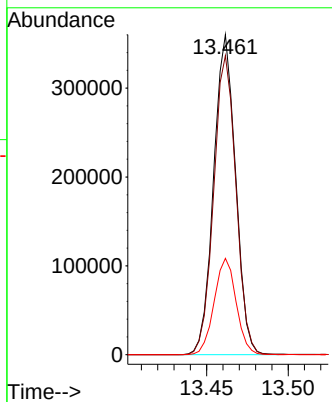
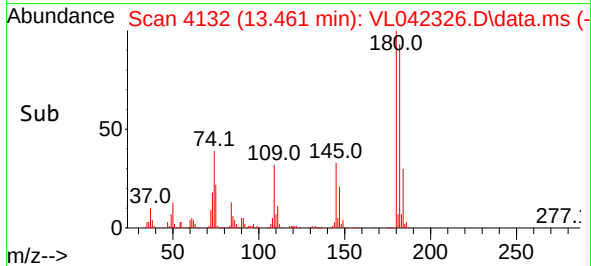
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



Tgt Ion:180	Resp:	33703
Ion Ratio	Lower	Upper
180	100	
182	95.1	75.1 112.7
184	30.2	24.4 36.6

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/16/2025
 Supervised By :Mahesh Dadoda 04/16/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041525\
Data File : VL042326.D
Acq On : 15 Apr 2025 11:30
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
LabSampleId :
VSTDCCC010

Quant Time: Apr 16 01:29:10 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

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	92	0.02
2 T	Dichlorodifluoromethane	1.476	1.245	15.7	82	0.00
3	Chlorodifluoromethane	1.508	1.366	9.4	86	0.00
4	Chloromethane	0.603	0.520	13.8	84	0.00
5 T	Vinyl Chloride	0.639	0.483	24.4	81	0.01
6 T	Bromomethane	0.273	0.211	22.7	76	0.01
7	Chloroethane	0.242	0.187	22.7	76	0.01
8 T	Dichlorotetrafluoroethane	1.257	1.062	15.5	81	0.01
9 T	Propene	0.691	0.587	15.1	82	0.00
10 T	Heptane	1.839	1.607	12.6	83	0.05
11 T	Trichlorofluoromethane	1.437	1.175	18.2	81	0.01
12 T	1,1,2-Trichlorotrifluoroeth	1.181	0.912	22.8	75	0.02
13	Ethanol	0.065	0.026#	60.0#	83	0.01
14 T	Bromoethene	0.452	0.346	23.5	76	0.02
15 T	Acetone	1.399	1.065	23.9	88	0.01
16 T	1,3-Butadiene	0.683	0.528	22.7	85	0.01
17	tert-Butyl alcohol	1.742	1.218	30.1#	69	0.02
18 T	1,1-Dichloroethene	0.552	0.420	23.9	77	0.02
19 T	Isopropyl Alcohol	0.789	0.606	23.2	79	0.01
20 T	Methylene Chloride	0.521	0.350	32.8#	74	0.02
21 T	Allyl Chloride	0.986	0.772	21.7	79	0.02
22 T	trans-1,2-Dichloroethene	0.638	0.474	25.7	74	0.02
23 T	Vinyl Acetate	0.605	0.419	30.7#	78	0.02
24 T	1,1-Dichloroethane	1.183	0.983	16.9	81	0.02
25 T	Ethyl Acetate	3.630	3.278	9.7	87	0.02
26 T	Hexane	1.402	1.241	11.5	86	0.02
27 T	Carbon Disulfide	1.503	1.135	24.5	73	0.02
28 T	Methyl tert-Butyl Ether	0.873	0.675	22.7	75	0.02
29 T	Chloroform	2.052	1.824	11.1	87	0.02
30 T	Cyclohexane	1.217	1.006	17.3	80	0.03
31 T	cis-1,2-Dichloroethene	1.423	1.208	15.1	81	0.02
32 T	1,1,1-Trichloroethane	2.349	1.810	22.9	81	0.03
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	84	0.04
34 T	2-Butanone	0.725	0.694	4.3	87	0.02
35 T	Carbon Tetrachloride	0.781	0.695	11.0	83	0.03
36 T	Benzene	0.991	0.928	6.4	83	0.03
37 T	1,2-Dichloroethane	0.568	0.524	7.7	82	0.03
38 T	Trichloroethene	0.414	0.377	8.9	84	0.04
39 T	1,2-Dichloropropane	0.361	0.332	8.0	83	0.04
40 T	1,4-Dioxane	0.192	0.158	17.7	78	0.05
41 T	Tetrahydrofuran	0.418	0.397	5.0	84	0.03
42 T	Bromodichloromethane	0.782	0.729	6.8	80	0.04
43	Methyl Methacrylate	0.420	0.340	19.0	71	0.05
44 T	2,2,4-Trimethylpentane	1.675	1.593	4.9	83	0.04
45 T	t-1,3-Dichloropropene	0.450	0.330	26.7	63	0.05
46 T	cis-1,3-Dichloropropene	0.552	0.447	19.0	68	0.05
47 T	1,1,2-Trichloroethane	0.382	0.357	6.5	82	0.05
48 T	Dibromochloromethane	0.647	0.596	7.9	79	0.05

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041525\
Data File : VL042326.D
Acq On : 15 Apr 2025 11:30
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
LabSampleId :
VSTDCCC010

Quant Time: Apr 16 01:29:10 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

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	0.522	10.2	75	0.04
50 T	4-Methyl-2-Pentanone	1.149	0.969	15.7	79	0.05
51 T	2-Hexanone	0.944	0.773	18.1	77	0.04
52 T	Tetrachloroethene	0.393	0.316	19.6	77	0.04
53 T	Toluene	1.175	1.010	14.0	75	0.05
54 T	1,2-Dibromoethane	0.532	0.481	9.6	80	0.04
55 I	Chlorobenzene-d5	1.000	1.000	0.0	79	0.04
56	1,1,1,2-Tetrachloroethane	0.550	0.520	5.5	81	0.04
57 T	Chlorobenzene	0.949	0.912	3.9	83	0.04
58 T	Ethyl Benzene	1.776	1.555	12.4	74	0.03
59 T	m/p-Xylene	1.418	1.292	8.9	77	0.03
60 T	o-Xylene	1.422	1.285	9.6	77	0.03
61 T	Styrene	0.703	0.596	15.2	69	0.03
62	Isopropylbenzene	2.126	1.931	9.2	78	0.03
63 T	1,1,2,2-Tetrachloroethane	0.864	0.835	3.4	83	0.03
64	n-propylbenzene	0.547	0.517	5.5	82	0.03
65	tert-Butylbenzene	1.966	1.752	10.9	80	0.03
66 T	Benzyl Chloride	0.209	0.132	36.8#	52	0.03
67	sec-Butylbenzene	2.733	2.494	8.7	82	0.03
68 S	1-Bromo-4-Fluorobenzene	0.821	0.792	3.5	77	0.03
69	p-Isopropyltoluene	2.354	2.103	10.7	80	0.02
70	n-Butylbenzene	2.407	2.149	10.7	80	0.03
71	2-Chlorotoluene	1.650	1.457	11.7	75	0.03
72 T	4-Ethyltoluene	1.770	1.598	9.7	78	0.03
73 T	1,3,5-Trimethylbenzene	1.546	1.355	12.4	77	0.03
74 T	1,2,4-Trimethylbenzene	1.781	1.515	14.9	79	0.02
75 T	1,3-Dichlorobenzene	0.977	0.927	5.1	83	0.03
76 T	1,4-Dichlorobenzene	0.972	0.924	4.9	82	0.03
77 T	1,2-Dichlorobenzene	0.951	0.923	2.9	86	0.03
78 T	Hexachloro-1,3-Butadiene	0.968	0.758	21.7	75	0.02
79 T	Naphthalene	1.948	1.849	5.1	81	0.02
80 T	Naphthalene,2-methyl-	0.955	0.888	7.0	71	0.02
81 T	1,2,4-Trichlorobenzene	0.899	0.819	8.9	75	0.02

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



QC SAMPLE DATA

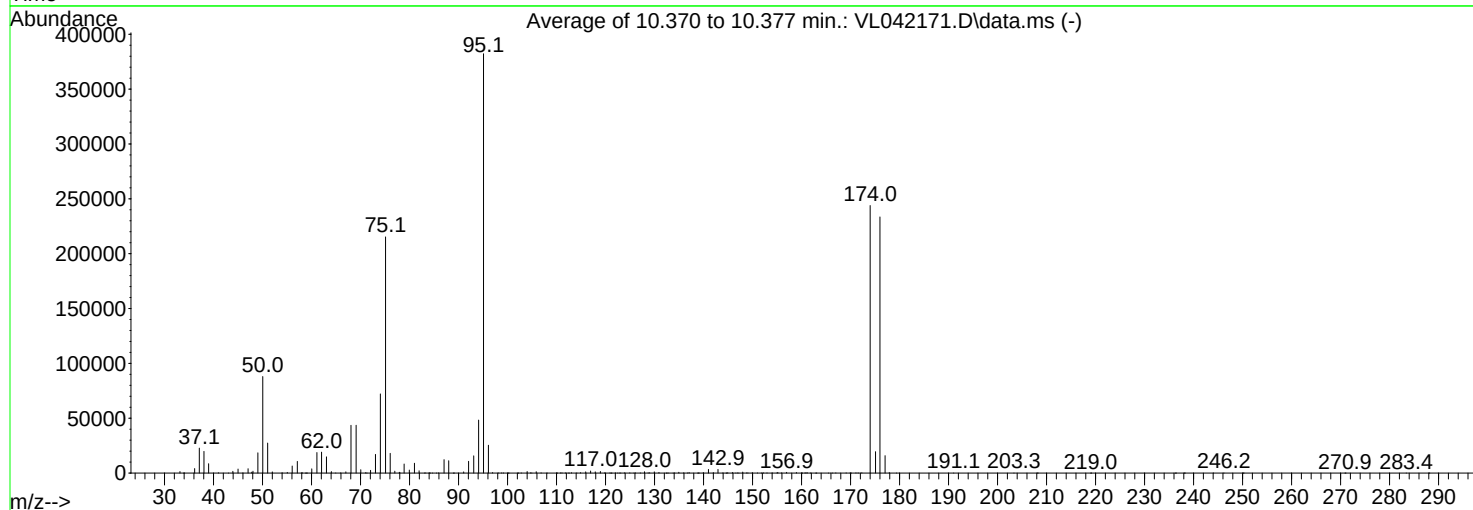
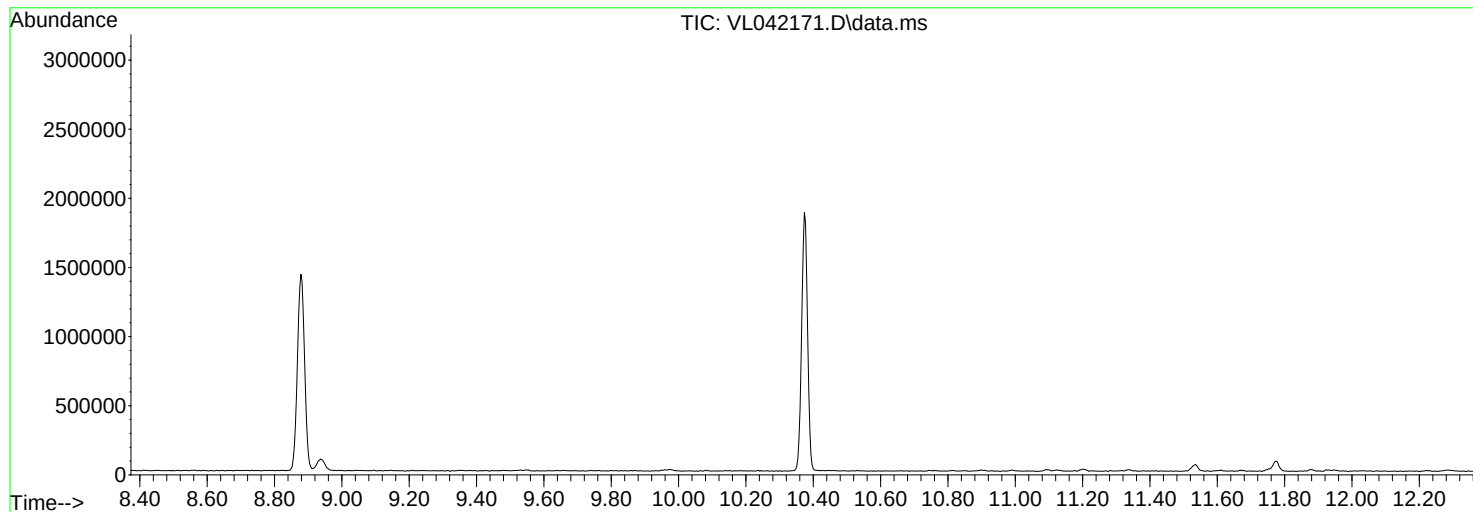
- 1
- 2
- 3
- 4
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- 9
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- 15
- 16
- 17
- 18

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

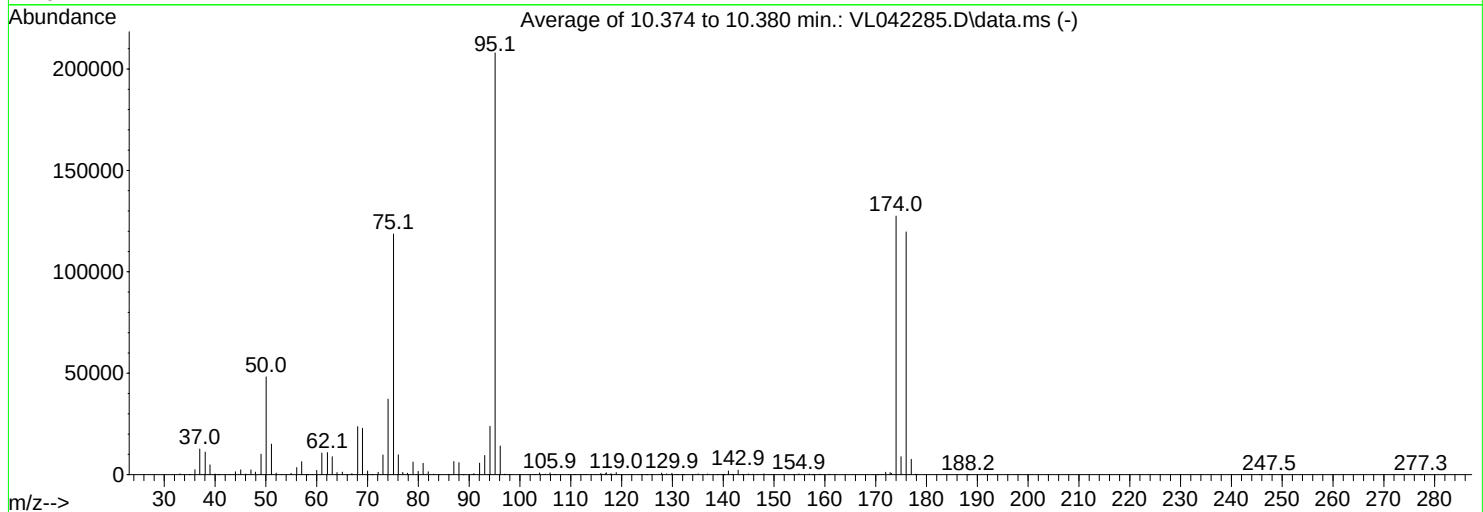
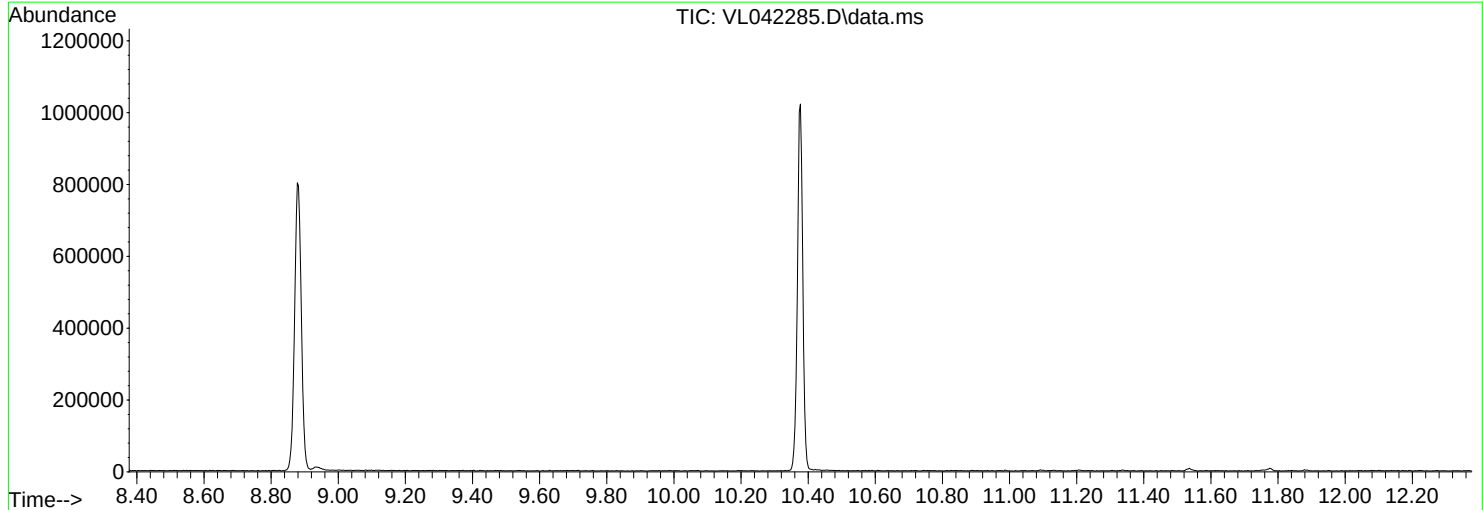
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	23.0	87995	PASS
75	95	30	66	56.3	215296	PASS
95	95	100	100	100.0	382268	PASS
96	95	5	9	6.6	25383	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	63.8	243904	PASS
175	174	4	9	8.0	19539	PASS
176	174	93	101	95.7	233493	PASS
177	176	5	9	6.8	15877	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042285.D
Acq On : 09 Apr 2025 09:38
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 3178, 3179, 3180; Background Corrected with Scan 3162

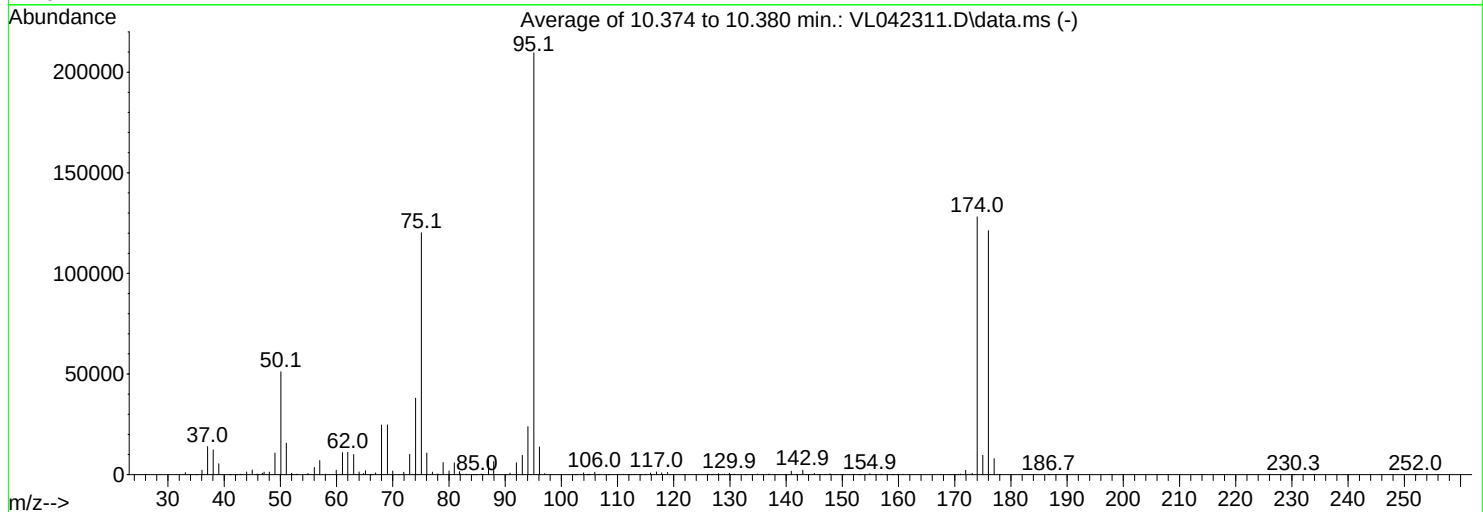
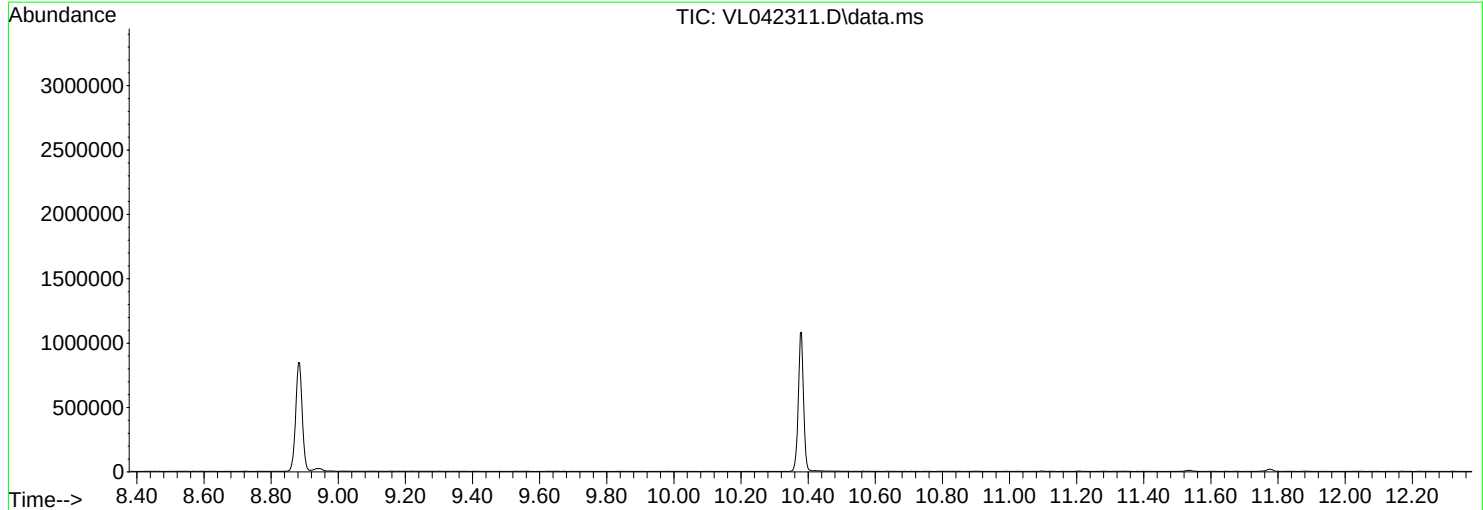
Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	8	40	23.2	48216	PASS
75	95	30	66	57.1	118680	PASS
95	95	100	100	100.0	207979	PASS
96	95	5	9	6.8	14091	PASS
173	174	0.00	2	0.8	1054	PASS
174	95	50	120	61.3	127477	PASS
175	174	4	9	6.9	8833	PASS
176	174	93	101	93.9	119656	PASS
177	176	5	9	6.4	7607	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042311.D
Acq On : 11 Apr 2025 08:18
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 3178, 3179, 3180; Background Corrected with Scan 3165

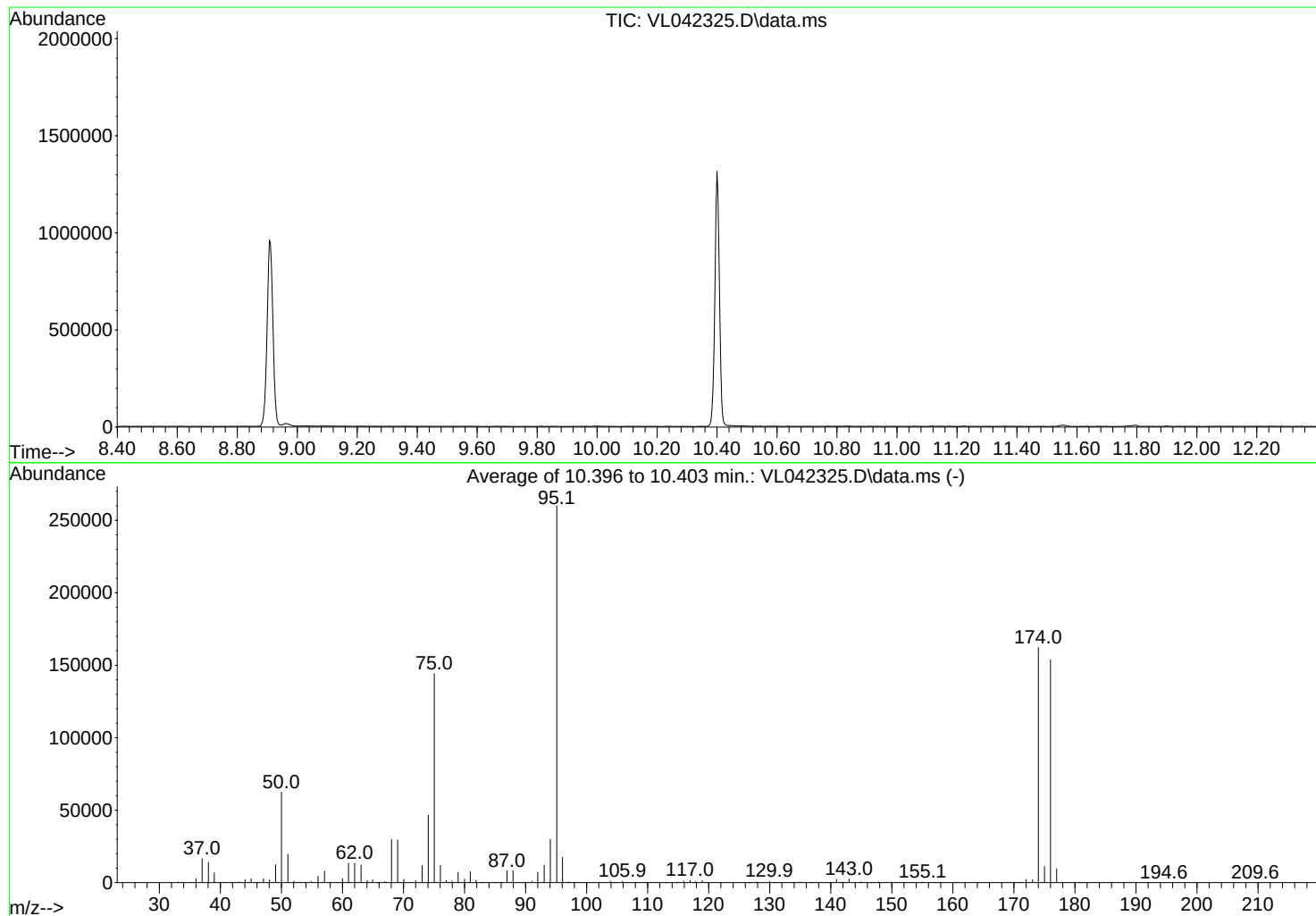
Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	8	40	24.4	51160	PASS
75	95	30	66	57.3	120195	PASS
95	95	100	100	100.0	209621	PASS
96	95	5	9	6.6	13755	PASS
173	174	0.00	2	0.5	631	PASS
174	95	50	120	61.1	128109	PASS
175	174	4	9	7.5	9591	PASS
176	174	93	101	94.7	121299	PASS
177	176	5	9	6.6	7977	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041525\
Data File : VL042325.D
Acq On : 15 Apr 2025 07:45
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 3185, 3186, 3187; Background Corrected with Scan 3171

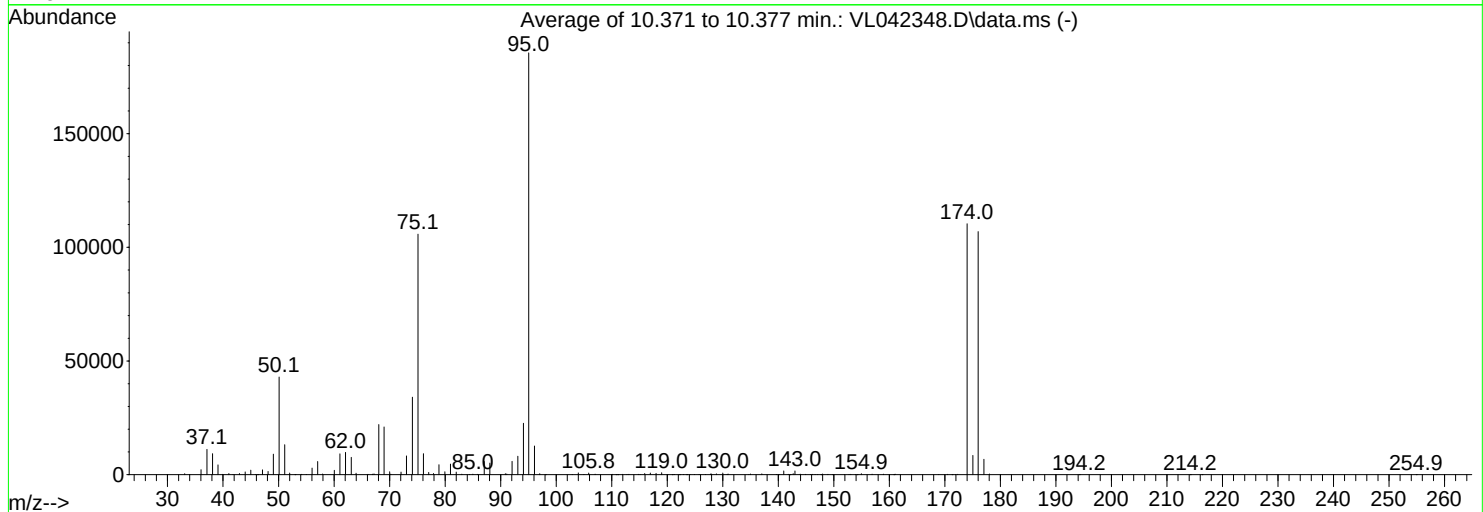
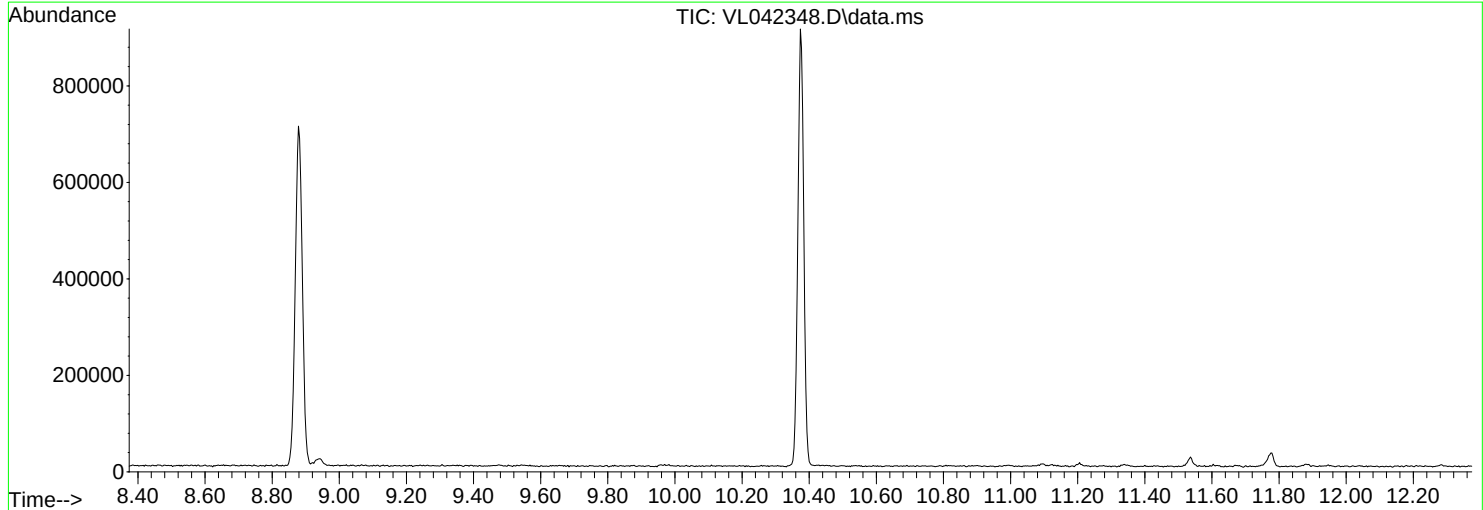
Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	8	40	24.0	62363	PASS
75	95	30	66	55.5	144299	PASS
95	95	100	100	100.0	260117	PASS
96	95	5	9	6.7	17331	PASS
173	174	0.00	2	1.3	2038	PASS
174	95	50	120	62.4	162261	PASS
175	174	4	9	6.8	11092	PASS
176	174	93	101	94.8	153792	PASS
177	176	5	9	6.2	9603	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042348.D
Acq On : 17 Apr 2025 07:50
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Fri Apr 18 02:14:00 2025



AutoFind: Scans 3177, 3178, 3179; Background Corrected with Scan 3162

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	8	40	23.1	42933	PASS
75	95	30	66	57.0	105781	PASS
95	95	100	100	100.0	185564	PASS
96	95	5	9	6.8	12627	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	59.5	110360	PASS
175	174	4	9	7.6	8420	PASS
176	174	93	101	96.9	106933	PASS
177	176	5	9	6.3	6744	PASS

Report of Analysis

Client:	Woodard & Curran	Date Collected:	
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	
Client Sample ID:	VL0409ABL01	SDG No.:	Q1665
Lab Sample ID:	VL0409ABL01	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
VL042287.D	1		04/09/25 11:03	VL040925

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.21	1.04	U	1.04	2.47	ug/m3
74-87-3	Chloromethane	0.10	0.21	U	0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.010	0.030	U	0.030	0.080	ug/m3
74-83-9	Bromomethane	0.14	0.54	U	0.54	1.94	ug/m3
75-00-3	Chloroethane	0.17	0.45	U	0.45	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.13	0.38	U	0.38	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.16	0.90	U	0.90	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.16	1.23	U	1.23	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.090	0.63	U	0.63	3.49	ug/m3
75-65-0	tert-Butyl alcohol	0.19	0.58	U	0.58	1.52	ug/m3
142-82-5	Heptane	0.11	0.45	U	0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
67-64-1	Acetone	0.24	0.57	U	0.57	1.19	ug/m3
75-15-0	Carbon Disulfide	0.16	0.50	U	0.50	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.12	0.43	U	0.43	1.80	ug/m3
75-09-2	Methylene Chloride	0.19	0.66	U	0.66	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.19	0.75	U	0.75	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.13	0.53	U	0.53	2.02	ug/m3
110-82-7	Cyclohexane	0.22	0.76	U	0.76	1.72	ug/m3
78-93-3	2-Butanone	0.12	0.35	U	0.35	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.010	0.060	U	0.060	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.090	0.36	U	0.36	1.98	ug/m3
67-66-3	Chloroform	0.080	0.39	U	0.39	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.010	0.050	U	0.050	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.10	0.47	U	0.47	2.34	ug/m3
71-43-2	Benzene	0.090	0.29	U	0.29	1.60	ug/m3
107-06-2	1,2-Dichloroethane	0.090	0.36	U	0.36	2.02	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.11	0.51	U	0.51	2.31	ug/m3
75-27-4	Bromodichloromethane	0.080	0.54	U	0.54	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.090	0.37	U	0.37	2.05	ug/m3
108-88-3	Toluene	0.11	0.41	U	0.41	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.070	0.38	U	0.38	2.73	ug/m3

Report of Analysis

Client:	Woodard & Curran	Date Collected:	
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	
Client Sample ID:	VL0409ABL01	SDG No.:	Q1665
Lab Sample ID:	VL0409ABL01	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
VL042287.D	1		04/09/25 11:03	VL040925

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.070	0.60	U	0.60	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.070	0.54	U	0.54	0.77	ug/m3
127-18-4	Tetrachloroethene	0.020	0.14	U	0.14	0.20	ug/m3
108-90-7	Chlorobenzene	0.080	0.37	U	0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	0.12	0.52	U	0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	0.21	0.91	U	0.91	4.34	ug/m3
95-47-6	o-Xylene	0.12	0.52	U	0.52	2.17	ug/m3
100-42-5	Styrene	0.11	0.47	U	0.47	2.13	ug/m3
75-25-2	Bromoform	0.060	0.62	U	0.62	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.010	0.070	U	0.070	0.21	ug/m3
95-49-8	2-Chlorotoluene	0.11	0.57	U	0.57	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.11	0.54	U	0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.080	0.39	U	0.39	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.050	0.30	U	0.30	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.090	0.67	U	0.67	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.090	0.96	U	0.96	5.33	ug/m3
106-99-0	1,3-Butadiene	0.13	0.29	U	0.29	1.11	ug/m3
91-20-3	Naphthalene	0.080	0.42	U	0.42	0.52	ug/m3
622-96-8	4-Ethyltoluene	0.12	0.59	U	0.59	2.46	ug/m3
110-54-3	Hexane	0.11	0.39	U	0.39	1.76	ug/m3
107-05-1	Allyl Chloride	0.15	0.47	U	0.47	1.57	ug/m3
123-91-1	1,4-Dioxane	0.21	0.76	U	0.76	1.80	ug/m3
80-62-6	Methyl Methacrylate	0.090	0.37	U	0.37	2.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.10			70 (65) - 130 (135)	91%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	157000		2.784			
540-36-3	1,4-Difluorobenzene	392000		3.955			
3114-55-4	Chlorobenzene-d5	334000		8.878			

Report of Analysis

Client:	Woodard & Curran	Date Collected:	
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	
Client Sample ID:	VL0409ABL01	SDG No.:	Q1665
Lab Sample ID:	VL0409ABL01	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
VL042287.D	1		04/09/25 11:03	VL040925

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
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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\VL040925\
Data File : VL042287.D
Acq On : 09 Apr 2025 11:03
Operator : SY/MD
Sample : VL0409ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0409ABL01

Quant Time: Apr 10 01:40:58 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	2.784	49	156784	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	391570	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	334054	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	250420	9.128	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	91.300%

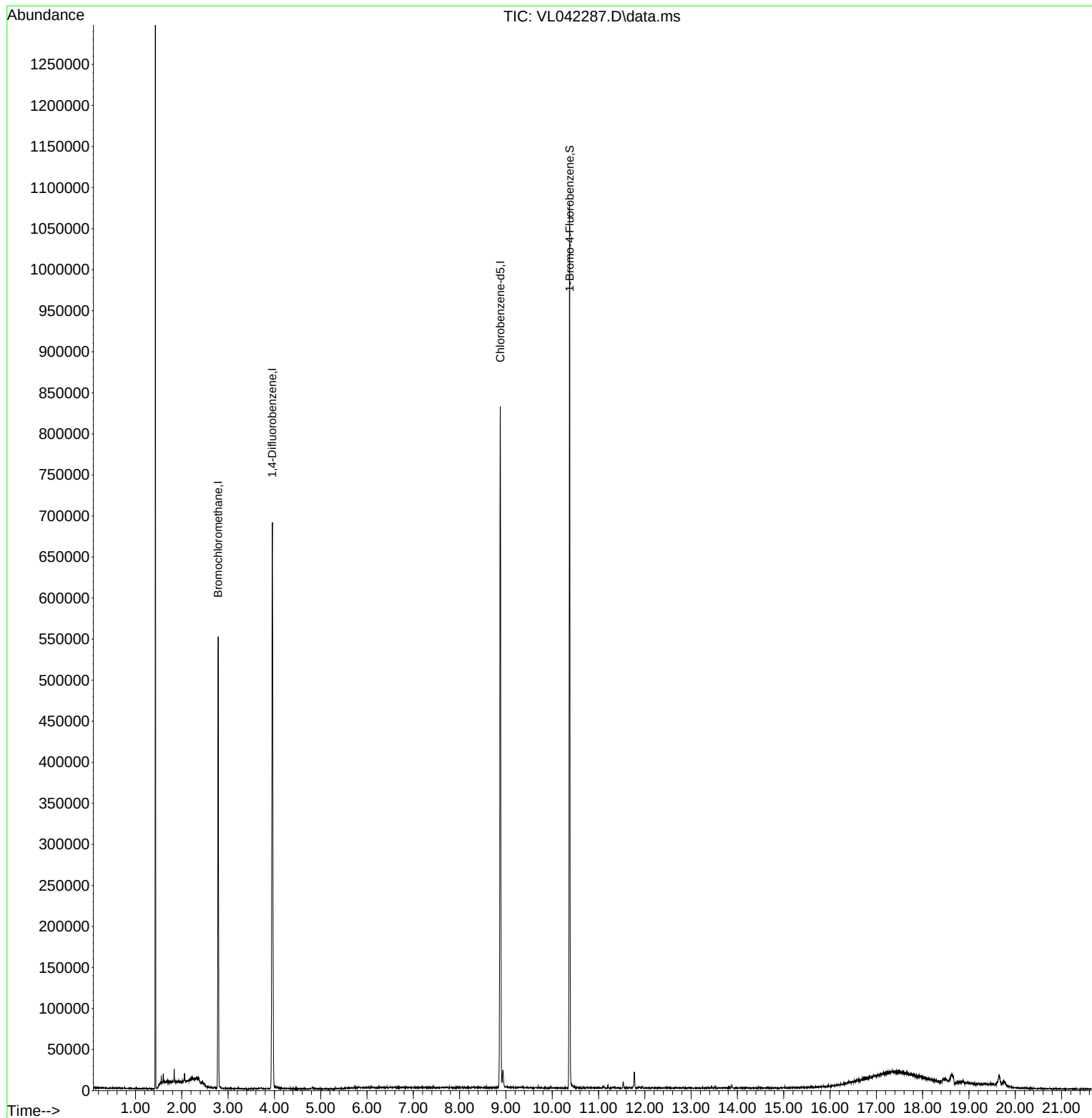
Target Compounds	Qvalue

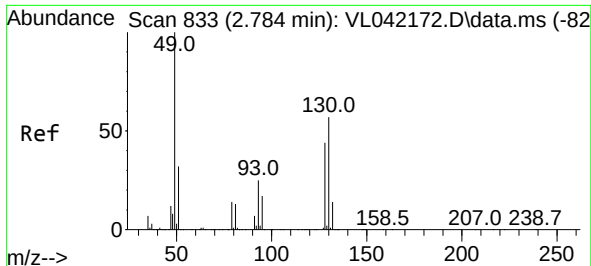
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042287.D
Acq On : 09 Apr 2025 11:03
Operator : SY/MD
Sample : VL0409ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0409ABL01

Quant Time: Apr 10 01:40:58 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

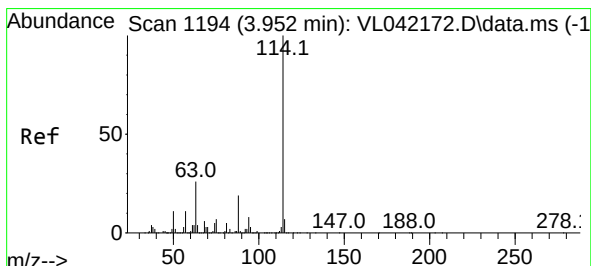
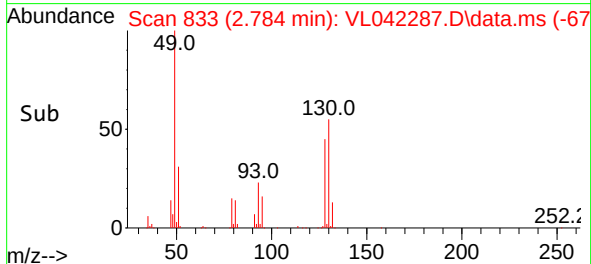
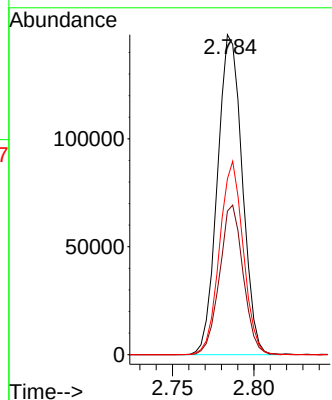
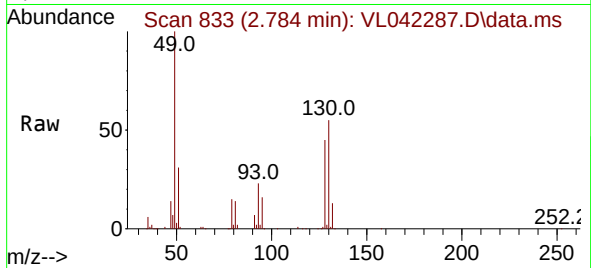




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.784 min Scan# 81
 Delta R.T. -0.000 min
 Lab File: VL042287.D
 Acq: 09 Apr 2025 11:03

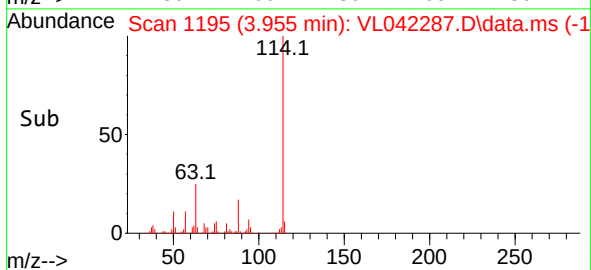
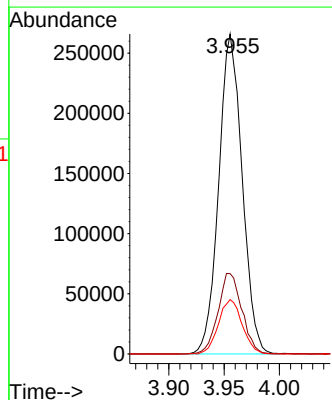
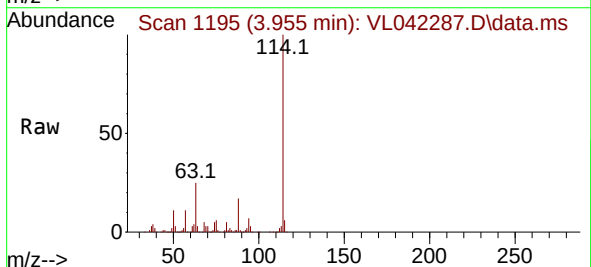
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0409ABL01

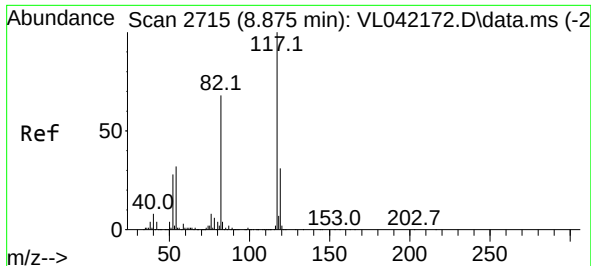
Tgt Ion: 49 Resp: 156784
 Ion Ratio Lower Upper
 49 100
 128 44.5 22.9 68.5
 130 57.7 28.8 86.4



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.955 min Scan# 1195
 Delta R.T. 0.003 min
 Lab File: VL042287.D
 Acq: 09 Apr 2025 11:03

Tgt Ion: 114 Resp: 391570
 Ion Ratio Lower Upper
 114 100
 63 25.6 20.7 31.1
 88 17.2 15.0 22.4

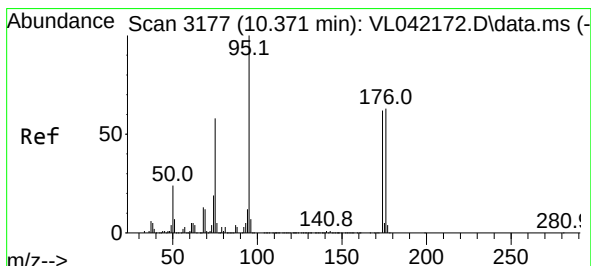
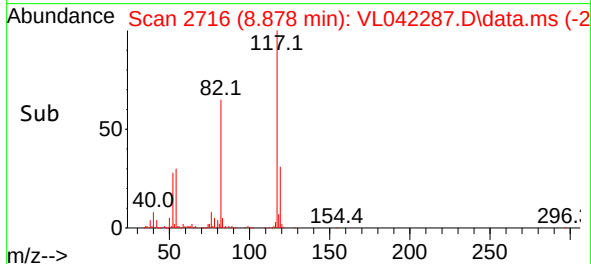
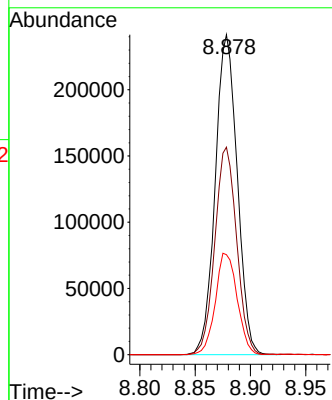
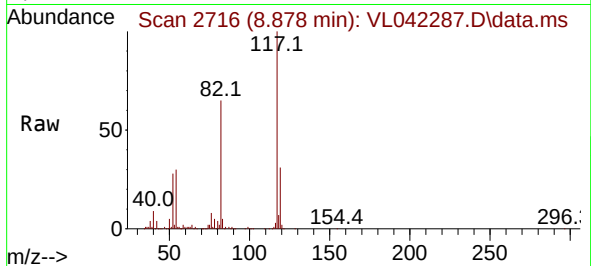




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042287.D
Acq: 09 Apr 2025 11:03

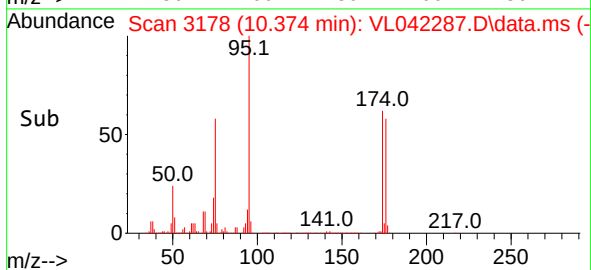
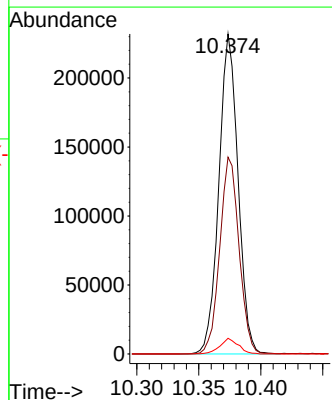
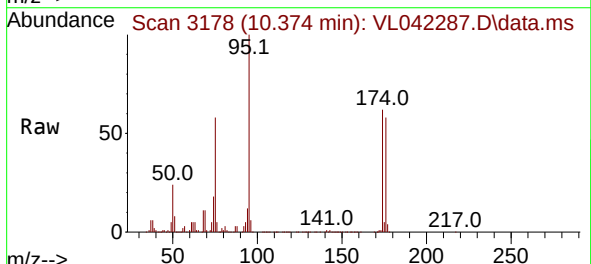
Instrument :
MSVOA_1
ClientSampleId :
VL0409ABL01

Tgt Ion:	117	Resp:	334054
Ion	Ratio	Lower	Upper
117	100		
82	64.5	55.8	83.6
119	31.5	25.5	38.3



#68
1-Bromo-4-Fluorobenzene
Concen: 9.128 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. 0.003 min
Lab File: VL042287.D
Acq: 09 Apr 2025 11:03

Tgt Ion:	95	Resp:	250420
Ion	Ratio	Lower	Upper
95	100		
174	62.0	50.6	76.0
175	4.7	3.8	5.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042287.D
Acq On : 09 Apr 2025 11:03
Operator : SY/MD
Sample : VL0409ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0409ABL01

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\VL032725AIR.M

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

Signal : TIC: VL042287.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	1536698	882097	74.58%	17.953%
2	2.787	825	834	843	rBV	550211	583696	49.35%	11.880%
3	3.955	1179	1195	1209	rBV	689815	1037158	87.68%	21.109%
4	8.878	2704	2716	2726	rBV	829493	1166426	98.61%	23.740%
5	8.933	2726	2733	2745	rVB3	20701	34755	2.94%	0.707%
6	10.374	3167	3178	3188	rBV	1079284	1182823	100.00%	24.074%
7	11.772	3598	3610	3618	rVB4	19739	26381	2.23%	0.537%

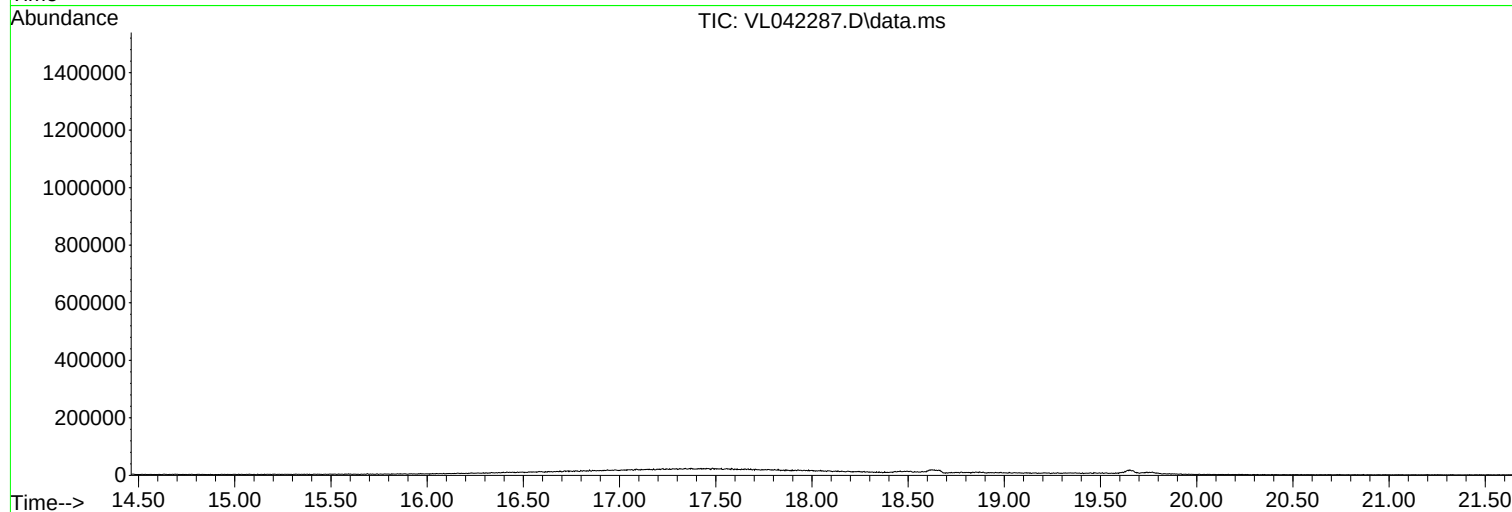
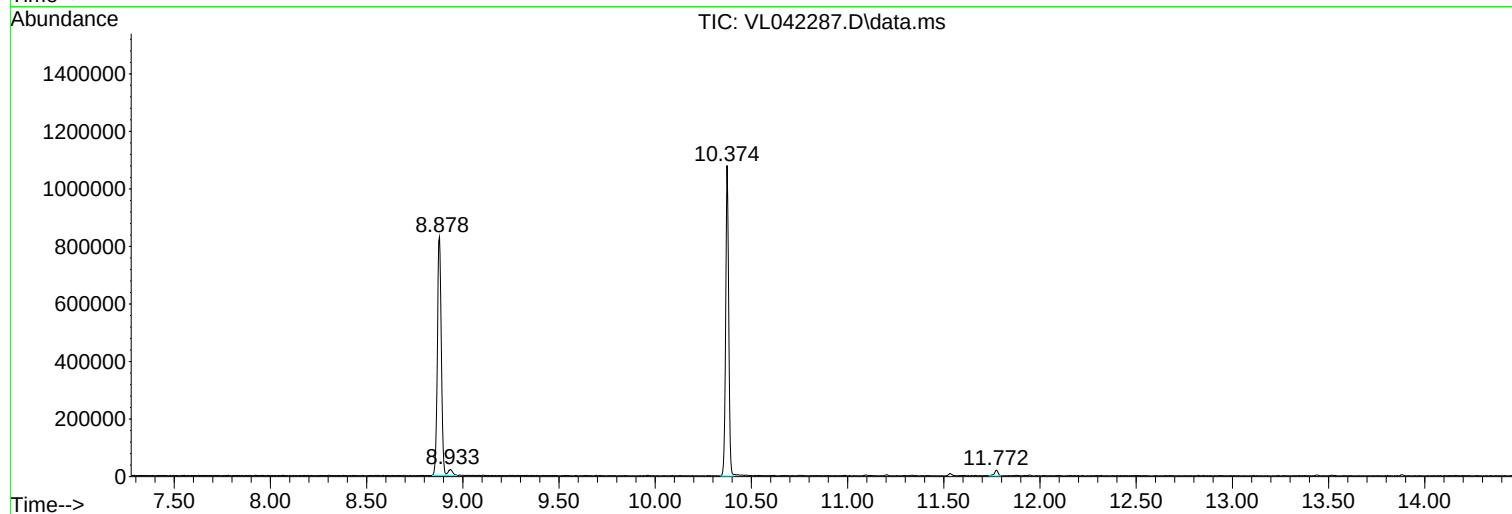
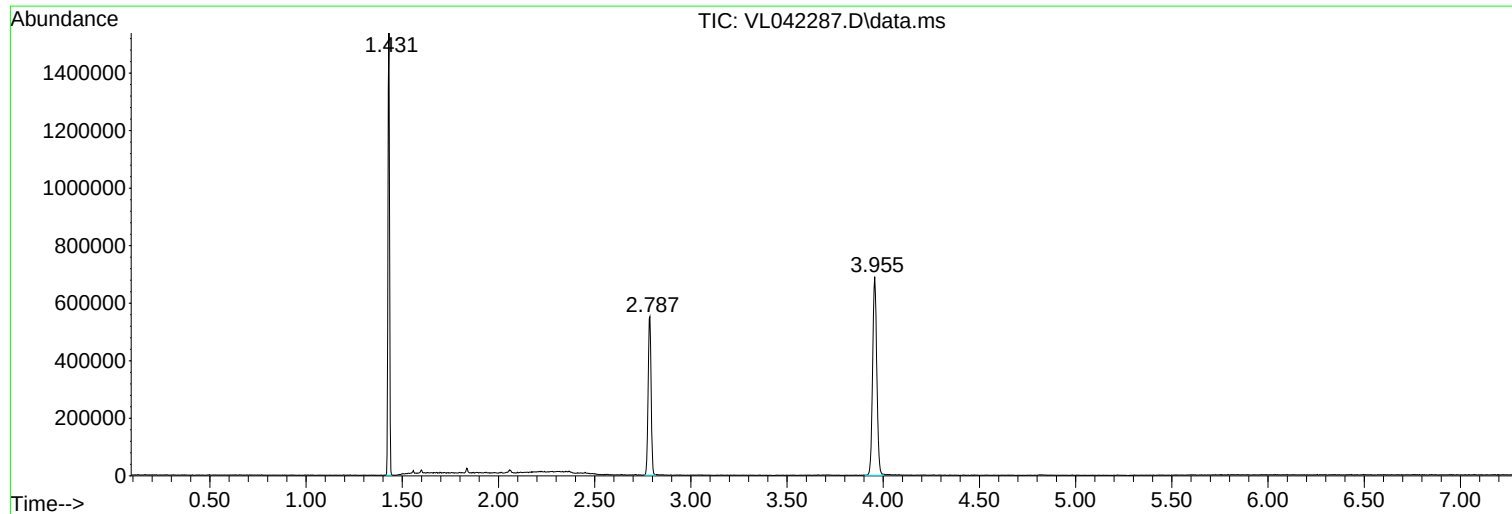
Sum of corrected areas: 4913336

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042287.D
Acq On : 09 Apr 2025 11:03
Operator : SY/MD
Sample : VL0409ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0409ABL01

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

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042287.D
Acq On : 09 Apr 2025 11:03
Operator : SY/MD
Sample : VL0409ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0409ABL01

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

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

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042287.D
Acq On : 09 Apr 2025 11:03
Operator : SY/MD
Sample : VL0409ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0409ABL01

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

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:	VL0411ABL01	SDG No.:	Q1665
Lab Sample ID:	VL0411ABL01	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
VL042313.D	1		04/11/25 10:36	VL041125

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.21	1.04	U	1.04	2.47	ug/m3
74-87-3	Chloromethane	0.10	0.21	U	0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.010	0.030	U	0.030	0.080	ug/m3
74-83-9	Bromomethane	0.14	0.54	U	0.54	1.94	ug/m3
75-00-3	Chloroethane	0.17	0.45	U	0.45	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.13	0.38	U	0.38	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.16	0.90	U	0.90	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.16	1.23	U	1.23	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.090	0.63	U	0.63	3.49	ug/m3
75-65-0	tert-Butyl alcohol	0.19	0.58	U	0.58	1.52	ug/m3
142-82-5	Heptane	0.11	0.45	U	0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
67-64-1	Acetone	0.24	0.57	U	0.57	1.19	ug/m3
75-15-0	Carbon Disulfide	0.16	0.50	U	0.50	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.12	0.43	U	0.43	1.80	ug/m3
75-09-2	Methylene Chloride	0.19	0.66	U	0.66	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.19	0.75	U	0.75	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.13	0.53	U	0.53	2.02	ug/m3
110-82-7	Cyclohexane	0.22	0.76	U	0.76	1.72	ug/m3
78-93-3	2-Butanone	0.12	0.35	U	0.35	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.010	0.060	U	0.060	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.090	0.36	U	0.36	1.98	ug/m3
67-66-3	Chloroform	0.080	0.39	U	0.39	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.010	0.050	U	0.050	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.10	0.47	U	0.47	2.34	ug/m3
71-43-2	Benzene	0.090	0.29	U	0.29	1.60	ug/m3
107-06-2	1,2-Dichloroethane	0.090	0.36	U	0.36	2.02	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.11	0.51	U	0.51	2.31	ug/m3
75-27-4	Bromodichloromethane	0.080	0.54	U	0.54	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.090	0.37	U	0.37	2.05	ug/m3
108-88-3	Toluene	0.11	0.41	U	0.41	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.070	0.38	U	0.38	2.73	ug/m3

Report of Analysis

Client:	Woodard & Curran	Date Collected:	
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	
Client Sample ID:	VL0411ABL01	SDG No.:	Q1665
Lab Sample ID:	VL0411ABL01	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
VL042313.D	1		04/11/25 10:36	VL041125

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.070	0.60	U	0.60	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.070	0.54	U	0.54	0.77	ug/m3
127-18-4	Tetrachloroethene	0.020	0.14	U	0.14	0.20	ug/m3
108-90-7	Chlorobenzene	0.080	0.37	U	0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	0.12	0.52	U	0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	0.21	0.91	U	0.91	4.34	ug/m3
95-47-6	o-Xylene	0.12	0.52	U	0.52	2.17	ug/m3
100-42-5	Styrene	0.11	0.47	U	0.47	2.13	ug/m3
75-25-2	Bromoform	0.060	0.62	U	0.62	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.010	0.070	U	0.070	0.21	ug/m3
95-49-8	2-Chlorotoluene	0.11	0.57	U	0.57	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.11	0.54	U	0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.080	0.39	U	0.39	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.050	0.30	U	0.30	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.090	0.67	U	0.67	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.090	0.96	U	0.96	5.33	ug/m3
106-99-0	1,3-Butadiene	0.13	0.29	U	0.29	1.11	ug/m3
91-20-3	Naphthalene	0.080	0.42	U	0.42	0.52	ug/m3
622-96-8	4-Ethyltoluene	0.12	0.59	U	0.59	2.46	ug/m3
110-54-3	Hexane	0.11	0.39	U	0.39	1.76	ug/m3
107-05-1	Allyl Chloride	0.15	0.47	U	0.47	1.57	ug/m3
123-91-1	1,4-Dioxane	0.21	0.76	U	0.76	1.80	ug/m3
80-62-6	Methyl Methacrylate	0.090	0.37	U	0.37	2.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.10			70 (65) - 130 (135)	91%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	180000		2.79			
540-36-3	1,4-Difluorobenzene	445000		3.962			
3114-55-4	Chlorobenzene-d5	374000		8.885			

Report of Analysis

Client:	Woodard & Curran	Date Collected:	
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	
Client Sample ID:	VL0411ABL01	SDG No.:	Q1665
Lab Sample ID:	VL0411ABL01	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
VL042313.D	1		04/11/25 10:36	VL041125

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
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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\VL041125\
Data File : VL042313.D
Acq On : 11 Apr 2025 10:36
Operator : SY/MD
Sample : VL0411ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0411ABL01

Quant Time: Apr 11 22:57:18 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	2.790	49	180225	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	445487	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	373548	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.380	95	277731	9.054	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	90.500%

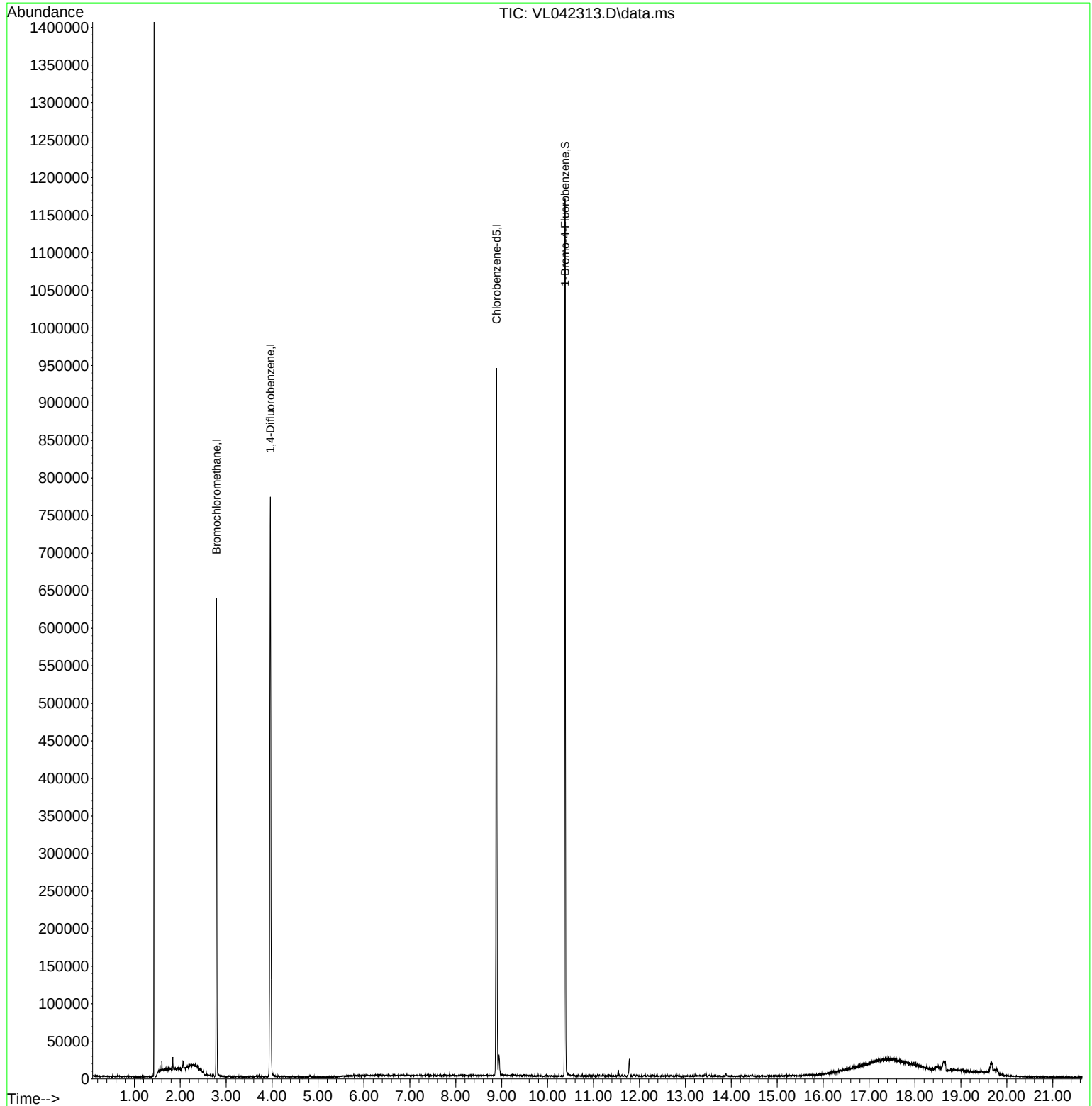
Target Compounds	Qvalue

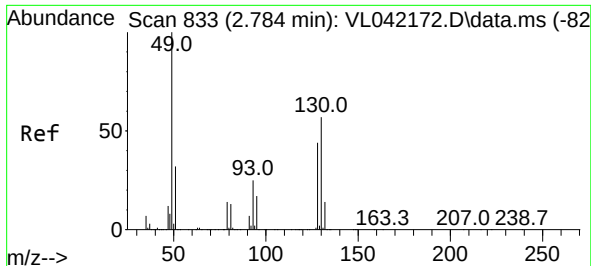
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042313.D
Acq On : 11 Apr 2025 10:36
Operator : SY/MD
Sample : VL0411ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0411ABL01

Quant Time: Apr 11 22:57:18 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

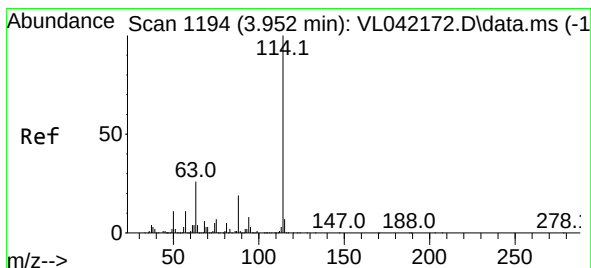
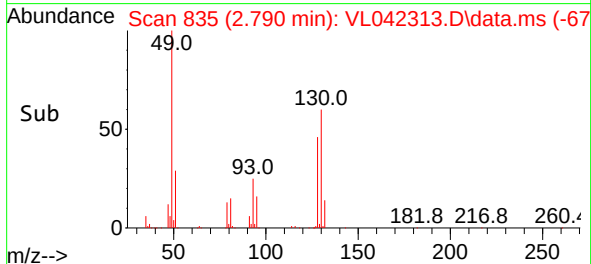
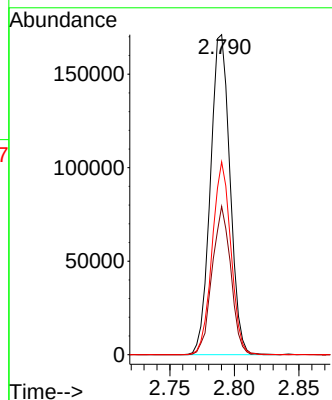
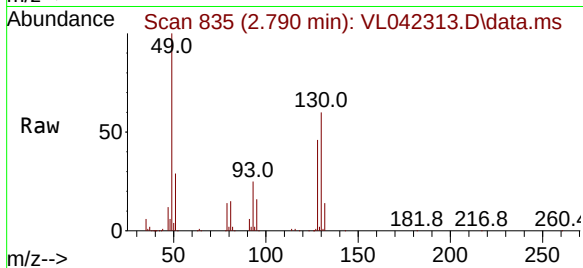




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.790 min Scan# 81
 Delta R.T. 0.006 min
 Lab File: VL042313.D
 Acq: 11 Apr 2025 10:36

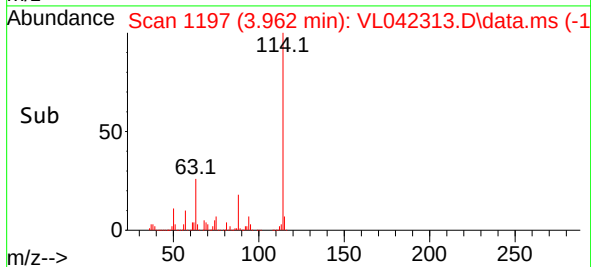
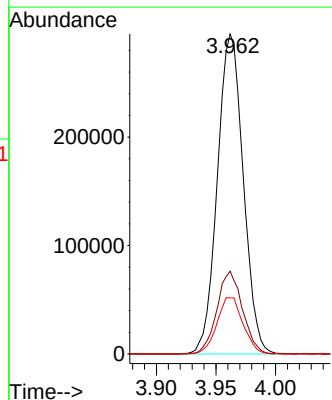
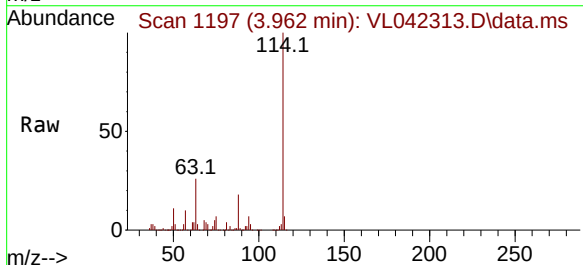
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0411ABL01

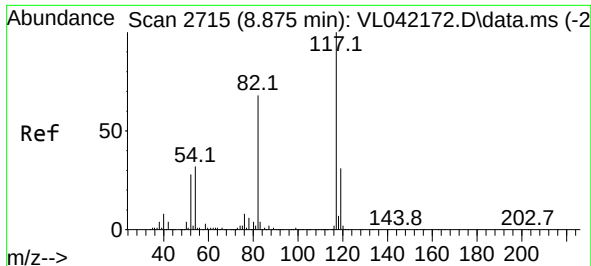
Tgt Ion: 49 Resp: 180225
 Ion Ratio Lower Upper
 49 100
 128 44.2 22.9 68.5
 130 57.8 28.8 86.4



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.962 min Scan# 1197
 Delta R.T. 0.009 min
 Lab File: VL042313.D
 Acq: 11 Apr 2025 10:36

Tgt Ion: 114 Resp: 445487
 Ion Ratio Lower Upper
 114 100
 63 25.6 20.7 31.1
 88 17.8 15.0 22.4

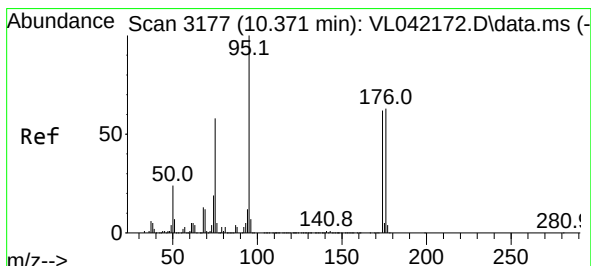
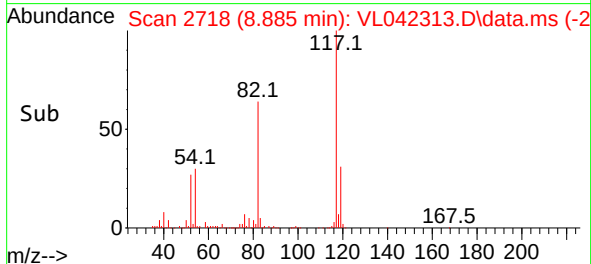
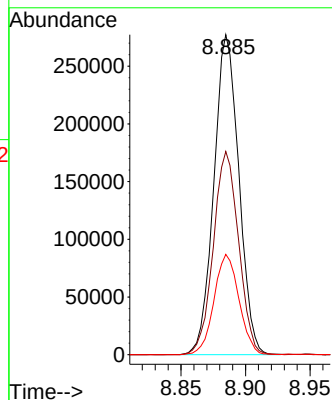
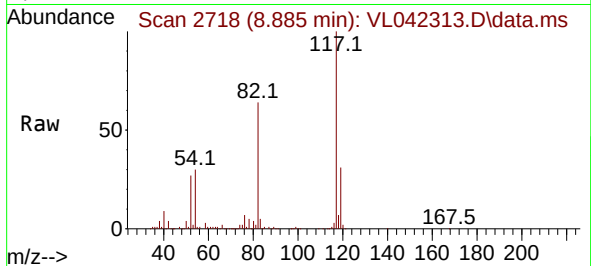




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 21
Delta R.T. 0.009 min
Lab File: VL042313.D
Acq: 11 Apr 2025 10:36

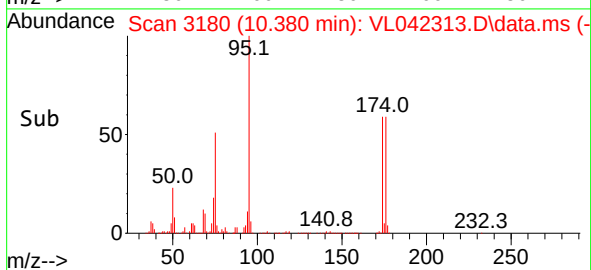
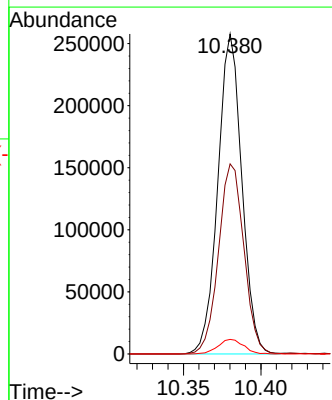
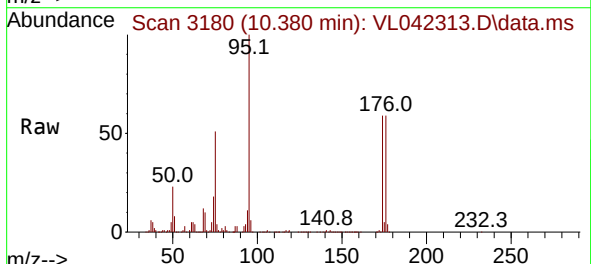
Instrument :
MSVOA_1
ClientSampleId :
VL0411ABL01

Tgt Ion:117 Resp: 373548
Ion Ratio Lower Upper
117 100
82 64.2 55.8 83.6
119 31.6 25.5 38.3



#68
1-Bromo-4-Fluorobenzene
Concen: 9.054 ppbv
RT: 10.380 min Scan# 3180
Delta R.T. 0.009 min
Lab File: VL042313.D
Acq: 11 Apr 2025 10:36

Tgt Ion: 95 Resp: 277731
Ion Ratio Lower Upper
95 100
174 63.3 50.6 76.0
175 4.9 3.8 5.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042313.D
Acq On : 11 Apr 2025 10:36
Operator : SY/MD
Sample : VL0411ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0411ABL01

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\VL032725AIR.M

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

Signal : TIC: VL042313.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	rVB	1990683	1197691	91.53%	20.924%
2	2.790	825	835	844	rBV	635966	666008	50.90%	11.636%
3	3.962	1181	1197	1213	rBV	772287	1184615	90.53%	20.696%
4	8.885	2706	2718	2730	rBV	941712	1299252	99.29%	22.699%
5	8.943	2730	2736	2744	rVB5	25149	38683	2.96%	0.676%
6	10.380	3169	3180	3193	rBV	1168757	1308486	100.00%	22.860%
7	11.778	3601	3612	3618	rVB4	22305	29140	2.23%	0.509%

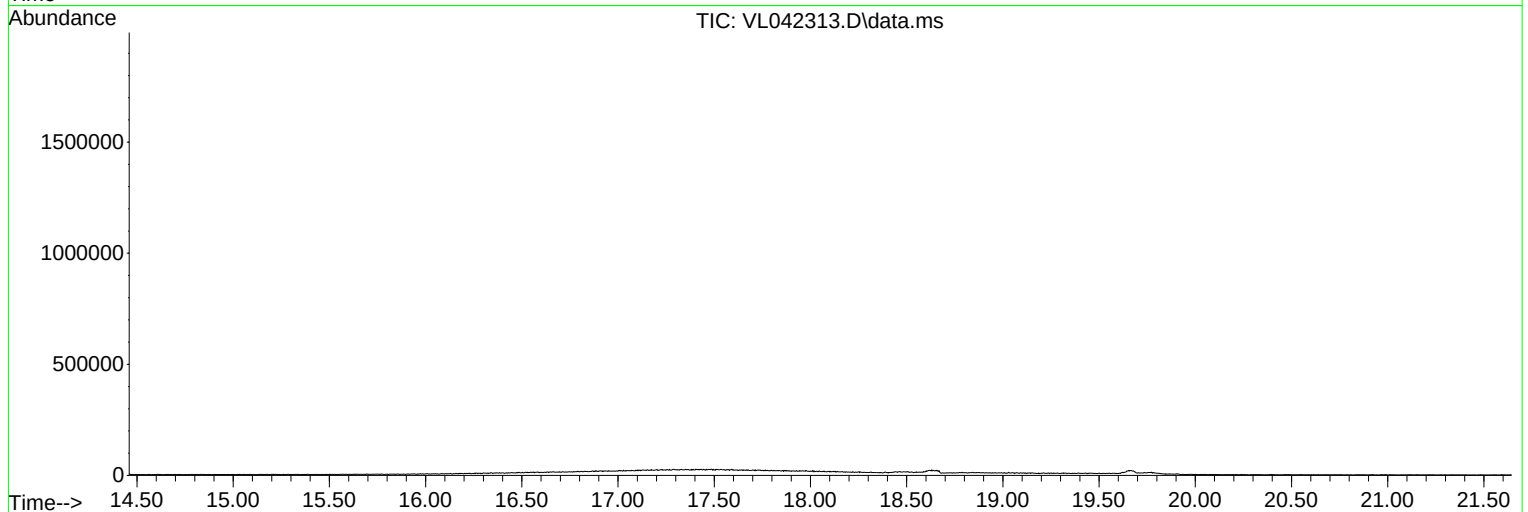
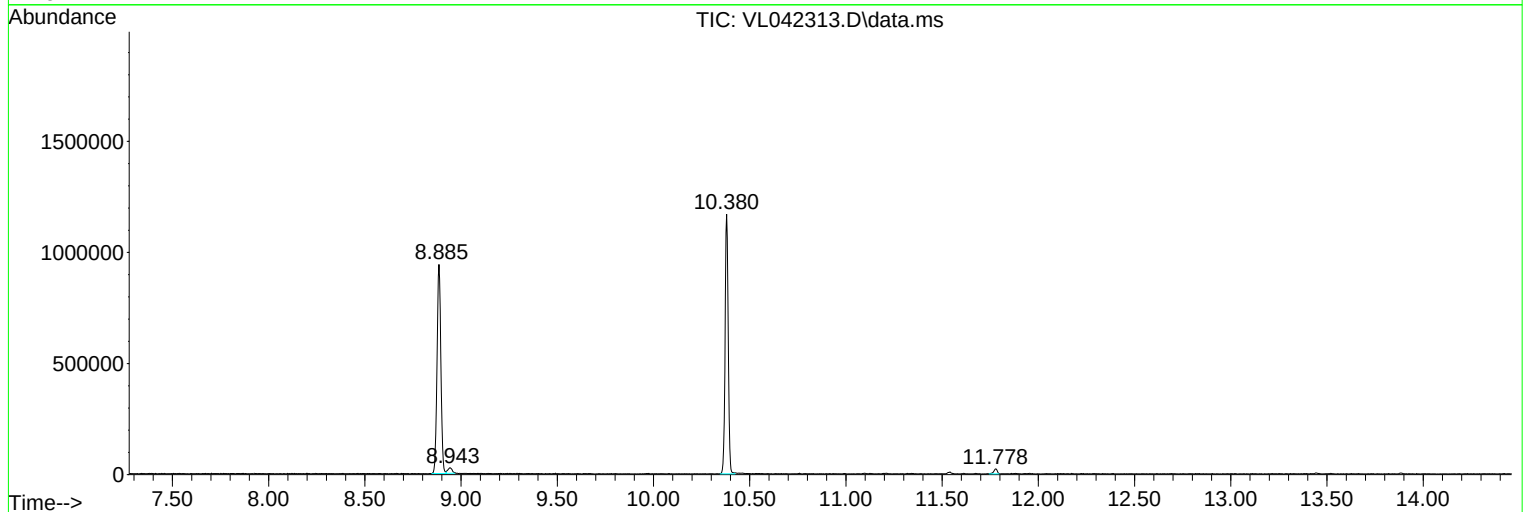
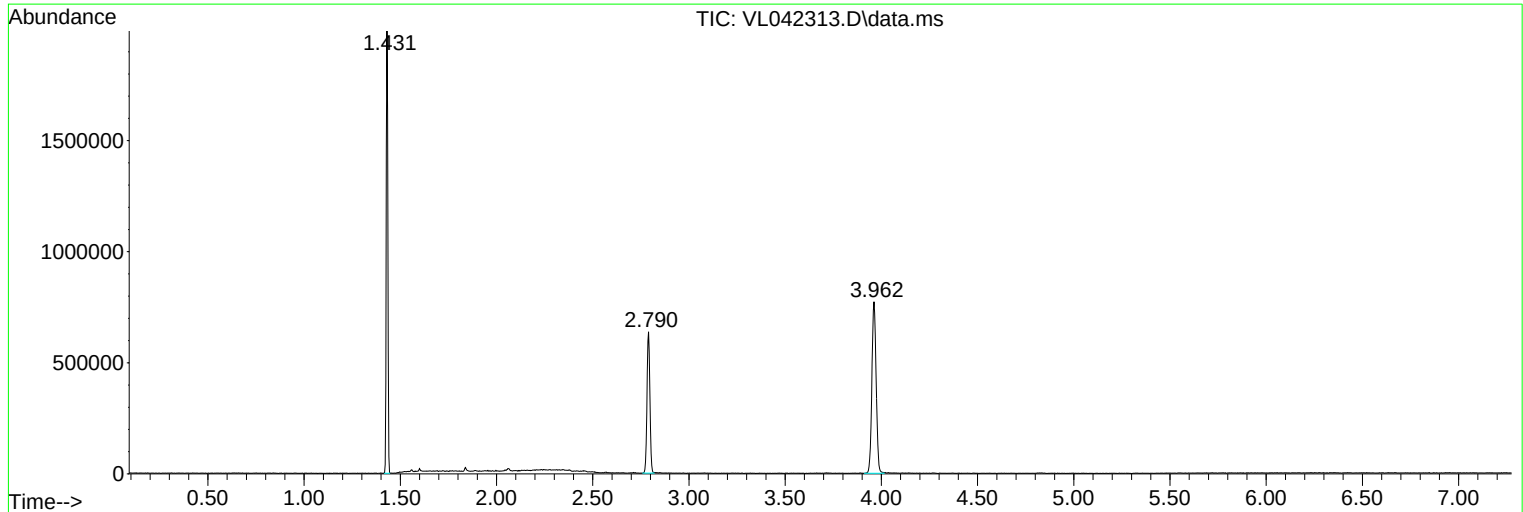
Sum of corrected areas: 5723875

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042313.D
Acq On : 11 Apr 2025 10:36
Operator : SY/MD
Sample : VL0411ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0411ABL01

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

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042313.D
Acq On : 11 Apr 2025 10:36
Operator : SY/MD
Sample : VL0411ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0411ABL01

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

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

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042313.D
Acq On : 11 Apr 2025 10:36
Operator : SY/MD
Sample : VL0411ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0411ABL01

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

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

TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
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Report of Analysis

Client:	Woodard & Curran	Date Collected:	
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	
Client Sample ID:	VL0415ABL01	SDG No.:	Q1665
Lab Sample ID:	VL0415ABL01	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
VL042327.D	1		04/15/25 12:12	VL041525

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.21	1.04	U	1.04	2.47	ug/m3
74-87-3	Chloromethane	0.10	0.21	U	0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.010	0.030	U	0.030	0.080	ug/m3
74-83-9	Bromomethane	0.14	0.54	U	0.54	1.94	ug/m3
75-00-3	Chloroethane	0.17	0.45	U	0.45	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.13	0.38	U	0.38	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.16	0.90	U	0.90	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.16	1.23	U	1.23	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.090	0.63	U	0.63	3.49	ug/m3
75-65-0	tert-Butyl alcohol	0.19	0.58	U	0.58	1.52	ug/m3
142-82-5	Heptane	0.11	0.45	U	0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
67-64-1	Acetone	0.24	0.57	U	0.57	1.19	ug/m3
75-15-0	Carbon Disulfide	0.16	0.50	U	0.50	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.12	0.43	U	0.43	1.80	ug/m3
75-09-2	Methylene Chloride	0.19	0.66	U	0.66	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.19	0.75	U	0.75	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.13	0.53	U	0.53	2.02	ug/m3
110-82-7	Cyclohexane	0.22	0.76	U	0.76	1.72	ug/m3
78-93-3	2-Butanone	0.12	0.35	U	0.35	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.010	0.060	U	0.060	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.090	0.36	U	0.36	1.98	ug/m3
67-66-3	Chloroform	0.080	0.39	U	0.39	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.010	0.050	U	0.050	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.10	0.47	U	0.47	2.34	ug/m3
71-43-2	Benzene	0.090	0.29	U	0.29	1.60	ug/m3
107-06-2	1,2-Dichloroethane	0.090	0.36	U	0.36	2.02	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.11	0.51	U	0.51	2.31	ug/m3
75-27-4	Bromodichloromethane	0.080	0.54	U	0.54	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.090	0.37	U	0.37	2.05	ug/m3
108-88-3	Toluene	0.11	0.41	U	0.41	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.070	0.38	U	0.38	2.73	ug/m3

Report of Analysis

Client:	Woodard & Curran	Date Collected:	
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	
Client Sample ID:	VL0415ABL01	SDG No.:	Q1665
Lab Sample ID:	VL0415ABL01	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
VL042327.D	1		04/15/25 12:12	VL041525

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.070	0.60	U	0.60	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.070	0.54	U	0.54	0.77	ug/m3
127-18-4	Tetrachloroethene	0.020	0.14	U	0.14	0.20	ug/m3
108-90-7	Chlorobenzene	0.080	0.37	U	0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	0.12	0.52	U	0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	0.21	0.91	U	0.91	4.34	ug/m3
95-47-6	o-Xylene	0.12	0.52	U	0.52	2.17	ug/m3
100-42-5	Styrene	0.11	0.47	U	0.47	2.13	ug/m3
75-25-2	Bromoform	0.060	0.62	U	0.62	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.010	0.070	U	0.070	0.21	ug/m3
95-49-8	2-Chlorotoluene	0.11	0.57	U	0.57	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.11	0.54	U	0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.080	0.39	U	0.39	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.050	0.30	U	0.30	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.090	0.67	U	0.67	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.090	0.96	U	0.96	5.33	ug/m3
106-99-0	1,3-Butadiene	0.13	0.29	U	0.29	1.11	ug/m3
91-20-3	Naphthalene	0.080	0.42	U	0.42	0.52	ug/m3
622-96-8	4-Ethyltoluene	0.12	0.59	U	0.59	2.46	ug/m3
110-54-3	Hexane	0.11	0.39	U	0.39	1.76	ug/m3
107-05-1	Allyl Chloride	0.15	0.47	U	0.47	1.57	ug/m3
123-91-1	1,4-Dioxane	0.21	0.76	U	0.76	1.80	ug/m3
80-62-6	Methyl Methacrylate	0.090	0.37	U	0.37	2.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.30			70 (65) - 130 (135)	93%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	174000		2.813			
540-36-3	1,4-Difluorobenzene	447000		3.994			
3114-55-4	Chlorobenzene-d5	385000		8.917			

Report of Analysis

Client:	Woodard & Curran	Date Collected:	
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	
Client Sample ID:	VL0415ABL01	SDG No.:	Q1665
Lab Sample ID:	VL0415ABL01	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
VL042327.D	1		04/15/25 12:12	VL041525

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
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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\VL041525\
Data File : VL042327.D
Acq On : 15 Apr 2025 12:12
Operator : SY/MD
Sample : VL0415ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0415ABL01

Quant Time: Apr 16 01:30:06 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	2.813	49	173729	10.000	ppbv	0.03
33) 1,4-Difluorobenzene	3.994	114	447320	10.000	ppbv	0.04
55) Chlorobenzene-d5	8.917	117	385318	10.000	ppbv	0.04

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.406	95	292759	9.252	ppbv	0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.500%

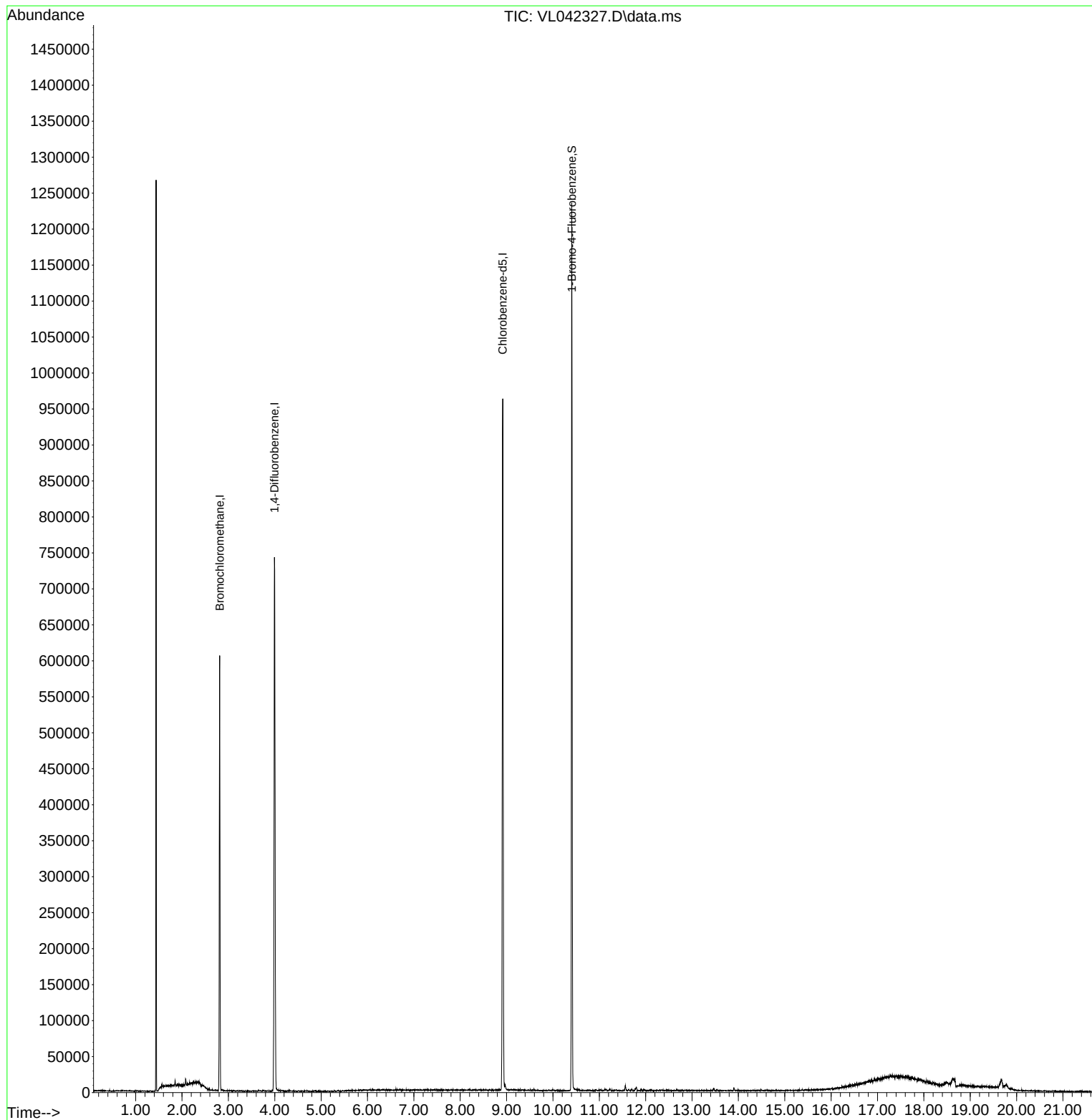
Target Compounds	Qvalue

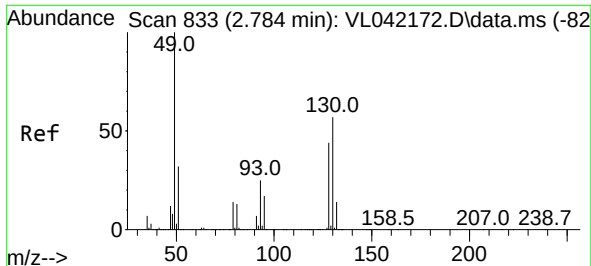
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041525\
Data File : VL042327.D
Acq On : 15 Apr 2025 12:12
Operator : SY/MD
Sample : VL0415ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0415ABL01

Quant Time: Apr 16 01:30:06 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

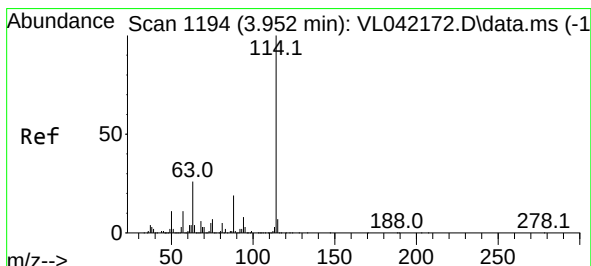
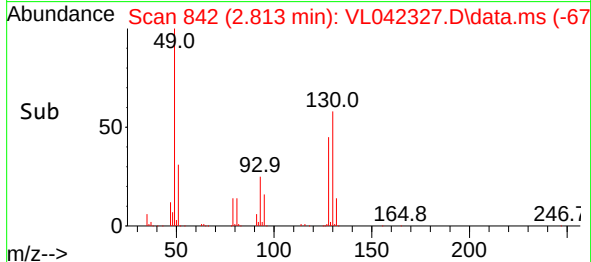
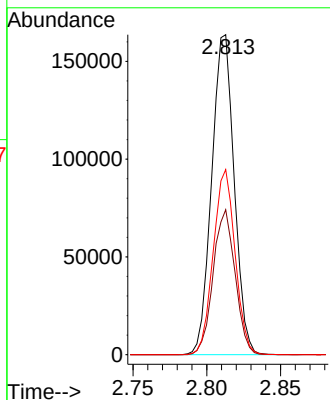
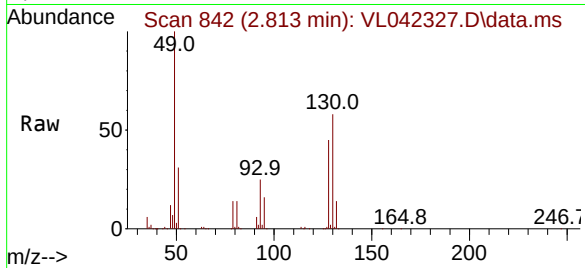




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.813 min Scan# 84
Delta R.T. 0.029 min
Lab File: VL042327.D
Acq: 15 Apr 2025 12:12

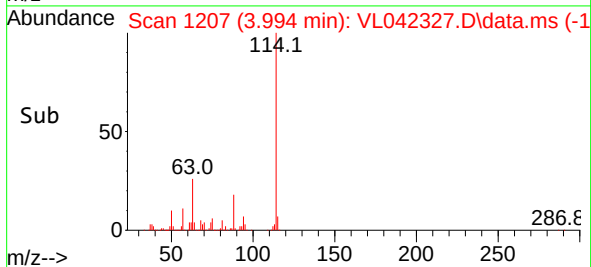
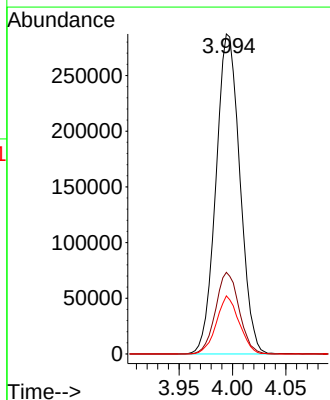
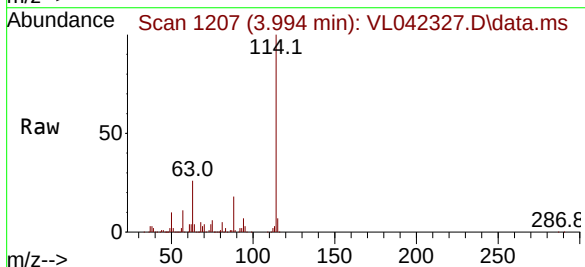
Instrument :
MSVOA_1
ClientSampleId :
VL0415ABL01

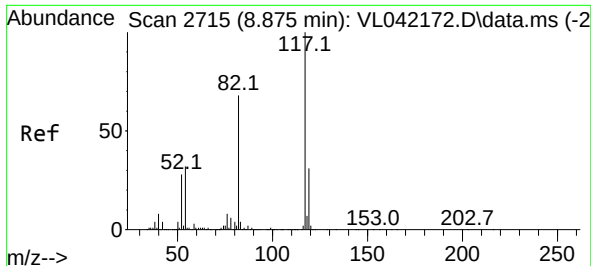
Tgt Ion: 49 Resp: 173729
Ion Ratio Lower Upper
49 100
128 44.3 22.9 68.5
130 56.2 28.8 86.4



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.994 min Scan# 1207
Delta R.T. 0.042 min
Lab File: VL042327.D
Acq: 15 Apr 2025 12:12

Tgt Ion:114 Resp: 447320
Ion Ratio Lower Upper
114 100
63 25.2 20.7 31.1
88 17.3 15.0 22.4

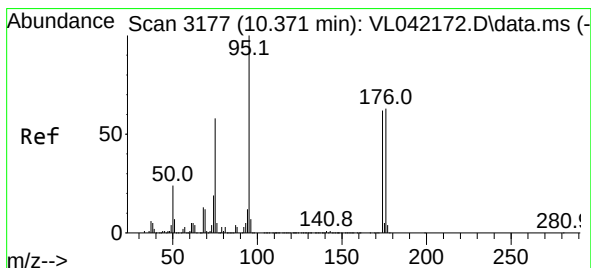
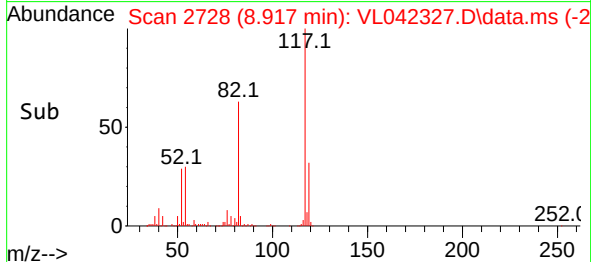
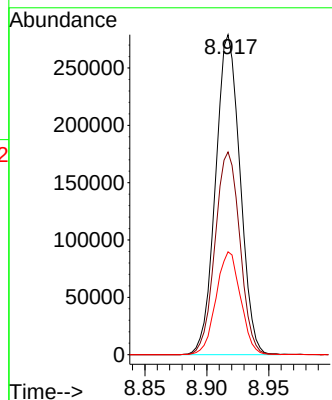
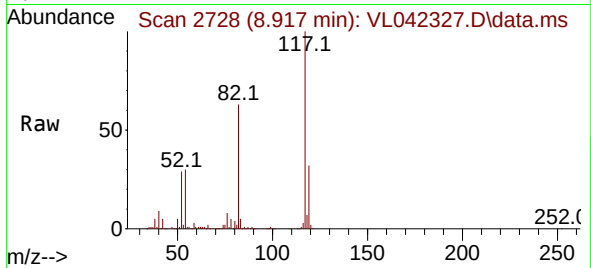




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.917 min Scan# 21
Delta R.T. 0.042 min
Lab File: VL042327.D
Acq: 15 Apr 2025 12:12

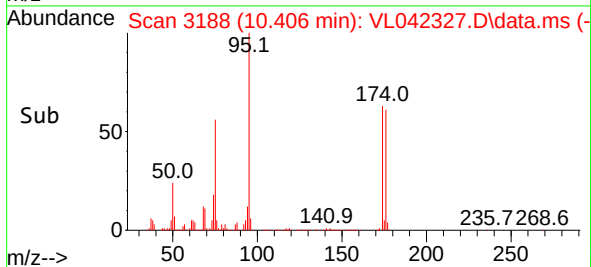
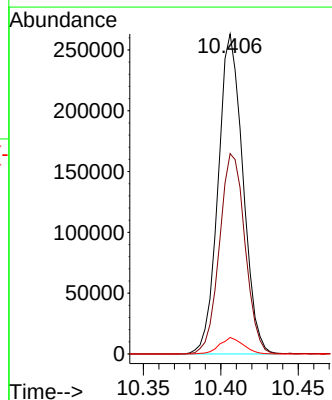
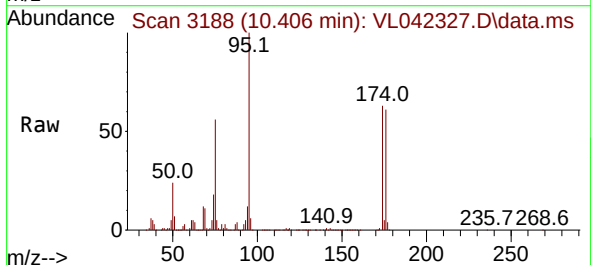
Instrument :
MSVOA_1
ClientSampleId :
VL0415ABL01

Tgt Ion: 117 Resp: 385318
Ion Ratio Lower Upper
117 100
82 64.3 55.8 83.6
119 32.2 25.5 38.3



#68
1-Bromo-4-Fluorobenzene
Concen: 9.252 ppbv
RT: 10.406 min Scan# 3188
Delta R.T. 0.035 min
Lab File: VL042327.D
Acq: 15 Apr 2025 12:12

Tgt Ion: 95 Resp: 292759
Ion Ratio Lower Upper
95 100
174 64.8 50.6 76.0
175 4.9 3.8 5.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041525\
Data File : VL042327.D
Acq On : 15 Apr 2025 12:12
Operator : SY/MD
Sample : VL0415ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0415ABL01

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\VL032725AIR.M

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

Signal : TIC: VL042327.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.440	413	418	422	rBV	1265881	704065	50.36%	13.420%
2	2.813	832	842	850	rBV	605384	638413	45.66%	12.169%
3	3.994	1195	1207	1220	rBV	741875	1165038	83.32%	22.206%
4	8.917	2714	2728	2739	rBV	960985	1340727	95.89%	25.555%
5	10.406	3177	3188	3199	rBV	1233348	1398189	100.00%	26.650%

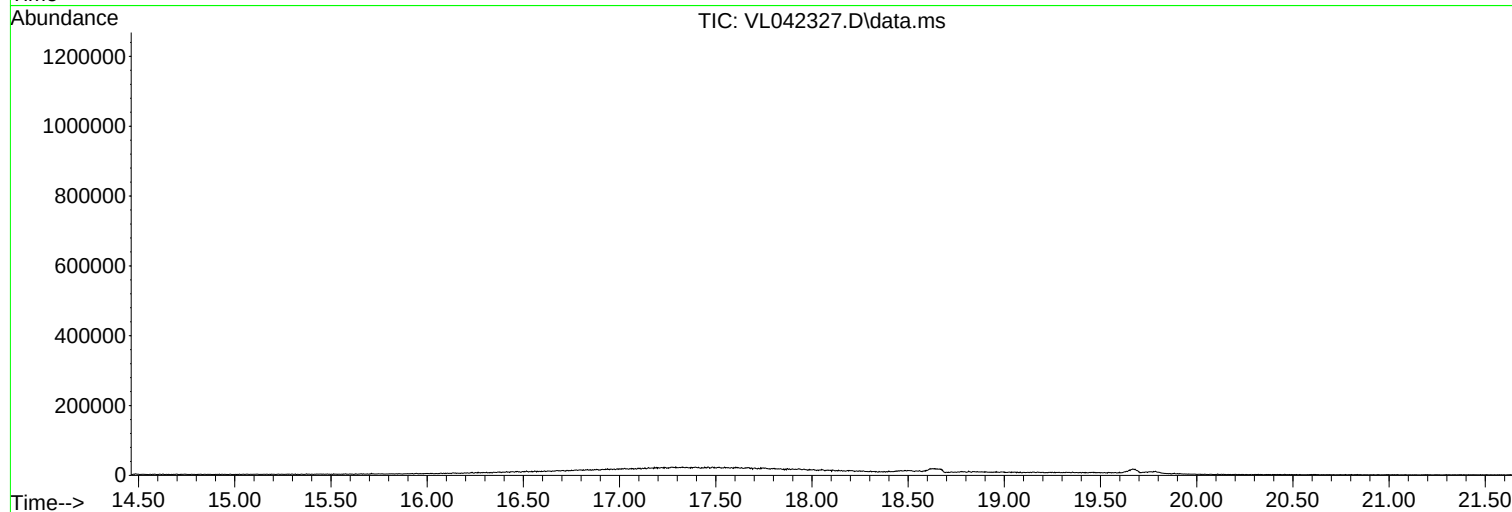
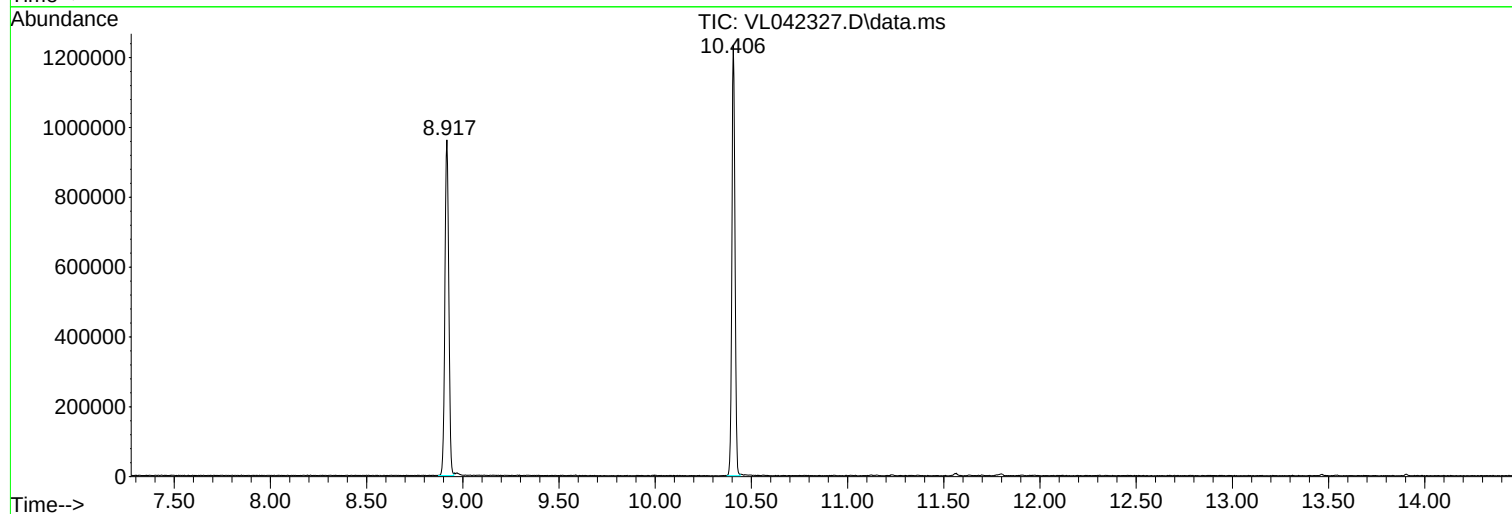
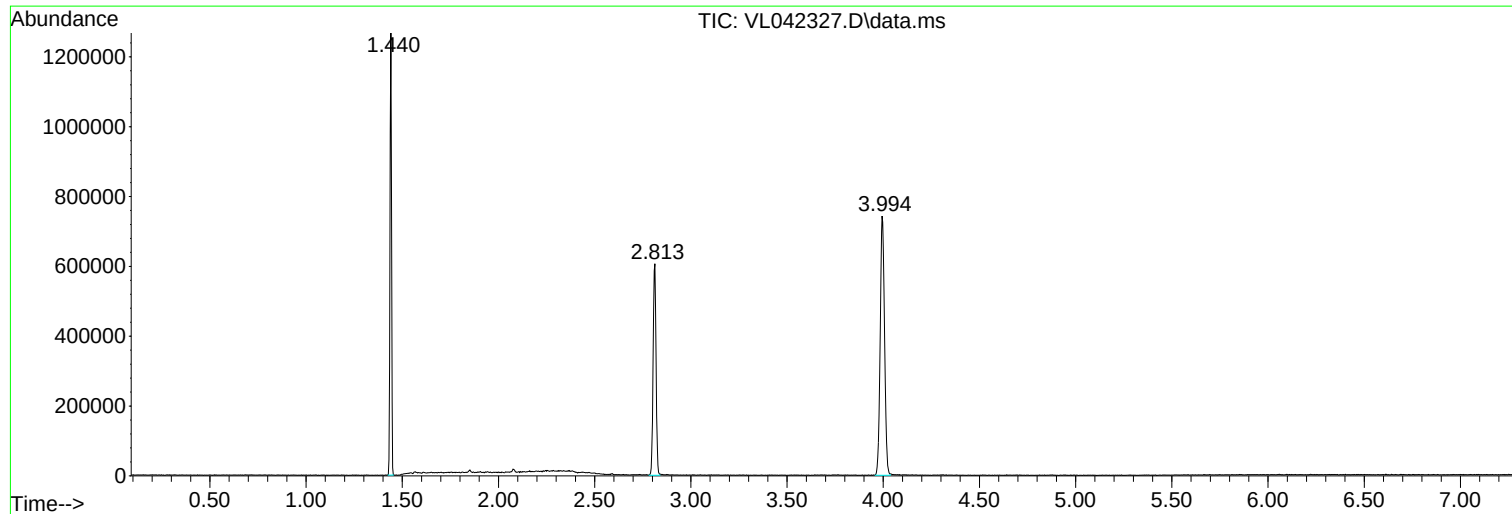
Sum of corrected areas: 5246432

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041525\
Data File : VL042327.D
Acq On : 15 Apr 2025 12:12
Operator : SY/MD
Sample : VL0415ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0415ABL01

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

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041525\
Data File : VL042327.D
Acq On : 15 Apr 2025 12:12
Operator : SY/MD
Sample : VL0415ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0415ABL01

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

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

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041525\
Data File : VL042327.D
Acq On : 15 Apr 2025 12:12
Operator : SY/MD
Sample : VL0415ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0415ABL01

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

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

TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
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Report of Analysis

Client:	Woodard & Curran	Date Collected:	
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	
Client Sample ID:	VL0417ABL01	SDG No.:	Q1665
Lab Sample ID:	VL0417ABL01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042357.D	1		04/17/25 14:23	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.21	1.04	U	1.04	2.47	ug/m3
74-87-3	Chloromethane	0.10	0.21	U	0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.010	0.030	U	0.030	0.080	ug/m3
74-83-9	Bromomethane	0.14	0.54	U	0.54	1.94	ug/m3
75-00-3	Chloroethane	0.17	0.45	U	0.45	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.13	0.38	U	0.38	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.16	0.90	U	0.90	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.16	1.23	U	1.23	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.090	0.63	U	0.63	3.49	ug/m3
75-65-0	tert-Butyl alcohol	0.19	0.58	U	0.58	1.52	ug/m3
142-82-5	Heptane	0.11	0.45	U	0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
67-64-1	Acetone	0.24	0.57	U	0.57	1.19	ug/m3
75-15-0	Carbon Disulfide	0.16	0.50	U	0.50	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.12	0.43	U	0.43	1.80	ug/m3
75-09-2	Methylene Chloride	0.19	0.66	U	0.66	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.19	0.75	U	0.75	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.13	0.53	U	0.53	2.02	ug/m3
110-82-7	Cyclohexane	0.22	0.76	U	0.76	1.72	ug/m3
78-93-3	2-Butanone	0.12	0.35	U	0.35	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.010	0.060	U	0.060	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.090	0.36	U	0.36	1.98	ug/m3
67-66-3	Chloroform	0.080	0.39	U	0.39	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.010	0.050	U	0.050	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.10	0.47	U	0.47	2.34	ug/m3
71-43-2	Benzene	0.090	0.29	U	0.29	1.60	ug/m3
107-06-2	1,2-Dichloroethane	0.090	0.36	U	0.36	2.02	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.11	0.51	U	0.51	2.31	ug/m3
75-27-4	Bromodichloromethane	0.080	0.54	U	0.54	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.090	0.37	U	0.37	2.05	ug/m3
108-88-3	Toluene	0.11	0.41	U	0.41	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.070	0.38	U	0.38	2.73	ug/m3

Report of Analysis

Client:	Woodard & Curran	Date Collected:	
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	
Client Sample ID:	VL0417ABL01	SDG No.:	Q1665
Lab Sample ID:	VL0417ABL01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042357.D	1		04/17/25 14:23	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.070	0.60	U	0.60	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.070	0.54	U	0.54	0.77	ug/m3
127-18-4	Tetrachloroethene	0.020	0.14	U	0.14	0.20	ug/m3
108-90-7	Chlorobenzene	0.080	0.37	U	0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	0.12	0.52	U	0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	0.21	0.91	U	0.91	4.34	ug/m3
95-47-6	o-Xylene	0.12	0.52	U	0.52	2.17	ug/m3
100-42-5	Styrene	0.11	0.47	U	0.47	2.13	ug/m3
75-25-2	Bromoform	0.060	0.62	U	0.62	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.010	0.070	U	0.070	0.21	ug/m3
95-49-8	2-Chlorotoluene	0.11	0.57	U	0.57	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.11	0.54	U	0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.080	0.39	U	0.39	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.050	0.30	U	0.30	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.090	0.67	U	0.67	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.090	0.96	U	0.96	5.33	ug/m3
106-99-0	1,3-Butadiene	0.13	0.29	U	0.29	1.11	ug/m3
91-20-3	Naphthalene	0.080	0.42	U	0.42	0.52	ug/m3
622-96-8	4-Ethyltoluene	0.12	0.59	U	0.59	2.46	ug/m3
110-54-3	Hexane	0.11	0.39	U	0.39	1.76	ug/m3
107-05-1	Allyl Chloride	0.15	0.47	U	0.47	1.57	ug/m3
123-91-1	1,4-Dioxane	0.21	0.76	U	0.76	1.80	ug/m3
80-62-6	Methyl Methacrylate	0.090	0.37	U	0.37	2.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.1			70 (65) - 130 (135)	101%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	114000		2.79			
540-36-3	1,4-Difluorobenzene	329000		3.965			
3114-55-4	Chlorobenzene-d5	298000		8.885			

Report of Analysis

Client:	Woodard & Curran	Date Collected:	
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	
Client Sample ID:	VL0417ABL01	SDG No.:	Q1665
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
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U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range
 D = Dilution

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042357.D
Acq On : 17 Apr 2025 14:23
Operator : SY/MD
Sample : VL0417ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABL01

Quant Time: Apr 18 02:36:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.790	49	113566	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	328716	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	297633	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.380	95	247968	10.139	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.400%

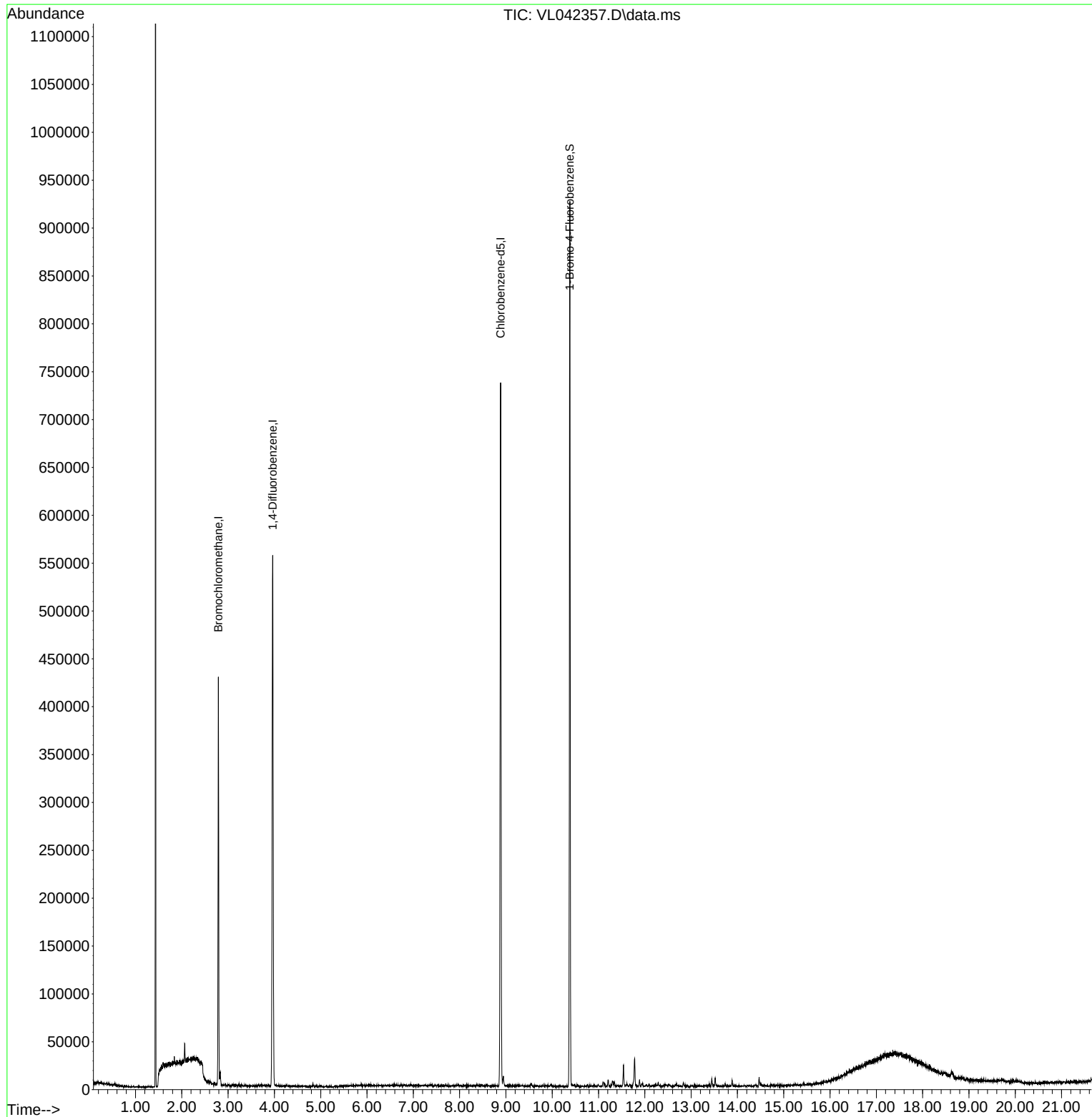
Target Compounds	Qvalue
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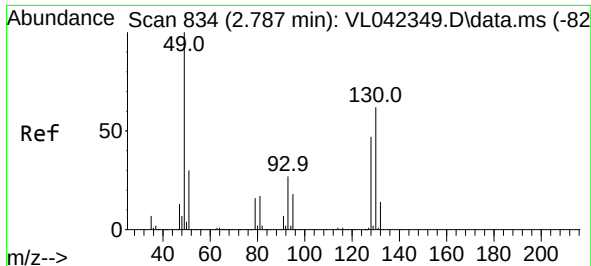
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

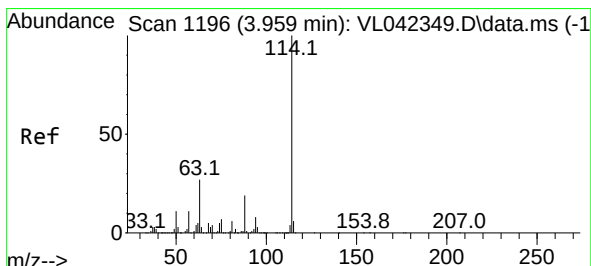
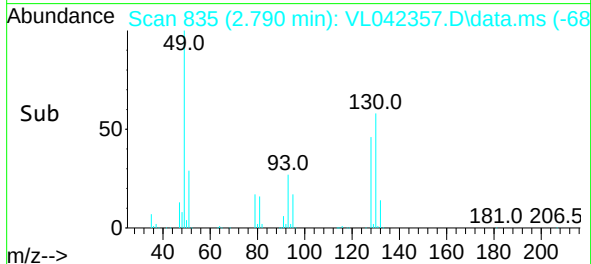
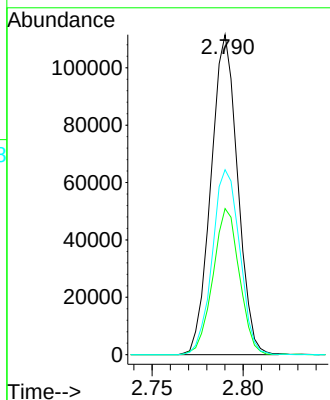
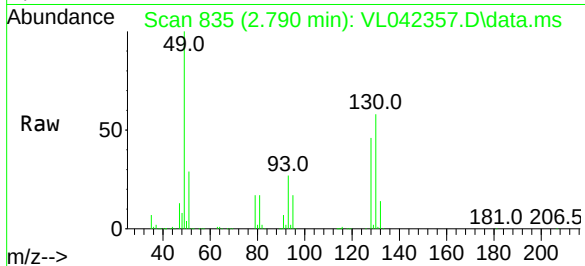




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042357.D
Acq: 17 Apr 2025 14:23

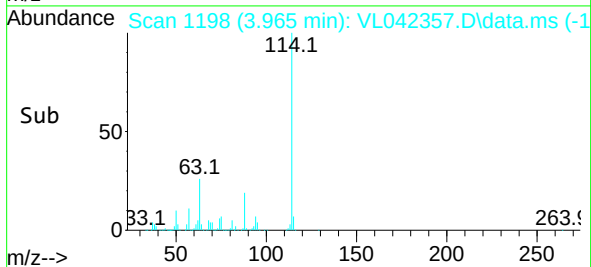
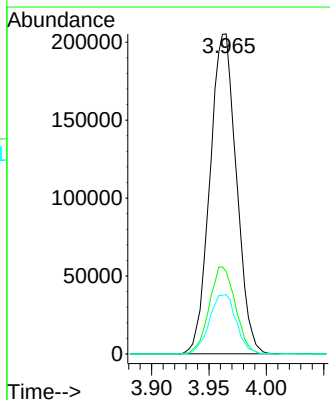
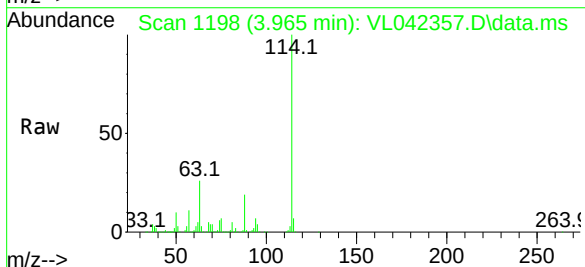
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABL01

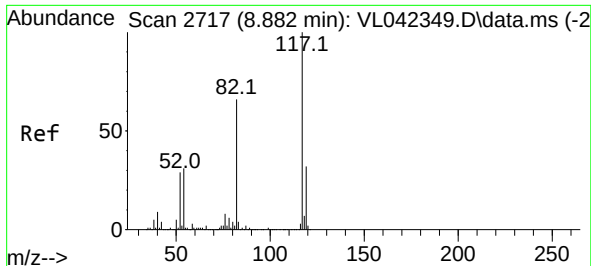
Tgt Ion: 49 Resp: 113566
Ion Ratio Lower Upper
49 100
128 45.4 22.8 68.4
130 59.4 29.3 88.0



#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

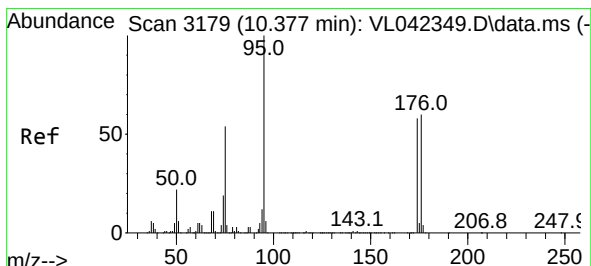
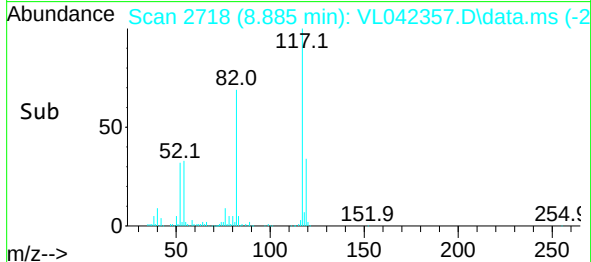
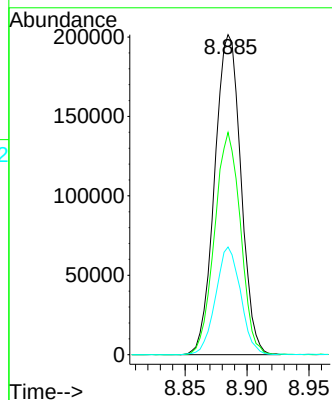
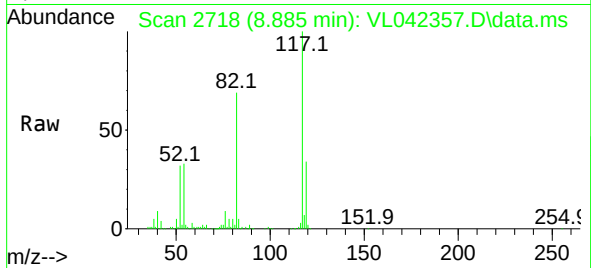




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042357.D
Acq: 17 Apr 2025 14:23

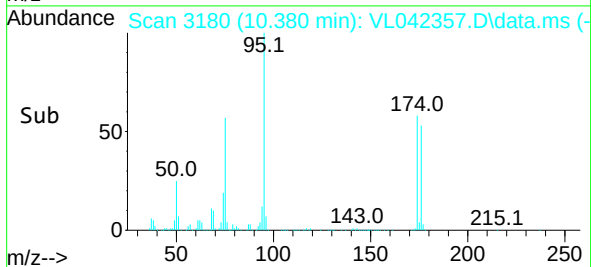
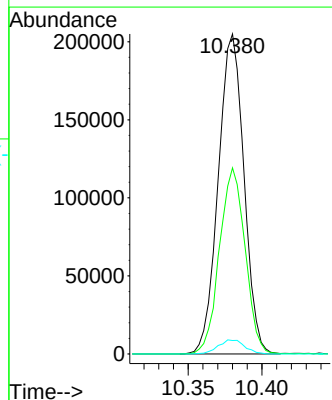
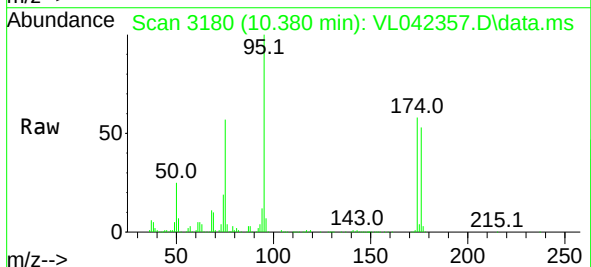
Instrument :
MSVOA_1
ClientSampleId :
VL0417ABL01

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%

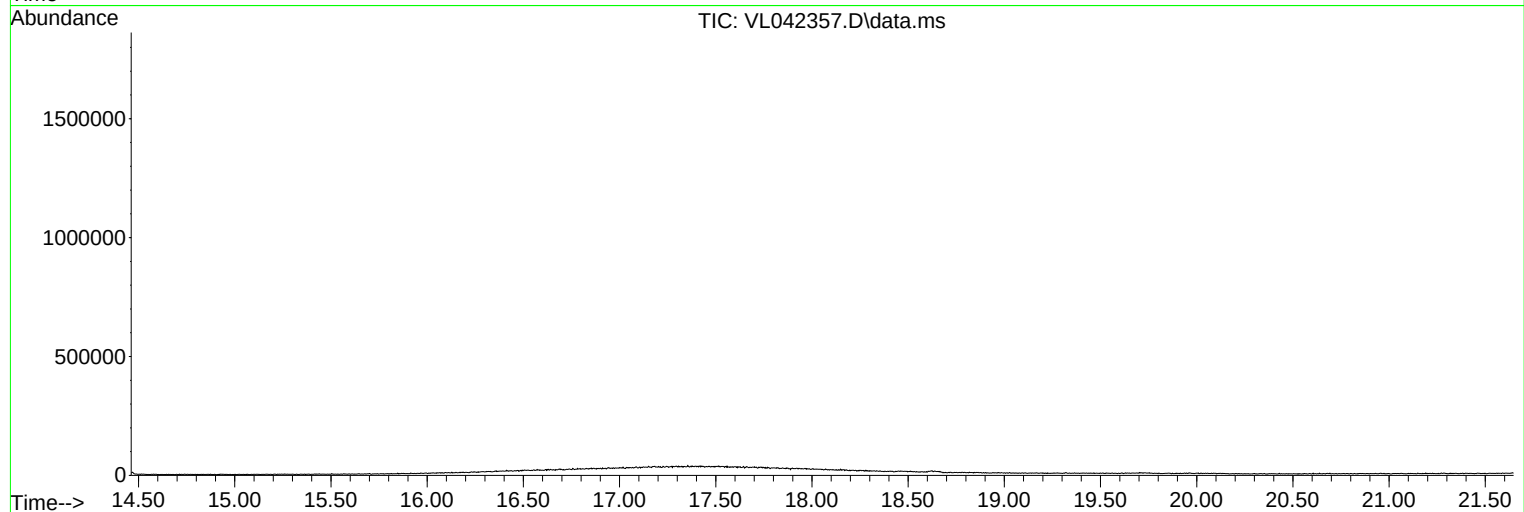
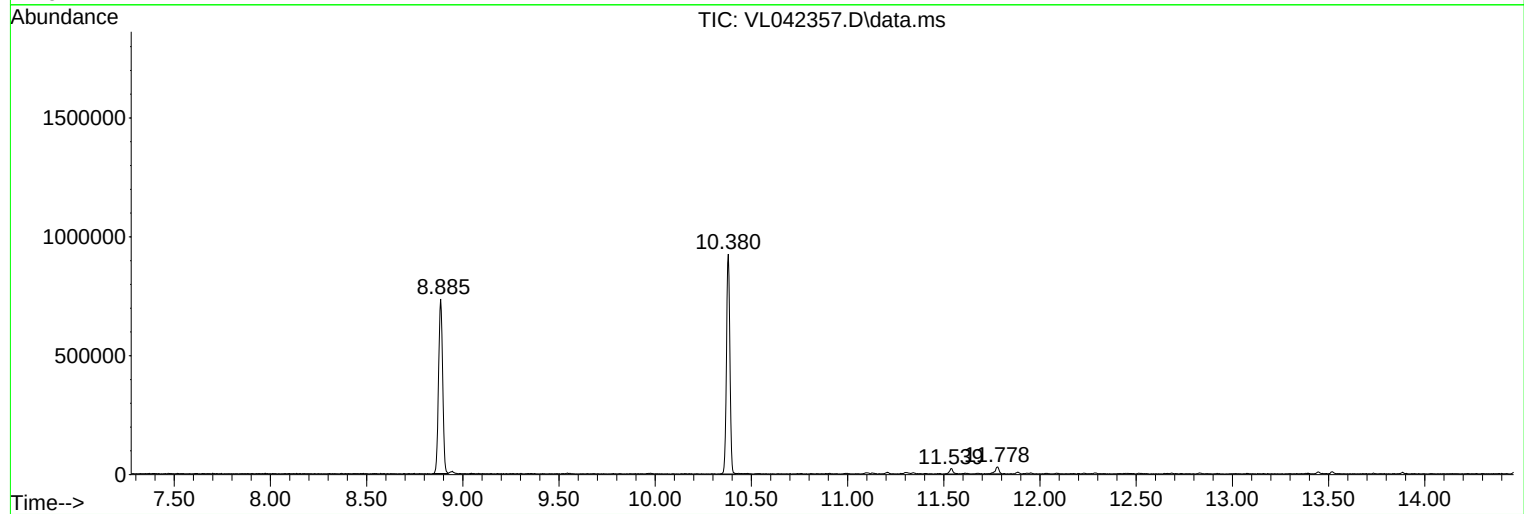
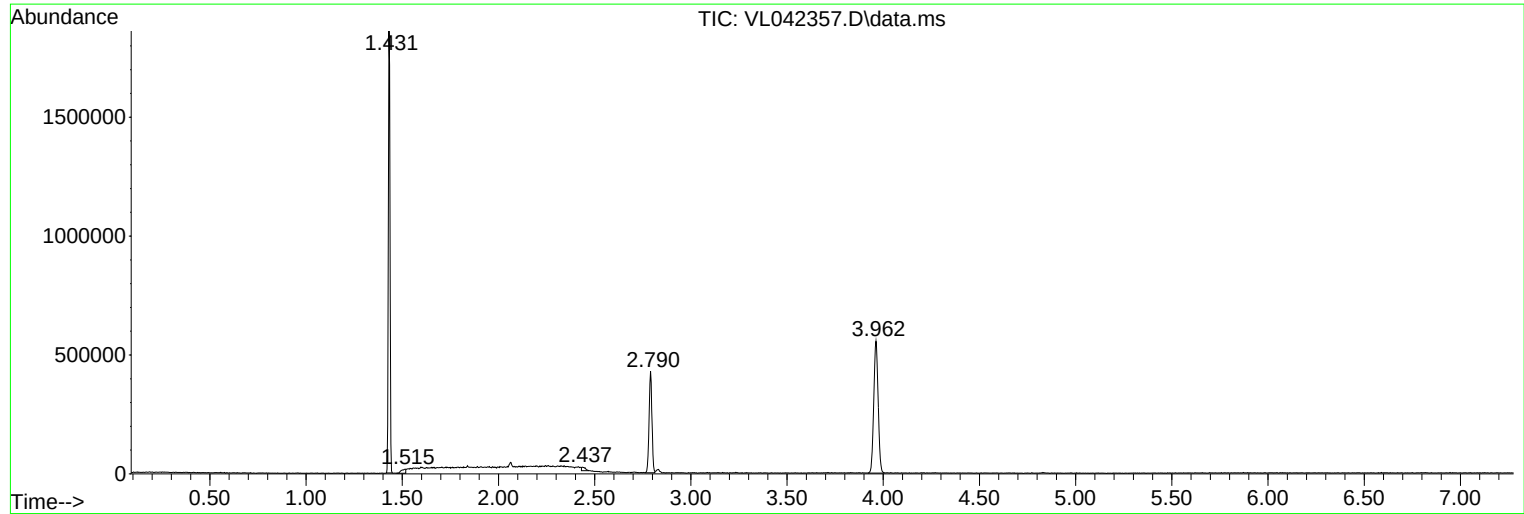
Sum of corrected areas: 4767867

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 TO-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 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	#	RT	Resp	Conc
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Report of Analysis

Client:	Woodard & Curran	Date Collected:	
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	
Client Sample ID:	VL0409ABS02	SDG No.:	Q1665
Lab Sample ID:	VL0409ABS02	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
VL042289.D	1		04/09/25 12:31	VL040925

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	9.60	47.5		1.04	2.47	ug/m3
74-87-3	Chloromethane	9.80	20.2		0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	8.70	22.2		0.030	0.080	ug/m3
74-83-9	Bromomethane	9.00	35.0		0.54	1.94	ug/m3
75-00-3	Chloroethane	9.20	24.3		0.45	1.32	ug/m3
109-99-9	Tetrahydrofuran	10.7	31.6		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	9.50	72.8		1.23	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	9.70	67.8		0.63	3.49	ug/m3
75-65-0	tert-Butyl alcohol	8.30	25.2		0.58	1.52	ug/m3
142-82-5	Heptane	9.70	39.8		0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	8.90	35.3		0.56	1.98	ug/m3
67-64-1	Acetone	8.90	21.1		0.57	1.19	ug/m3
75-15-0	Carbon Disulfide	9.30	29.0		0.50	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	8.50	30.6		0.43	1.80	ug/m3
75-09-2	Methylene Chloride	8.40	29.2		0.66	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	8.80	34.9		0.75	1.98	ug/m3
75-34-3	1,1-Dichloroethane	9.70	39.3		0.53	2.02	ug/m3
110-82-7	Cyclohexane	9.40	32.4		0.76	1.72	ug/m3
78-93-3	2-Butanone	10.9	32.1		0.35	1.47	ug/m3
56-23-5	Carbon Tetrachloride	10.4	65.4		0.060	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	9.70	38.5		0.36	1.98	ug/m3
67-66-3	Chloroform	10.4	50.8		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	10.7	50.0		0.47	2.34	ug/m3
71-43-2	Benzene	10.6	33.9		0.29	1.60	ug/m3
107-06-2	1,2-Dichloroethane	11.0	44.5		0.36	2.02	ug/m3
79-01-6	Trichloroethene	10.1	54.3		0.11	0.16	ug/m3
78-87-5	1,2-Dichloropropane	10.6	49.0		0.51	2.31	ug/m3
75-27-4	Bromodichloromethane	10.9	73.0		0.54	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	9.60	39.3		0.37	2.05	ug/m3
108-88-3	Toluene	9.90	37.3		0.41	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	8.50	38.6		0.27	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	9.20	41.8		0.27	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	10.8	58.9		0.38	2.73	ug/m3

Report of Analysis

Client:	Woodard & Curran	Date Collected:	
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	
Client Sample ID:	VL0409ABS02	SDG No.:	Q1665
Lab Sample ID:	VL0409ABS02	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
VL042289.D	1		04/09/25 12:31	VL040925

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	10.5	89.5		0.60	4.26	ug/m3
106-93-4	1,2-Dibromoethane	10.6	81.5		0.54	0.77	ug/m3
127-18-4	Tetrachloroethene	8.90	60.4		0.14	0.20	ug/m3
108-90-7	Chlorobenzene	11.4	52.5		0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	10.6	46.0		0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	22.2	96.4		0.91	4.34	ug/m3
95-47-6	o-Xylene	11.0	47.8		0.52	2.17	ug/m3
100-42-5	Styrene	10.0	42.6		0.47	2.13	ug/m3
75-25-2	Bromoform	10.4	108		0.62	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	11.8	81.0		0.070	0.21	ug/m3
95-49-8	2-Chlorotoluene	10.9	56.4		0.57	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	10.9	53.6		0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	10.7	52.6		0.39	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	11.6	69.7		0.48	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	11.7	70.3		0.30	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	11.9	71.5		0.48	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	10.8	80.2		0.67	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	9.30	99.2		0.96	5.33	ug/m3
106-99-0	1,3-Butadiene	8.60	19.0		0.29	1.11	ug/m3
91-20-3	Naphthalene	11.3	59.2		0.42	0.52	ug/m3
622-96-8	4-Ethyltoluene	11.1	54.6		0.59	2.46	ug/m3
110-54-3	Hexane	9.90	34.9		0.39	1.76	ug/m3
107-05-1	Allyl Chloride	9.30	29.1		0.47	1.57	ug/m3
123-91-1	1,4-Dioxane	9.40	33.9		0.76	1.80	ug/m3
80-62-6	Methyl Methacrylate	9.40	38.5		0.37	2.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.50			70 (65) - 130 (135)	95%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	161000		2.784			
540-36-3	1,4-Difluorobenzene	422000		3.952			
3114-55-4	Chlorobenzene-d5	368000		8.875			

Report of Analysis

Client:	Woodard & Curran	Date Collected:	
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	
Client Sample ID:	VL0409ABS02	SDG No.:	Q1665
Lab Sample ID:	VL0409ABS02	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
VL042289.D	1		04/09/25 12:31	VL040925

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
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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\VL040925\
 Data File : VL042289.D
 Acq On : 09 Apr 2025 12:31
 Operator : SY/MD
 Sample : VL0409ABS02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0409ABS02

Quant Time: Apr 10 01:42:11 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 02:00:52 2025

Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 04/10/2025
 Supervised By : Mahesh Dadoda 04/10/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.784	49	160536	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	421845	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	368487	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	288141	9.522	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.200%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.496	85	227351	9.592	ppbv	98
3) Chlorodifluoromethane	1.473	51	246719	10.189	ppbv	98
4) Chloromethane	1.531	50	94644	9.770	ppbv	99
5) Vinyl Chloride	1.577	62	89453	8.714	ppbv	95
6) Bromomethane	1.664	94	39433	8.983	ppbv	100
7) Chloroethane	1.703	64	35803	9.208	ppbv	97
8) Dichlorotetrafluoroethane	1.551	85	196779	9.748	ppbv	94
9) Propene	1.483	41	104428	9.409	ppbv	96
10) Heptane	4.972	43	285337	9.665	ppbv	99
11) Trichlorofluoromethane	1.874	101	219275	9.507	ppbv	98
12) 1,1,2-Trichlorotrifluoro...	2.136	101	180430	9.518	ppbv	95
13) Ethanol	1.719	45	4753	4.530	ppbv	93
14) Bromoethene	1.780	108	64175	8.837	ppbv	98
15) Acetone	1.832	43	200151	8.915	ppbv	96
16) 1,3-Butadiene	1.606	39	93954	8.569	ppbv	99
17) tert-Butyl alcohol	2.039	59	231293	8.271	ppbv	98
18) 1,1-Dichloroethene	2.030	96	78979	8.912	ppbv	96
19) Isopropyl Alcohol	1.884	45	111918	8.835	ppbv	96
20) Methylene Chloride	2.059	84	70611	8.444	ppbv	95
21) Allyl Chloride	2.094	41	147389	9.308	ppbv	98
22) trans-1,2-Dichloroethene	2.337	96	89877	8.775	ppbv	94
23) Vinyl Acetate	2.460	43	85028	8.750	ppbv	97
24) 1,1-Dichloroethane	2.405	63	184801	9.733	ppbv	99
25) Ethyl Acetate	2.832	43	590692	10.137	ppbv	98
26) Hexane	2.823	57	223800	9.943	ppbv	98
27) Carbon Disulfide	2.146	76	223675	9.267	ppbv	98
28) Methyl tert-Butyl Ether	2.437	73	119034	8.494	ppbv	97
29) Chloroform	2.845	83	341042	10.353	ppbv	99
30) Cyclohexane	3.852	84	182880	9.357	ppbv	97
31) cis-1,2-Dichloroethene	2.716	61	221881	9.710	ppbv	98
32) 1,1,1-Trichloroethane	3.363	97	336493	8.923	ppbv	97
34) 2-Butanone	2.554	43	334636	10.940	ppbv	98
35) Carbon Tetrachloride	3.758	117	343376	10.420	ppbv	97
36) Benzene	3.651	78	442736	10.586	ppbv	98
37) 1,2-Dichloroethane	3.214	62	262528	10.965	ppbv	100
38) Trichloroethene	4.541	130	176435	10.111	ppbv	98
39) 1,2-Dichloropropane	4.308	63	161101	10.578	ppbv	97
40) 1,4-Dioxane	4.574	88	76321	9.441	ppbv #	97
41) Tetrahydrofuran	3.049	42	187790	10.661	ppbv	96
42) Bromodichloromethane	4.483	83	360662	10.927	ppbv	100
43) Methyl Methacrylate	4.875	69	165984	9.375	ppbv	98
44) 2,2,4-Trimethylpentane	4.632	57	757855	10.723	ppbv	98
45) t-1,3-Dichloropropene	6.406	75	161245	8.489	ppbv	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
 Data File : VL042289.D
 Acq On : 09 Apr 2025 12:31
 Operator : SY/MD
 Sample : VL0409ABS02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0409ABS02

Quant Time: Apr 10 01:42:11 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

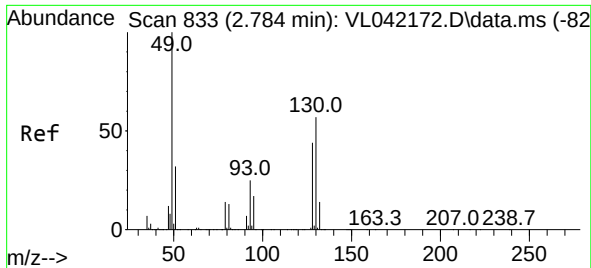
Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 04/10/2025
 Supervised By :Mahesh Dadoda 04/10/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	213566	9.172	ppbv	98
47) 1,1,2-Trichloroethane	6.574	97	173506	10.777	ppbv	99
48) Dibromochloromethane	7.380	129	286938	10.516	ppbv	100
49) Bromoform	9.477	173	254430	10.386	ppbv	99
50) 4-Methyl-2-Pentanone	5.742	43	463069	9.552	ppbv	96
51) 2-Hexanone	7.428	43	364946	9.168	ppbv #	96
52) Tetrachloroethene	8.218	164	148369	8.946	ppbv	94
53) Toluene	6.927	91	490916	9.903	ppbv	99
54) 1,2-Dibromoethane	7.648	107	238091	10.608	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.920	131	232553	11.465	ppbv	100
57) Chlorobenzene	8.914	112	397485	11.372	ppbv	93
58) Ethyl Benzene	9.351	91	695035	10.619	ppbv	98
59) m/p-Xylene	9.548	91	1162331m	22.239	ppbv	
60) o-Xylene	9.959	91	574256	10.960	ppbv	97
61) Styrene	9.866	104	258350	9.967	ppbv	99
62) Isopropylbenzene	10.536	105	864354	11.032	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.959	83	377007	11.843	ppbv	99
64) n-propylbenzene	10.985	120	228525	11.331	ppbv	99
65) tert-Butylbenzene	11.529	119	790461	10.909	ppbv	99
66) Benzyl Chloride	11.613	91	58131	7.561	ppbv	97
67) sec-Butylbenzene	11.765	105	1124096	11.161	ppbv	99
69) p-Isopropyltoluene	11.924	119	950025	10.954	ppbv	99
70) n-Butylbenzene	12.280	91	986632	11.124	ppbv	99
71) 2-Chlorotoluene	10.898	91	660346	10.859	ppbv	99
72) 4-Ethyltoluene	11.121	105	726883	11.142	ppbv	99
73) 1,3,5-Trimethylbenzene	11.202	105	618219	10.851	ppbv	99
74) 1,2,4-Trimethylbenzene	11.532	105	702287	10.699	ppbv #	84
75) 1,3-Dichlorobenzene	11.604	146	419165	11.644	ppbv	99
76) 1,4-Dichlorobenzene	11.668	146	417746	11.660	ppbv	98
77) 1,2-Dichlorobenzene	11.943	146	415780	11.862	ppbv	99
78) Hexachloro-1,3-Butadiene	13.879	225	331886	9.302	ppbv	99
79) Naphthalene	13.510	128	810441	11.288	ppbv	99
80) Naphthalene,2-methyl-	14.455	142	388095	11.023	ppbv	99
81) 1,2,4-Trichlorobenzene	13.439	180	357711	10.802	ppbv	99

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



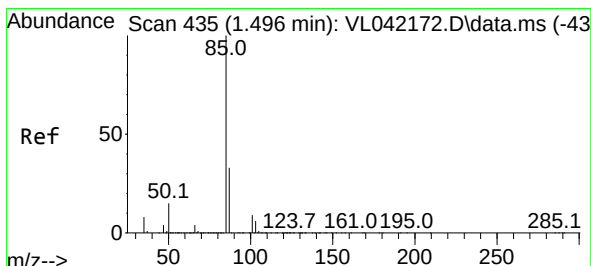
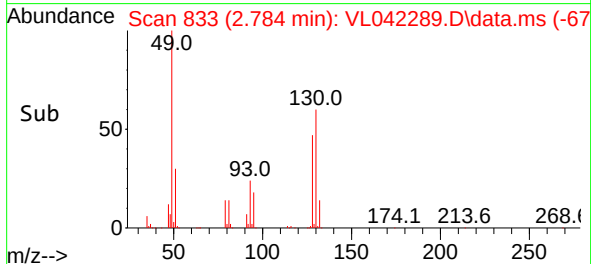
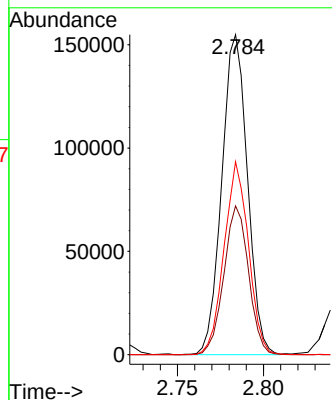
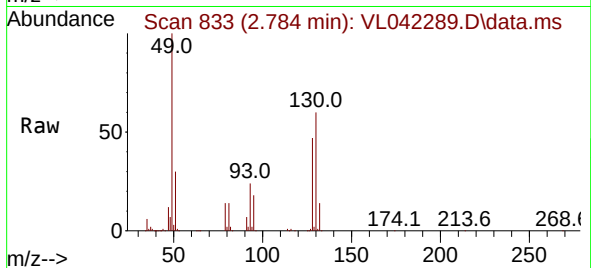
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Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 833
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Instrument :
MSVOA_L
ClientSampleId :
VL0409ABS02

Tgt Ion: 49 Resp: 160530
Ion Ratio Lower Upper
49 100
128 44.7 22.9 68.5
130 57.4 28.8 86.4

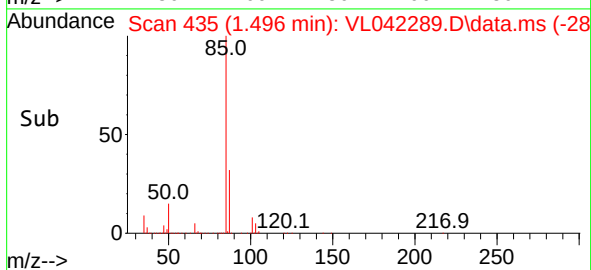
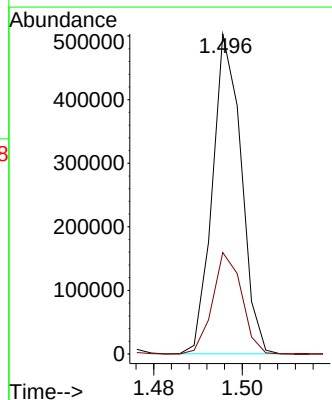
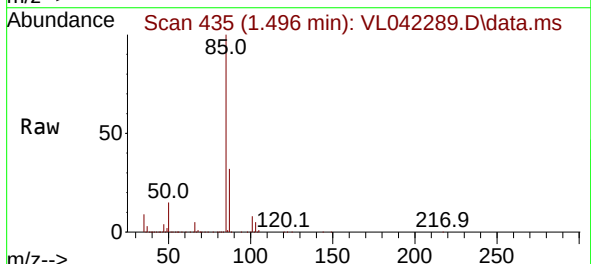
Manual Integrations
APPROVED

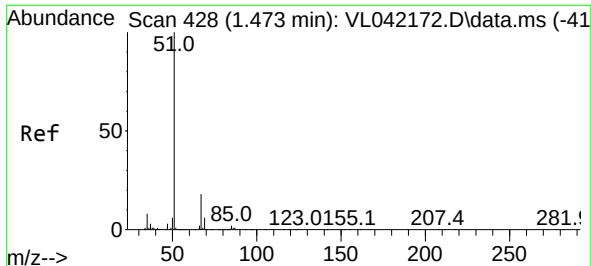
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#2
Dichlorodifluoromethane
Concen: 9.592 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

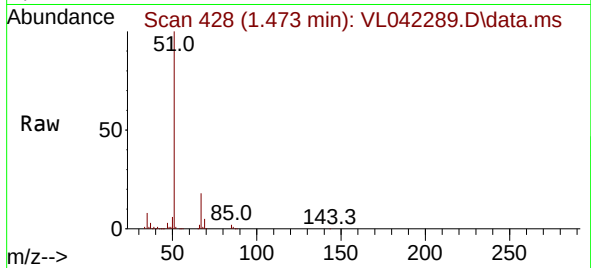
Tgt Ion: 85 Resp: 227351
Ion Ratio Lower Upper
85 100
87 31.7 26.1 39.1





#3
Chlorodifluoromethane
Concen: 10.189 ppbv
RT: 1.473 min Scan# 428
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

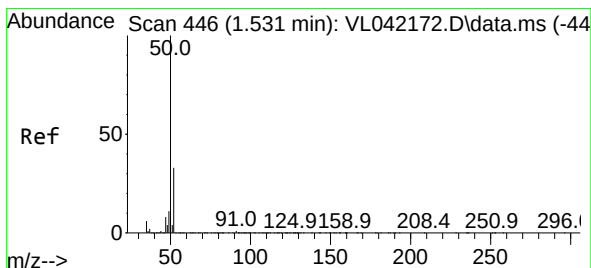
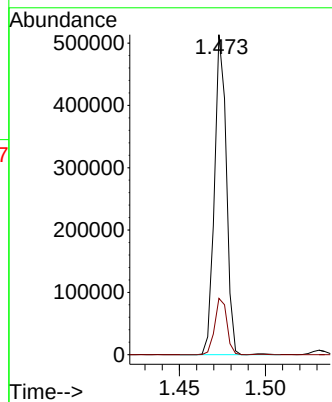
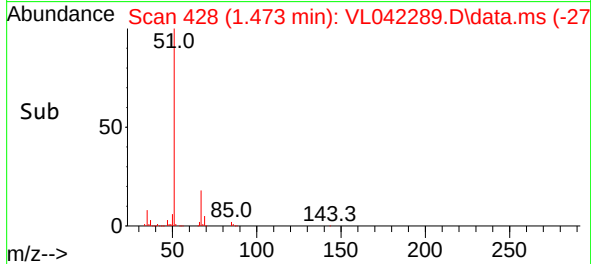
Instrument :
MSVOA_L
ClientSampleId :
VL0409ABS02



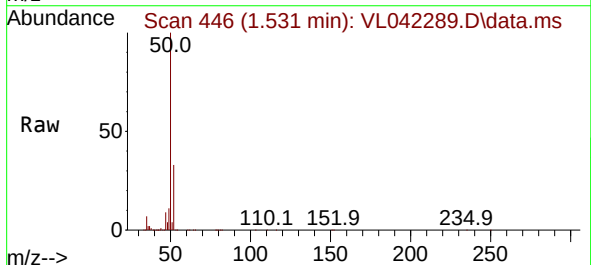
Tgt Ion: 51 Resp: 246719
Ion Ratio Lower Upper
51 100
67 18.1 15.0 22.6

Manual Integrations
APPROVED

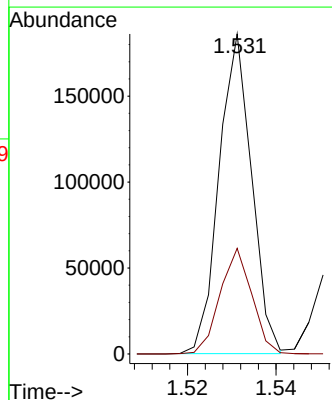
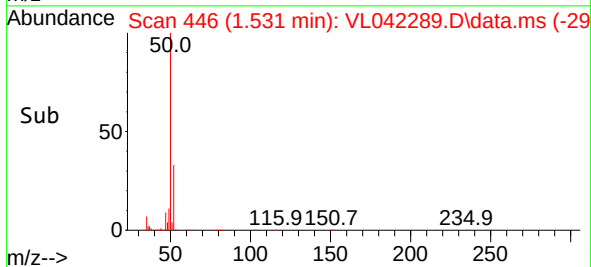
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

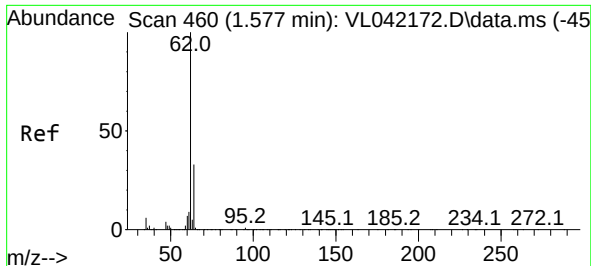


#4
Chloromethane
Concen: 9.770 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31



Tgt Ion: 50 Resp: 94644
Ion Ratio Lower Upper
50 100
52 32.9 26.1 39.1





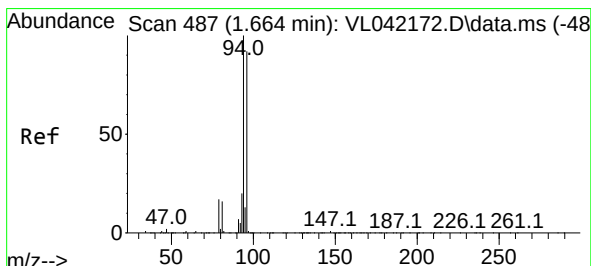
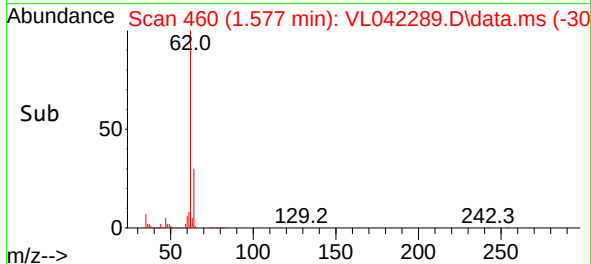
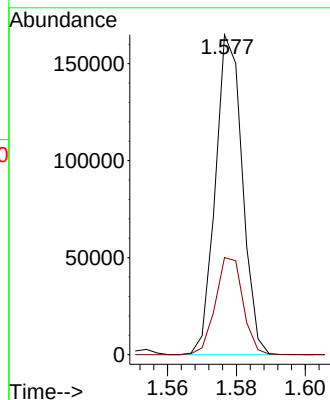
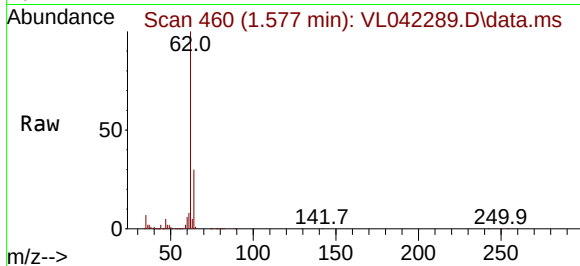
#5
 Vinyl Chloride
 Concen: 8.714 ppbv
 RT: 1.577 min Scan# 460
 Delta R.T. -0.000 min
 Lab File: VL042289.D
 Acq: 09 Apr 2025 12:31

Instrument :
 MSVOA_1
 ClientSampleId :
 VL0409ABS02

Tgt Ion: 62 Resp: 8945
 Ion Ratio Lower Upper
 62 100
 64 30.3 26.6 40.0

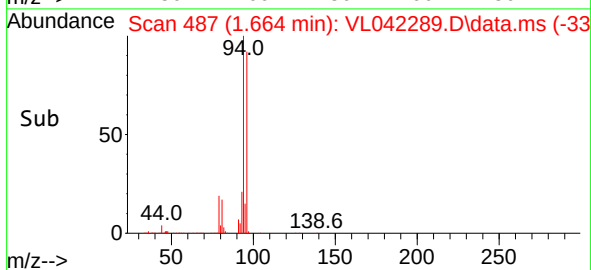
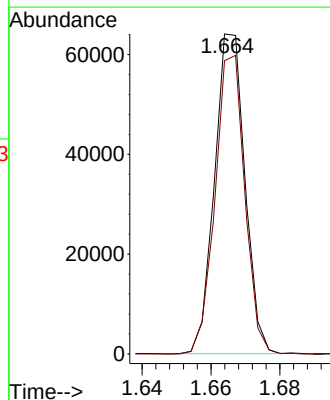
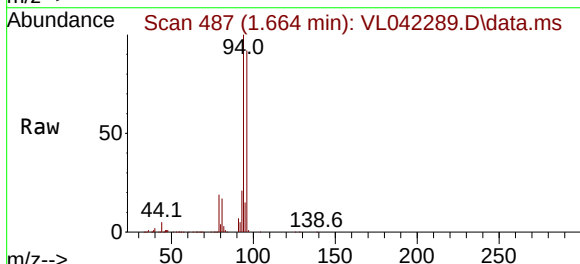
Manual Integrations
 APPROVED

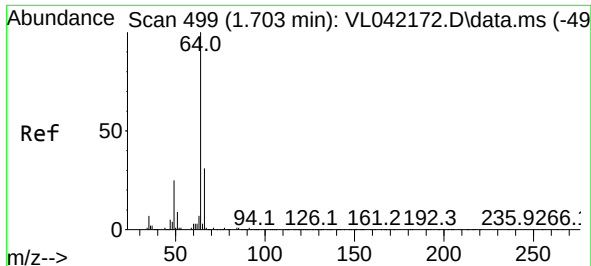
Reviewed By :Semsettin Yesilyurt 04/10/2025
 Supervised By :Mahesh Dadoda 04/10/2025



#6
 Bromomethane
 Concen: 8.983 ppbv
 RT: 1.664 min Scan# 487
 Delta R.T. -0.000 min
 Lab File: VL042289.D
 Acq: 09 Apr 2025 12:31

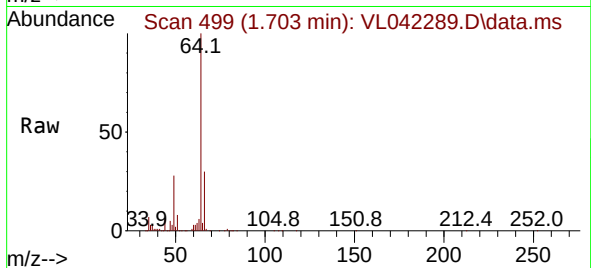
Tgt Ion: 94 Resp: 39433
 Ion Ratio Lower Upper
 94 100
 96 91.7 73.1 109.7





#7
Chloroethane
Concen: 9.208 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

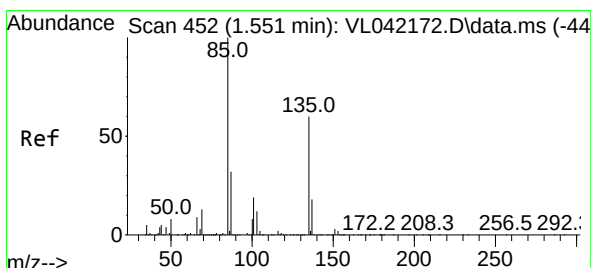
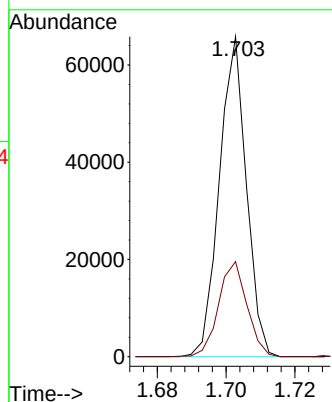
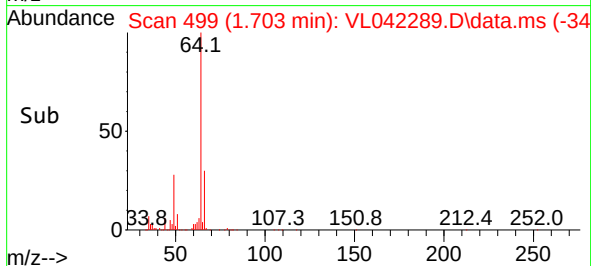
Instrument :
MSVOA_L
ClientSampleId :
VL0409ABS02



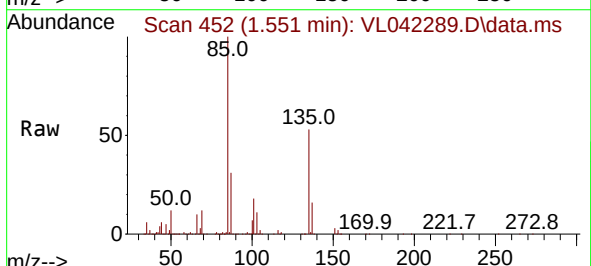
Tgt Ion: 64 Resp: 3580
Ion Ratio Lower Upper
64 100
66 29.7 25.2 37.8

Manual Integrations
APPROVED

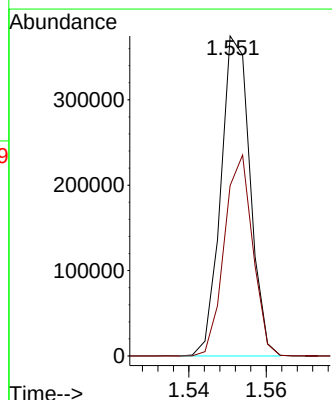
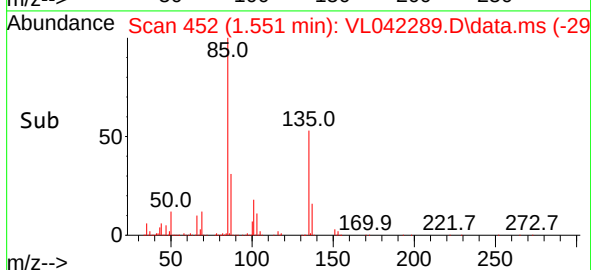
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

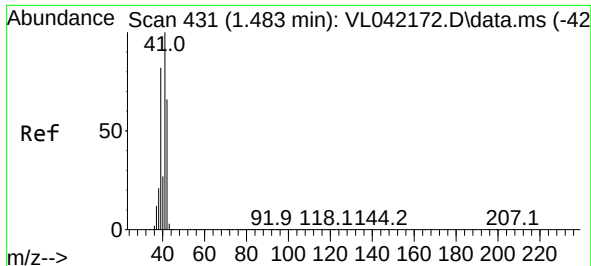


#8
Dichlorotetrafluoroethane
Concen: 9.748 ppbv
RT: 1.551 min Scan# 452
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31



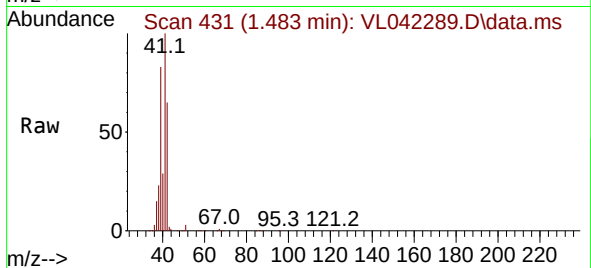
Tgt Ion: 85 Resp: 196779
Ion Ratio Lower Upper
85 100
135 61.1 52.4 78.6





#9
Propene
Concen: 9.409 ppbv
RT: 1.483 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

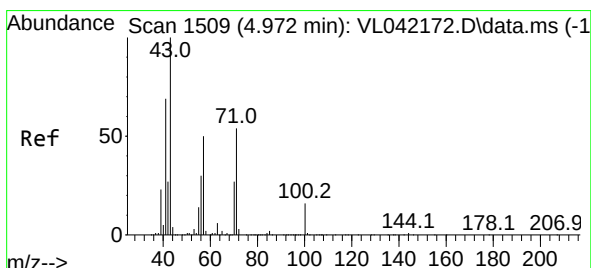
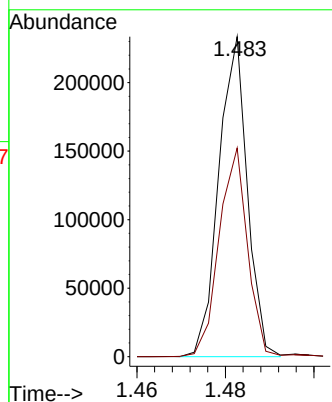
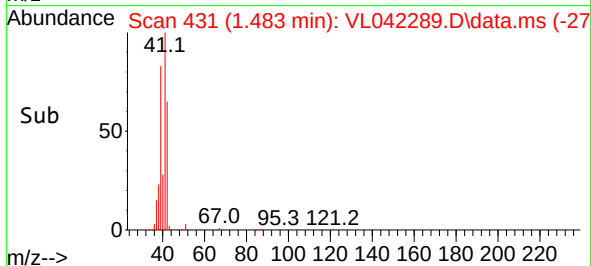
Instrument :
MSVOA_L
ClientSampleId :
VL0409ABS02



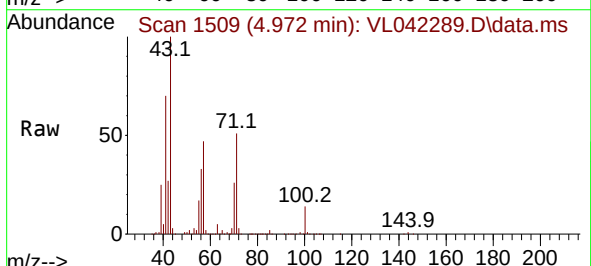
Tgt Ion: 41 Resp: 104428
Ion Ratio Lower Upper
41 100
42 65.8 55.4 83.2

Manual Integrations
APPROVED

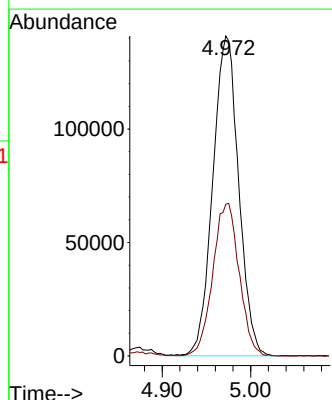
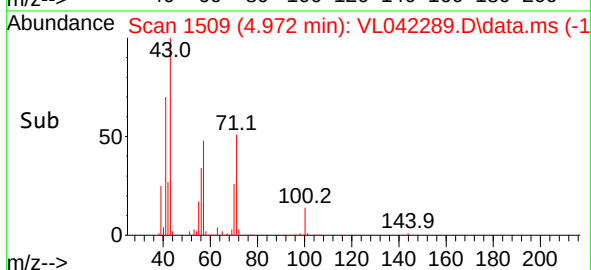
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

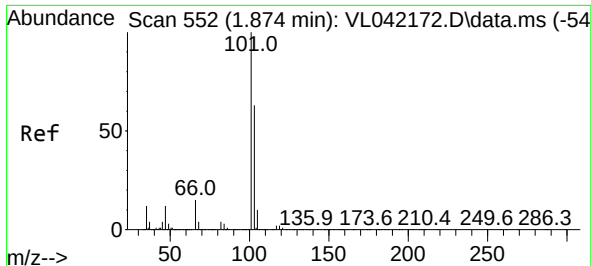


#10
Heptane
Concen: 9.665 ppbv
RT: 4.972 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31



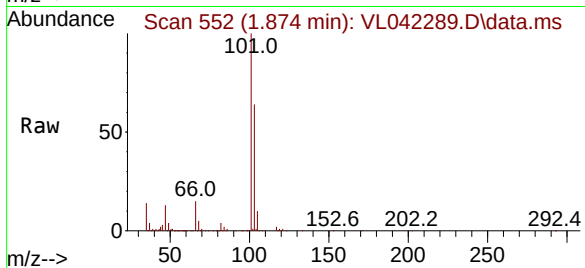
Tgt Ion: 43 Resp: 285337
Ion Ratio Lower Upper
43 100
57 48.7 39.4 59.2





#11
Trichlorofluoromethane
Concen: 9.507 ppbv
RT: 1.874 min Scan# 552
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

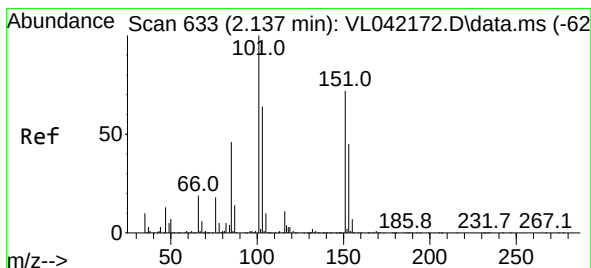
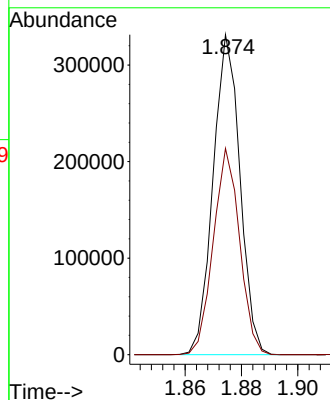
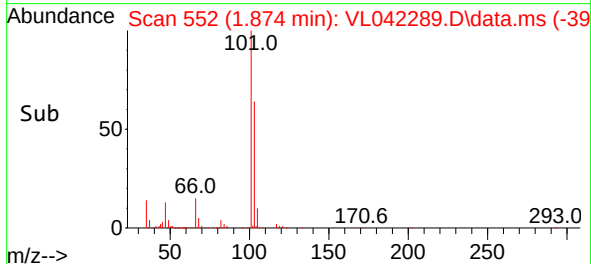
Instrument :
MSVOA_L
ClientSampleId :
VL0409ABS02



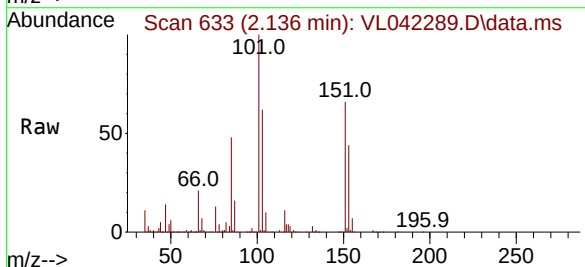
Tgt Ion:101 Resp: 219275
Ion Ratio Lower Upper
101 100
103 64.5 50.2 75.2

Manual Integrations
APPROVED

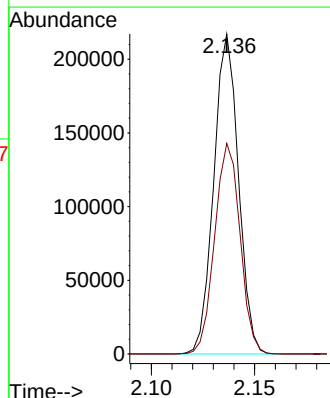
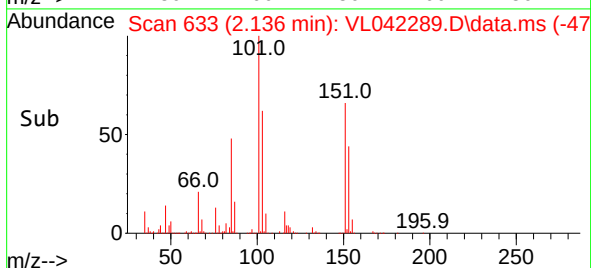
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

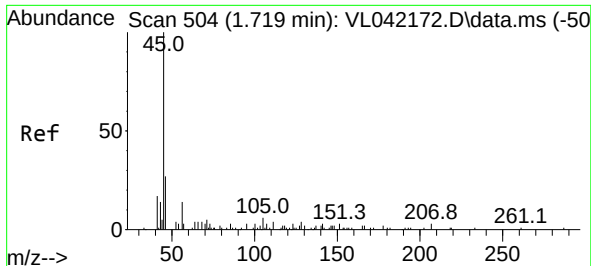


#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.518 ppbv
RT: 2.136 min Scan# 633
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31



Tgt Ion:101 Resp: 180430
Ion Ratio Lower Upper
101 100
151 67.6 57.1 85.7





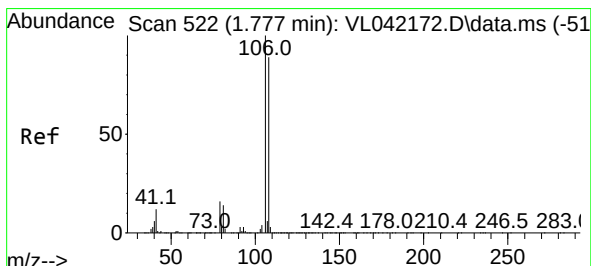
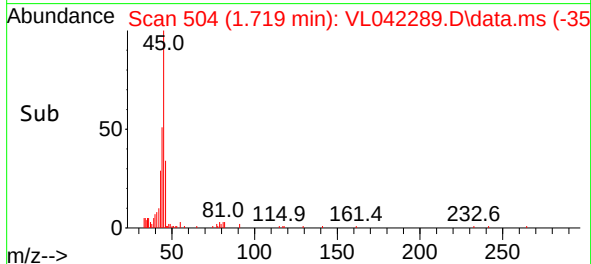
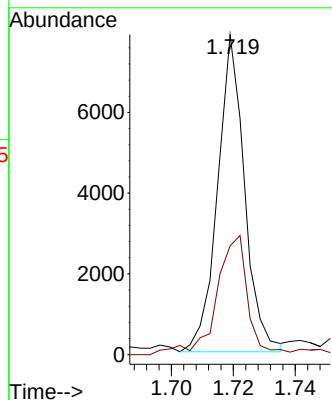
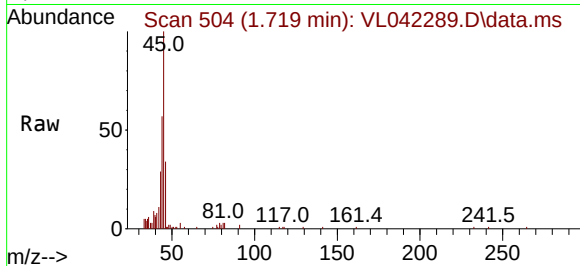
#13
Ethanol
Concen: 4.530 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Instrument :
MSVOA_L
ClientSampleId :
VL0409ABS02

Tgt Ion: 45 Resp: 475
Ion Ratio Lower Upper
45 100
46 45.9 20.2 80.8

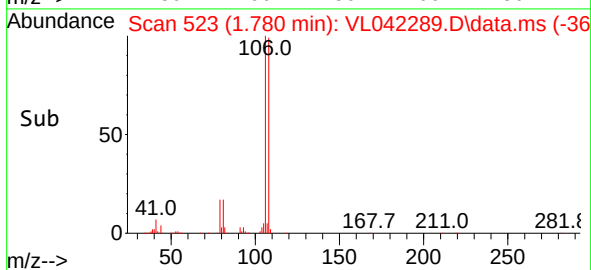
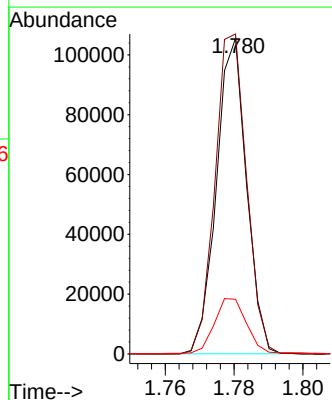
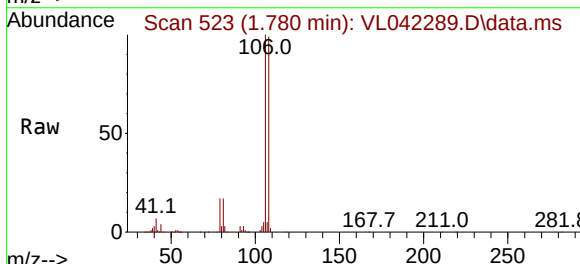
Manual Integrations
APPROVED

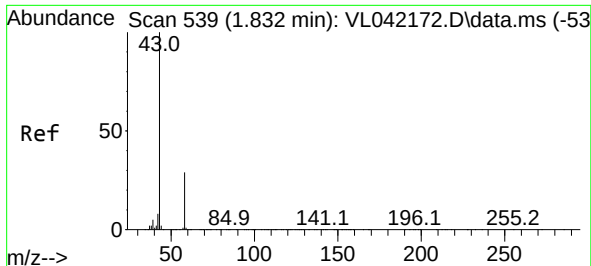
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#14
Bromoethene
Concen: 8.837 ppbv
RT: 1.780 min Scan# 523
Delta R.T. 0.003 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

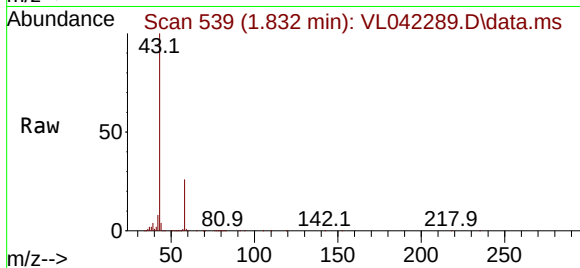
Tgt Ion:108 Resp: 64175
Ion Ratio Lower Upper
108 100
106 106.5 86.8 130.2
79 20.4 15.0 22.6





#15
Acetone
Concen: 8.915 ppbv
RT: 1.832 min Scan# 51
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

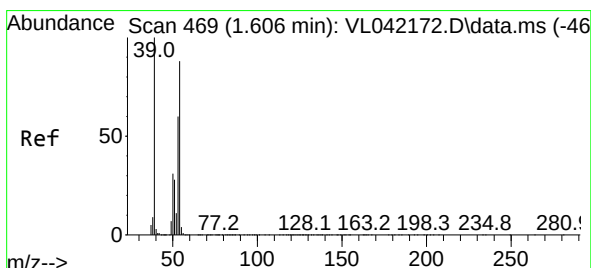
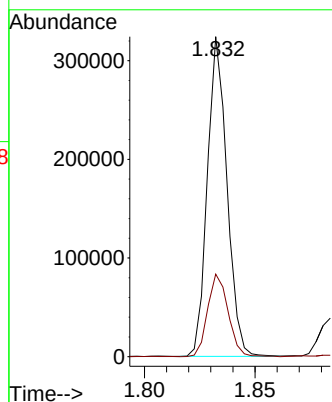
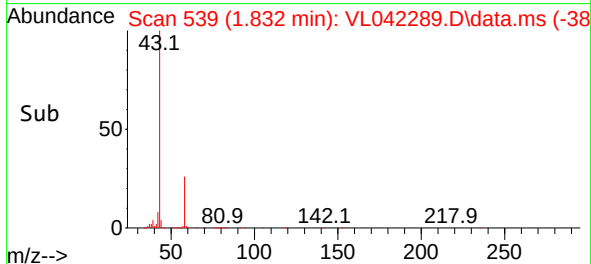
Instrument :
MSVOA_L
ClientSampleId :
VL0409ABS02



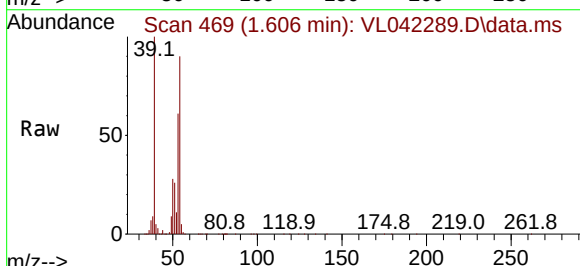
Tgt Ion: 43 Resp: 20015
Ion Ratio Lower Upper
43 100
58 27.1 23.2 34.8

Manual Integrations
APPROVED

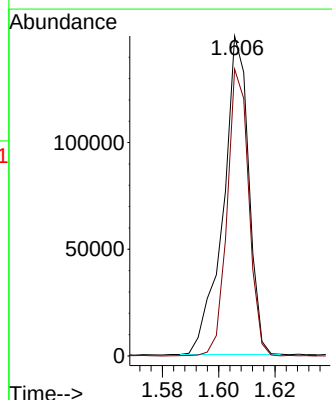
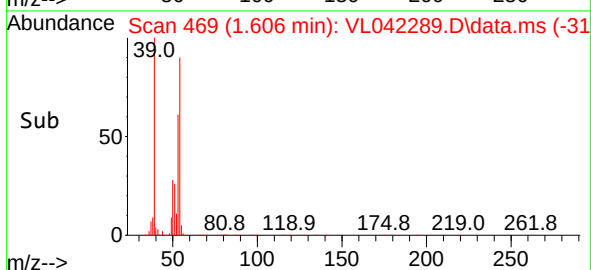
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

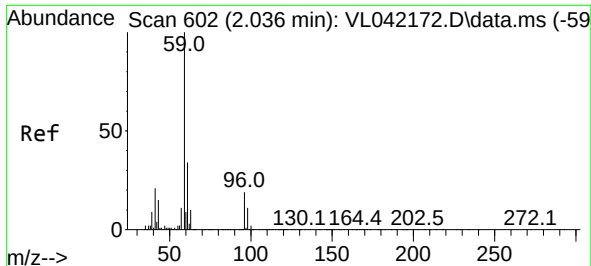


#16
1,3-Butadiene
Concen: 8.569 ppbv
RT: 1.606 min Scan# 469
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31



Tgt Ion: 39 Resp: 93954
Ion Ratio Lower Upper
39 100
54 76.4 60.7 91.1





#17

tert-Butyl alcohol

Concen: 8.271 ppbv

RT: 2.039 min Scan# 602

Delta R.T. 0.003 min

Lab File: VL042289.D

Acq: 09 Apr 2025 12:31

Instrument :

MSVOA_L

ClientSampleId :

VL0409ABS02

Tgt Ion: 59 Resp: 23129

Ion Ratio Lower Upper

59 100

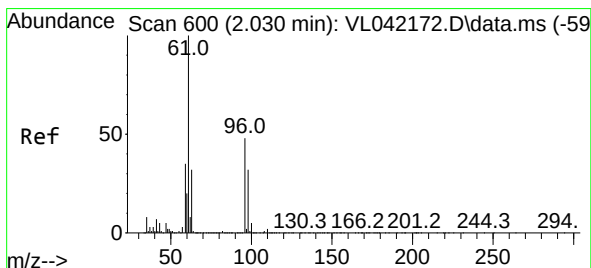
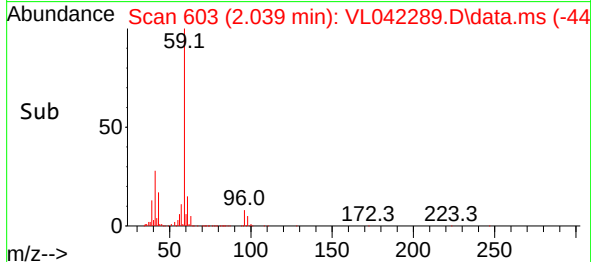
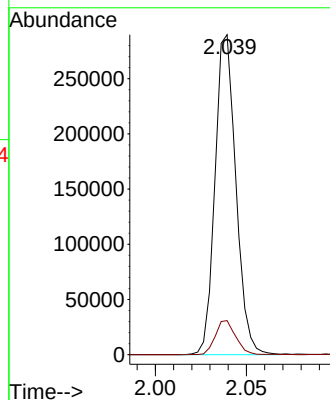
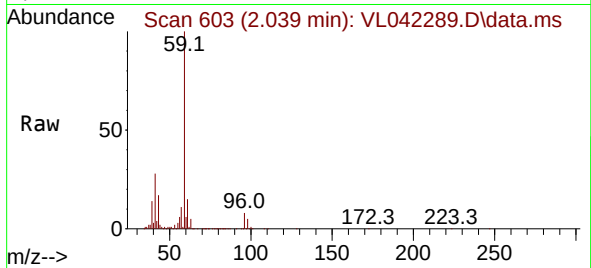
57 10.5 8.9 13.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#18

1,1-Dichloroethene

Concen: 8.912 ppbv

RT: 2.030 min Scan# 600

Delta R.T. -0.000 min

Lab File: VL042289.D

Acq: 09 Apr 2025 12:31

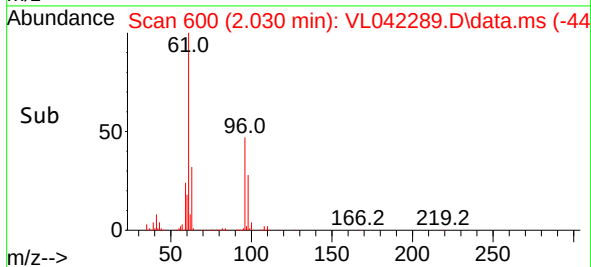
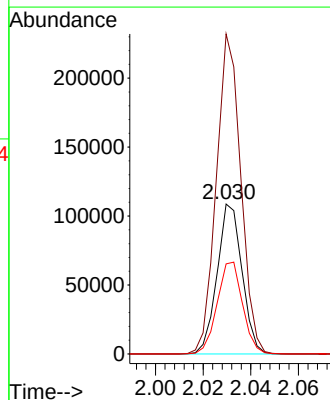
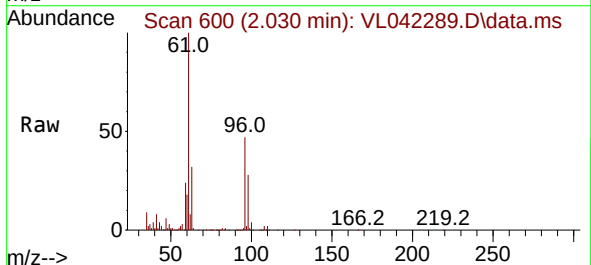
Tgt Ion: 96 Resp: 78979

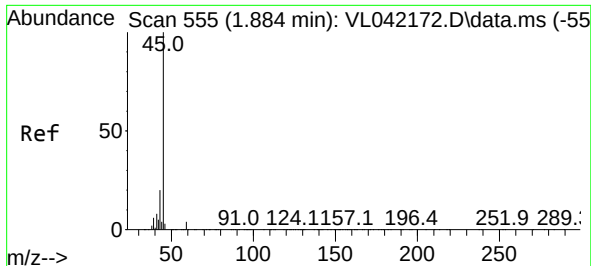
Ion Ratio Lower Upper

96 100

61 213.3 167.6 251.4

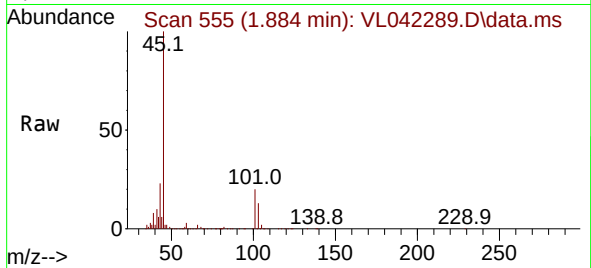
98 60.0 53.5 80.3





#19
Isopropyl Alcohol
Concen: 8.835 ppbv
RT: 1.884 min Scan# 555
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

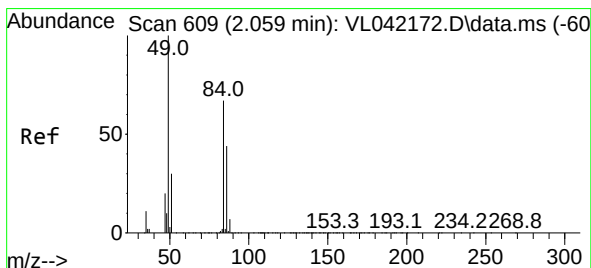
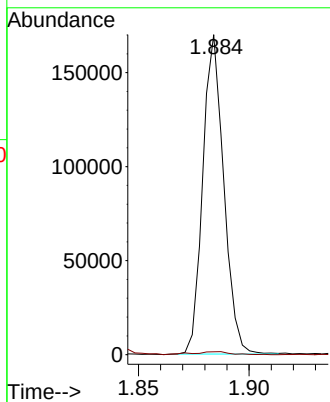
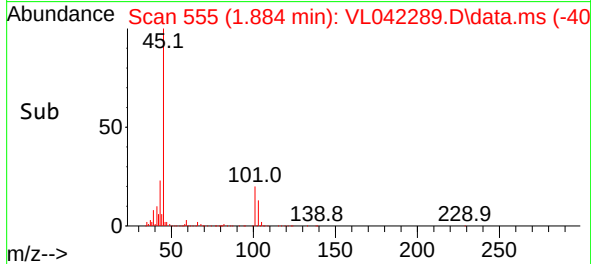
Instrument :
MSVOA_L
ClientSampleId :
VL0409ABS02



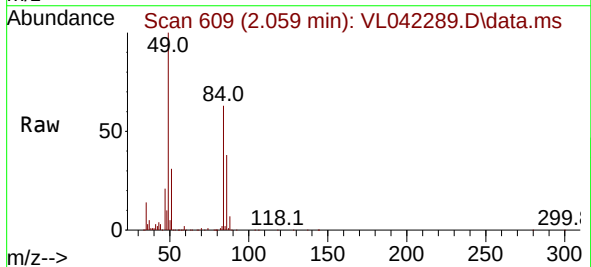
Tgt Ion: 45 Resp: 111918
Ion Ratio Lower Upper
45 100
58 48.5 36.9 55.3

Manual Integrations
APPROVED

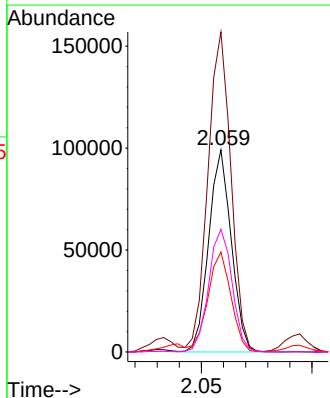
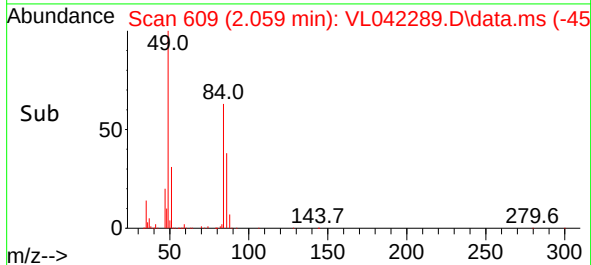
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

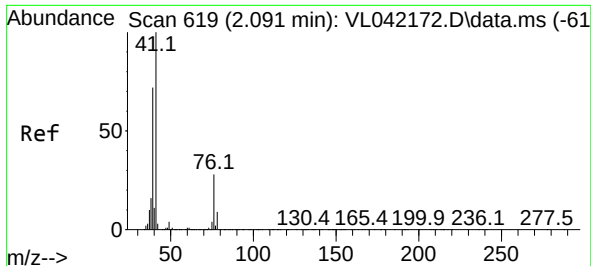


#20
Methylene Chloride
Concen: 8.444 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31



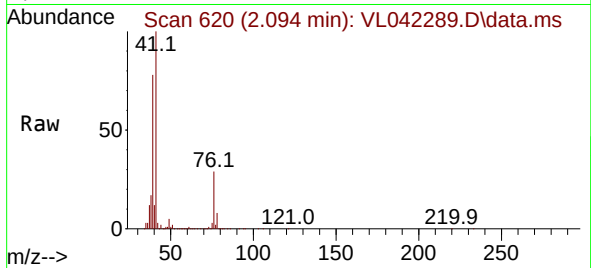
Tgt Ion: 84 Resp: 70611
Ion Ratio Lower Upper
84 100
49 156.0 120.2 180.4
51 48.6 37.4 56.0
86 60.7 52.4 78.6





#21
Allyl Chloride
Concen: 9.308 ppbv
RT: 2.094 min Scan# 619
Delta R.T. 0.003 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

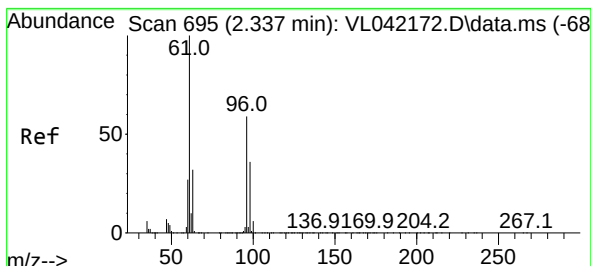
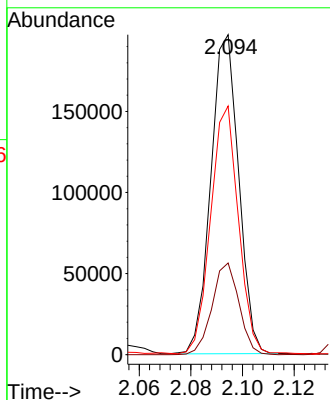
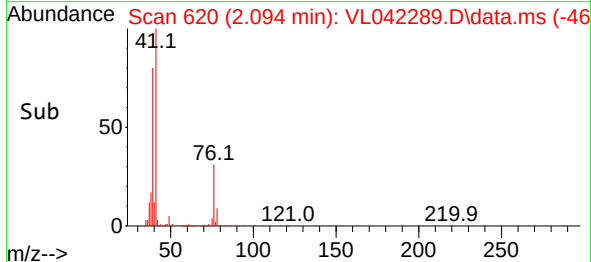
Instrument :
MSVOA_L
ClientSampleId :
VL0409ABS02



Tgt Ion: 41 Resp: 147389
Ion Ratio Lower Upper
41 100
76 27.7 24.1 36.1
39 77.7 61.1 91.7

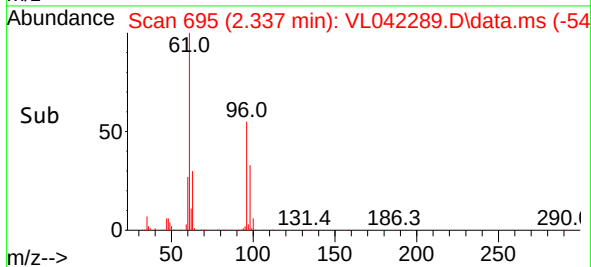
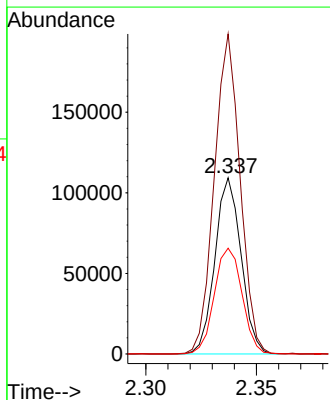
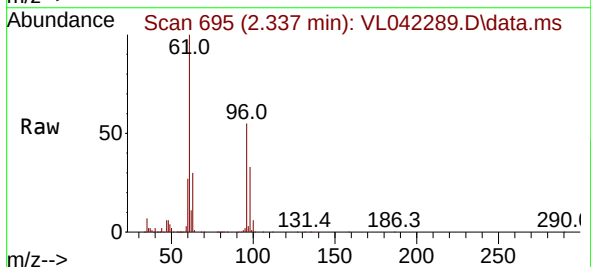
Manual Integrations
APPROVED

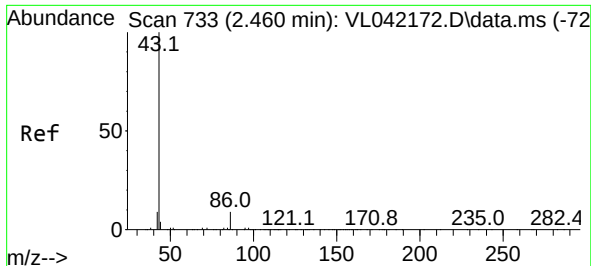
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#22
trans-1,2-Dichloroethene
Concen: 8.775 ppbv
RT: 2.337 min Scan# 695
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

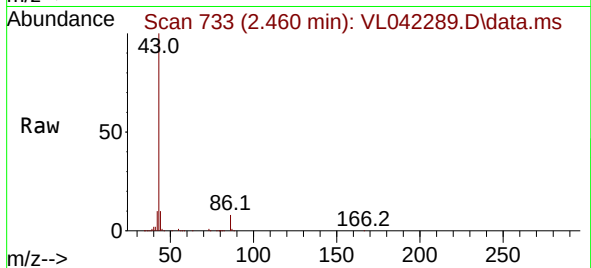
Tgt Ion: 96 Resp: 89877
Ion Ratio Lower Upper
96 100
61 181.6 136.6 204.8
98 60.0 49.4 74.2





#23
 Vinyl Acetate
 Concen: 8.750 ppbv
 RT: 2.460 min Scan# 716
 Delta R.T. -0.000 min
 Lab File: VL042289.D
 Acq: 09 Apr 2025 12:31

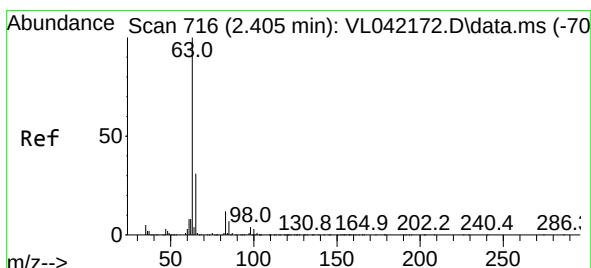
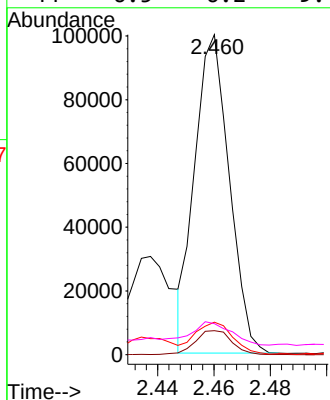
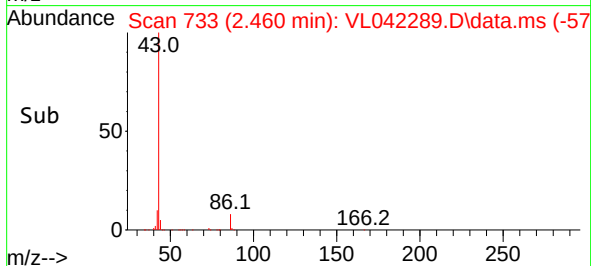
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0409ABS02



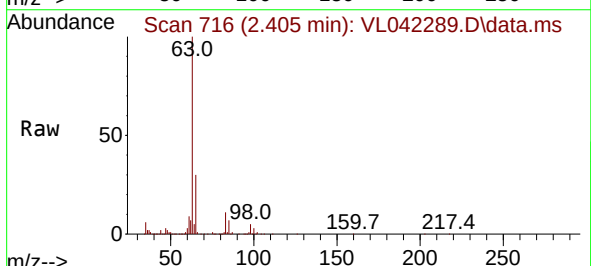
Tgt Ion:	43	Resp:	85028
Ion Ratio	Lower	Upper	
43	100		
86	7.5	5.5	8.3
42	9.9	8.6	13.0
44	6.5	6.2	9.4

Manual Integrations
 APPROVED

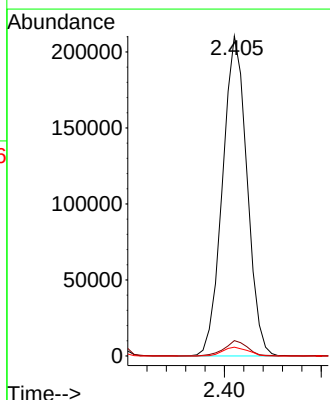
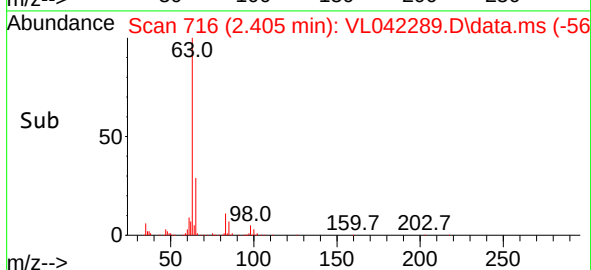
Reviewed By :Semsettin Yesilyurt 04/10/2025
 Supervised By :Mahesh Dadoda 04/10/2025

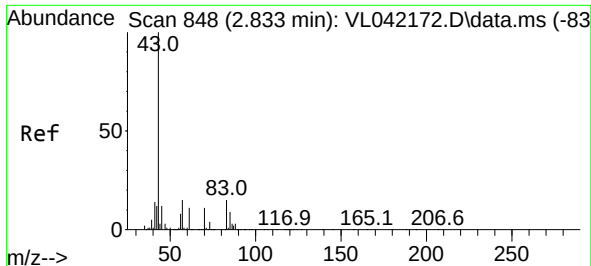


#24
 1,1-Dichloroethane
 Concen: 9.733 ppbv
 RT: 2.405 min Scan# 716
 Delta R.T. -0.000 min
 Lab File: VL042289.D
 Acq: 09 Apr 2025 12:31



Tgt Ion:	63	Resp:	184801
Ion Ratio	Lower	Upper	
63	100		
98	4.8	2.3	6.8
100	2.8	1.6	4.7





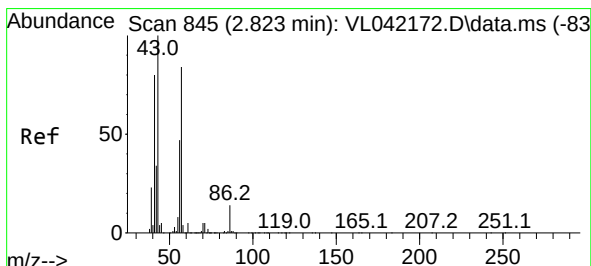
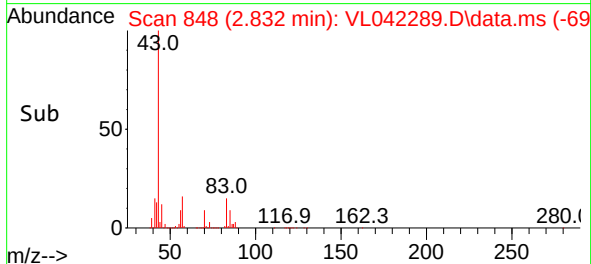
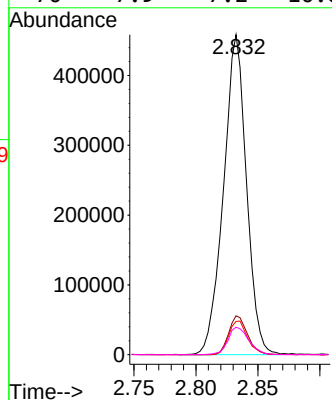
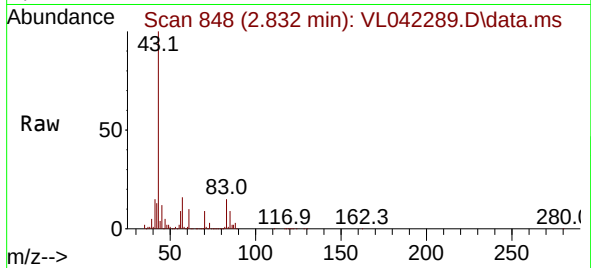
#25
Ethyl Acetate
Concen: 10.137 ppbv
RT: 2.832 min Scan# 84
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Instrument :
MSVOA_L
ClientSampleId :
VL0409ABS02

Tgt Ion: 43 Resp: 590692
Ion Ratio Lower Upper
43 100
45 10.0 8.2 12.2
61 8.7 7.3 10.9
70 7.9 7.2 10.8

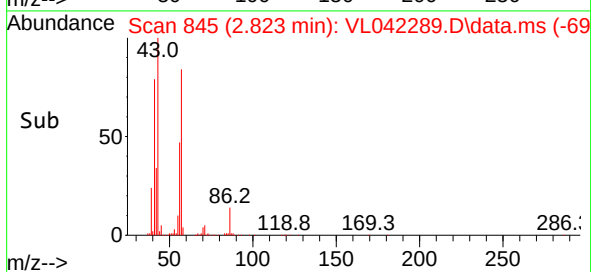
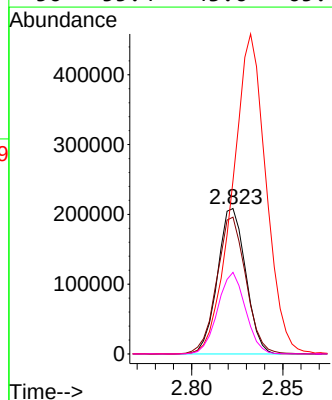
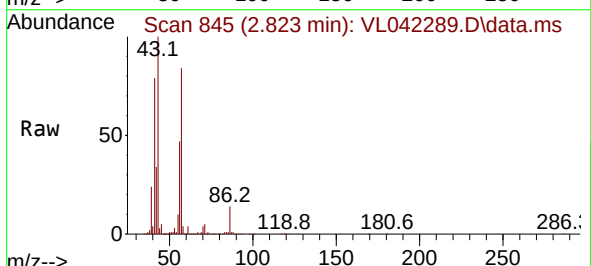
Manual Integrations
APPROVED

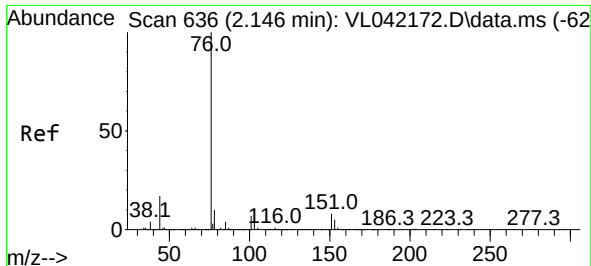
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#26
Hexane
Concen: 9.943 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

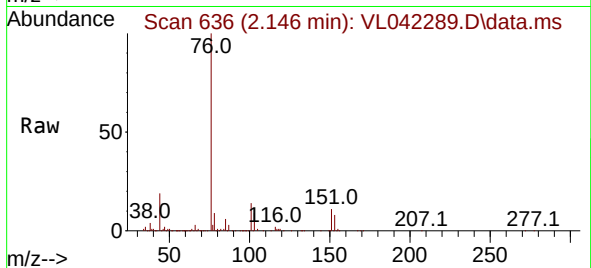
Tgt Ion: 57 Resp: 223800
Ion Ratio Lower Upper
57 100
41 97.7 76.6 114.8
43 264.7 207.8 311.8
56 55.4 43.6 65.4





#27
Carbon Disulfide
Concen: 9.267 ppbv
RT: 2.146 min Scan# 61
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

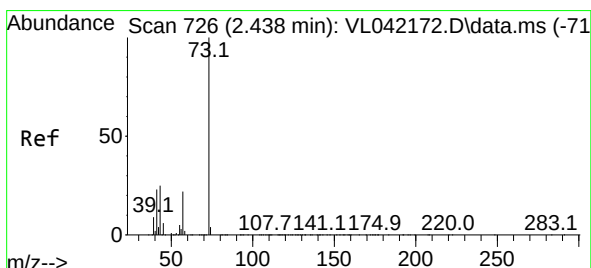
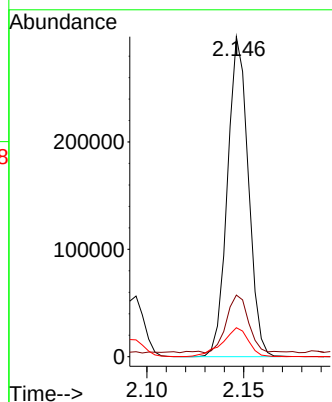
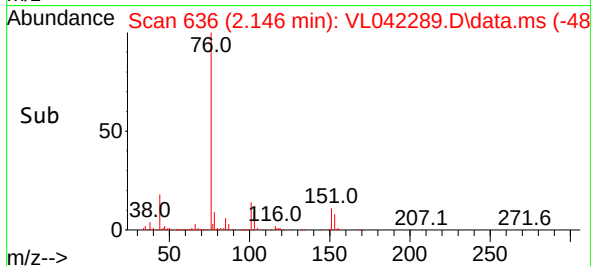
Instrument :
MSVOA_L
ClientSampleId :
VL0409ABS02



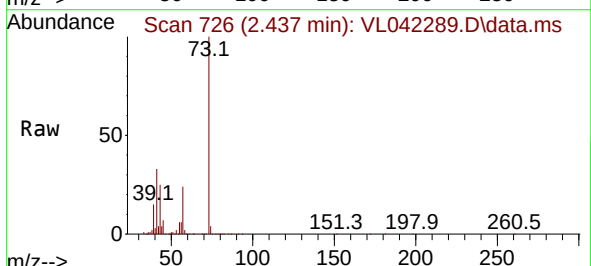
Tgt Ion: 76 Resp: 223679
Ion Ratio Lower Upper
76 100
44 19.6 14.7 22.1
78 11.3 9.3 13.9

Manual Integrations
APPROVED

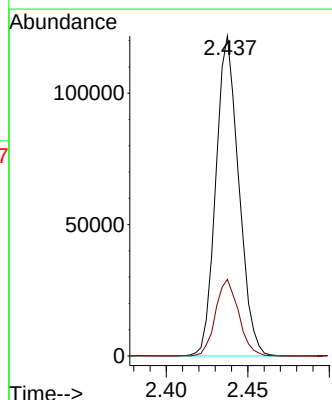
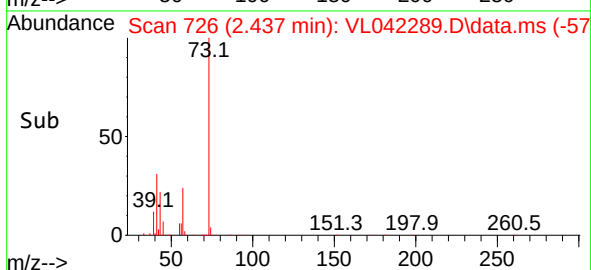
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

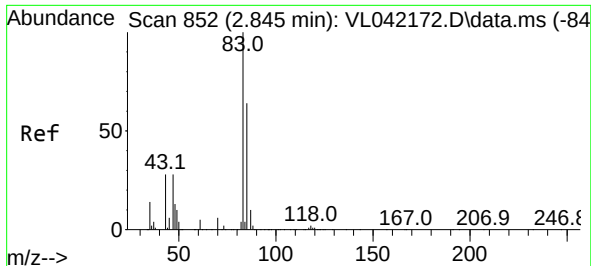


#28
Methyl tert-Butyl Ether
Concen: 8.494 ppbv
RT: 2.437 min Scan# 726
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31



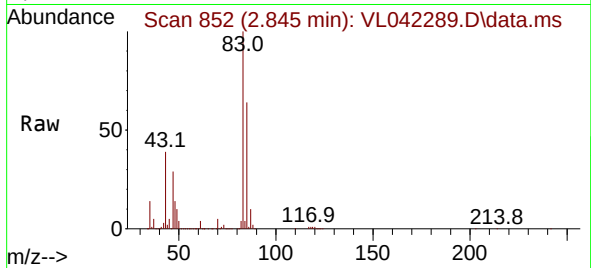
Tgt Ion: 73 Resp: 119034
Ion Ratio Lower Upper
73 100
57 24.2 20.5 30.7





#29
Chloroform
Concen: 10.353 ppbv
RT: 2.845 min Scan# 81
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

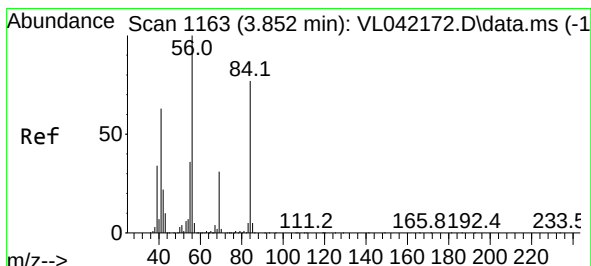
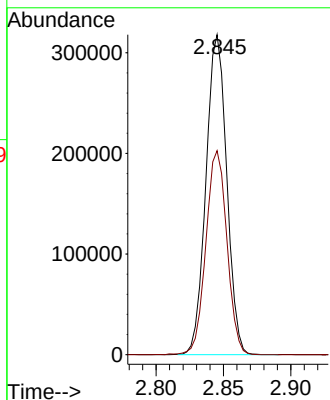
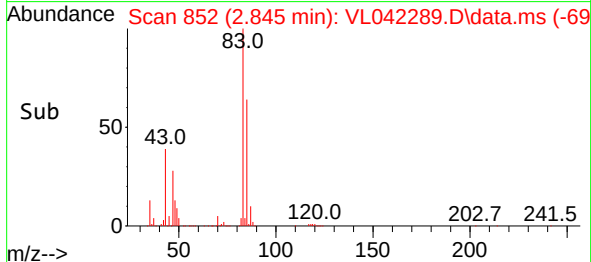
Instrument :
MSVOA_L
ClientSampleId :
VL0409ABS02



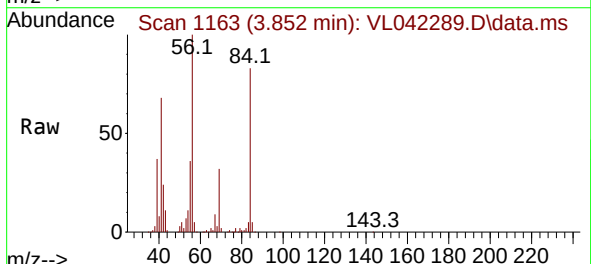
Tgt Ion: 83 Resp: 34104
Ion Ratio Lower Upper
83 100
85 63.8 51.4 77.2

Manual Integrations
APPROVED

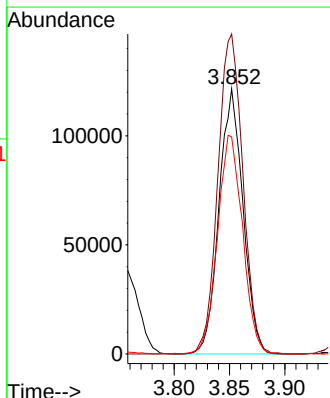
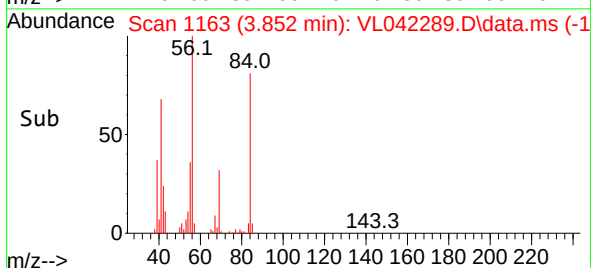
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

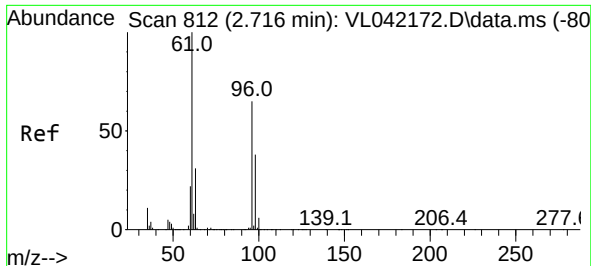


#30
Cyclohexane
Concen: 9.357 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31



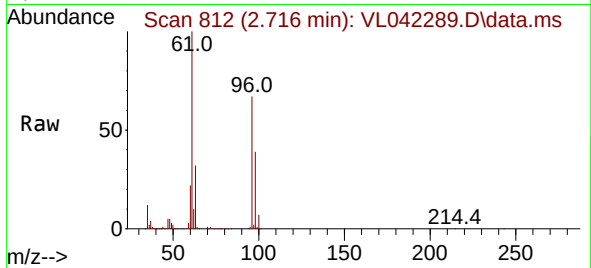
Tgt Ion: 84 Resp: 182880
Ion Ratio Lower Upper
84 100
56 125.8 102.8 154.2
41 86.5 66.5 99.7





#31
 cis-1,2-Dichloroethene
 Concen: 9.710 ppbv
 RT: 2.716 min Scan# 812
 Delta R.T. -0.000 min
 Lab File: VL042289.D
 Acq: 09 Apr 2025 12:31

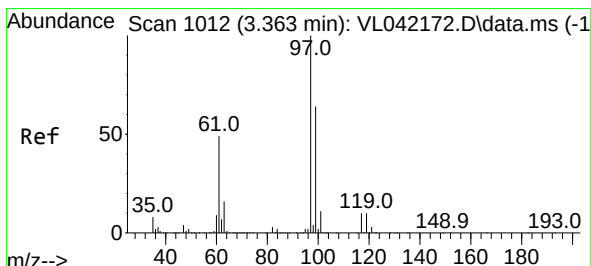
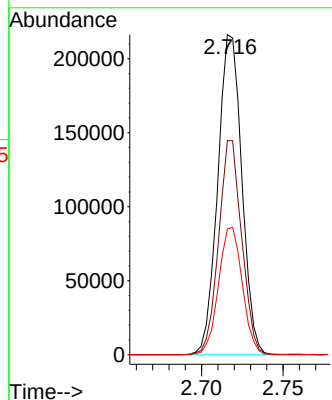
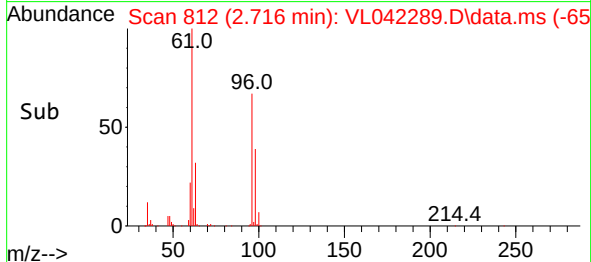
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0409ABS02



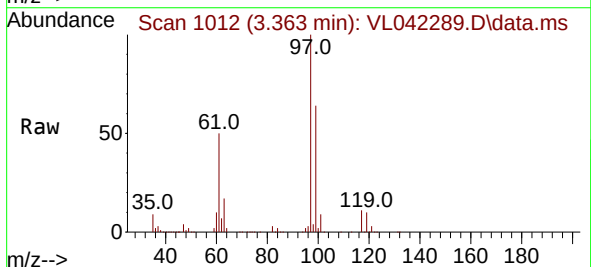
Tgt Ion: 61 Resp: 22188
 Ion Ratio Lower Upper
 61 100
 96 66.9 51.8 77.8
 98 39.2 30.6 46.0

Manual Integrations
 APPROVED

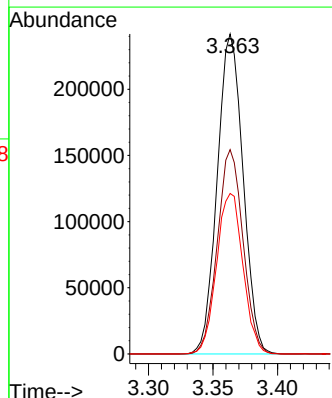
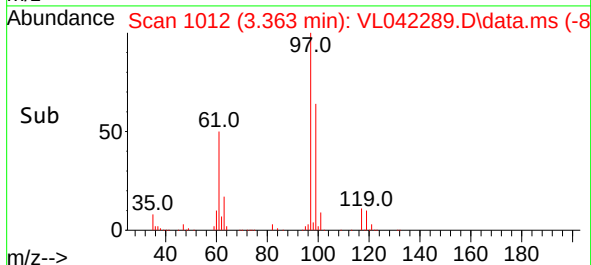
Reviewed By :Semsettin Yesilyurt 04/10/2025
 Supervised By :Mahesh Dadoda 04/10/2025

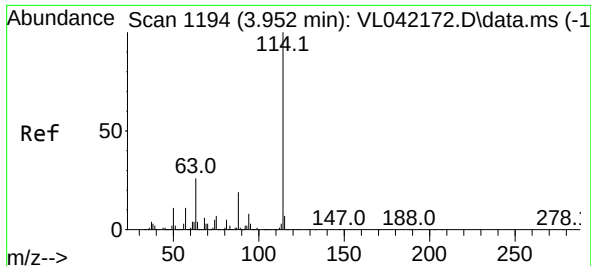


#32
 1,1,1-Trichloroethane
 Concen: 8.923 ppbv
 RT: 3.363 min Scan# 1012
 Delta R.T. -0.000 min
 Lab File: VL042289.D
 Acq: 09 Apr 2025 12:31



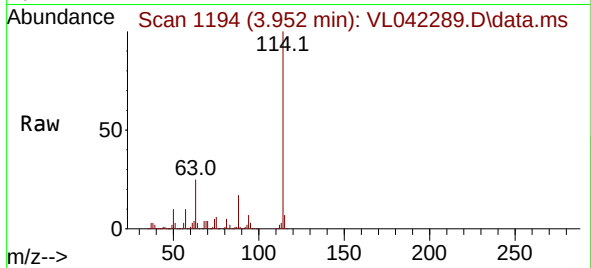
Tgt Ion: 97 Resp: 336493
 Ion Ratio Lower Upper
 97 100
 99 63.4 51.5 77.3
 61 51.2 38.7 58.1





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

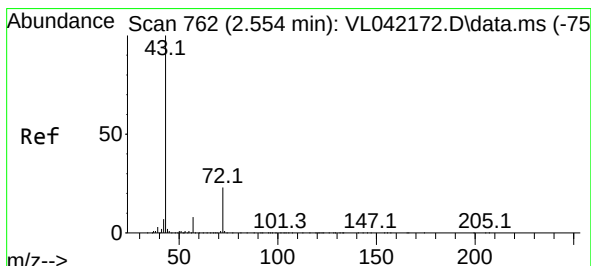
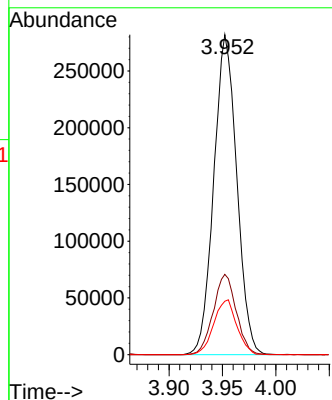
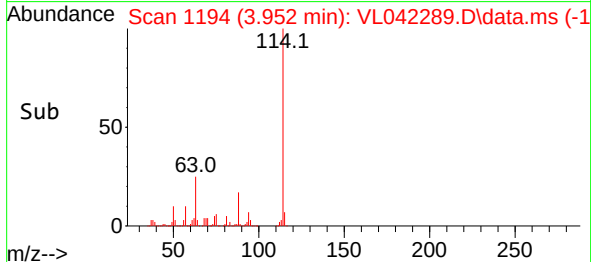
Instrument :
MSVOA_L
ClientSampleId :
VL0409ABS02



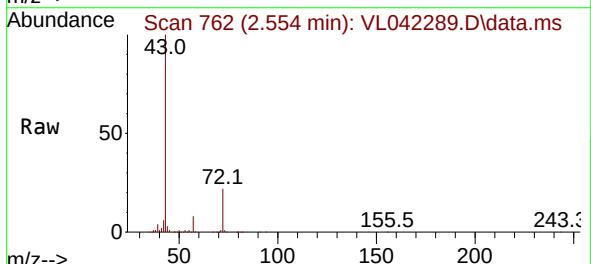
Tgt Ion:114 Resp: 421845
Ion Ratio Lower Upper
114 100
63 25.2 20.7 31.1
88 17.3 15.0 22.4

Manual Integrations
APPROVED

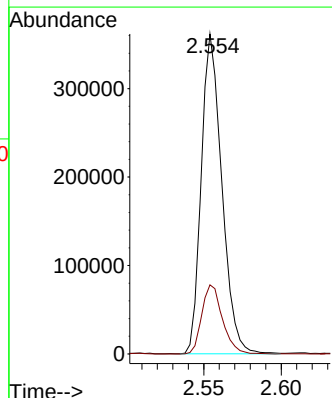
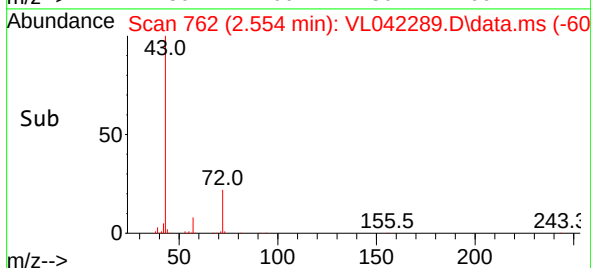
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

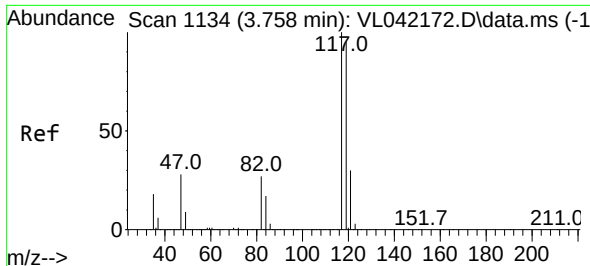


#34
2-Butanone
Concen: 10.940 ppbv
RT: 2.554 min Scan# 762
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31



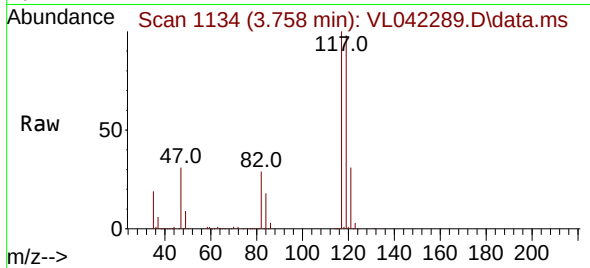
Tgt Ion: 43 Resp: 334636
Ion Ratio Lower Upper
43 100
72 21.7 18.2 27.2





#35
Carbon Tetrachloride
Concen: 10.420 ppbv
RT: 3.758 min Scan# 1134
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

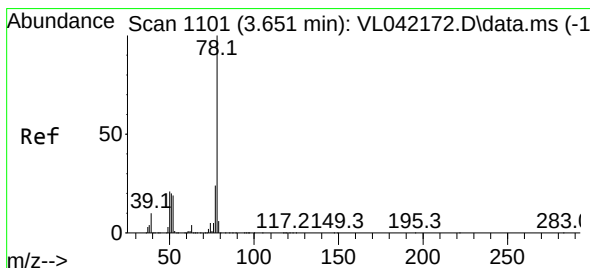
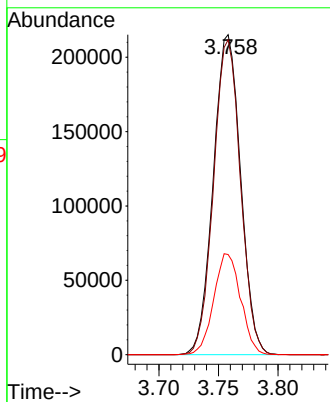
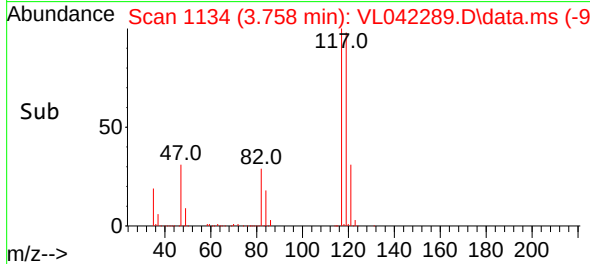
Instrument :
MSVOA_L
ClientSampleId :
VL0409ABS02



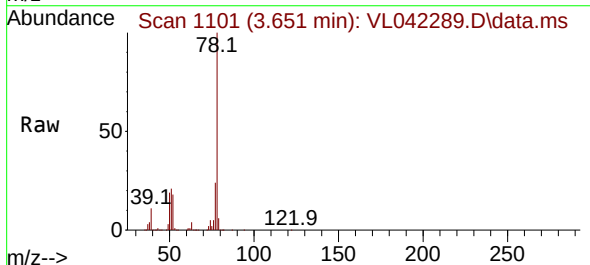
Tgt Ion:117 Resp: 343370
Ion Ratio Lower Upper
117 100
119 98.4 76.2 114.2
121 31.3 24.2 36.4

Manual Integrations
APPROVED

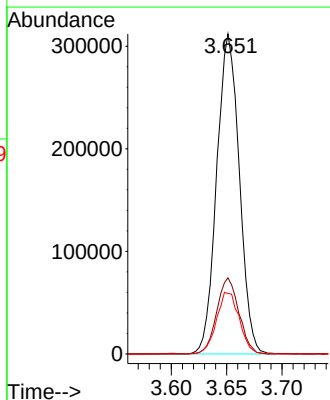
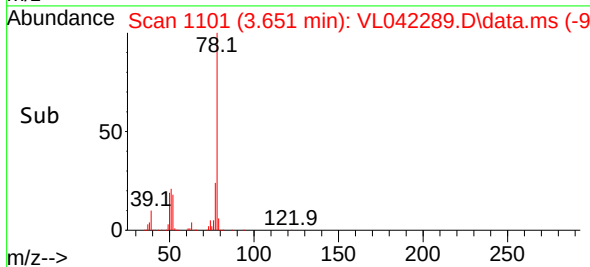
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

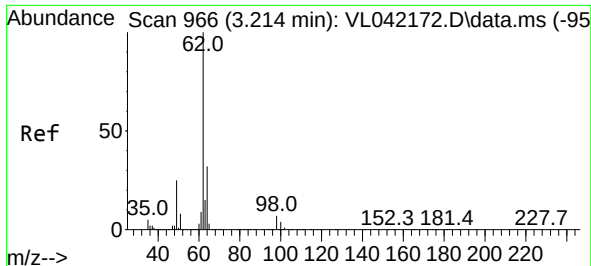


#36
Benzene
Concen: 10.586 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31



Tgt Ion: 78 Resp: 442736
Ion Ratio Lower Upper
78 100
77 23.7 19.1 28.7
50 18.9 16.6 24.8





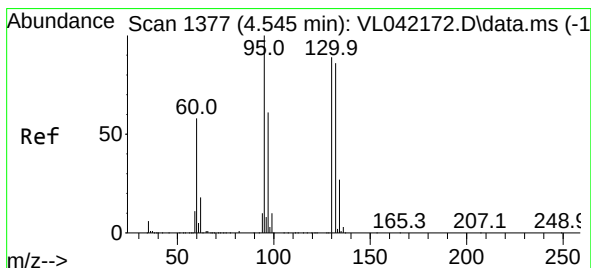
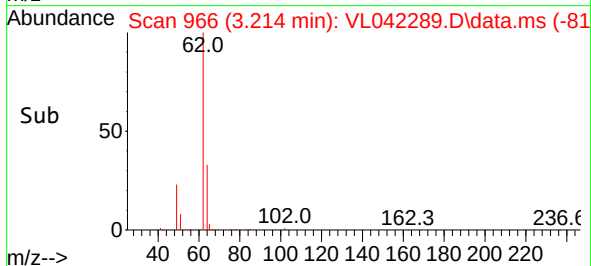
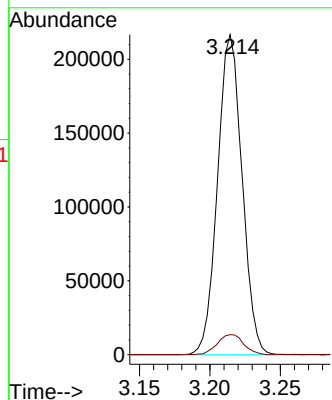
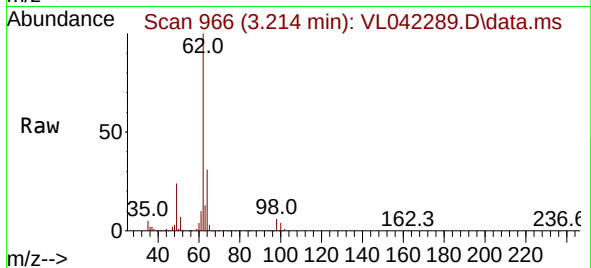
#37
1,2-Dichloroethane
Concen: 10.965 ppbv
RT: 3.214 min Scan# 966
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Instrument :
MSVOA_L
ClientSampleId :
VL0409ABS02

Tgt Ion: 62 Resp: 262528
Ion Ratio Lower Upper
62 100
98 6.8 5.4 8.2

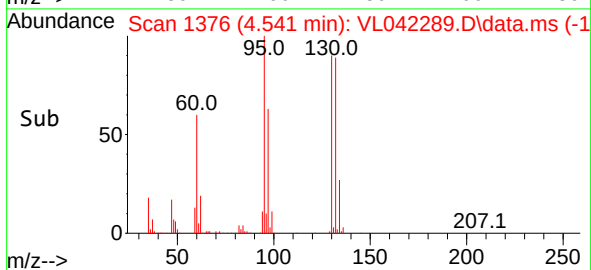
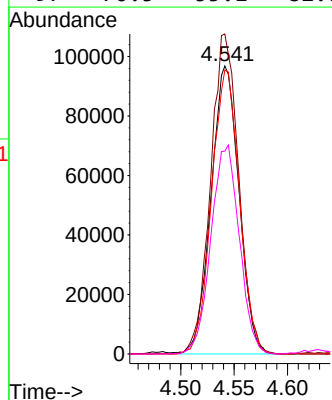
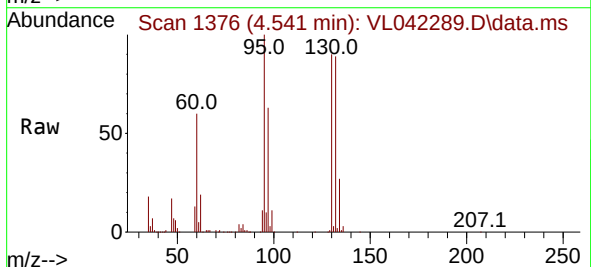
Manual Integrations
APPROVED

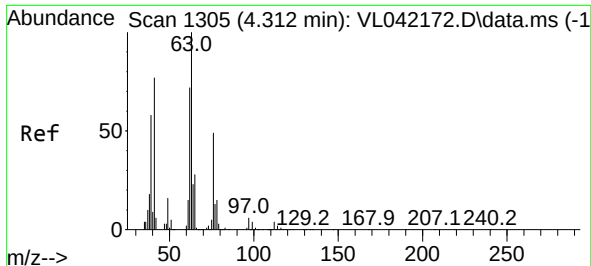
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#38
Trichloroethene
Concen: 10.111 ppbv
RT: 4.541 min Scan# 1376
Delta R.T. -0.003 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion:130 Resp: 176435
Ion Ratio Lower Upper
130 100
95 111.1 89.8 134.8
132 98.6 77.4 116.2
97 70.5 55.1 82.7





#39

1,2-Dichloropropane

Concen: 10.578 ppbv

RT: 4.308 min Scan# 1

Delta R.T. -0.003 min

Lab File: VL042289.D

Acq: 09 Apr 2025 12:31

Instrument :

MSVOA_L

ClientSampleId :

VL0409ABS02

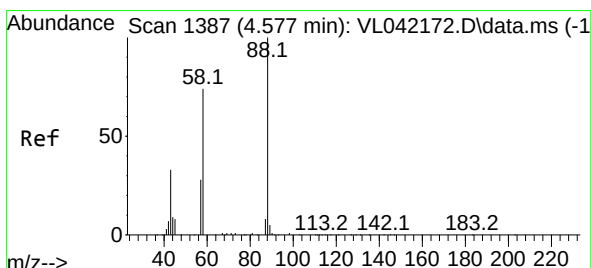
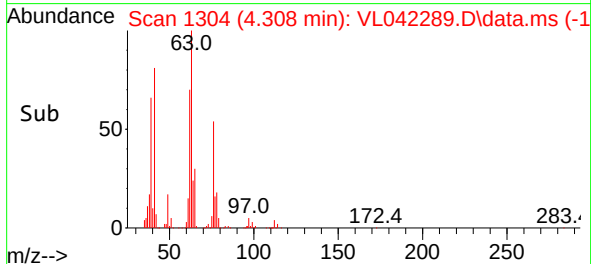
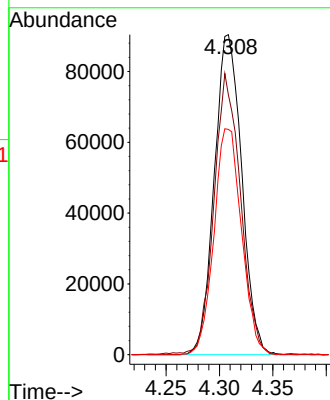
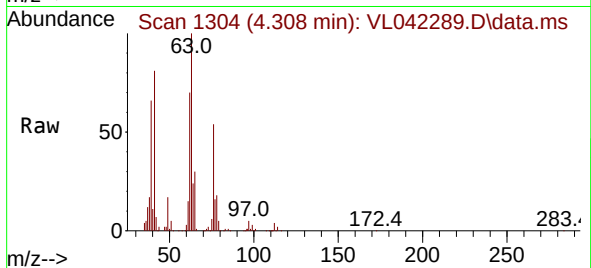
Tgt Ion:	63	Resp:	16110
Ion	Ratio	Lower	Upper
63	100		
41	81.1	61.7	92.5
62	70.4	57.6	86.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#40

1,4-Dioxane

Concen: 9.441 ppbv

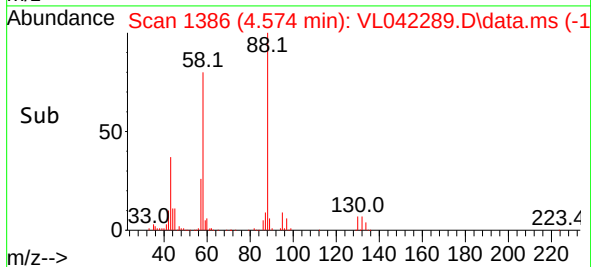
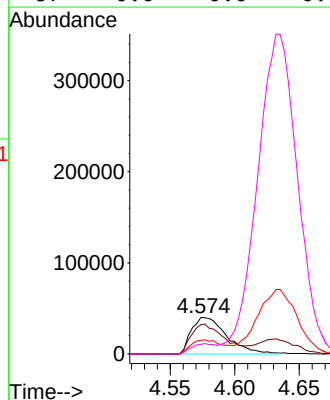
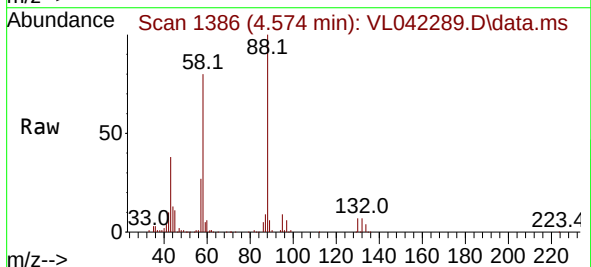
RT: 4.574 min Scan# 1386

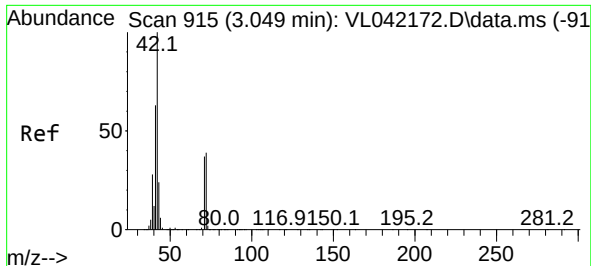
Delta R.T. -0.003 min

Lab File: VL042289.D

Acq: 09 Apr 2025 12:31

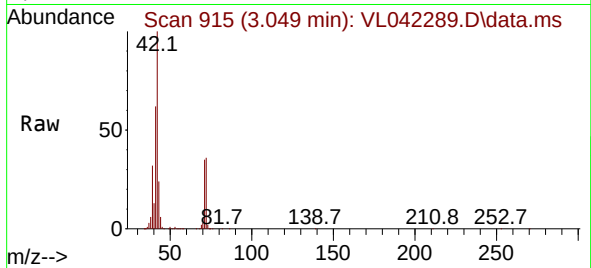
Tgt Ion:	88	Resp:	76321
Ion	Ratio	Lower	Upper
88	100		
58	80.1	62.7	94.1
43	32.6	23.0	34.4
57	0.0	0.0	0.0





#41
Tetrahydrofuran
Concen: 10.661 ppbv
RT: 3.049 min Scan# 915
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

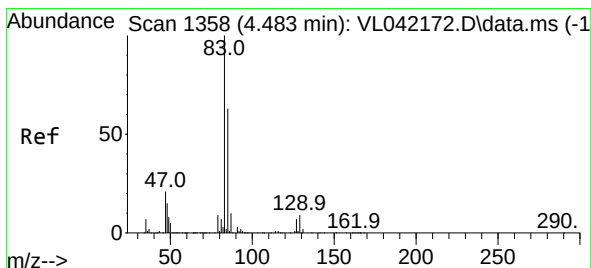
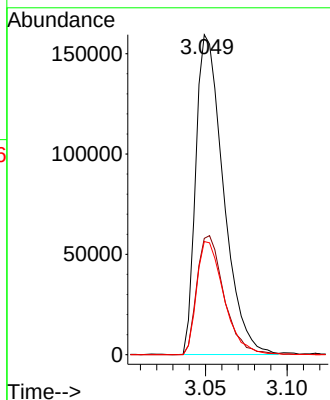
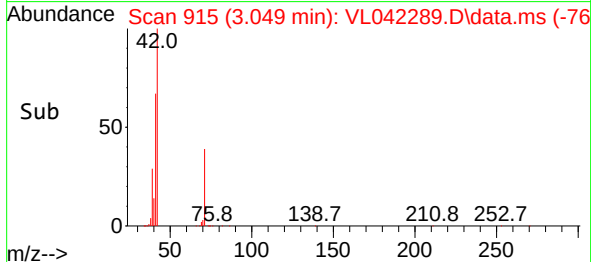
Instrument :
MSVOA_L
ClientSampleId :
VL0409ABS02



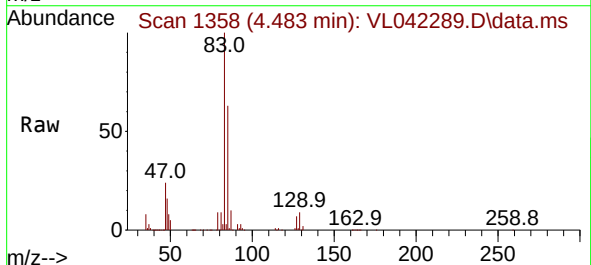
Tgt Ion: 42 Resp: 187790
Ion Ratio Lower Upper
42 100
72 36.8 31.4 47.0
71 35.0 30.2 45.4

Manual Integrations
APPROVED

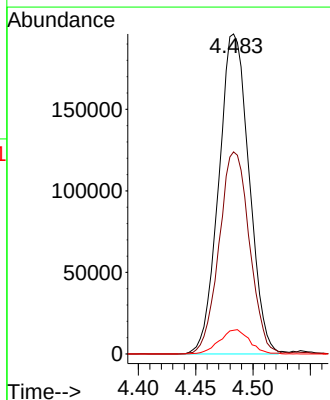
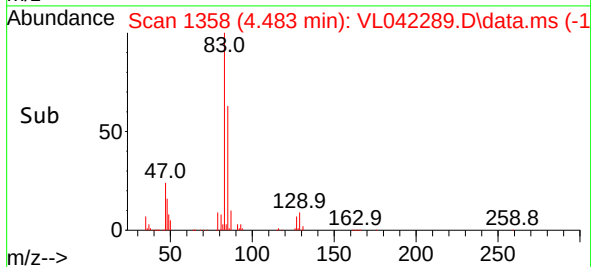
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

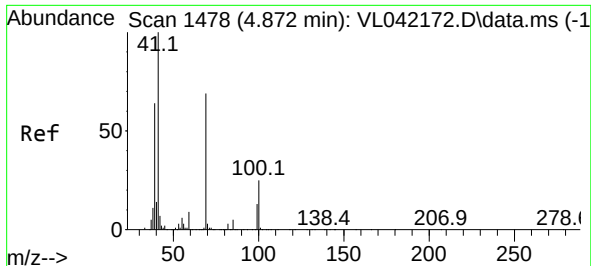


#42
Bromodichloromethane
Concen: 10.927 ppbv
RT: 4.483 min Scan# 1358
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31



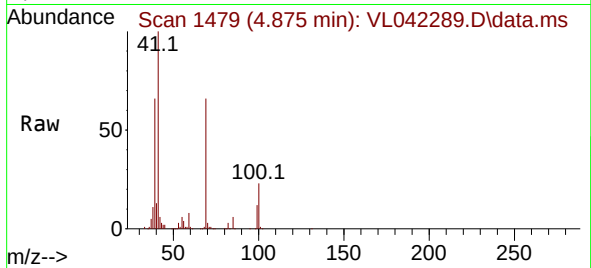
Tgt Ion: 83 Resp: 360662
Ion Ratio Lower Upper
83 100
85 63.1 50.5 75.7
127 7.4 5.9 8.9





#43
Methyl Methacrylate
Concen: 9.375 ppbv
RT: 4.875 min Scan# 1478
Delta R.T. 0.003 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

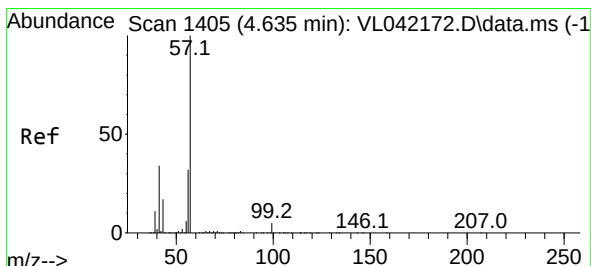
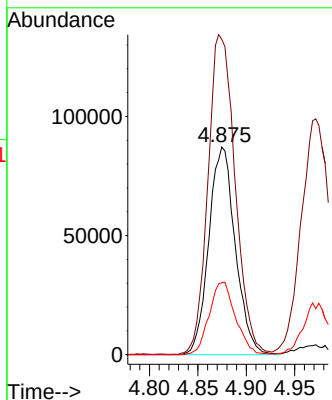
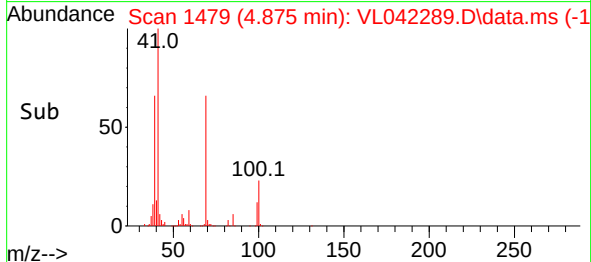
Instrument :
MSVOA_L
ClientSampleId :
VL0409ABS02



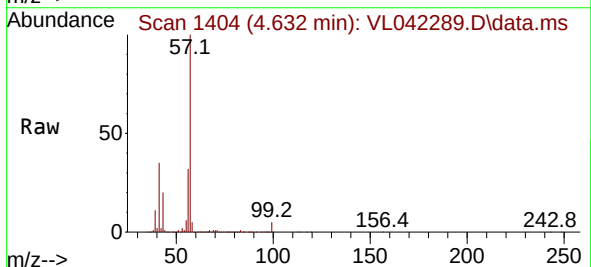
Tgt Ion: 69 Resp: 165984
Ion Ratio Lower Upper
69 100
41 157.7 123.8 185.6
100 34.7 28.4 42.6

Manual Integrations
APPROVED

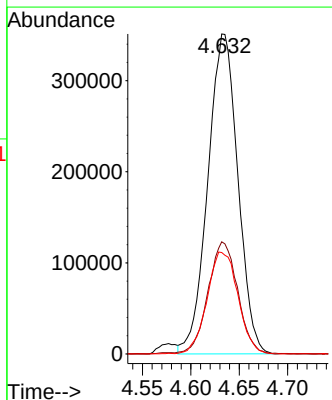
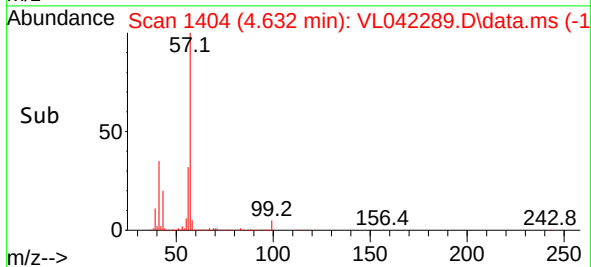
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

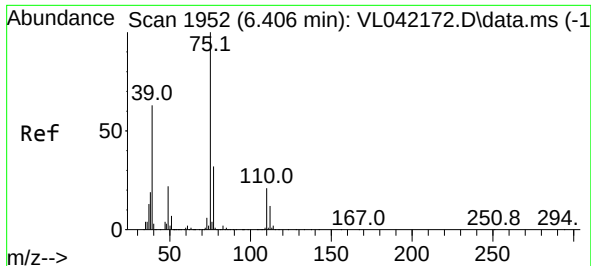


#44
2,2,4-Trimethylpentane
Concen: 10.723 ppbv
RT: 4.632 min Scan# 1404
Delta R.T. -0.003 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31



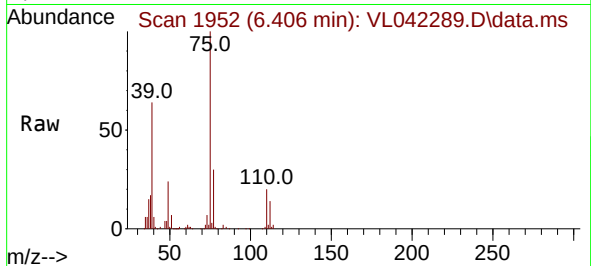
Tgt Ion: 57 Resp: 757855
Ion Ratio Lower Upper
57 100
41 35.2 26.8 40.2
56 32.9 25.6 38.4





#45
t-1,3-Dichloropropene
Concen: 8.489 ppbv
RT: 6.406 min Scan# 1952
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

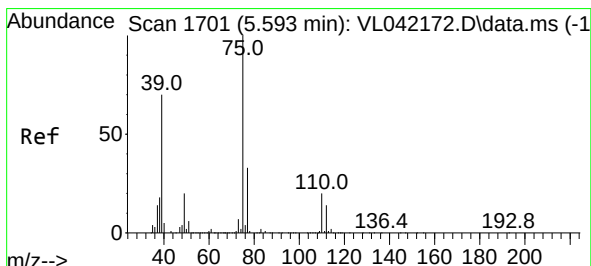
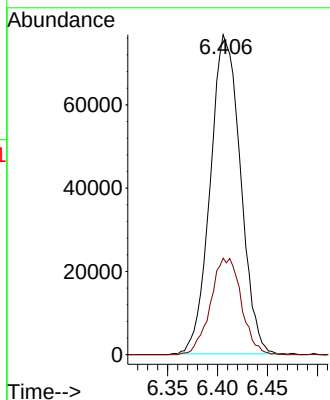
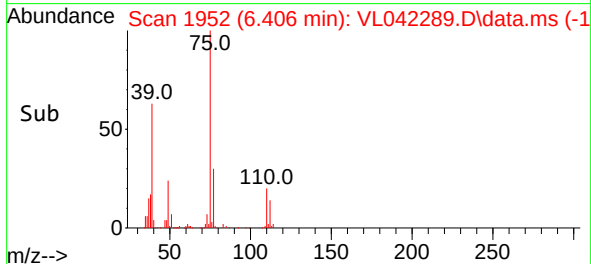
Instrument :
MSVOA_L
ClientSampleId :
VL0409ABS02



Tgt Ion: 75 Resp: 161245
Ion Ratio Lower Upper
75 100
77 30.2 26.0 39.0

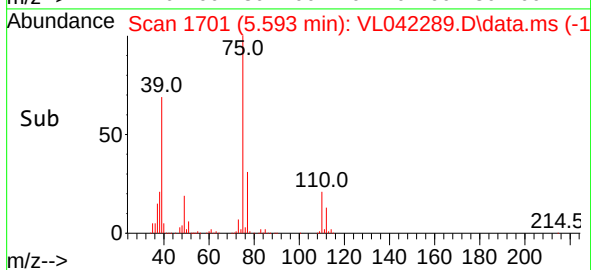
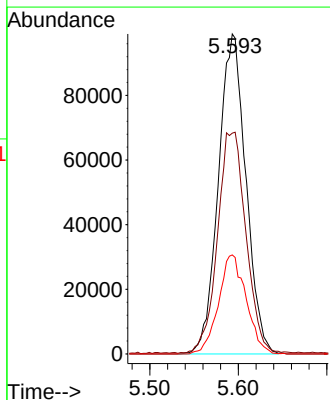
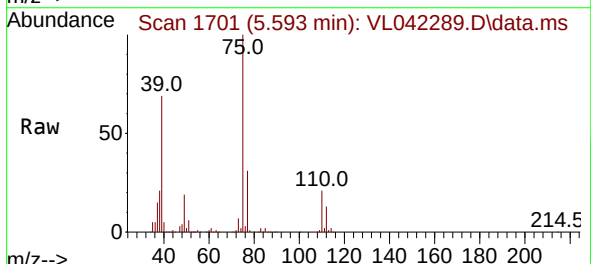
Manual Integrations
APPROVED

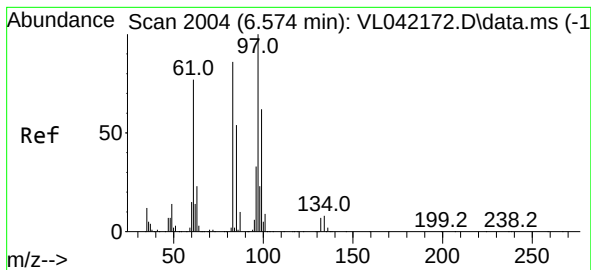
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#46
cis-1,3-Dichloropropene
Concen: 9.172 ppbv
RT: 5.593 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 75 Resp: 213566
Ion Ratio Lower Upper
75 100
39 68.8 55.8 83.6
77 30.9 26.0 39.0





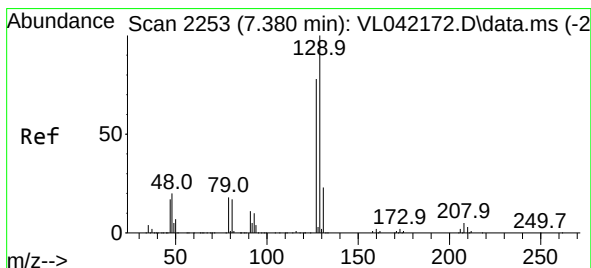
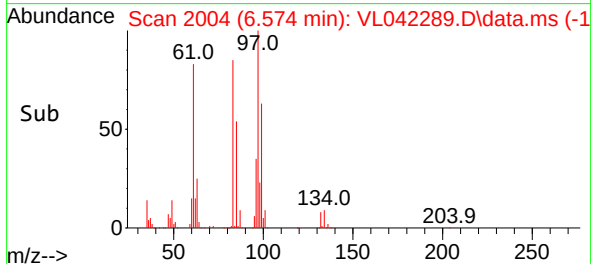
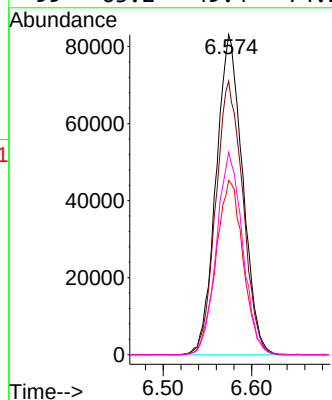
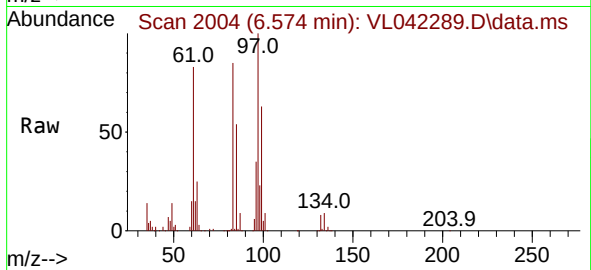
#47
1,1,2-Trichloroethane
Concen: 10.777 ppbv
RT: 6.574 min Scan# 2004
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Instrument :
MSVOA_L
ClientSampleId :
VL0409ABS02

Tgt Ion	Ratio	Lower	Upper
97	100		
83	85.5	69.2	103.8
85	54.4	43.1	64.7
99	63.2	49.4	74.2

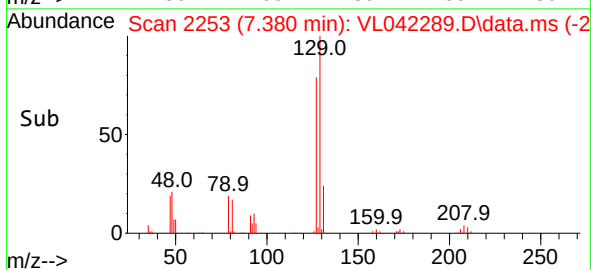
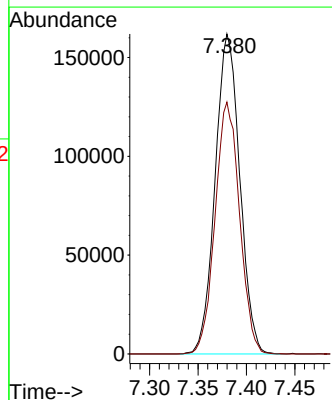
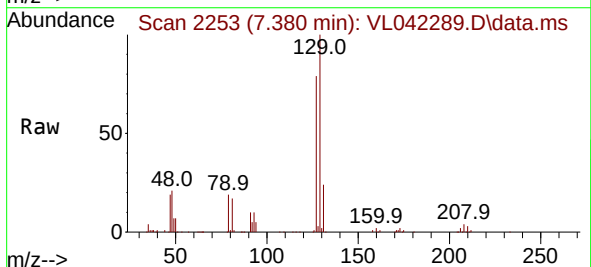
Manual Integrations
APPROVED

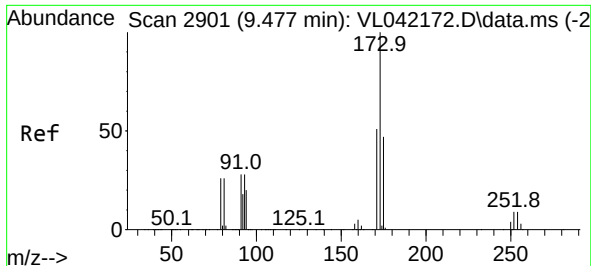
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#48
Dibromochloromethane
Concen: 10.516 ppbv
RT: 7.380 min Scan# 2253
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.2	39.1	117.2





#49

Bromoform

Concen: 10.386 ppbv

RT: 9.477 min Scan# 2901

Delta R.T. -0.000 min

Lab File: VL042289.D

Acq: 09 Apr 2025 12:31

Instrument :

MSVOA_L

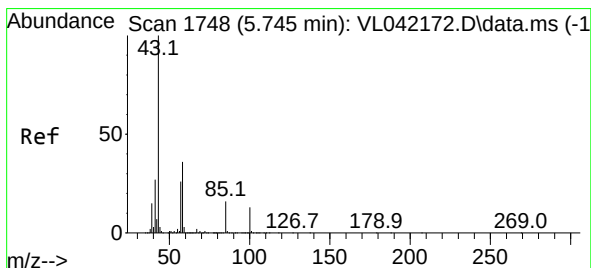
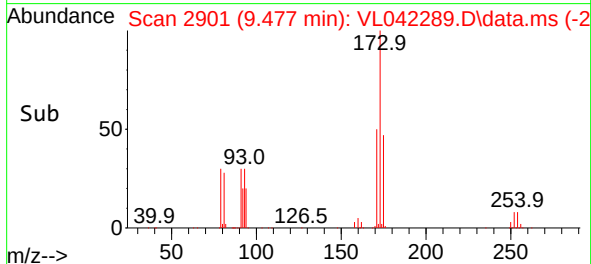
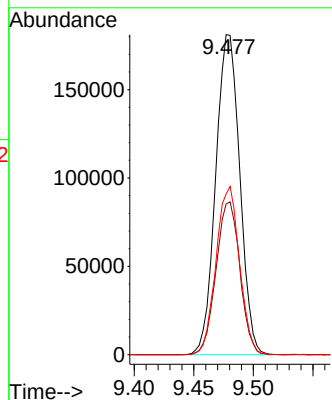
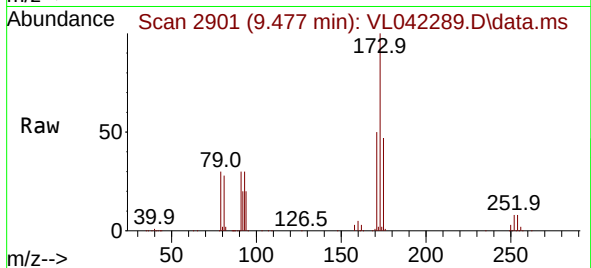
ClientSampleId :

VL0409ABS02

Tgt Ion:173 Resp: 254430
 Ion Ratio Lower Upper
 173 100
 175 47.2 38.6 57.8
 171 51.2 41.8 62.6

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/10/2025
 Supervised By :Mahesh Dadoda 04/10/2025



#50

4-Methyl-2-Pentanone

Concen: 9.552 ppbv

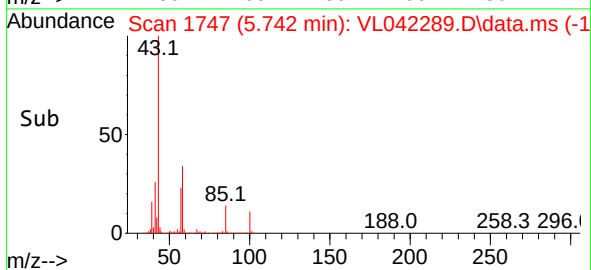
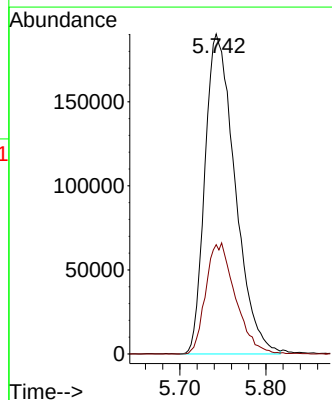
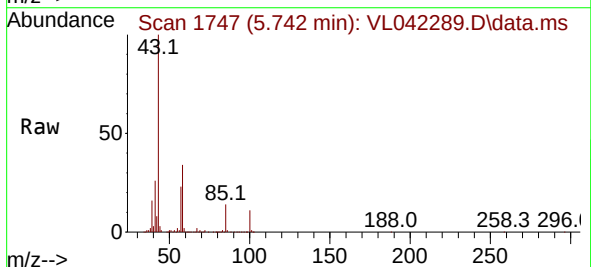
RT: 5.742 min Scan# 1747

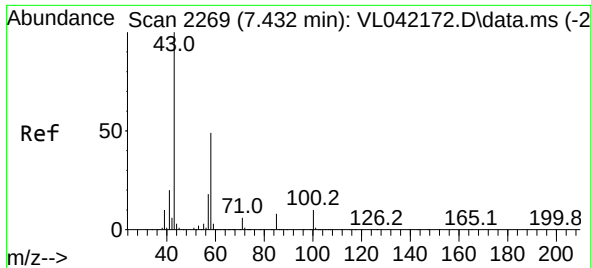
Delta R.T. -0.003 min

Lab File: VL042289.D

Acq: 09 Apr 2025 12:31

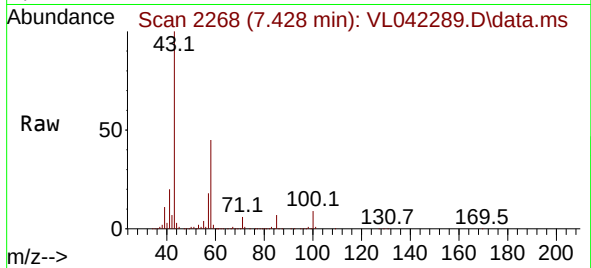
Tgt Ion: 43 Resp: 463069
 Ion Ratio Lower Upper
 43 100
 58 34.2 29.0 43.6





#51
2-Hexanone
Concen: 9.168 ppbv
RT: 7.428 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

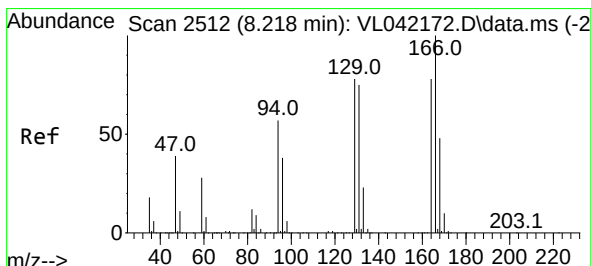
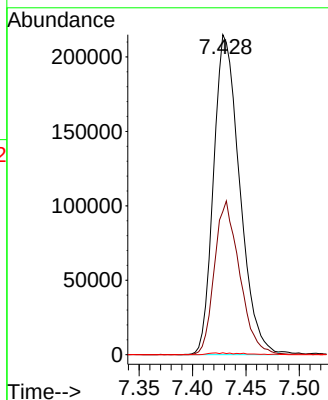
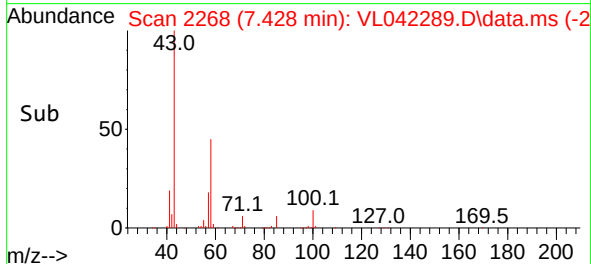
Instrument :
MSVOA_L
ClientSampleId :
VL0409ABS02



Tgt Ion: 43 Resp: 364940
Ion Ratio Lower Upper
43 100
58 46.5 39.7 59.5
98 0.8 0.1 0.1

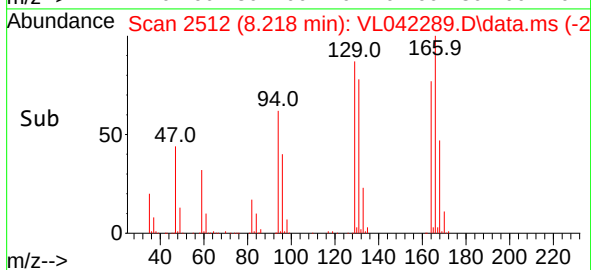
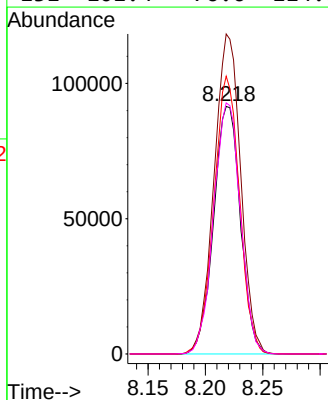
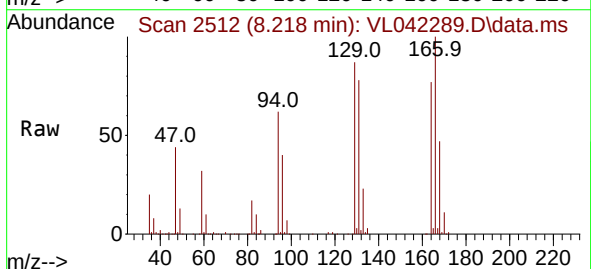
Manual Integrations
APPROVED

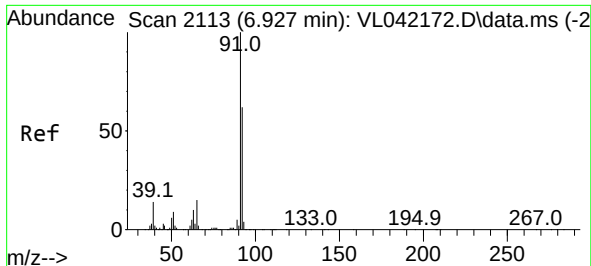
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#52
Tetrachloroethene
Concen: 8.946 ppbv
RT: 8.218 min Scan# 2512
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

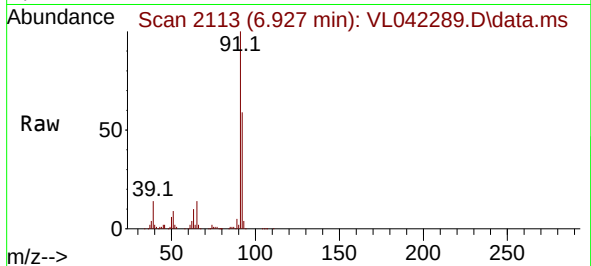
Tgt Ion:164 Resp: 148369
Ion Ratio Lower Upper
164 100
166 129.3 102.5 153.7
129 112.2 79.8 119.8
131 101.4 76.6 114.8





#53
Toluene
Concen: 9.903 ppbv
RT: 6.927 min Scan# 2113
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

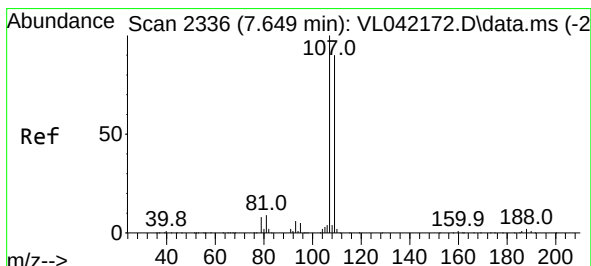
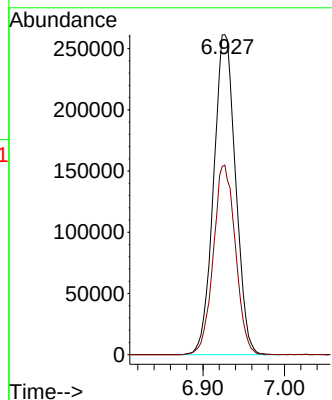
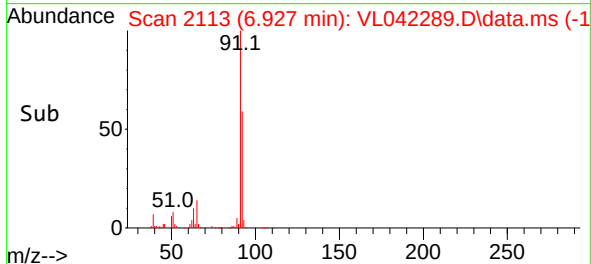
Instrument :
MSVOA_L
ClientSampleId :
VL0409ABS02



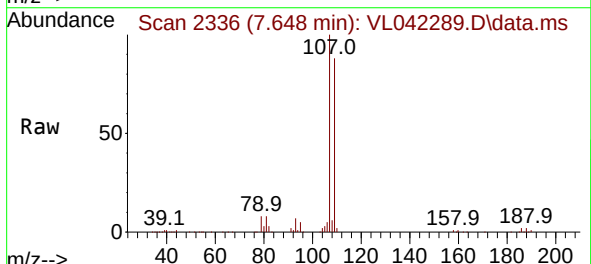
Tgt Ion: 91 Resp: 490910
Ion Ratio Lower Upper
91 100
92 59.5 48.4 72.6

Manual Integrations
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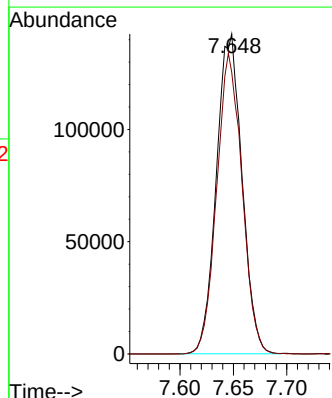
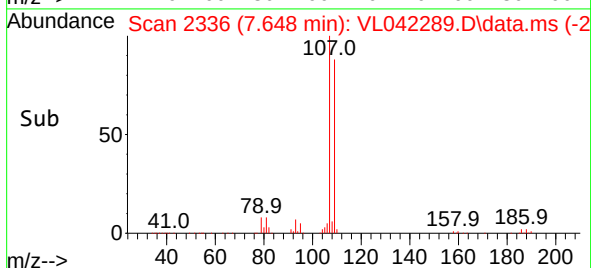
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

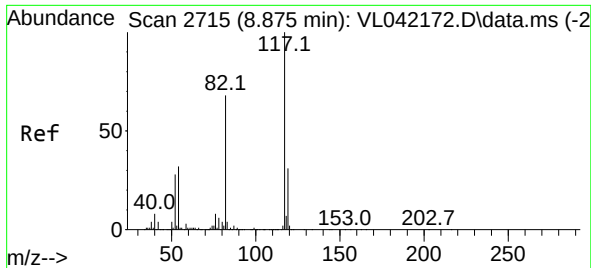


#54
1,2-Dibromoethane
Concen: 10.608 ppbv
RT: 7.648 min Scan# 2336
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31



Tgt Ion:107 Resp: 238091
Ion Ratio Lower Upper
107 100
109 88.1 72.2 108.4





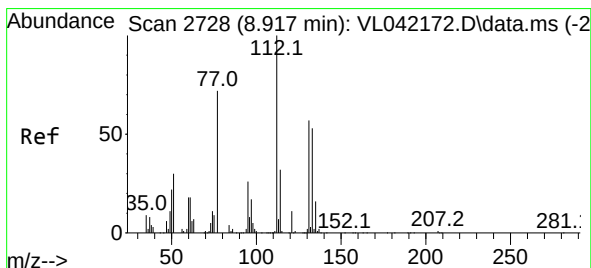
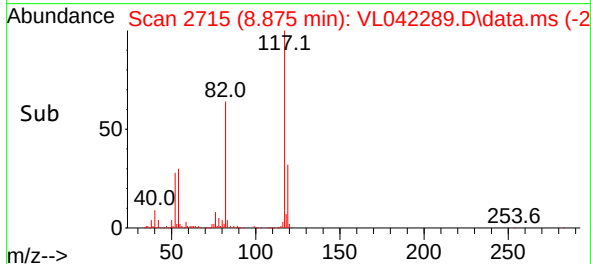
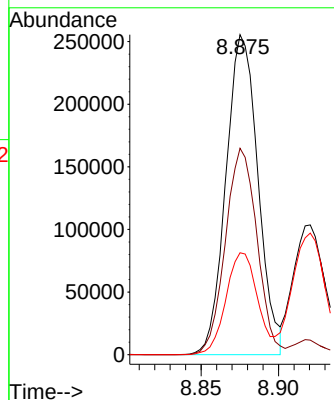
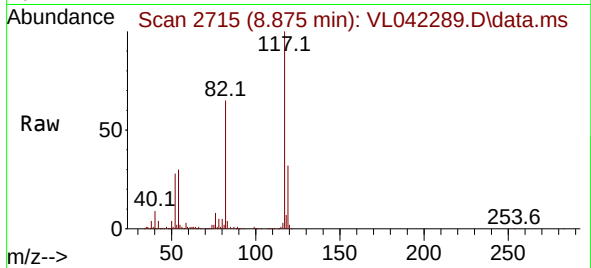
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Instrument :
MSVOA_L
ClientSampleId :
VL0409ABS02

Tgt Ion:117 Resp: 36848
Ion Ratio Lower Upper
117 100
82 67.9 55.8 83.6
119 31.8 25.5 38.3

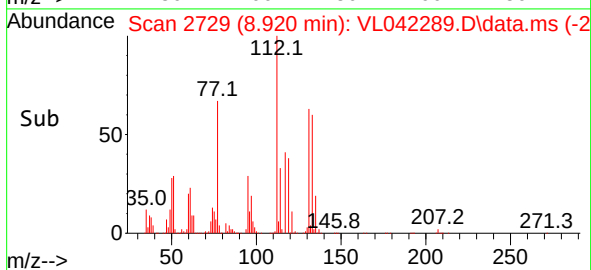
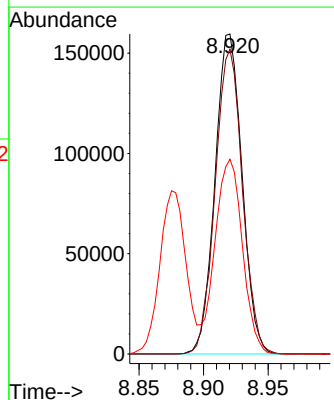
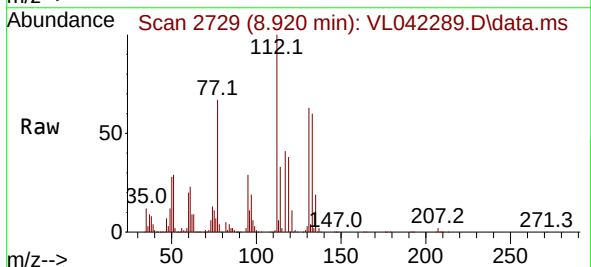
Manual Integrations
APPROVED

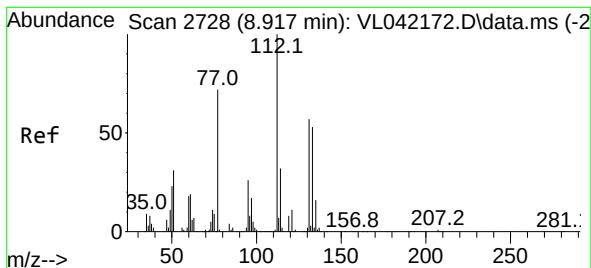
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#56
1,1,1,2-Tetrachloroethane
Concen: 11.465 ppbv
RT: 8.920 min Scan# 2729
Delta R.T. 0.003 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

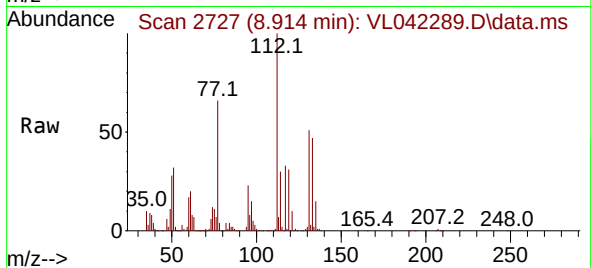
Tgt Ion:131 Resp: 232553
Ion Ratio Lower Upper
131 100
133 95.9 76.6 114.8
119 62.4 49.8 74.6





#57
Chlorobenzene
Concen: 11.372 ppbv
RT: 8.914 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

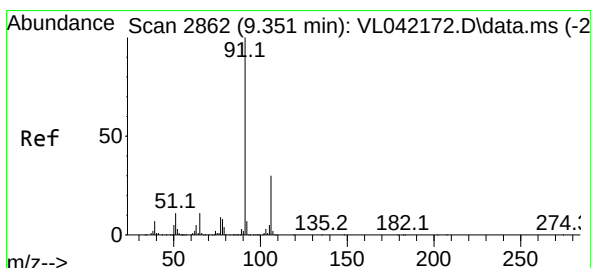
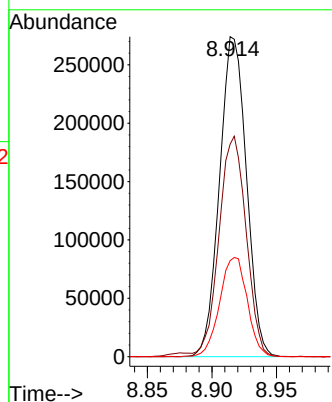
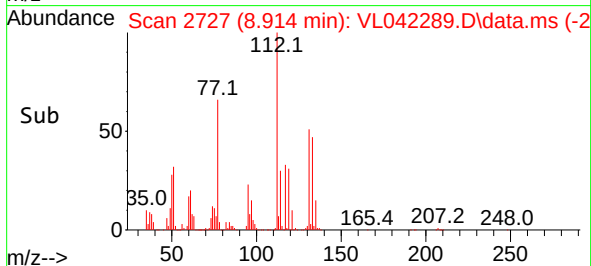
Instrument :
MSVOA_L
ClientSampleId :
VL0409ABS02



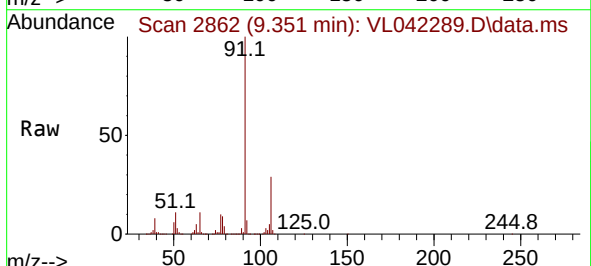
Tgt Ion:112 Resp: 397485
Ion Ratio Lower Upper
112 100
77 66.3 58.2 87.2
114 30.0 29.1 35.5

Manual Integrations
APPROVED

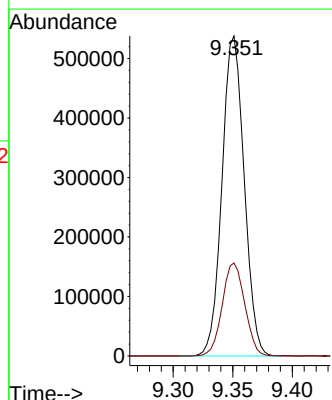
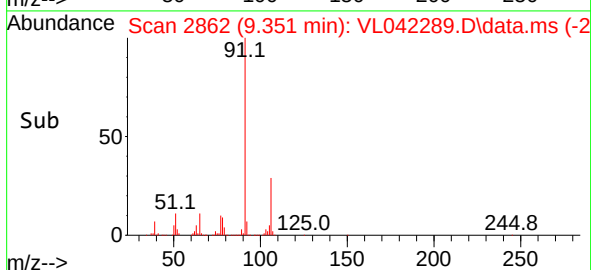
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

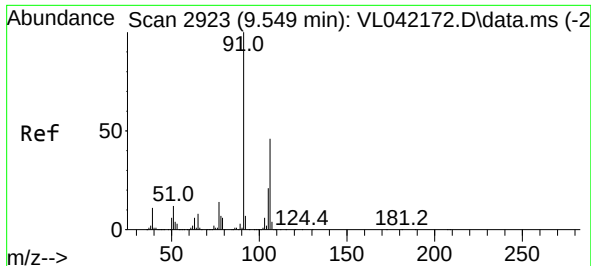


#58
Ethyl Benzene
Concen: 10.619 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31



Tgt Ion: 91 Resp: 695035
Ion Ratio Lower Upper
91 100
106 29.0 24.2 36.2





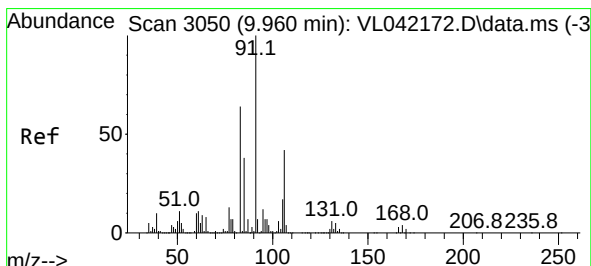
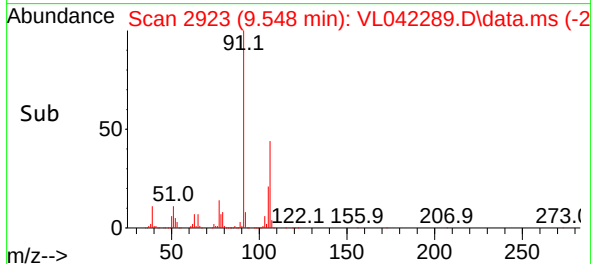
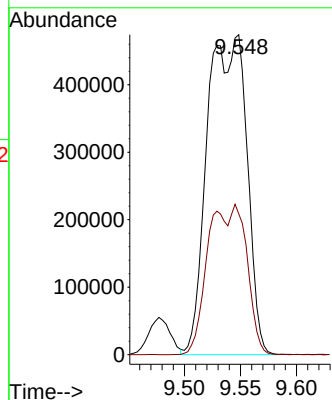
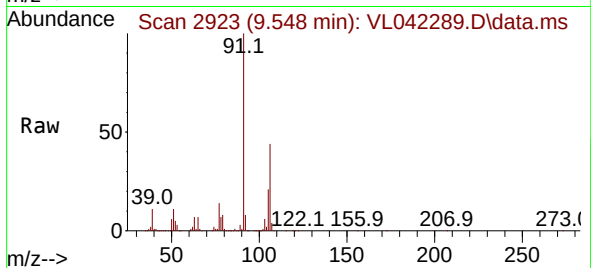
#59
m/p-Xylene
Concen: 22.239 ppbv m
RT: 9.548 min Scan# 2923
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Instrument :
MSVOA_L
ClientSampleId :
VL0409ABS02

Tgt Ion: 91 Resp: 116233
Ion Ratio Lower Upper
91 100
106 46.3 36.4 54.6

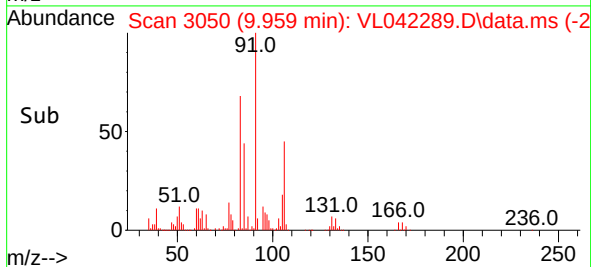
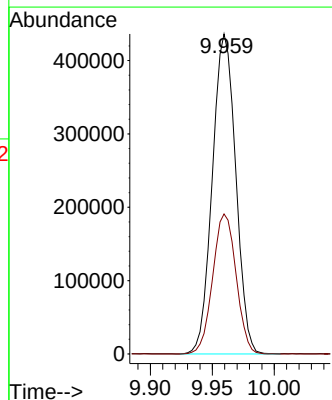
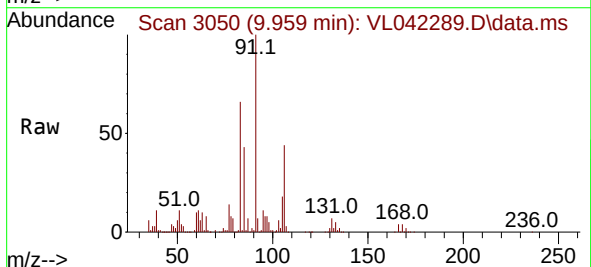
Manual Integrations
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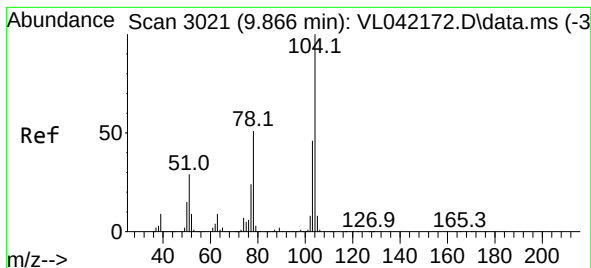
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#60
o-Xylene
Concen: 10.960 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 91 Resp: 574256
Ion Ratio Lower Upper
91 100
106 43.7 20.8 62.5





#61

Styrene

Concen: 9.967 ppbv

RT: 9.866 min Scan# 3021

Delta R.T. -0.000 min

Lab File: VL042289.D

Acq: 09 Apr 2025 12:31

Instrument :

MSVOA_L

ClientSampleId :

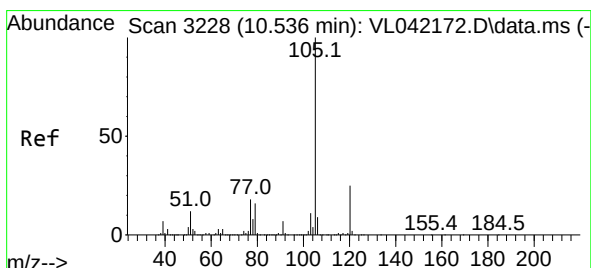
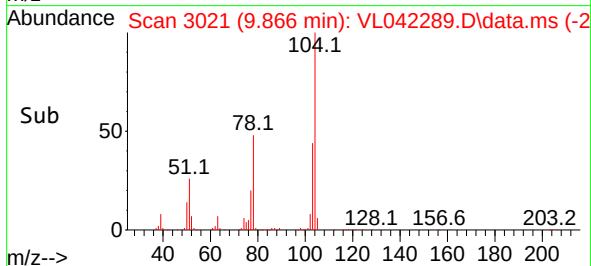
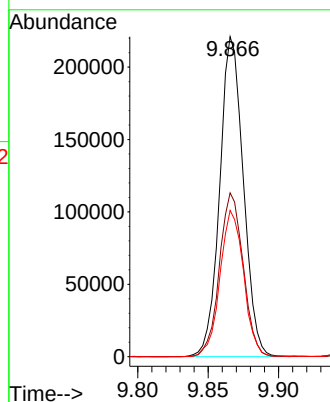
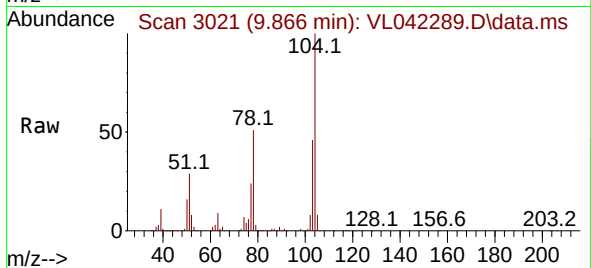
VL0409ABS02

Tgt Ion:104	Resp: 258350
Ion Ratio	Lower Upper
104 100	
78 51.6	41.8 62.6
103 45.9	37.0 55.4

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#62

Isopropylbenzene

Concen: 11.032 ppbv

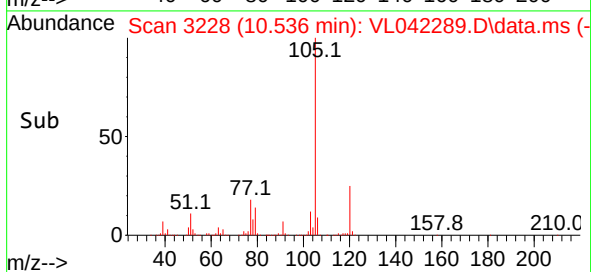
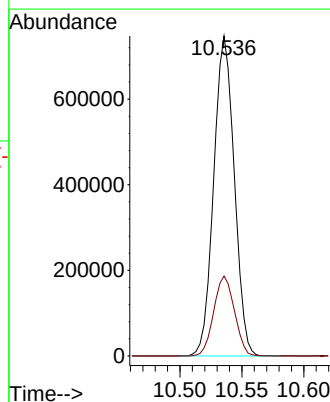
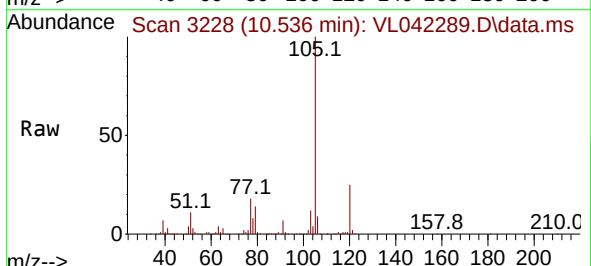
RT: 10.536 min Scan# 3228

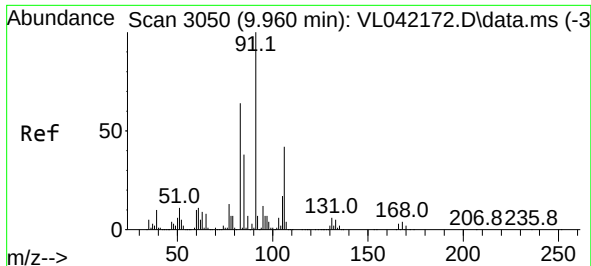
Delta R.T. -0.000 min

Lab File: VL042289.D

Acq: 09 Apr 2025 12:31

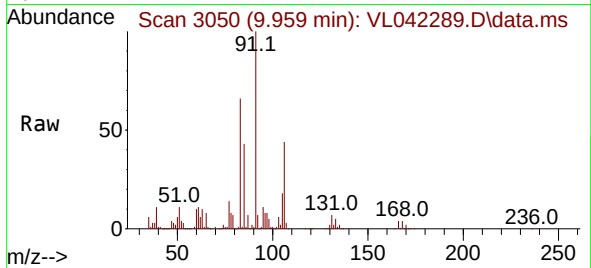
Tgt Ion:105	Resp: 864354
Ion Ratio	Lower Upper
105 100	
120 25.1	19.9 29.9





#63
1,1,2,2-Tetrachloroethane
Concen: 11.843 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

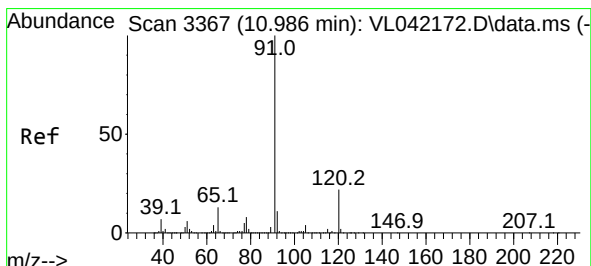
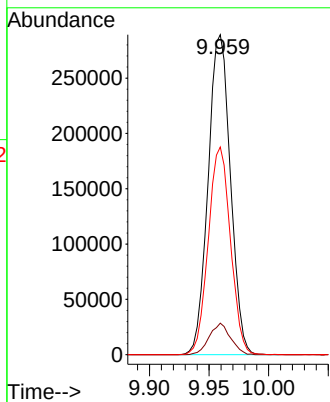
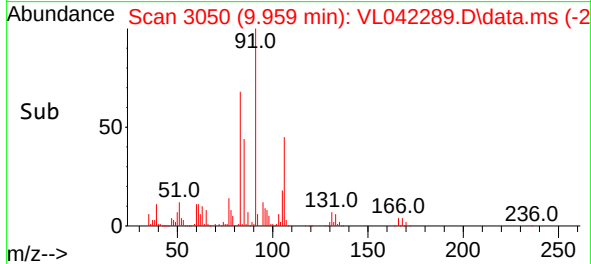
Instrument :
MSVOA_L
ClientSampleId :
VL0409ABS02



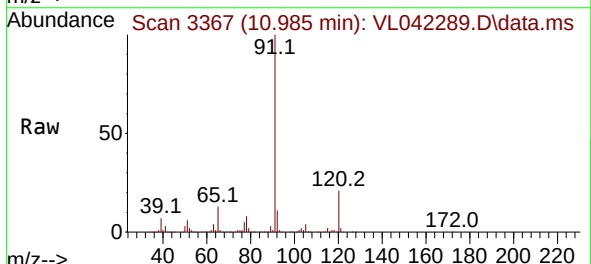
Tgt Ion: 83 Resp: 37700
Ion Ratio Lower Upper
83 100
131 9.4 4.8 14.4
85 64.5 32.5 97.5

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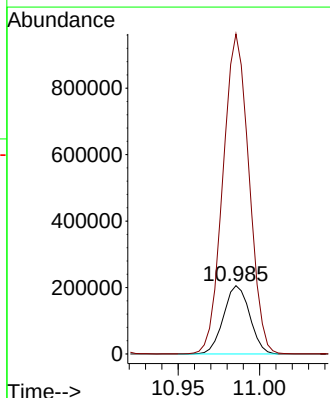
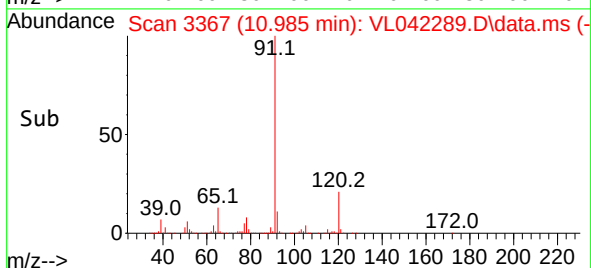
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

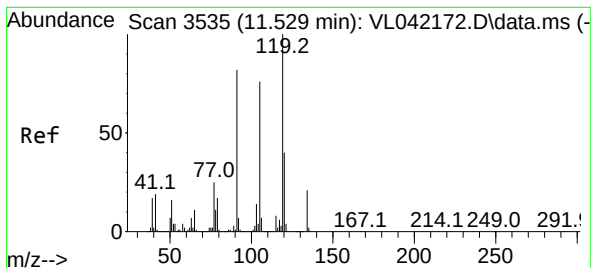


#64
n-propylbenzene
Concen: 11.331 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31



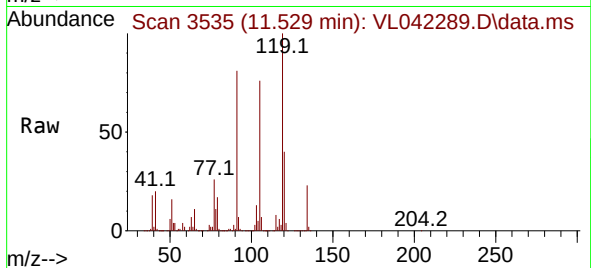
Tgt Ion:120 Resp: 228525
Ion Ratio Lower Upper
120 100
91 468.7 376.9 565.3





#65
tert-Butylbenzene
Concen: 10.909 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

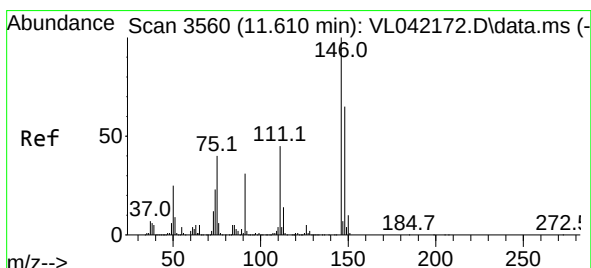
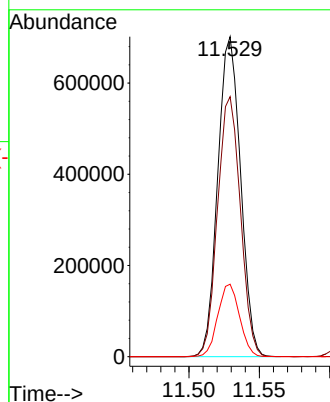
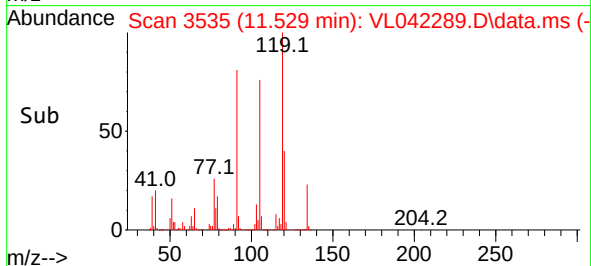
Instrument :
MSVOA_L
ClientSampleId :
VL0409ABS02



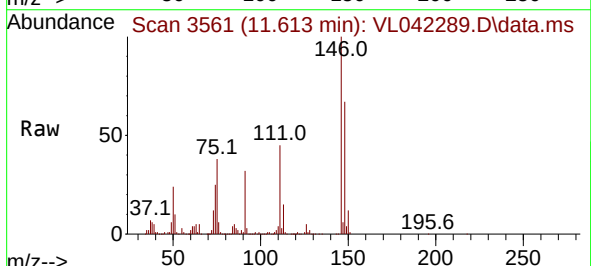
Tgt Ion: 119 Resp: 79046
Ion Ratio Lower Upper
119 100
91 81.4 66.0 99.0
134 21.6 16.7 25.1

Manual Integrations
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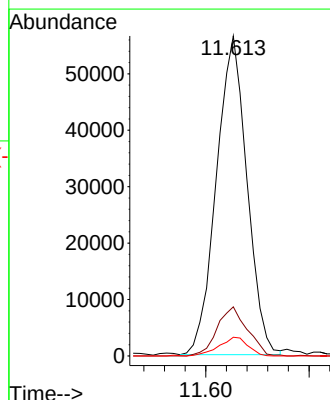
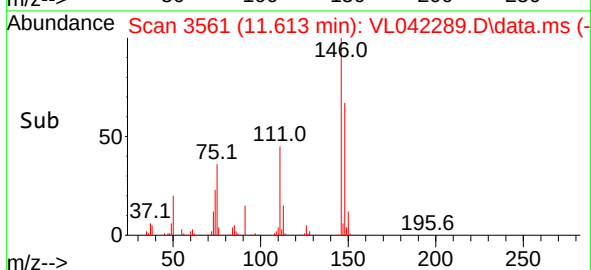
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

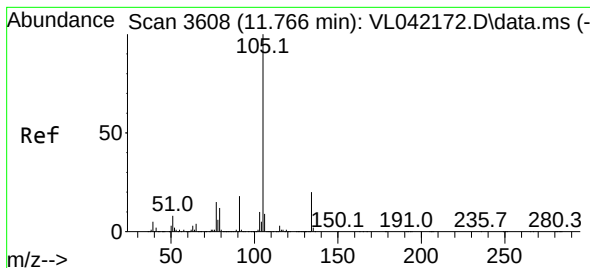


#66
Benzyl Chloride
Concen: 7.561 ppbv
RT: 11.613 min Scan# 3561
Delta R.T. 0.003 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31



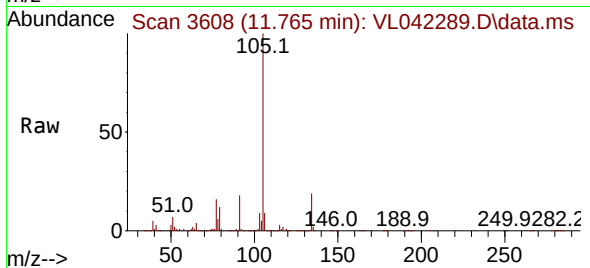
Tgt Ion: 91 Resp: 58131
Ion Ratio Lower Upper
91 100
126 15.2 13.8 20.6
128 5.6 4.5 6.7





#67
sec-Butylbenzene
Concen: 11.161 ppbv
RT: 11.765 min Scan# 3608
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

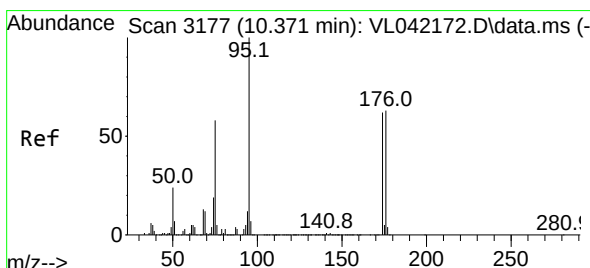
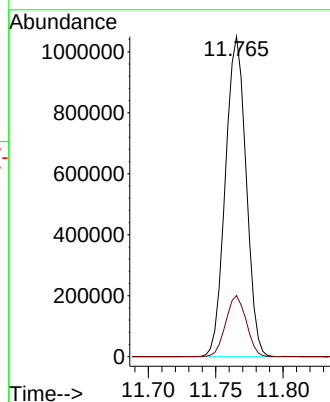
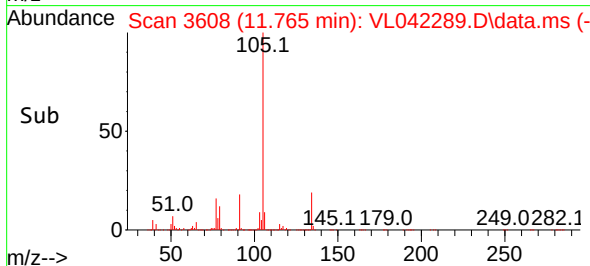
Instrument :
MSVOA_L
ClientSampleId :
VL0409ABS02



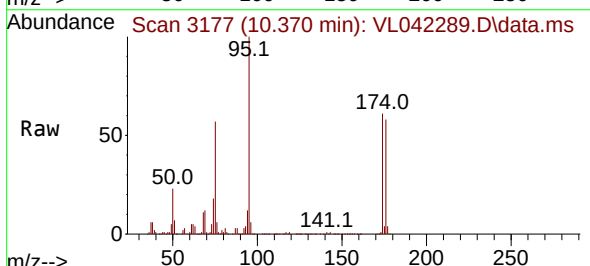
Tgt Ion:105 Resp: 1124090
Ion Ratio Lower Upper
105 100
134 19.0 15.5 23.3

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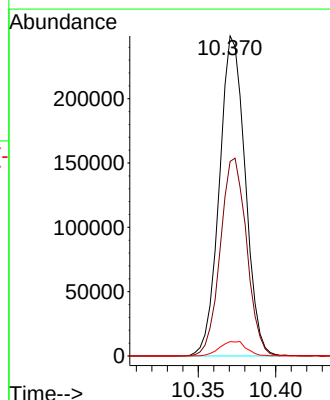
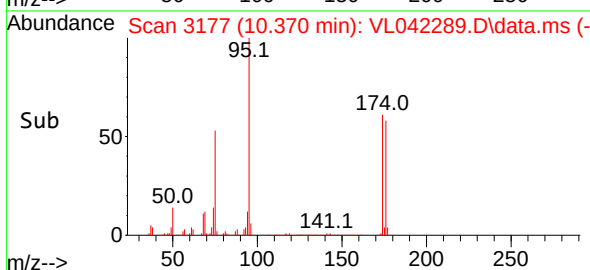
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

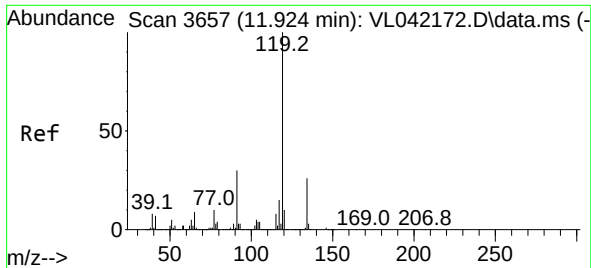


#68
1-Bromo-4-Fluorobenzene
Concen: 9.522 ppbv
RT: 10.370 min Scan# 3177
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31



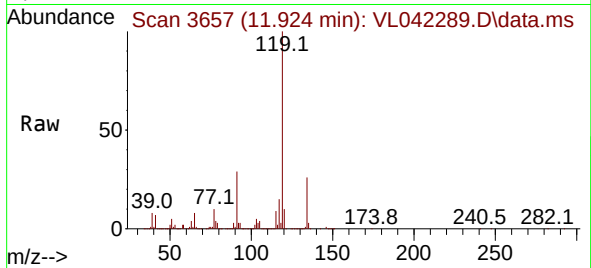
Tgt Ion: 95 Resp: 288141
Ion Ratio Lower Upper
95 100
174 63.2 50.6 76.0
175 4.7 3.8 5.6





#69
p-Isopropyltoluene
Concen: 10.954 ppbv
RT: 11.924 min Scan# 3657
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

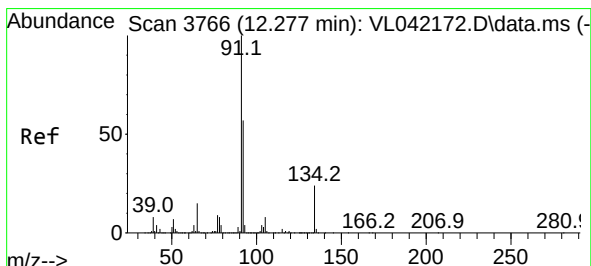
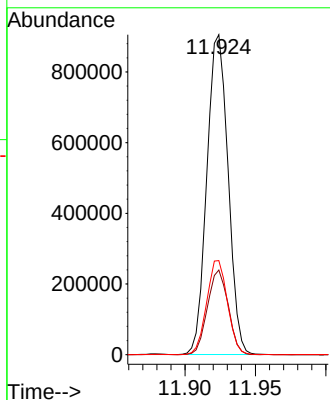
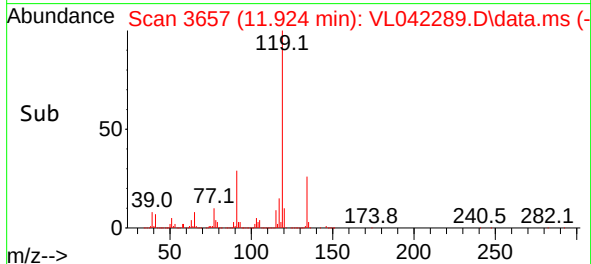
Instrument :
MSVOA_L
ClientSampleId :
VL0409ABS02



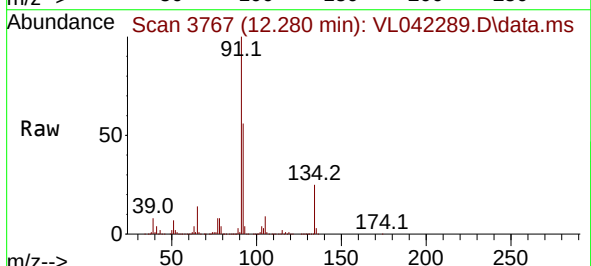
Tgt Ion: 119 Resp: 950025
Ion Ratio Lower Upper
119 100
134 25.9 20.4 30.6
91 29.1 23.7 35.5

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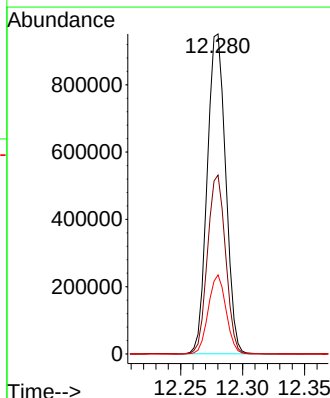
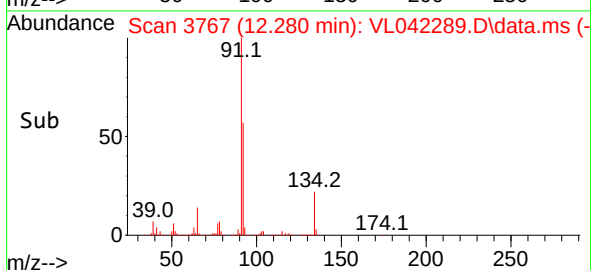
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

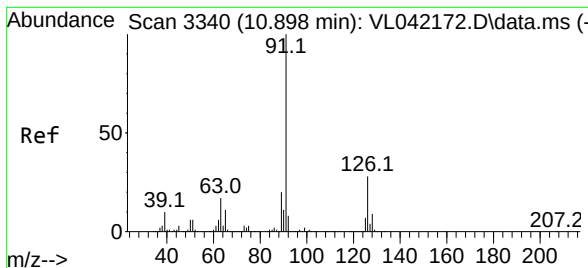


#70
n-Butylbenzene
Concen: 11.124 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. 0.003 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31



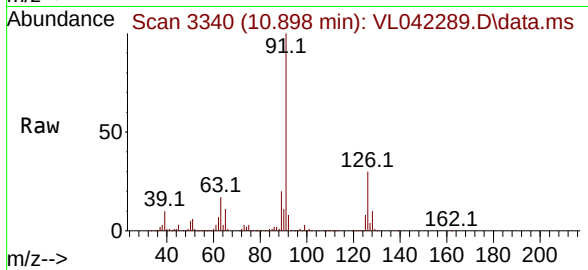
Tgt Ion: 91 Resp: 986632
Ion Ratio Lower Upper
91 100
92 54.9 44.9 67.3
134 23.8 19.2 28.8





#71
2-Chlorotoluene
Concen: 10.859 ppbv
RT: 10.898 min Scan# 31
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

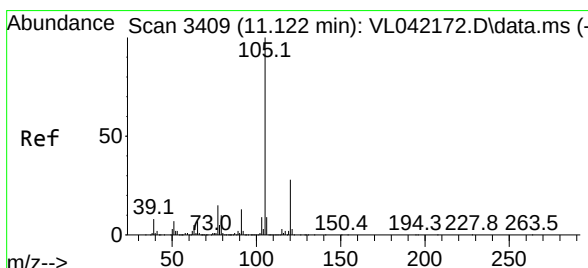
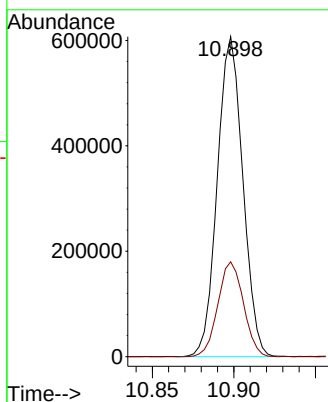
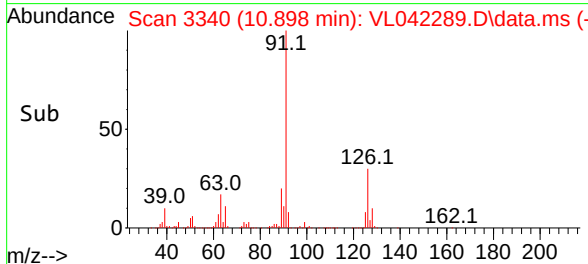
Instrument :
MSVOA_L
ClientSampleId :
VL0409ABS02



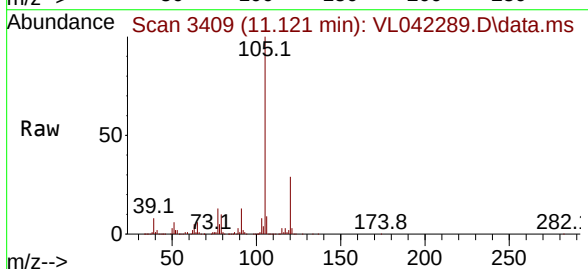
Tgt Ion: 91 Resp: 660340
Ion Ratio Lower Upper
91 100
126 29.7 11.6 46.4

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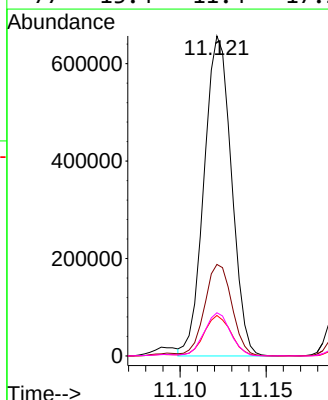
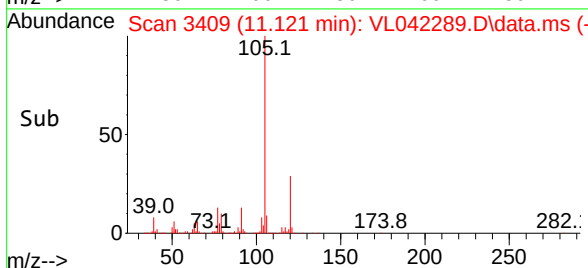
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

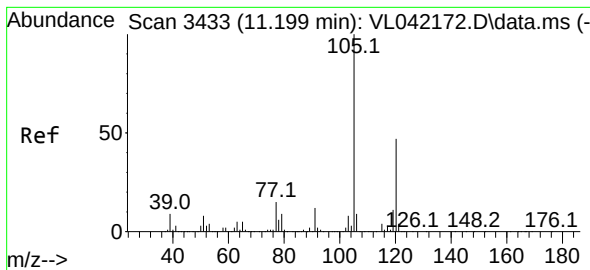


#72
4-Ethyltoluene
Concen: 11.142 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31



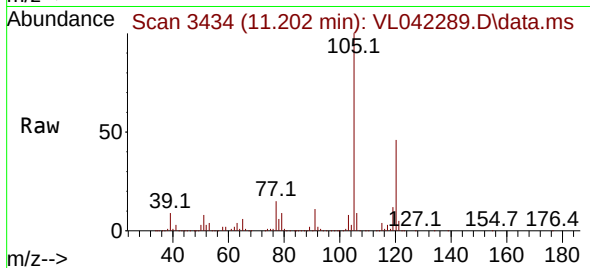
Tgt Ion:105 Resp: 726883
Ion Ratio Lower Upper
105 100
120 29.3 23.4 35.0
91 13.0 10.3 15.5
77 13.4 11.4 17.2





#73
 1,3,5-Trimethylbenzene
 Concen: 10.851 ppbv
 RT: 11.202 min Scan# 3434
 Delta R.T. 0.003 min
 Lab File: VL042289.D
 Acq: 09 Apr 2025 12:31

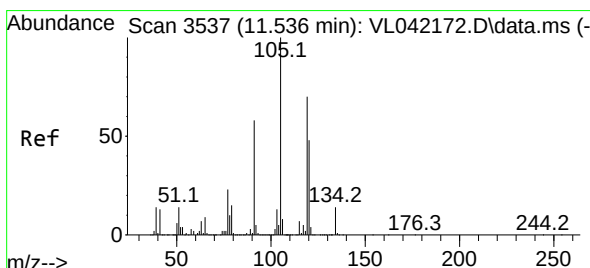
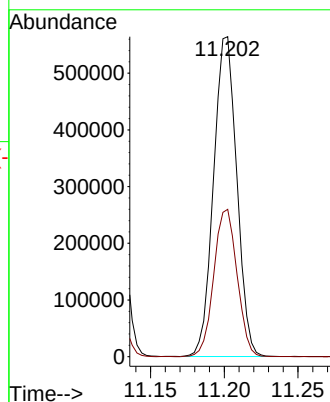
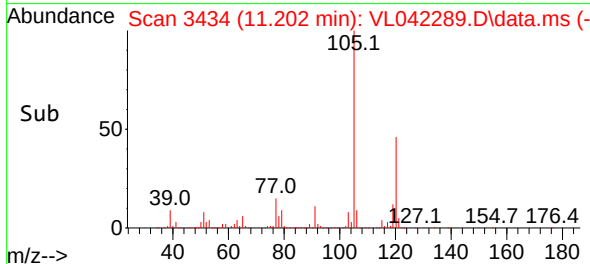
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0409ABS02



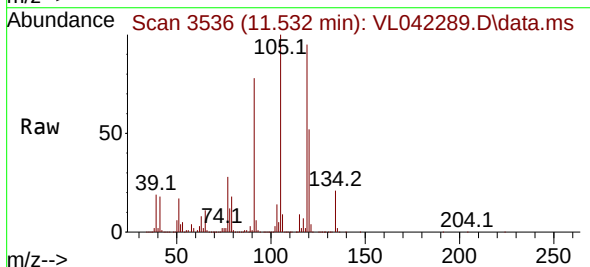
Tgt Ion:105 Resp: 618219
 Ion Ratio Lower Upper
 105 100
 120 46.0 37.4 56.0

Manual Integrations
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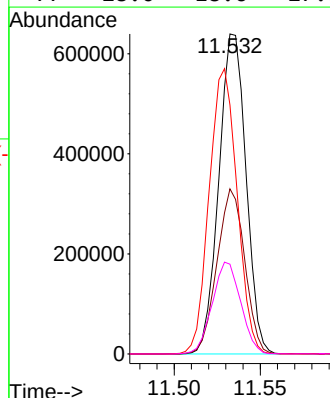
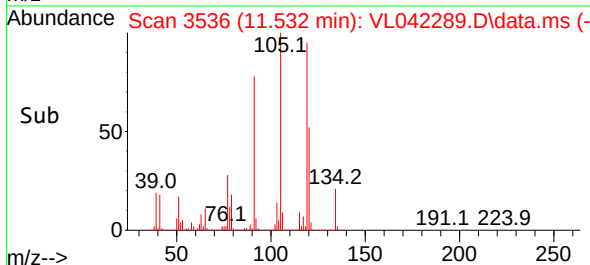
Reviewed By :Semsettin Yesilyurt 04/10/2025
 Supervised By :Mahesh Dadoda 04/10/2025

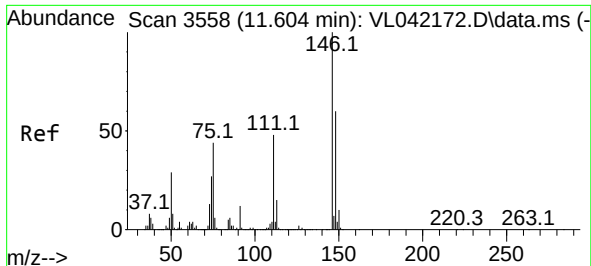


#74
 1,2,4-Trimethylbenzene
 Concen: 10.699 ppbv
 RT: 11.532 min Scan# 3536
 Delta R.T. -0.003 min
 Lab File: VL042289.D
 Acq: 09 Apr 2025 12:31



Tgt Ion:105 Resp: 702287
 Ion Ratio Lower Upper
 105 100
 120 51.6 38.6 58.0
 91 77.8 46.2 69.2#
 77 28.0 18.6 27.8#





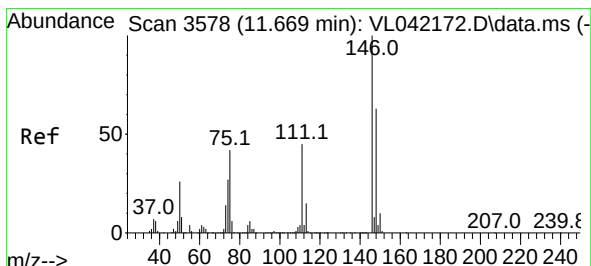
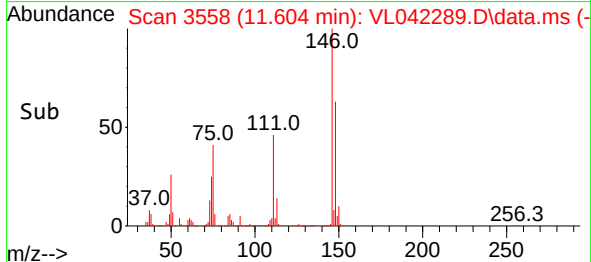
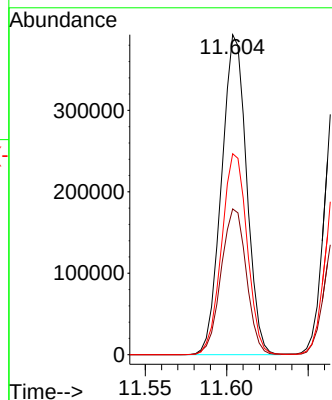
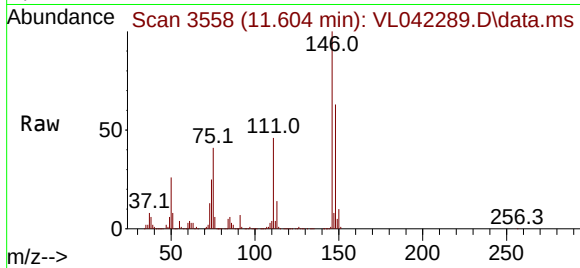
#75
1,3-Dichlorobenzene
Concen: 11.644 ppbv
RT: 11.604 min Scan# 3558
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Instrument :
MSVOA_L
ClientSampleId :
VL0409ABS02

Tgt Ion:146 Resp: 41916
Ion Ratio Lower Upper
146 100
111 46.1 23.8 71.2
148 64.0 31.9 95.9

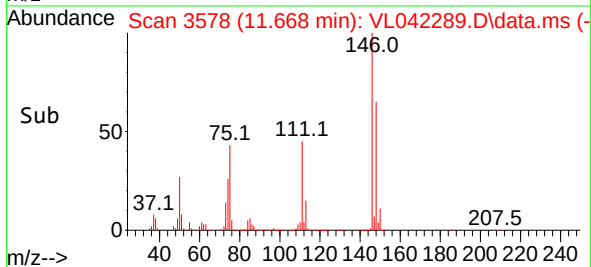
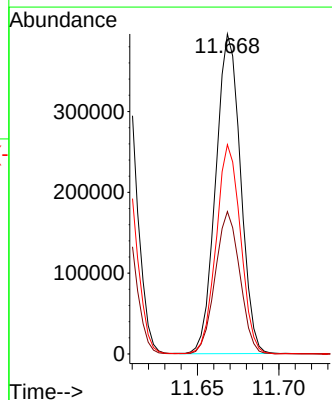
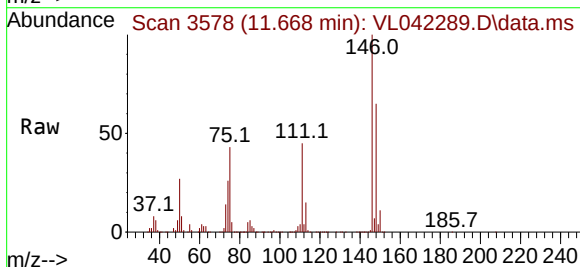
Manual Integrations
APPROVED

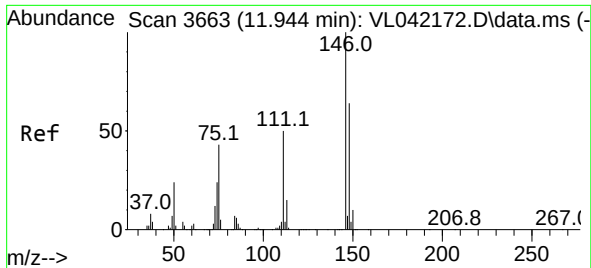
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#76
1,4-Dichlorobenzene
Concen: 11.660 ppbv
RT: 11.668 min Scan# 3578
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

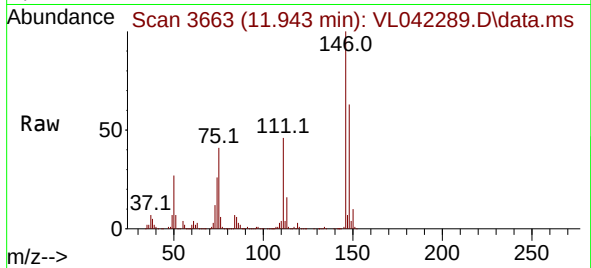
Tgt Ion:146 Resp: 417746
Ion Ratio Lower Upper
146 100
111 44.3 23.0 69.0
148 64.7 31.9 95.7





#77
1,2-Dichlorobenzene
Concen: 11.862 ppbv
RT: 11.943 min Scan# 3663
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

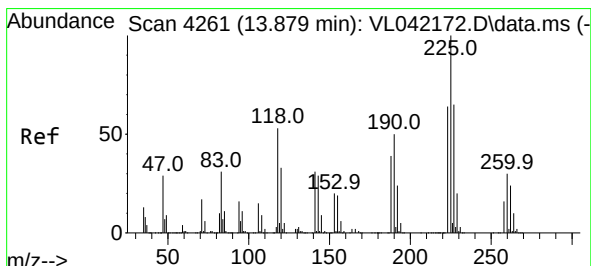
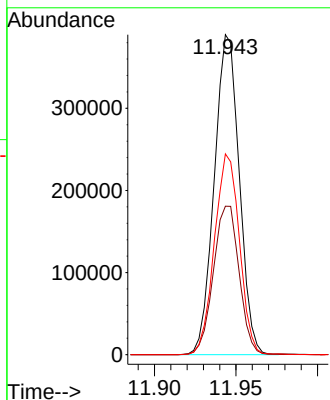
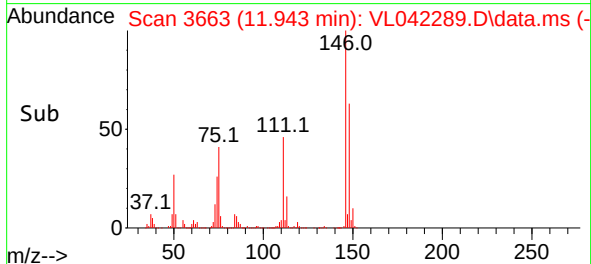
Instrument :
MSVOA_L
ClientSampleId :
VL0409ABS02



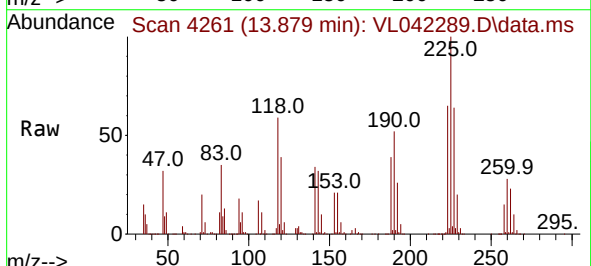
Tgt Ion:146 Resp: 415780
Ion Ratio Lower Upper
146 100
111 47.9 24.8 74.3
148 62.8 31.6 94.8

Manual Integrations
APPROVED

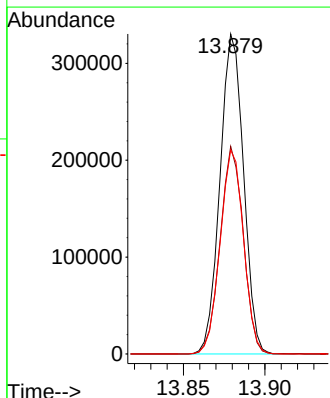
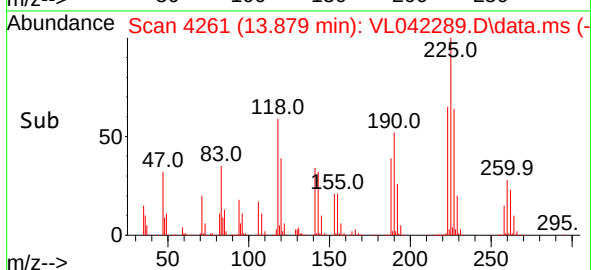
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

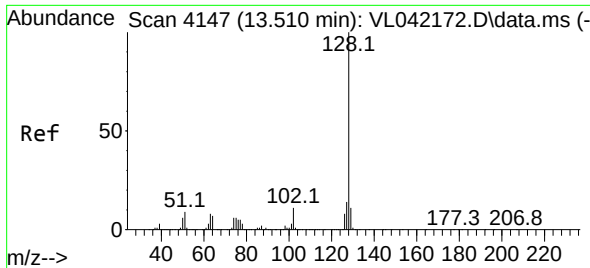


#78
Hexachloro-1,3-Butadiene
Concen: 9.302 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31



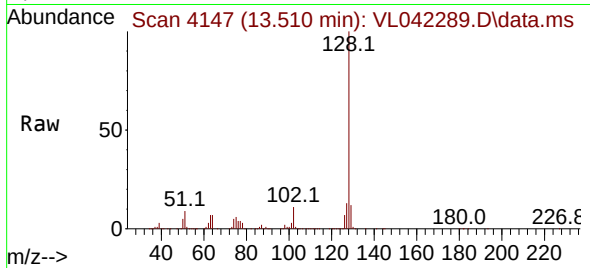
Tgt Ion:225 Resp: 331886
Ion Ratio Lower Upper
225 100
223 63.6 50.6 76.0
227 63.3 51.2 76.8





#79
Naphthalene
Concen: 11.288 ppbv
RT: 13.510 min Scan# 4147
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

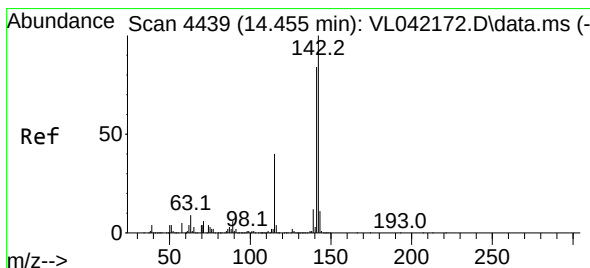
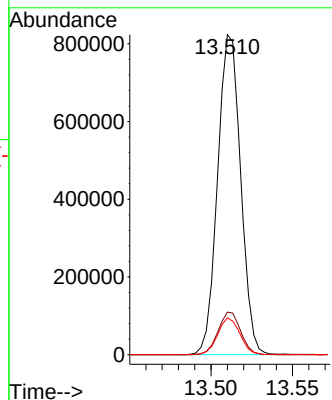
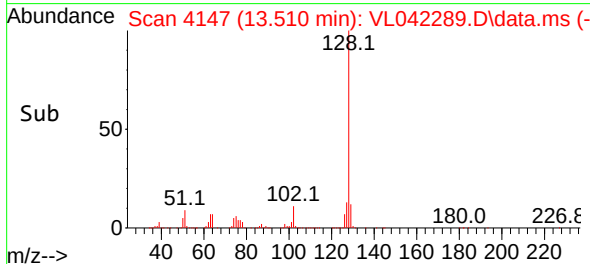
Instrument :
MSVOA_L
ClientSampleId :
VL0409ABS02



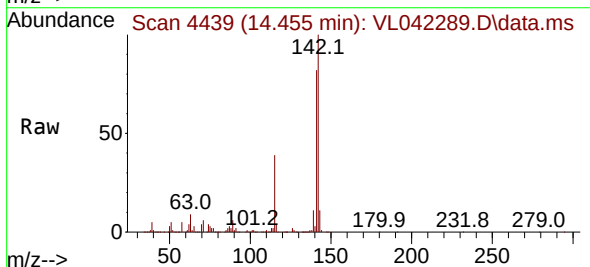
Tgt Ion:128 Resp: 81044
Ion Ratio Lower Upper
128 100
127 13.3 10.8 16.2
129 11.5 9.0 13.4

Manual Integrations
APPROVED

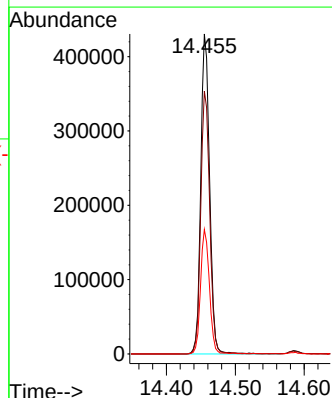
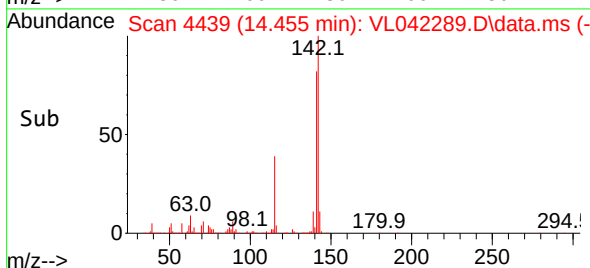
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

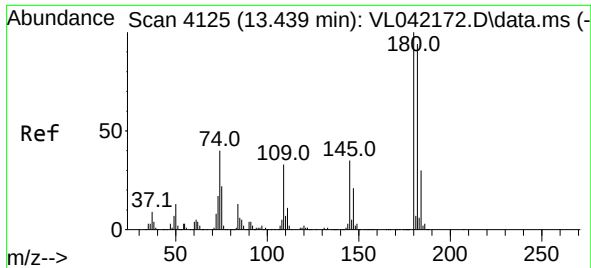


#80
Naphthalene,2-methyl-
Concen: 11.023 ppbv
RT: 14.455 min Scan# 4439
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31



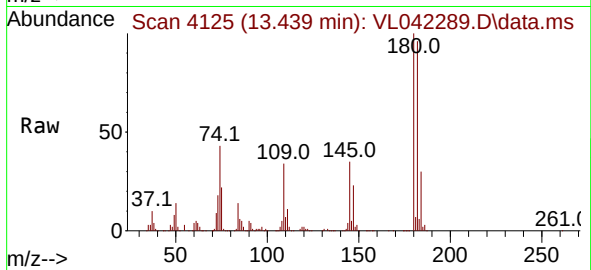
Tgt Ion:142 Resp: 388095
Ion Ratio Lower Upper
142 100
141 83.6 66.3 99.5
115 39.2 31.6 47.4





#81
 1,2,4-Trichlorobenzene
 Concen: 10.802 ppbv
 RT: 13.439 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VL042289.D
 Acq: 09 Apr 2025 12:31

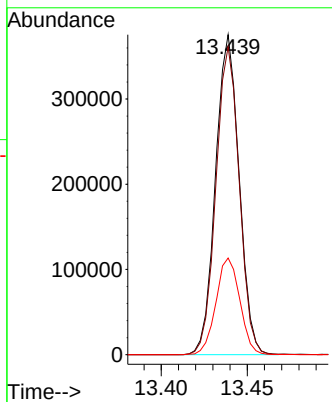
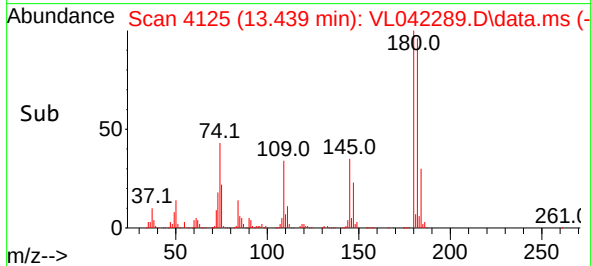
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0409ABS02



Tgt Ion:180 Resp: 35771
 Ion Ratio Lower Upper
 180 100
 182 95.3 75.1 112.7
 184 30.6 24.4 36.6

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/10/2025
 Supervised By :Mahesh Dadoda 04/10/2025



Report of Analysis

Client:	Woodard & Curran	Date Collected:	
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	
Client Sample ID:	VL0411ABS01	SDG No.:	Q1665
Lab Sample ID:	VL0411ABS01	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
VL042314.D	1		04/11/25 11:23	VL041125

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	9.90	49.0		1.04	2.47	ug/m3
74-87-3	Chloromethane	10.2	21.1		0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	8.70	22.2		0.030	0.080	ug/m3
74-83-9	Bromomethane	8.90	34.6		0.54	1.94	ug/m3
75-00-3	Chloroethane	9.30	24.5		0.45	1.32	ug/m3
109-99-9	Tetrahydrofuran	10.9	32.1		0.38	1.47	ug/m3
75-69-4	Trichlorofluoromethane	9.60	54.0		0.90	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	9.10	69.8		1.23	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	9.80	68.5		0.63	3.49	ug/m3
75-65-0	tert-Butyl alcohol	7.80	23.6		0.58	1.52	ug/m3
142-82-5	Heptane	9.90	40.6		0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	8.40	33.3		0.56	1.98	ug/m3
67-64-1	Acetone	9.20	21.9		0.57	1.19	ug/m3
75-15-0	Carbon Disulfide	8.80	27.4		0.50	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	7.90	28.5		0.43	1.80	ug/m3
75-09-2	Methylene Chloride	8.10	28.1		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	9.80	39.7		0.53	2.02	ug/m3
110-82-7	Cyclohexane	9.00	31.0		0.76	1.72	ug/m3
78-93-3	2-Butanone	11.3	33.3		0.35	1.47	ug/m3
56-23-5	Carbon Tetrachloride	11.2	70.5		0.060	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	9.20	36.5		0.36	1.98	ug/m3
67-66-3	Chloroform	10.5	51.3		0.39	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	8.80	48.0		0.050	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	11.4	53.3		0.47	2.34	ug/m3
71-43-2	Benzene	11.1	35.5		0.29	1.60	ug/m3
107-06-2	1,2-Dichloroethane	11.5	46.5		0.36	2.02	ug/m3
79-01-6	Trichloroethene	10.6	57.0		0.11	0.16	ug/m3
78-87-5	1,2-Dichloropropane	11.2	51.8		0.51	2.31	ug/m3
75-27-4	Bromodichloromethane	11.7	78.4		0.54	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	10.1	41.4		0.37	2.05	ug/m3
108-88-3	Toluene	10.1	38.1		0.41	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	8.30	37.7		0.27	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	9.20	41.8		0.27	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	11.7	63.8		0.38	2.73	ug/m3

Report of Analysis

Client:	Woodard & Curran	Date Collected:	
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	
Client Sample ID:	VL0411ABS01	SDG No.:	Q1665
Lab Sample ID:	VL0411ABS01	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
VL042314.D	1		04/11/25 11:23	VL041125

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	11.2	95.4		0.60	4.26	ug/m3
106-93-4	1,2-Dibromoethane	11.2	86.1		0.54	0.77	ug/m3
127-18-4	Tetrachloroethene	9.50	64.4		0.14	0.20	ug/m3
108-90-7	Chlorobenzene	12.5	57.6		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	24.2	105		0.91	4.34	ug/m3
95-47-6	o-Xylene	11.9	51.7		0.52	2.17	ug/m3
100-42-5	Styrene	10.5	44.7		0.47	2.13	ug/m3
75-25-2	Bromoform	11.3	117		0.62	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	13.2	90.7		0.070	0.21	ug/m3
95-49-8	2-Chlorotoluene	11.8	61.1		0.57	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	11.9	58.5		0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	11.9	58.5		0.39	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	12.8	77.0		0.48	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	12.9	77.6		0.30	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	13.2	79.4		0.48	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	10.8	80.2		0.67	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	9.80	105		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	10.9	57.1		0.42	0.52	ug/m3
622-96-8	4-Ethyltoluene	12.1	59.5		0.59	2.46	ug/m3
110-54-3	Hexane	10.0	35.2		0.39	1.76	ug/m3
107-05-1	Allyl Chloride	8.90	27.9		0.47	1.57	ug/m3
123-91-1	1,4-Dioxane	9.40	33.9		0.76	1.80	ug/m3
80-62-6	Methyl Methacrylate	9.50	38.9		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	178000		2.784			
540-36-3	1,4-Difluorobenzene	444000		3.955			
3114-55-4	Chlorobenzene-d5	386000		8.878			

Report of Analysis

Client:	Woodard & Curran	Date Collected:	
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	
Client Sample ID:	VL0411ABS01	SDG No.:	Q1665
Lab Sample ID:	VL0411ABS01	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
VL042314.D	1		04/11/25 11:23	VL041125

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
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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\VL041125\
 Data File : VL042314.D
 Acq On : 11 Apr 2025 11:23
 Operator : SY/MD
 Sample : VL0411ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0411ABS01

Quant Time: Apr 11 22:57:41 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 04/16/2025
 Supervised By : Mahesh Dadoda 04/17/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.784	49	178456	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	444353	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	386060	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	314180	9.910	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.100%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.496	85	260154	9.873	ppbv	99
3) Chlorodifluoromethane	1.473	51	278310	10.339	ppbv	99
4) Chloromethane	1.531	50	109906	10.207	ppbv	97
5) Vinyl Chloride	1.577	62	99540	8.723	ppbv	96
6) Bromomethane	1.667	94	43354	8.884	ppbv	99
7) Chloroethane	1.703	64	40372	9.340	ppbv	100
8) Dichlorotetrafluoroethane	1.551	85	219210	9.769	ppbv	94
9) Propene	1.483	41	109077	8.841	ppbv	98
10) Heptane	4.975	43	325268	9.912	ppbv	98
11) Trichlorofluoromethane	1.874	101	247344	9.647	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.136	101	191456	9.085	ppbv	97
13) Ethanol	1.719	45	4928	4.225	ppbv	95
14) Bromoethene	1.780	108	70702	8.758	ppbv	99
15) Acetone	1.832	43	228988	9.175	ppbv	95
16) 1,3-Butadiene	1.606	39	110429	9.060	ppbv	97
17) tert-Butyl alcohol	2.039	59	243034	7.818	ppbv	100
18) 1,1-Dichloroethene	2.030	96	83233	8.449	ppbv	97
19) Isopropyl Alcohol	1.884	45	118345	8.404	ppbv #	34
20) Methylene Chloride	2.059	84	75264	8.097	ppbv	93
21) Allyl Chloride	2.094	41	157261	8.934	ppbv	98
22) trans-1,2-Dichloroethene	2.337	96	98769	8.674	ppbv	96
23) Vinyl Acetate	2.460	43	86563	8.014	ppbv	98
24) 1,1-Dichloroethane	2.405	63	206840	9.800	ppbv	99
25) Ethyl Acetate	2.836	43	656719	10.138	ppbv	99
26) Hexane	2.823	57	249860	9.986	ppbv	98
27) Carbon Disulfide	2.146	76	236998	8.833	ppbv	99
28) Methyl tert-Butyl Ether	2.438	73	122818	7.884	ppbv	97
29) Chloroform	2.845	83	384713	10.506	ppbv	100
30) Cyclohexane	3.852	84	196133	9.028	ppbv	97
31) cis-1,2-Dichloroethene	2.719	61	233371	9.187	ppbv	97
32) 1,1,1-Trichloroethane	3.363	97	370405	8.836	ppbv	98
34) 2-Butanone	2.554	43	362633	11.254	ppbv	98
35) Carbon Tetrachloride	3.758	117	389738	11.228	ppbv	99
36) Benzene	3.654	78	490339	11.131	ppbv	96
37) 1,2-Dichloroethane	3.214	62	290983	11.538	ppbv	100
38) Trichloroethene	4.545	130	195654	10.645	ppbv	99
39) 1,2-Dichloropropane	4.312	63	179954	11.217	ppbv	91
40) 1,4-Dioxane	4.580	88	80106	9.408	ppbv #	83
41) Tetrahydrofuran	3.052	42	202793	10.930	ppbv	94
42) Bromodichloromethane	4.486	83	405729	11.669	ppbv	97
43) Methyl Methacrylate	4.875	69	177423	9.514	ppbv	98
44) 2,2,4-Trimethylpentane	4.635	57	850971	11.431	ppbv	97
45) t-1,3-Dichloropropene	6.412	75	166246	8.309	ppbv	93

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
 Data File : VL042314.D
 Acq On : 11 Apr 2025 11:23
 Operator : SY/MD
 Sample : VL0411ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0411ABS01

Quant Time: Apr 11 22:57:41 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

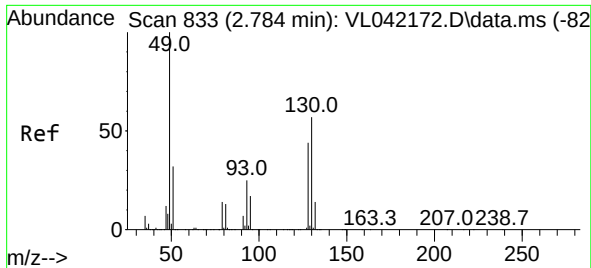
Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 04/16/2025
 Supervised By : Mahesh Dadoda 04/17/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.596	75	225952	9.213	ppbv	99
47) 1,1,2-Trichloroethane	6.580	97	198762	11.720	ppbv	97
48) Dibromochloromethane	7.383	129	321370	11.181	ppbv	100
49) Bromoform	9.480	173	291905	11.313	ppbv	99
50) 4-Methyl-2-Pentanone	5.749	43	514910	10.084	ppbv	95
51) 2-Hexanone	7.435	43	414681	9.889	ppbv #	94
52) Tetrachloroethene	8.221	164	165666	9.483	ppbv	96
53) Toluene	6.933	91	526341	10.079	ppbv	99
54) 1,2-Dibromoethane	7.649	107	264126	11.172	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.924	131	271061	12.755	ppbv	97
57) Chlorobenzene	8.921	112	457204	12.486	ppbv	96
58) Ethyl Benzene	9.354	91	761549	11.105	ppbv	98
59) m/p-Xylene	9.548	91	1323517m	24.171	ppbv	
60) o-Xylene	9.963	91	654791	11.929	ppbv	96
61) Styrene	9.869	104	284318	10.470	ppbv	98
62) Isopropylbenzene	10.539	105	975799	11.887	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.963	83	440972	13.222	ppbv	100
64) n-propylbenzene	10.989	120	264518	12.518	ppbv	96
65) tert-Butylbenzene	11.529	119	908946	11.973	ppbv	99
66) Benzyl Chloride	11.617	91	69548	8.634	ppbv	98
67) sec-Butylbenzene	11.765	105	1300090	12.320	ppbv	100
69) p-Isopropyltoluene	11.924	119	1095041	12.051	ppbv	98
70) n-Butylbenzene	12.280	91	1129853	12.159	ppbv	100
71) 2-Chlorotoluene	10.901	91	749737	11.768	ppbv	99
72) 4-Ethyltoluene	11.125	105	825037	12.071	ppbv	99
73) 1,3,5-Trimethylbenzene	11.202	105	711175	11.914	ppbv	99
74) 1,2,4-Trimethylbenzene	11.536	105	816505	11.873	ppbv	91
75) 1,3-Dichlorobenzene	11.607	146	484099	12.835	ppbv	98
76) 1,4-Dichlorobenzene	11.672	146	485460	12.933	ppbv	98
77) 1,2-Dichlorobenzene	11.947	146	485421	13.218	ppbv	98
78) Hexachloro-1,3-Butadiene	13.882	225	366850	9.814	ppbv	99
79) Naphthalene	13.513	128	820200	10.904	ppbv	100
80) Naphthalene,2-methyl-	14.455	142	274227	7.434	ppbv	98
81) 1,2,4-Trichlorobenzene	13.439	180	373404	10.762	ppbv	99

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



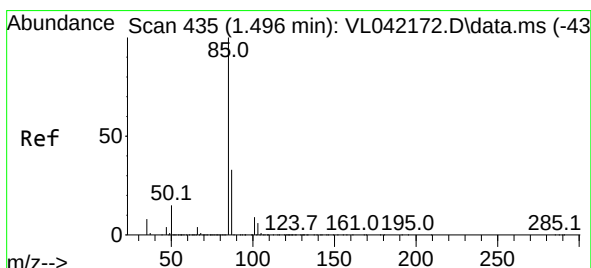
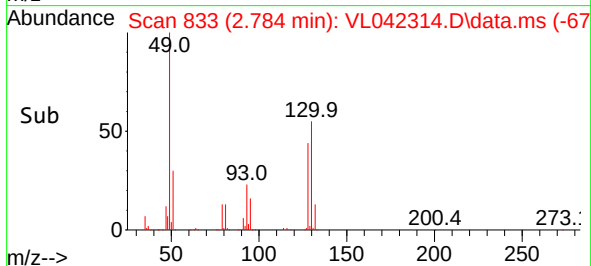
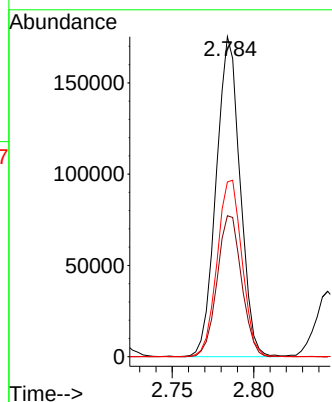
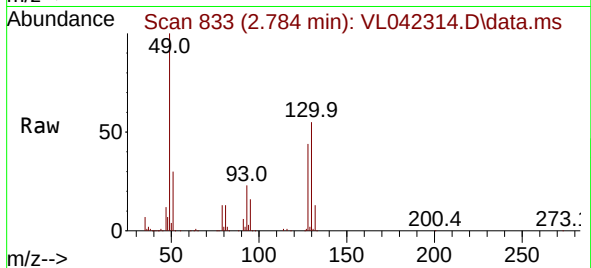
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 833
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Instrument :
MSVOA_L
ClientSampleId :
VL0411ABS01

Tgt Ion: 49 Resp: 178450
Ion Ratio Lower Upper
49 100
128 45.1 22.9 68.5
130 57.3 28.8 86.4

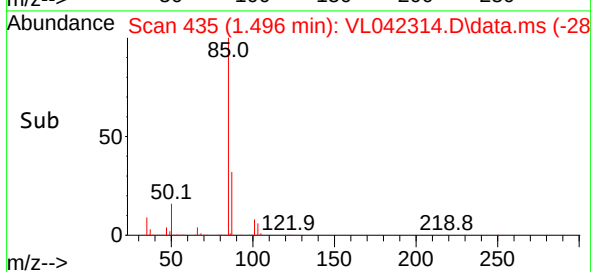
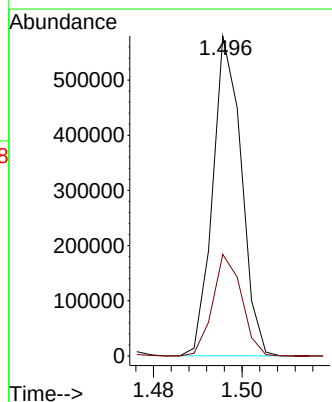
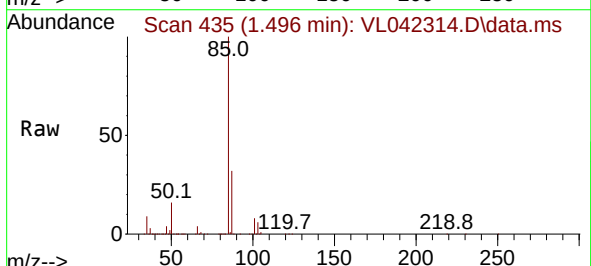
Manual Integrations
APPROVED

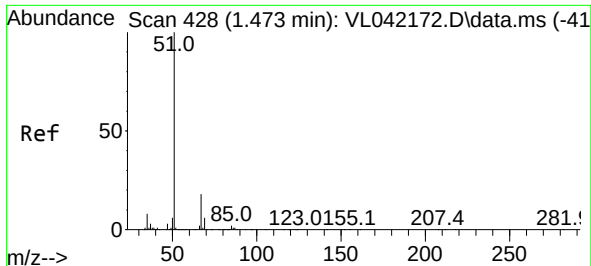
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#2
Dichlorodifluoromethane
Concen: 9.873 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

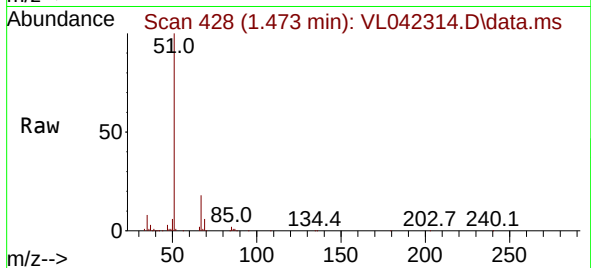
Tgt Ion: 85 Resp: 260154
Ion Ratio Lower Upper
85 100
87 31.8 26.1 39.1





#3
Chlorodifluoromethane
Concen: 10.339 ppbv
RT: 1.473 min Scan# 428
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

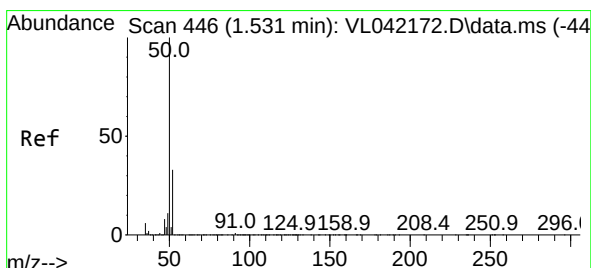
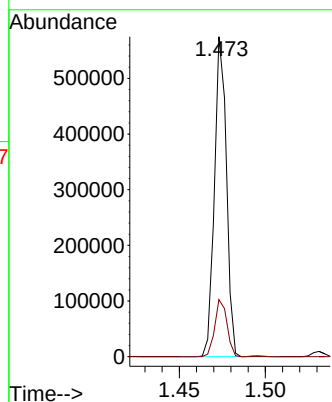
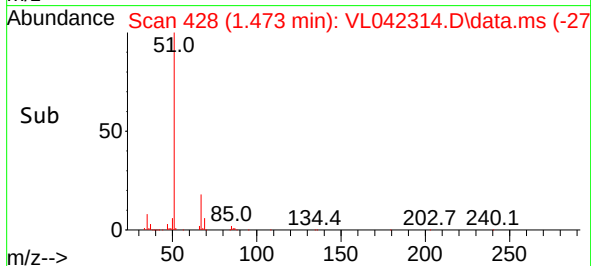
Instrument :
MSVOA_L
ClientSampleId :
VL0411ABS01



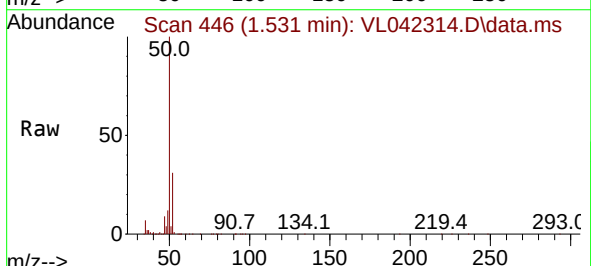
Tgt Ion: 51 Resp: 278310
Ion Ratio Lower Upper
51 100
67 18.2 15.0 22.6

Manual Integrations
APPROVED

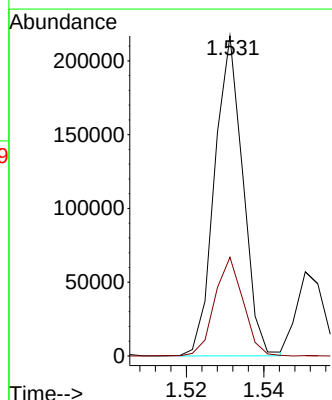
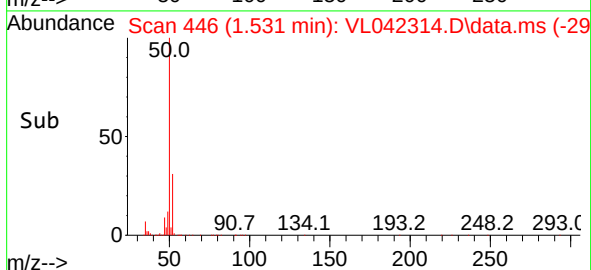
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

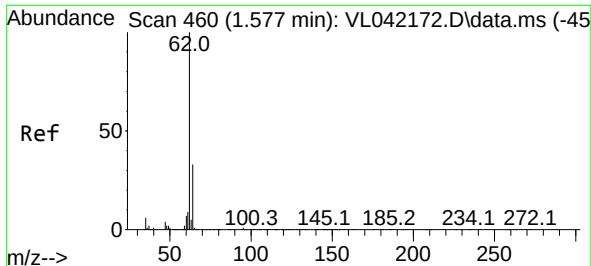


#4
Chloromethane
Concen: 10.207 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23



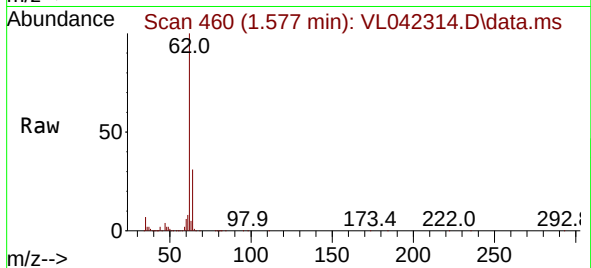
Tgt Ion: 50 Resp: 109906
Ion Ratio Lower Upper
50 100
52 30.8 26.1 39.1





#5
 Vinyl Chloride
 Concen: 8.723 ppbv
 RT: 1.577 min Scan# 40
 Delta R.T. -0.000 min
 Lab File: VL042314.D
 Acq: 11 Apr 2025 11:23

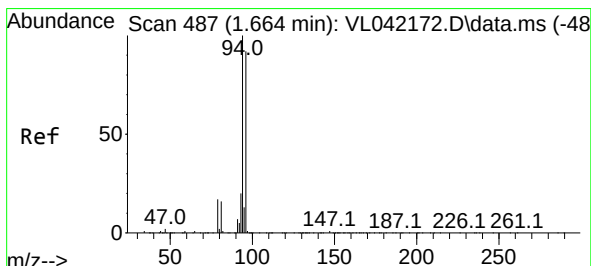
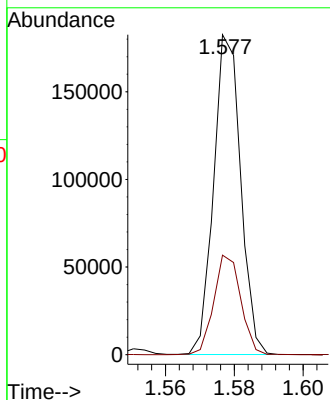
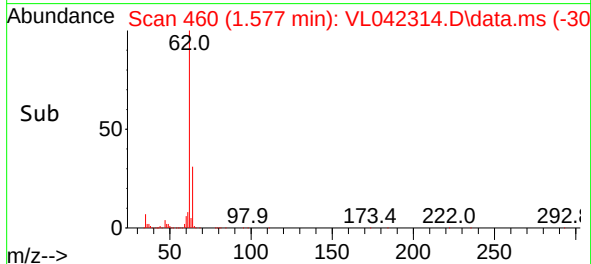
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0411ABS01



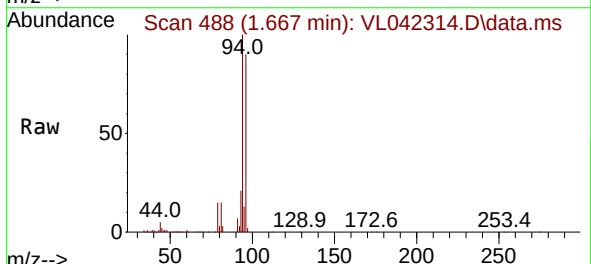
Tgt Ion: 62 Resp: 99540
 Ion Ratio Lower Upper
 62 100
 64 31.0 26.6 40.0

Manual Integrations
 APPROVED

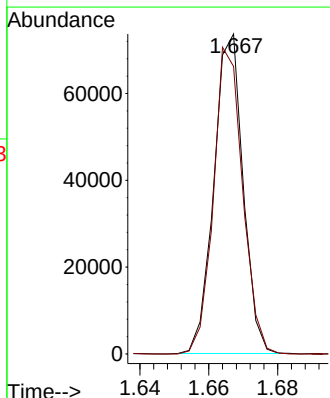
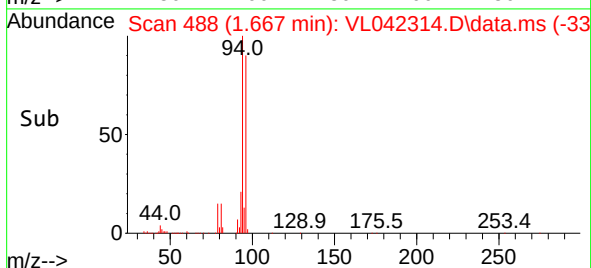
Reviewed By :Semsettin Yesilyurt 04/16/2025
 Supervised By :Mahesh Dadoda 04/17/2025

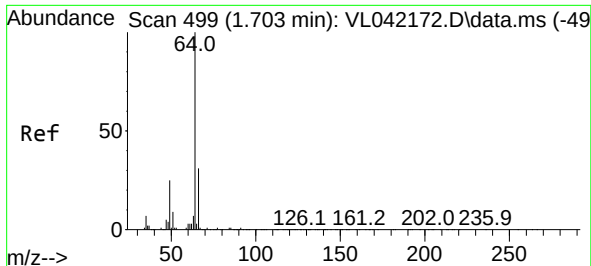


#6
 Bromomethane
 Concen: 8.884 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. 0.003 min
 Lab File: VL042314.D
 Acq: 11 Apr 2025 11:23



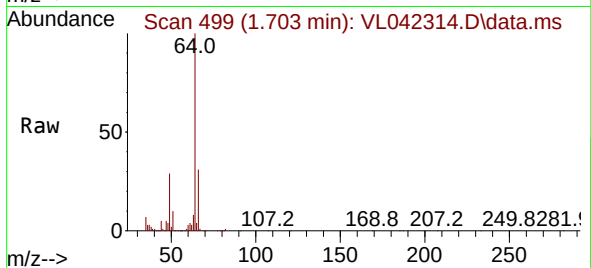
Tgt Ion: 94 Resp: 43354
 Ion Ratio Lower Upper
 94 100
 96 90.0 73.1 109.7





#7
Chloroethane
Concen: 9.340 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

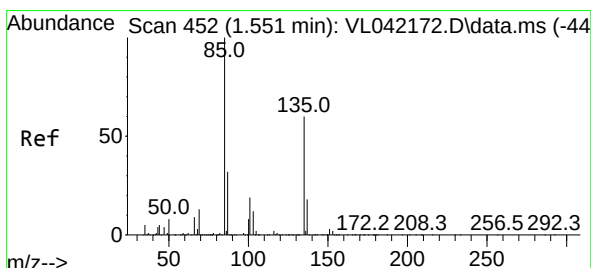
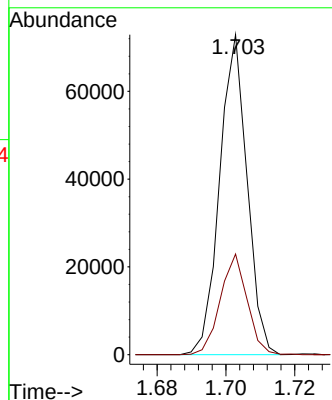
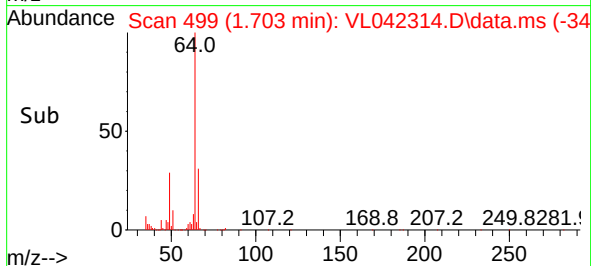
Instrument :
MSVOA_L
ClientSampleId :
VL0411ABS01



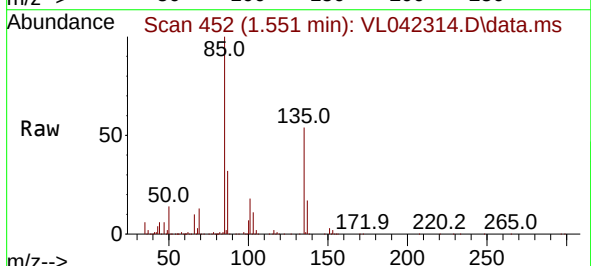
Tgt Ion: 64 Resp: 40372
Ion Ratio Lower Upper
64 100
66 31.5 25.2 37.8

Manual Integrations
APPROVED

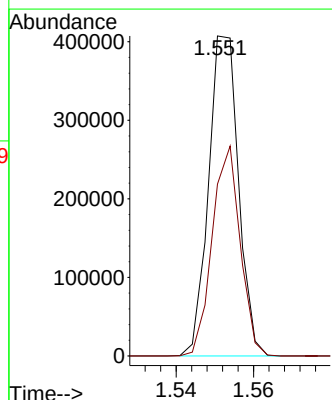
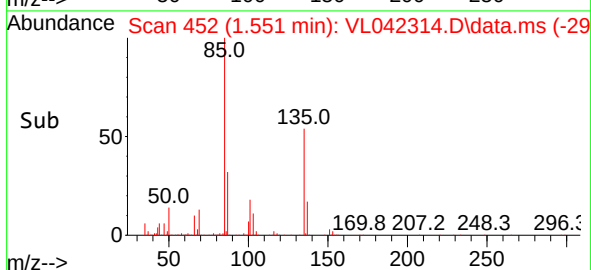
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

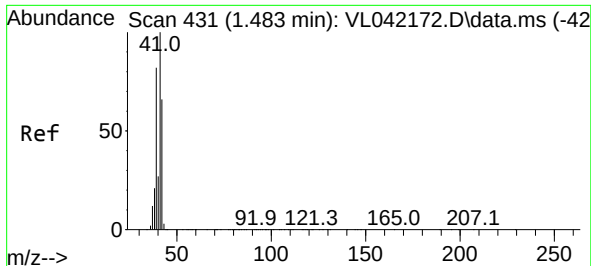


#8
Dichlorotetrafluoroethane
Concen: 9.769 ppbv
RT: 1.551 min Scan# 452
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23



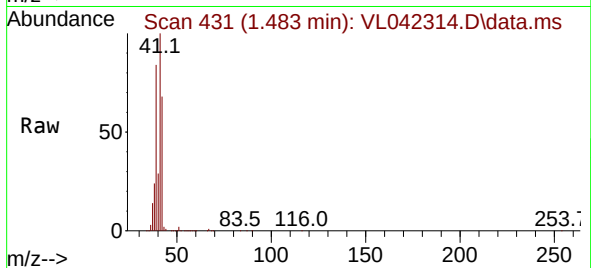
Tgt Ion: 85 Resp: 219210
Ion Ratio Lower Upper
85 100
135 61.1 52.4 78.6





#9
 Propene
 Concen: 8.841 ppbv
 RT: 1.483 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VL042314.D
 Acq: 11 Apr 2025 11:23

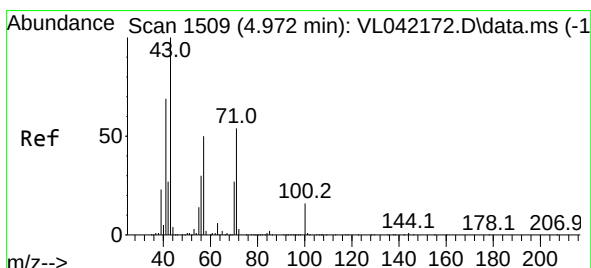
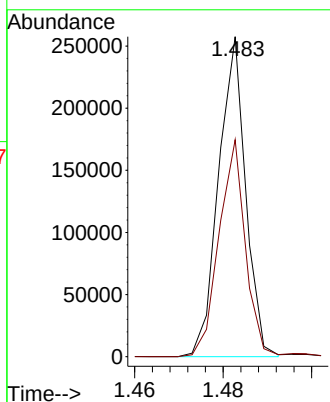
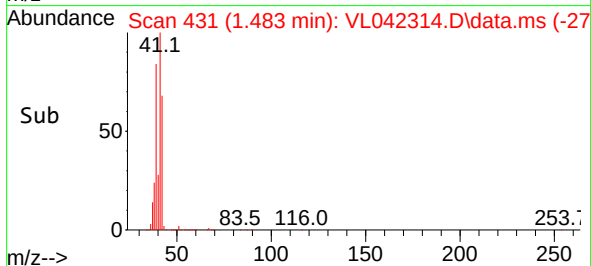
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0411ABS01



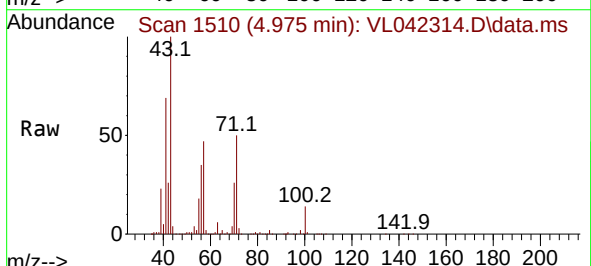
Tgt Ion: 41 Resp: 10907
 Ion Ratio Lower Upper
 41 100
 42 67.5 55.4 83.2

Manual Integrations
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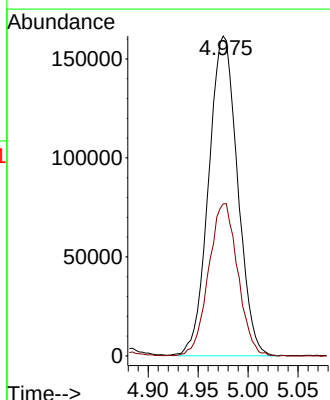
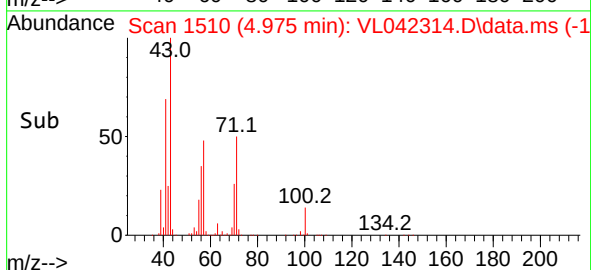
Reviewed By :Semsettin Yesilyurt 04/16/2025
 Supervised By :Mahesh Dadoda 04/17/2025

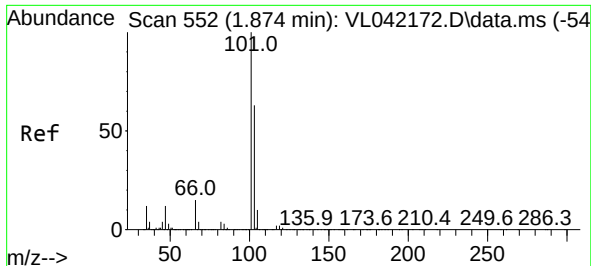


#10
 Heptane
 Concen: 9.912 ppbv
 RT: 4.975 min Scan# 1510
 Delta R.T. 0.003 min
 Lab File: VL042314.D
 Acq: 11 Apr 2025 11:23



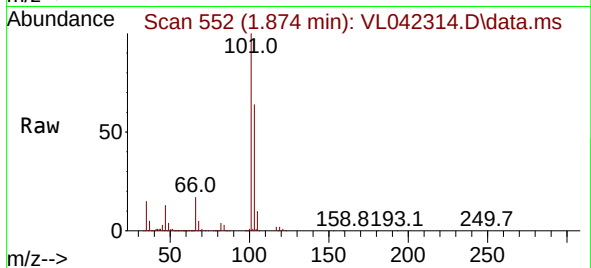
Tgt Ion: 43 Resp: 325268
 Ion Ratio Lower Upper
 43 100
 57 48.1 39.4 59.2





#11
 Trichlorofluoromethane
 Concen: 9.647 ppbv
 RT: 1.874 min Scan# 552
 Delta R.T. -0.000 min
 Lab File: VL042314.D
 Acq: 11 Apr 2025 11:23

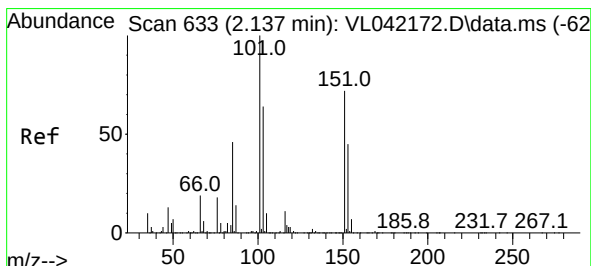
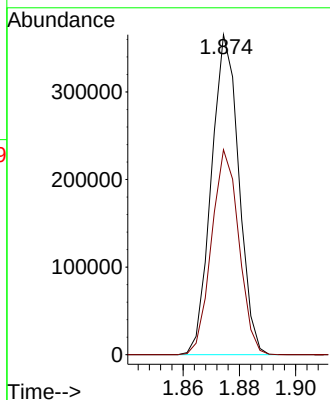
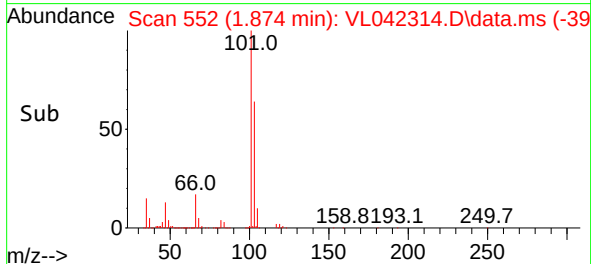
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0411ABS01



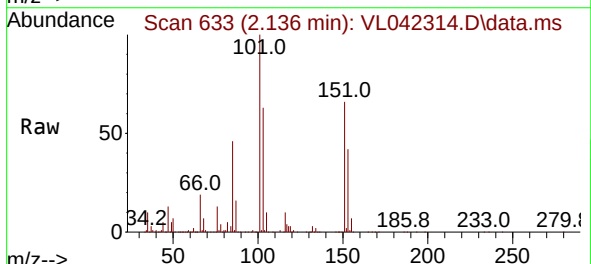
Tgt Ion:101 Resp: 247344
 Ion Ratio Lower Upper
 101 100
 103 64.0 50.2 75.2

Manual Integrations
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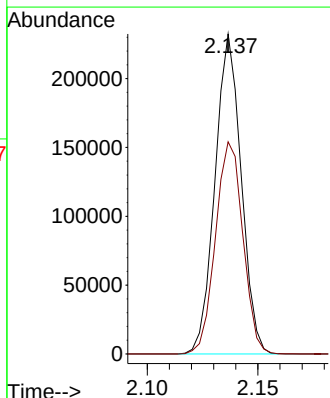
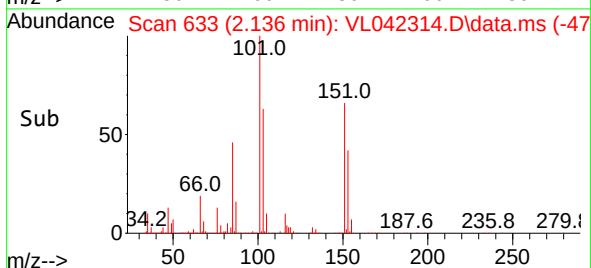
Reviewed By :Semsettin Yesilyurt 04/16/2025
 Supervised By :Mahesh Dadoda 04/17/2025

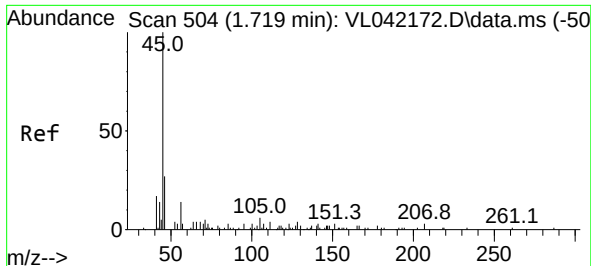


#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.085 ppbv
 RT: 2.136 min Scan# 633
 Delta R.T. -0.000 min
 Lab File: VL042314.D
 Acq: 11 Apr 2025 11:23



Tgt Ion:101 Resp: 191456
 Ion Ratio Lower Upper
 101 100
 151 69.3 57.1 85.7





#13

Ethanol

Concen: 4.225 ppbv

RT: 1.719 min Scan# 504

Delta R.T. -0.000 min

Lab File: VL042314.D

Acq: 11 Apr 2025 11:23

Instrument :

MSVOA_L

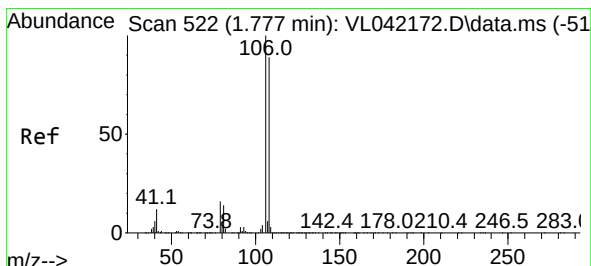
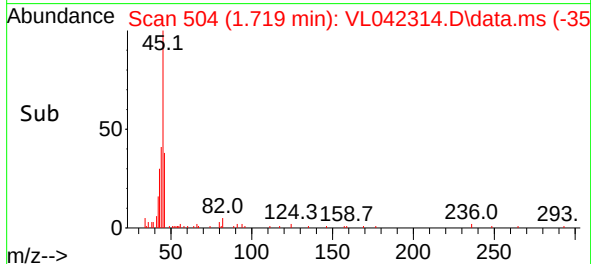
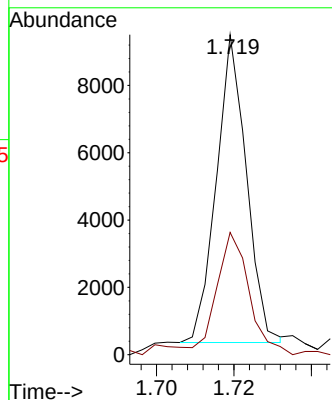
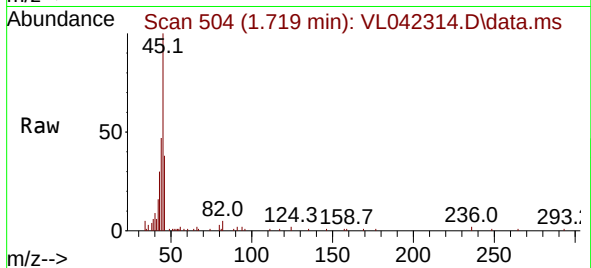
ClientSampleId :

VL0411ABS01

Tgt Ion: 45 Resp: 4928
 Ion Ratio Lower Upper
 45 100
 46 46.9 20.2 80.8

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/16/2025
 Supervised By :Mahesh Dadoda 04/17/2025



#14

Bromoethene

Concen: 8.758 ppbv

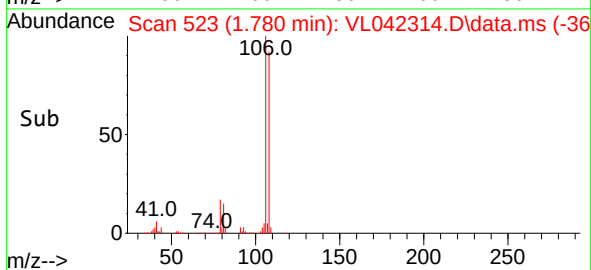
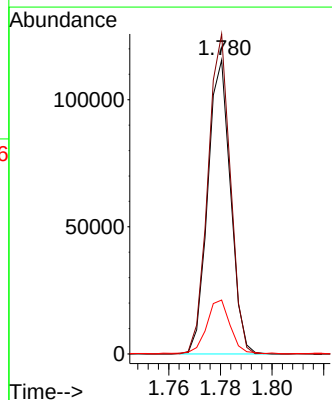
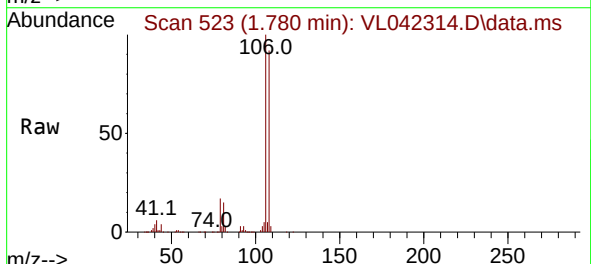
RT: 1.780 min Scan# 523

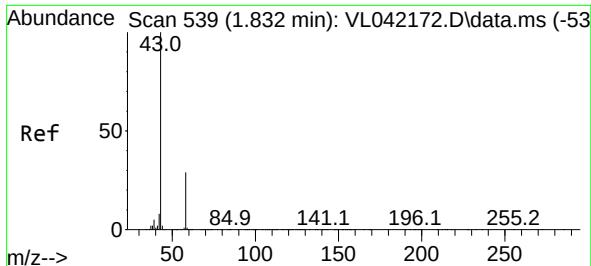
Delta R.T. 0.003 min

Lab File: VL042314.D

Acq: 11 Apr 2025 11:23

Tgt Ion:108 Resp: 70702
 Ion Ratio Lower Upper
 108 100
 106 107.1 86.8 130.2
 79 19.5 15.0 22.6





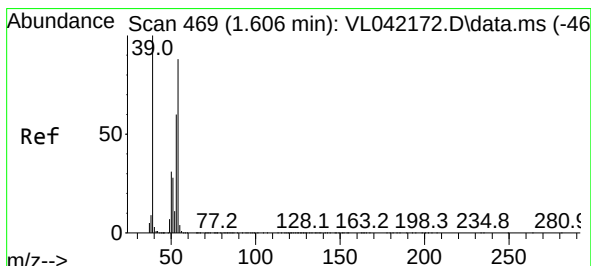
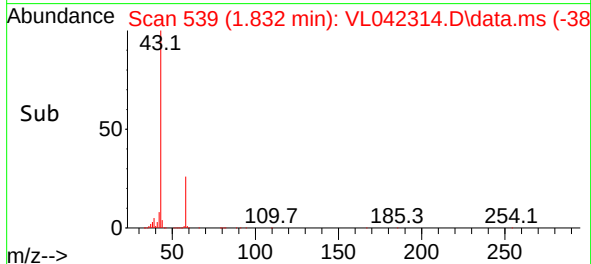
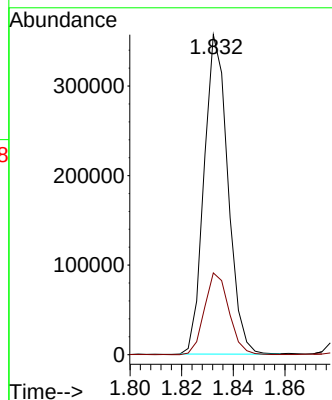
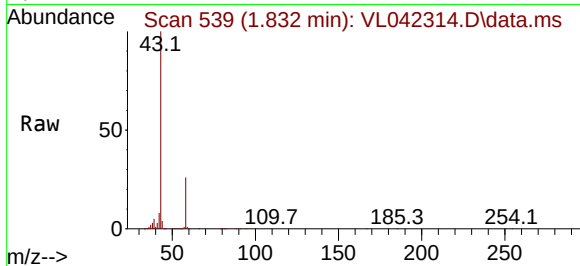
#15
Acetone
Concen: 9.175 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Instrument : MSVOA_L
ClientSampleId : VL0411ABS01

Tgt Ion: 43 Resp: 228988
Ion Ratio Lower Upper
43 100
58 26.3 23.2 34.8

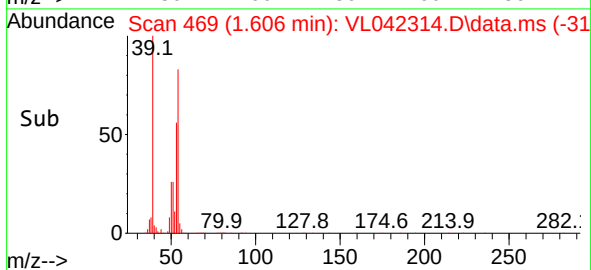
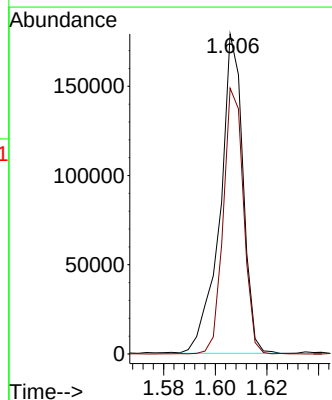
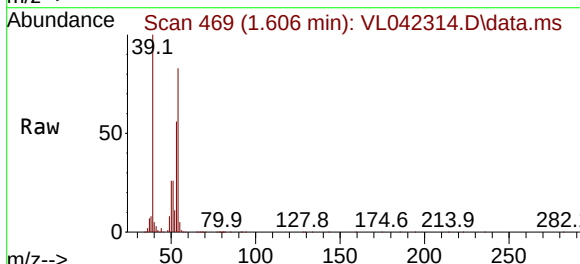
Manual Integrations
APPROVED

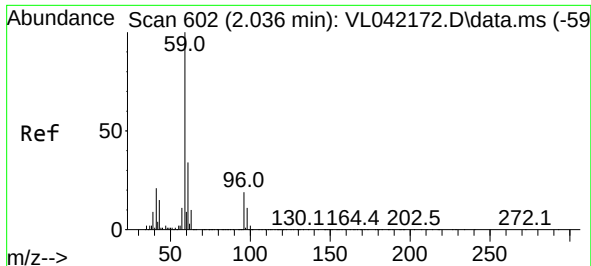
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#16
1,3-Butadiene
Concen: 9.060 ppbv
RT: 1.606 min Scan# 469
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 39 Resp: 110429
Ion Ratio Lower Upper
39 100
54 73.5 60.7 91.1





#17

tert-Butyl alcohol

Concen: 7.818 ppbv

RT: 2.039 min Scan# 602

Delta R.T. 0.003 min

Lab File: VL042314.D

Acq: 11 Apr 2025 11:23

Instrument :

MSVOA_L

ClientSampleId :

VL0411ABS01

Tgt Ion: 59 Resp: 243034

Ion Ratio Lower Upper

59 100

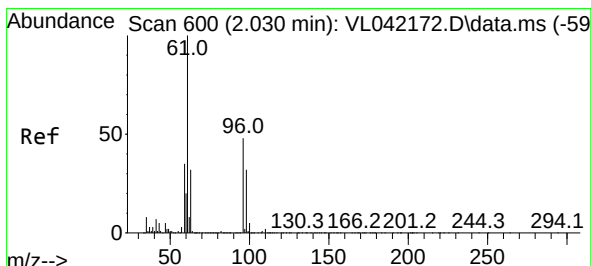
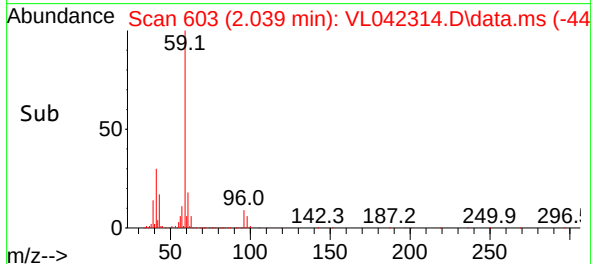
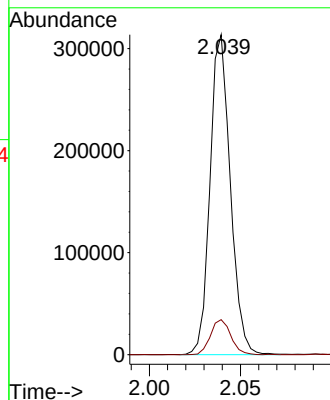
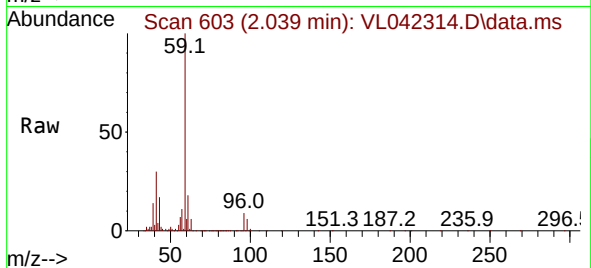
57 11.0 8.9 13.3

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/16/2025

Supervised By :Mahesh Dadoda 04/17/2025



#18

1,1-Dichloroethene

Concen: 8.449 ppbv

RT: 2.030 min Scan# 600

Delta R.T. -0.000 min

Lab File: VL042314.D

Acq: 11 Apr 2025 11:23

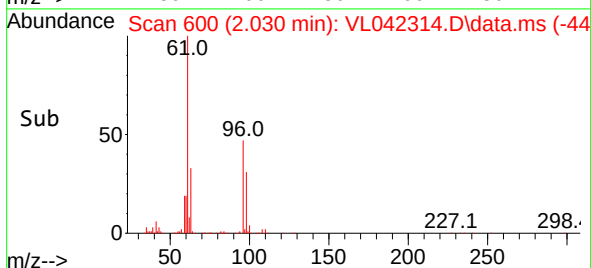
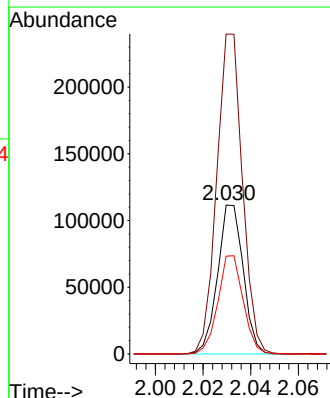
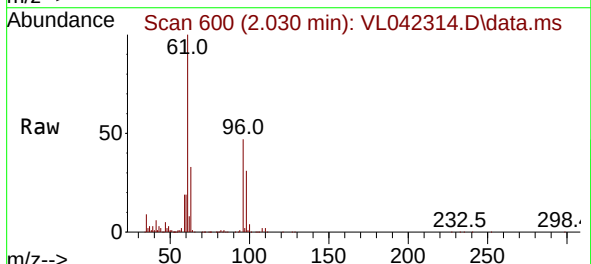
Tgt Ion: 96 Resp: 83233

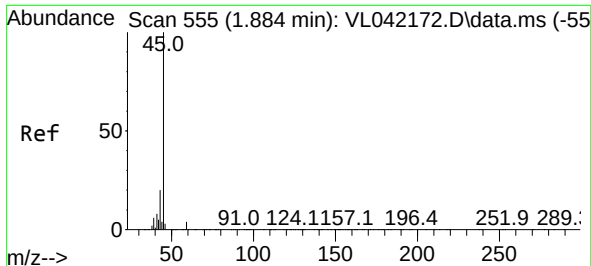
Ion Ratio Lower Upper

96 100

61 215.0 167.6 251.4

98 65.6 53.5 80.3





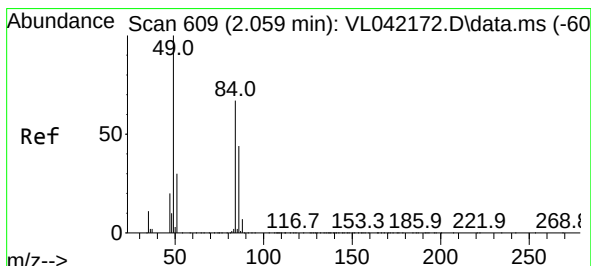
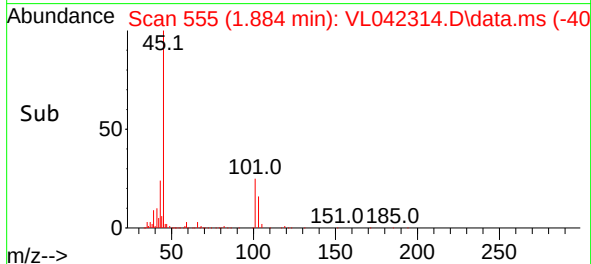
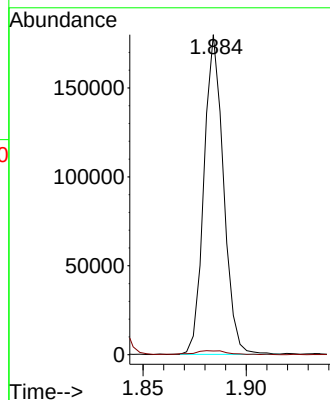
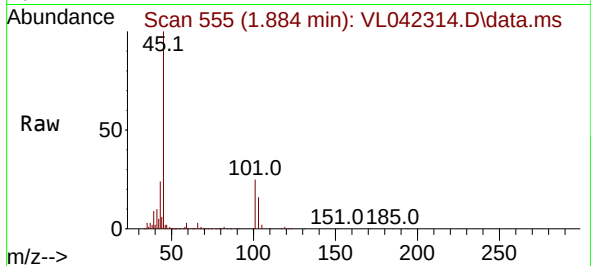
#19
Isopropyl Alcohol
Concen: 8.404 ppbv
RT: 1.884 min Scan# 555
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Instrument :
MSVOA_L
ClientSampleId :
VL0411ABS01

Tgt Ion: 45 Resp: 118345
Ion Ratio Lower Upper
45 100
58 2.2 36.9 55.3

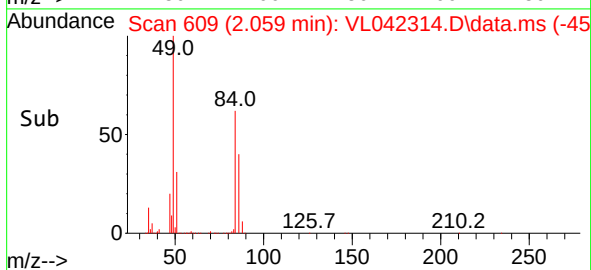
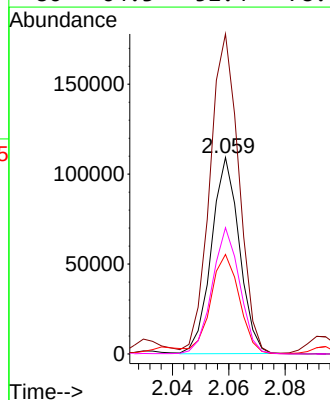
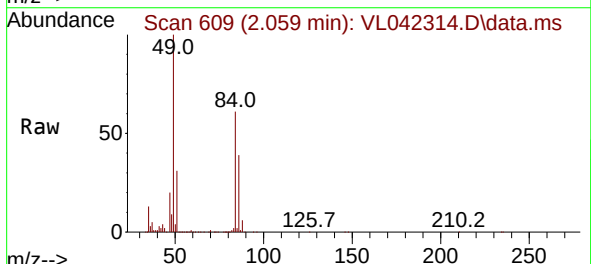
Manual Integrations
APPROVED

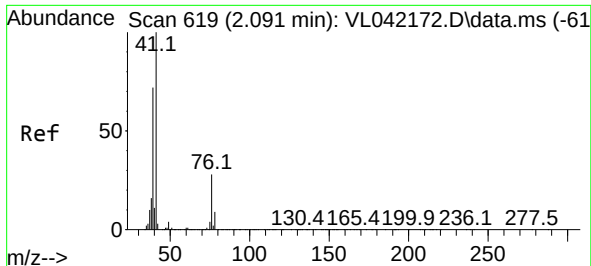
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#20
Methylene Chloride
Concen: 8.097 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

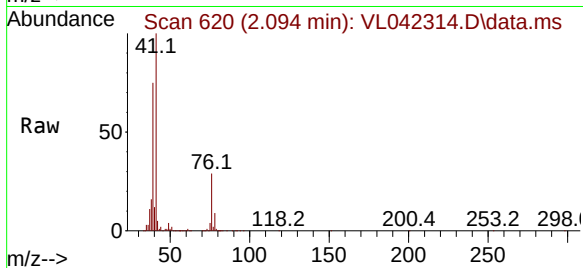
Tgt Ion: 84 Resp: 75264
Ion Ratio Lower Upper
84 100
49 162.8 120.2 180.4
51 50.6 37.4 56.0
86 64.3 52.4 78.6





#21
 Allyl Chloride
 Concen: 8.934 ppbv
 RT: 2.094 min Scan# 619
 Delta R.T. 0.003 min
 Lab File: VL042314.D
 Acq: 11 Apr 2025 11:23

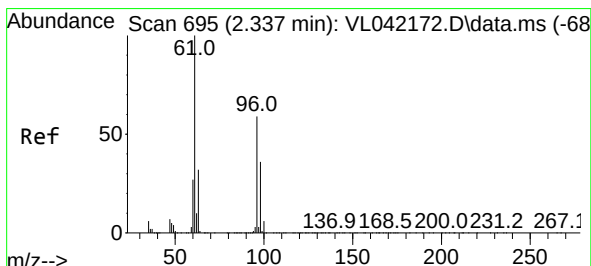
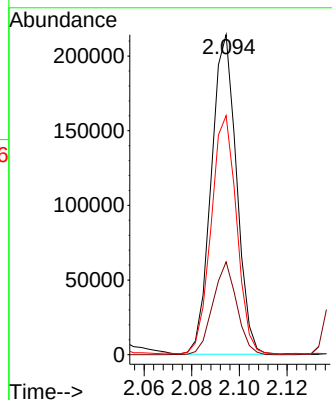
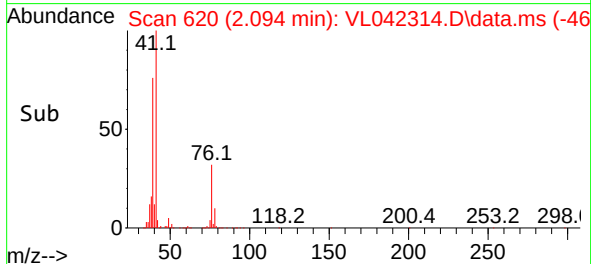
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0411ABS01



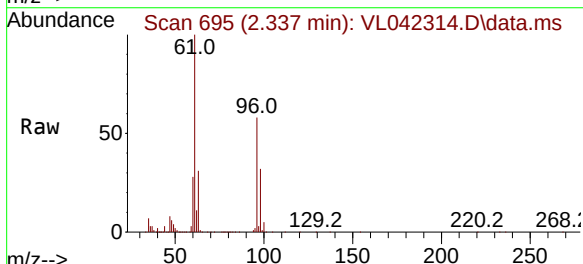
Tgt Ion: 41 Resp: 15726
 Ion Ratio Lower Upper
 41 100
 76 27.5 24.1 36.1
 39 75.1 61.1 91.7

Manual Integrations
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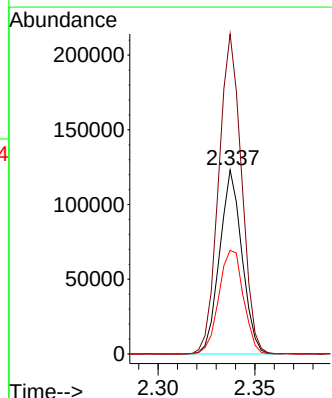
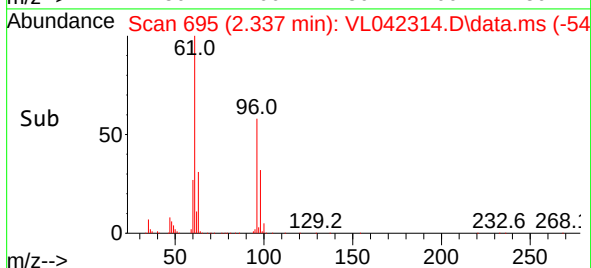
Reviewed By :Semsettin Yesilyurt 04/16/2025
 Supervised By :Mahesh Dadoda 04/17/2025

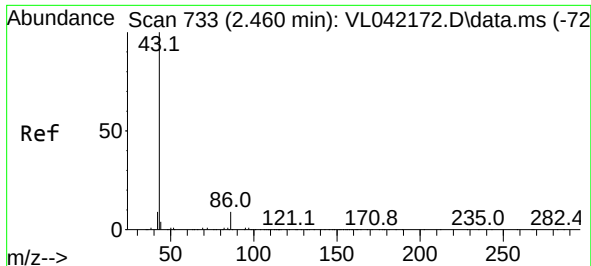


#22
 trans-1,2-Dichloroethene
 Concen: 8.674 ppbv
 RT: 2.337 min Scan# 695
 Delta R.T. -0.000 min
 Lab File: VL042314.D
 Acq: 11 Apr 2025 11:23



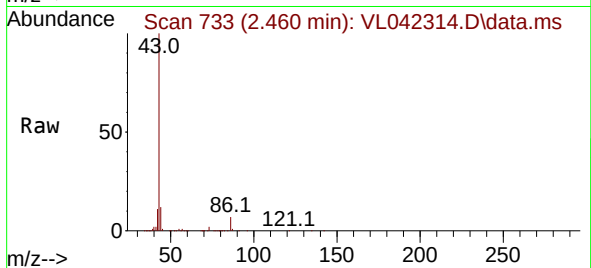
Tgt Ion: 96 Resp: 98769
 Ion Ratio Lower Upper
 96 100
 61 173.9 136.6 204.8
 98 56.3 49.4 74.2





#23
 Vinyl Acetate
 Concen: 8.014 ppbv
 RT: 2.460 min Scan# 716
 Delta R.T. -0.000 min
 Lab File: VL042314.D
 Acq: 11 Apr 2025 11:23

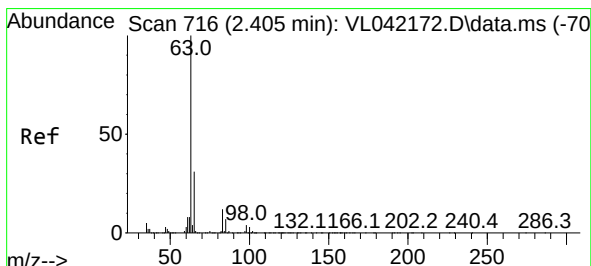
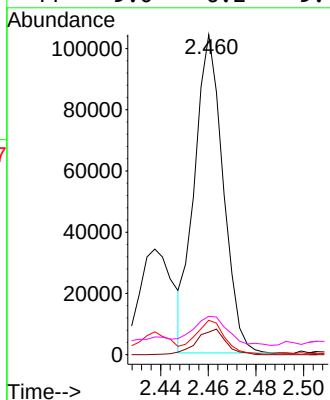
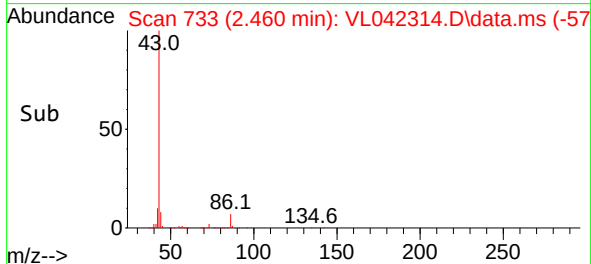
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0411ABS01



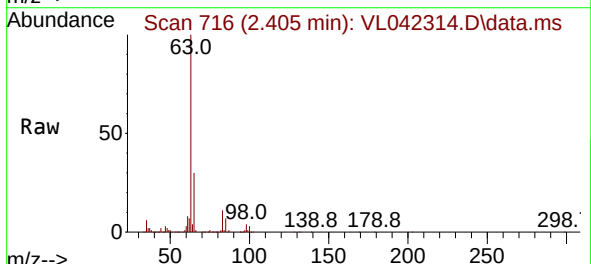
Tgt Ion:	43	Resp:	8656
Ion Ratio	100	Lower	Upper
43	100		
86	7.1	5.5	8.3
42	9.9	8.6	13.0
44	9.0	6.2	9.4

Manual Integrations
 APPROVED

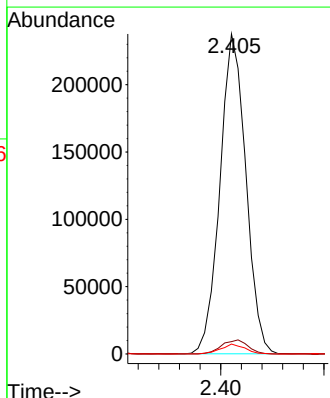
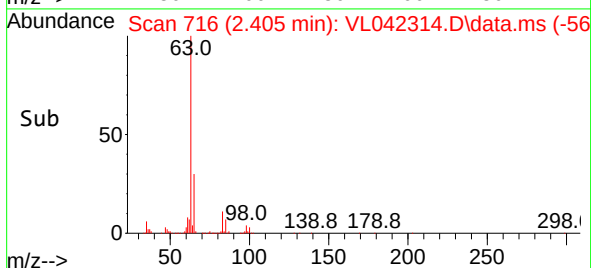
Reviewed By :Semsettin Yesilyurt 04/16/2025
 Supervised By :Mahesh Dadoda 04/17/2025

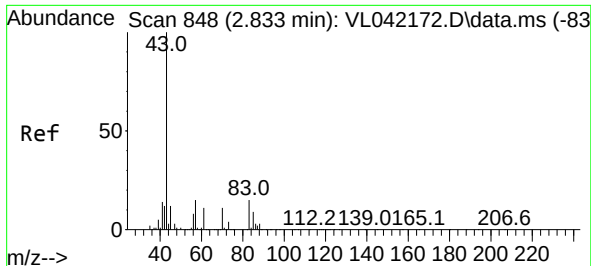


#24
 1,1-Dichloroethane
 Concen: 9.800 ppbv
 RT: 2.405 min Scan# 716
 Delta R.T. -0.000 min
 Lab File: VL042314.D
 Acq: 11 Apr 2025 11:23



Tgt Ion:	63	Resp:	206840
Ion Ratio	100	Lower	Upper
63	100		
98	3.8	2.3	6.8
100	3.1	1.6	4.7





#25

Ethyl Acetate

Concen: 10.138 ppbv

RT: 2.836 min Scan# 84

Delta R.T. 0.003 min

Lab File: VL042314.D

Acq: 11 Apr 2025 11:23

Instrument :

MSVOA_L

ClientSampleId :

VL0411ABS01

Tgt Ion: 43 Resp: 656719

Ion Ratio Lower Upper

43 100

45 10.2 8.2 12.2

61 9.0 7.3 10.9

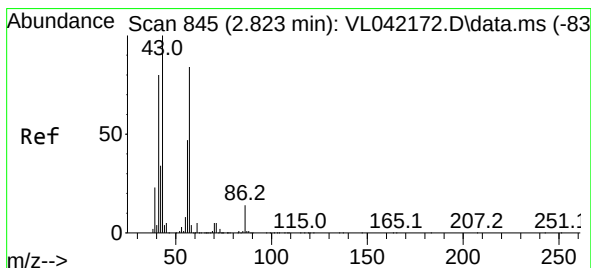
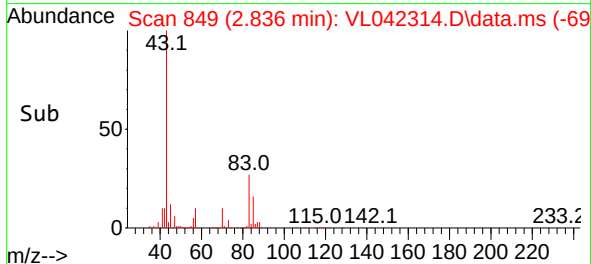
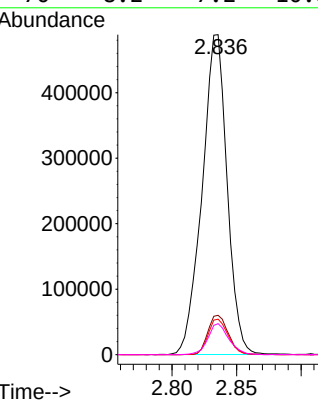
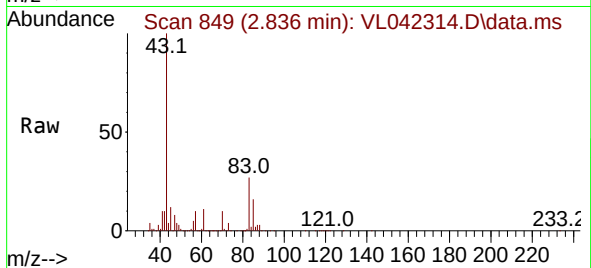
70 8.2 7.2 10.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/16/2025

Supervised By :Mahesh Dadoda 04/17/2025



#26

Hexane

Concen: 9.986 ppbv

RT: 2.823 min Scan# 845

Delta R.T. -0.000 min

Lab File: VL042314.D

Acq: 11 Apr 2025 11:23

Tgt Ion: 57 Resp: 249860

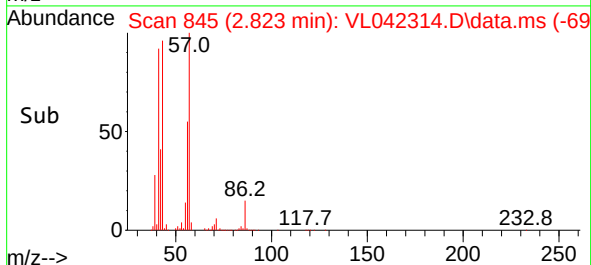
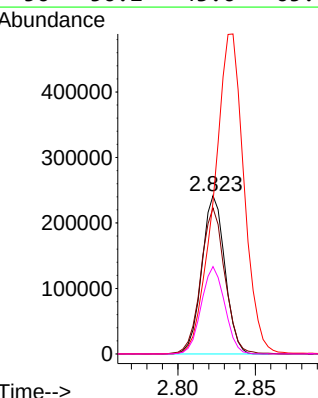
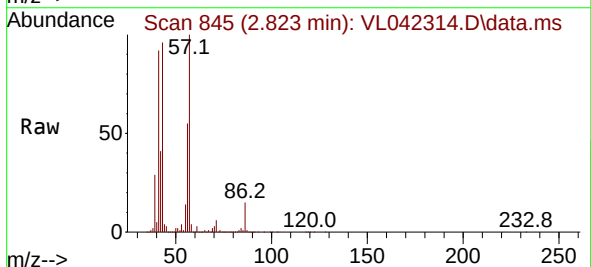
Ion Ratio Lower Upper

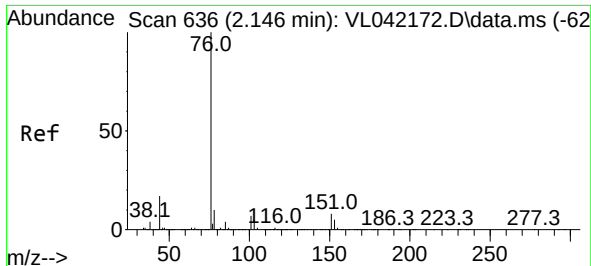
57 100

41 97.2 76.6 114.8

43 264.3 207.8 311.8

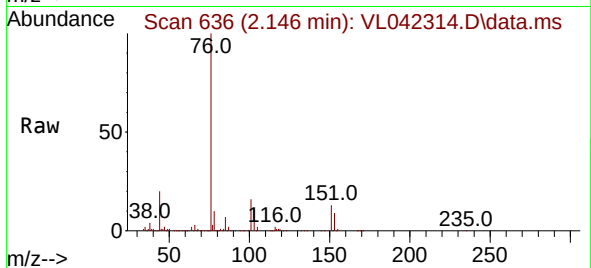
56 56.2 43.6 65.4





#27
Carbon Disulfide
Concen: 8.833 ppbv
RT: 2.146 min Scan# 611
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

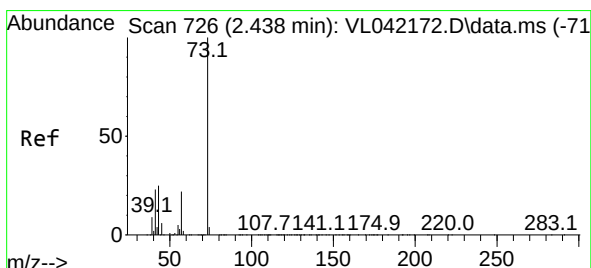
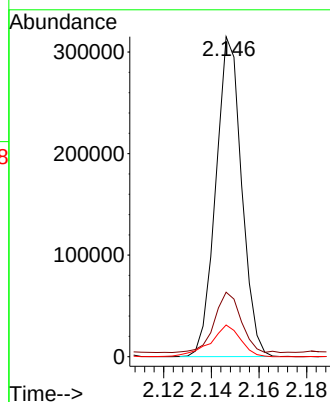
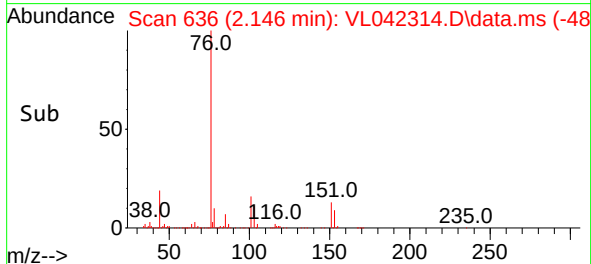
Instrument : MSVOA_L
ClientSampleId : VL0411ABS01



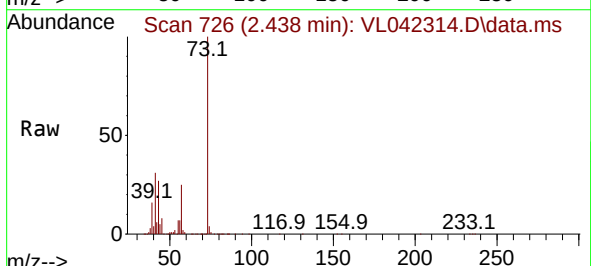
Tgt Ion: 76 Resp: 236998
Ion Ratio Lower Upper
76 100
44 19.3 14.7 22.1
78 11.6 9.3 13.9

Manual Integrations
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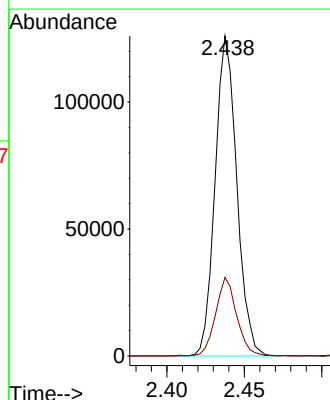
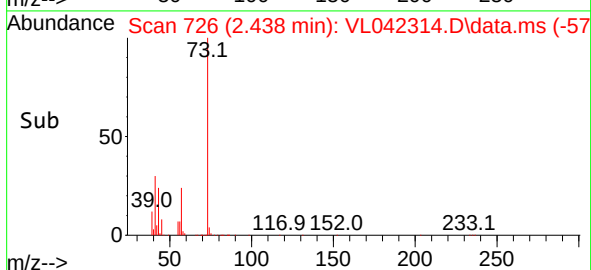
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

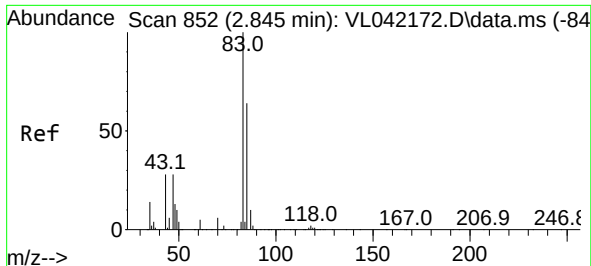


#28
Methyl tert-Butyl Ether
Concen: 7.884 ppbv
RT: 2.438 min Scan# 726
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23



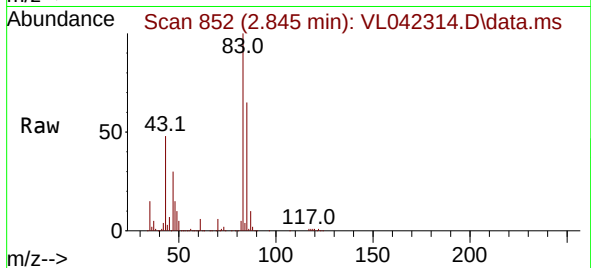
Tgt Ion: 73 Resp: 122818
Ion Ratio Lower Upper
73 100
57 23.9 20.5 30.7





#29
Chloroform
Concen: 10.506 ppbv
RT: 2.845 min Scan# 852
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

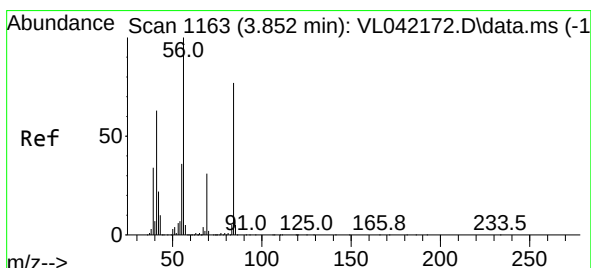
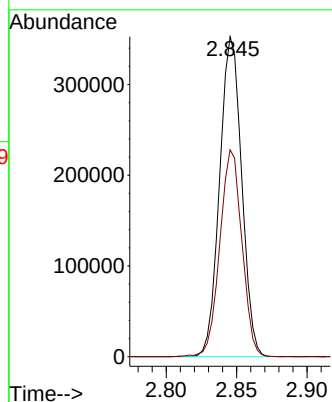
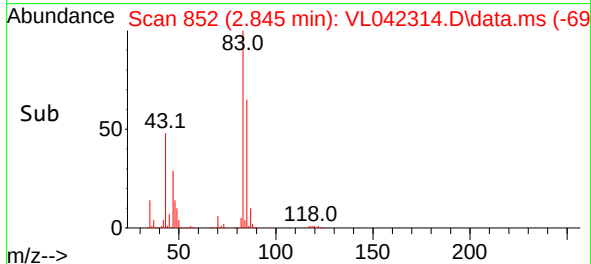
Instrument :
MSVOA_L
ClientSampleId :
VL0411ABS01



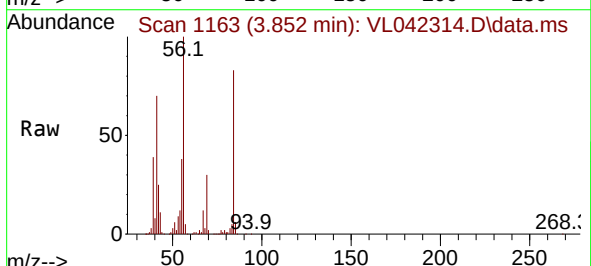
Tgt Ion: 83 Resp: 38471
Ion Ratio Lower Upper
83 100
85 64.6 51.4 77.2

Manual Integrations
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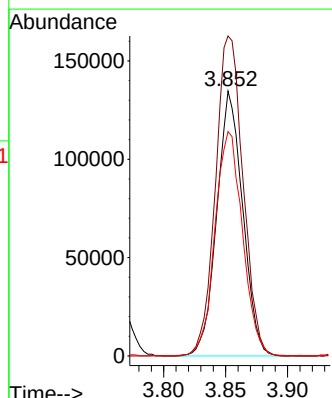
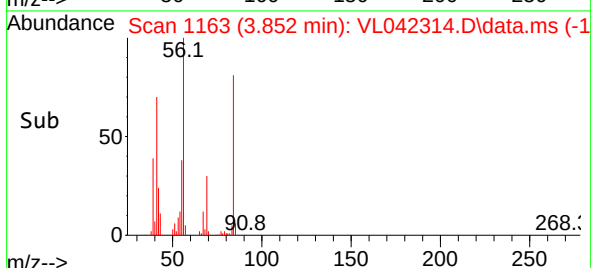
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

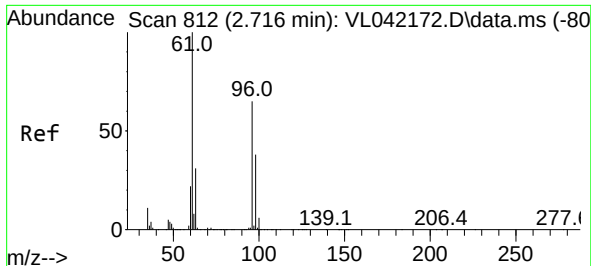


#30
Cyclohexane
Concen: 9.028 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23



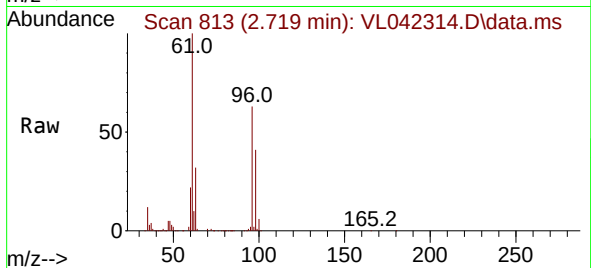
Tgt Ion: 84 Resp: 196133
Ion Ratio Lower Upper
84 100
56 128.6 102.8 154.2
41 90.3 66.5 99.7





#31
cis-1,2-Dichloroethene
Concen: 9.187 ppbv
RT: 2.719 min Scan# 812
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

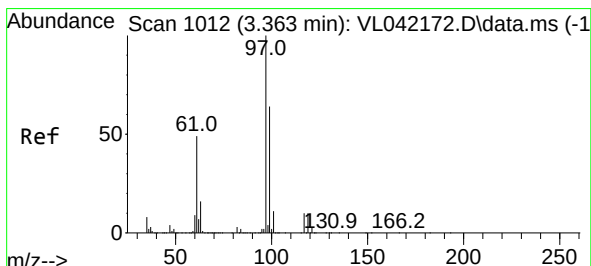
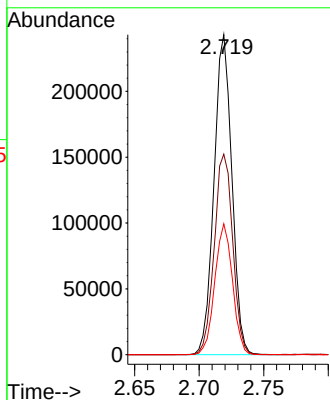
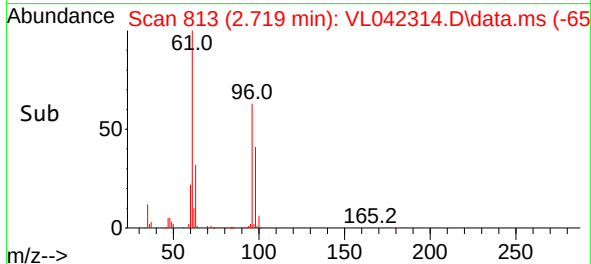
Instrument :
MSVOA_L
ClientSampleId :
VL0411ABS01



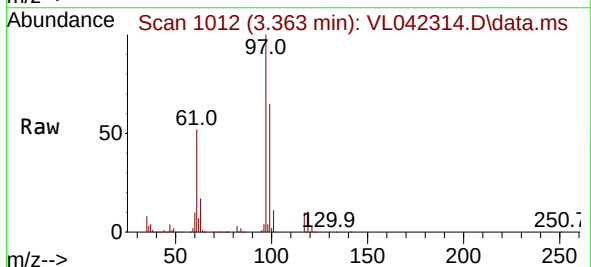
Tgt Ion: 61 Resp: 23337
Ion Ratio Lower Upper
61 100
96 62.7 51.8 77.8
98 40.9 30.6 46.0

Manual Integrations
APPROVED

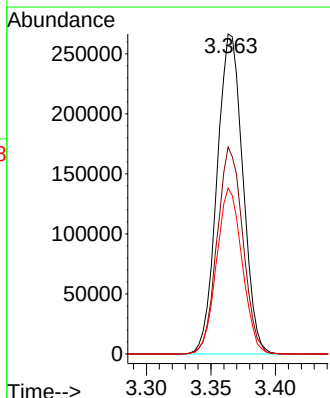
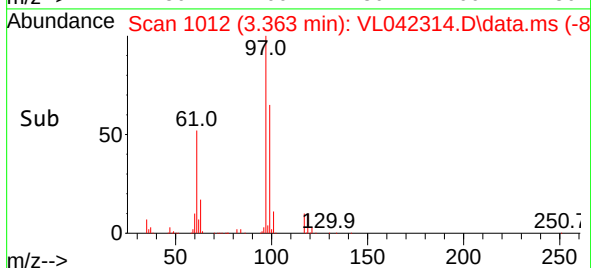
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

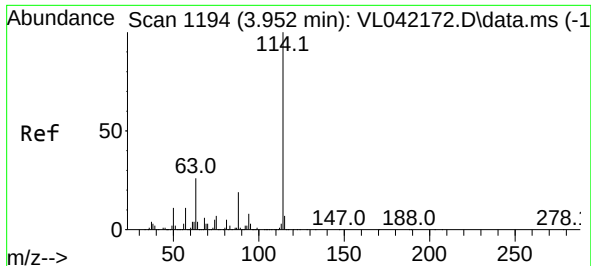


#32
1,1,1-Trichloroethane
Concen: 8.836 ppbv
RT: 3.363 min Scan# 1012
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23



Tgt Ion: 97 Resp: 370405
Ion Ratio Lower Upper
97 100
99 64.3 51.5 77.3
61 51.5 38.7 58.1





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.955 min Scan# 1194

Delta R.T. 0.003 min

Lab File: VL042314.D

Acq: 11 Apr 2025 11:23

Instrument :

MSVOA_L

ClientSampleId :

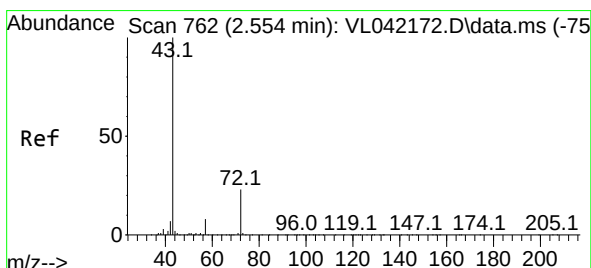
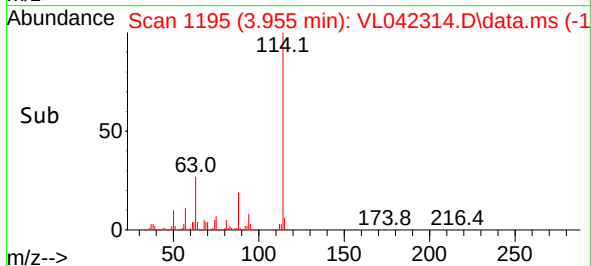
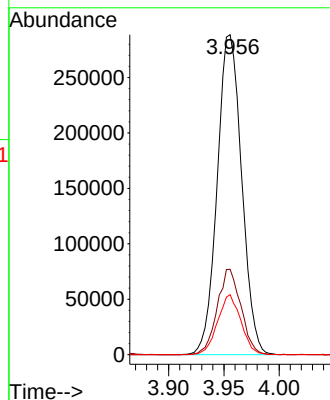
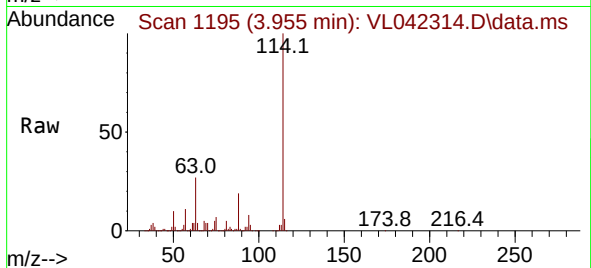
VL0411ABS01

Tgt Ion:114	Resp: 44435
Ion Ratio	Lower Upper
114 100	
63 26.0	20.7 31.1
88 17.8	15.0 22.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#34

2-Butanone

Concen: 11.254 ppbv

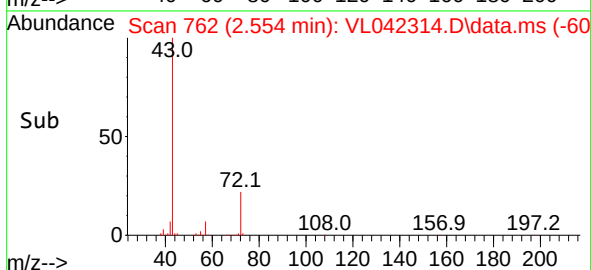
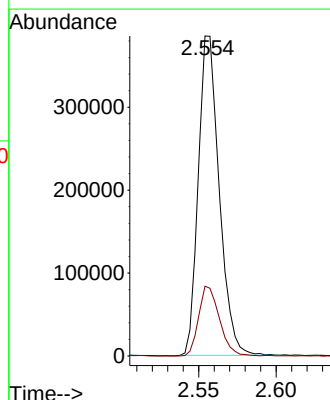
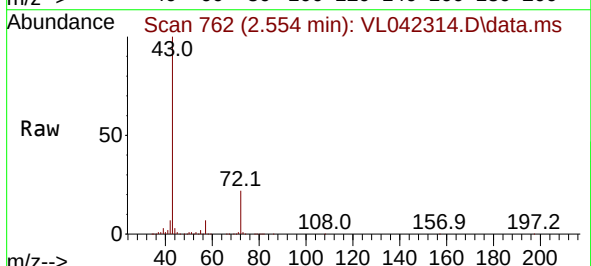
RT: 2.554 min Scan# 762

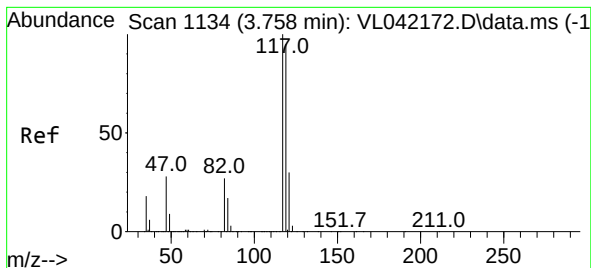
Delta R.T. -0.000 min

Lab File: VL042314.D

Acq: 11 Apr 2025 11:23

Tgt Ion: 43	Resp: 362633
Ion Ratio	Lower Upper
43 100	
72 21.8	18.2 27.2





#35

Carbon Tetrachloride

Concen: 11.228 ppbv

RT: 3.758 min Scan# 1134

Delta R.T. -0.000 min

Lab File: VL042314.D

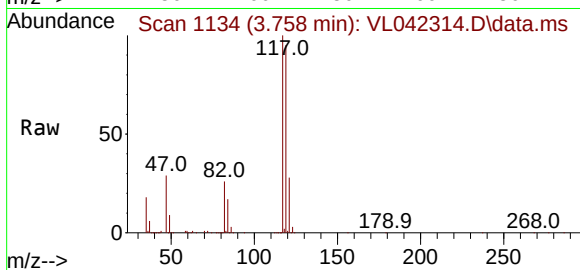
Acq: 11 Apr 2025 11:23

Instrument :

MSVOA_L

ClientSampleId :

VL0411ABS01



Tgt Ion:117 Resp: 389738

Ion Ratio Lower Upper

117 100

119 95.2 76.2 114.2

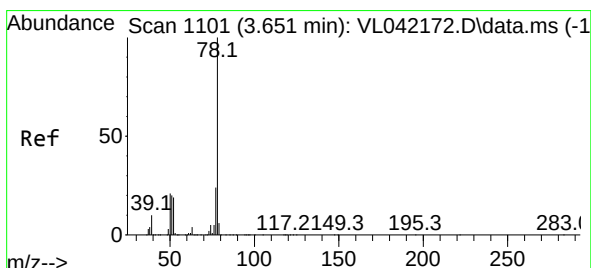
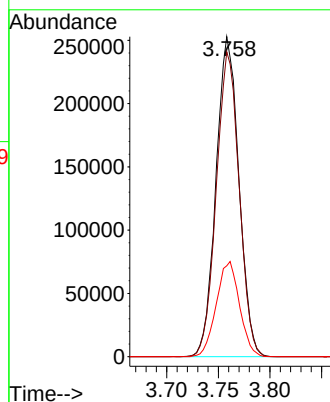
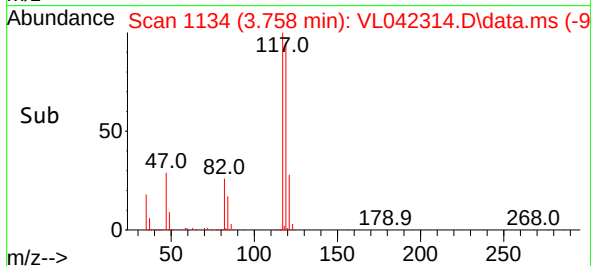
121 28.4 24.2 36.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/16/2025

Supervised By :Mahesh Dadoda 04/17/2025



#36

Benzene

Concen: 11.131 ppbv

RT: 3.654 min Scan# 1102

Delta R.T. 0.003 min

Lab File: VL042314.D

Acq: 11 Apr 2025 11:23

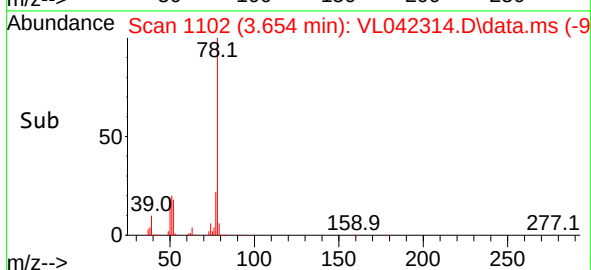
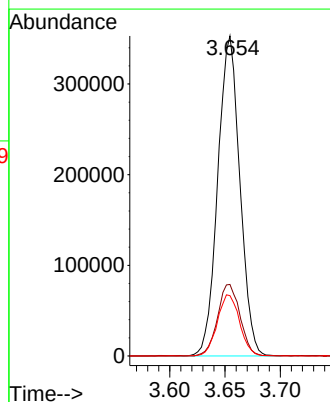
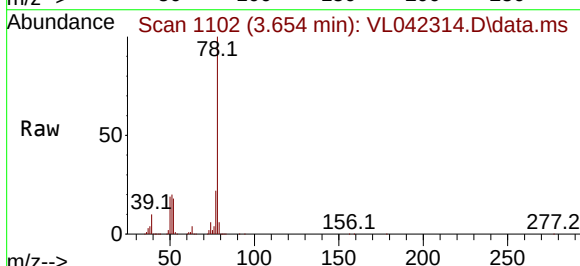
Tgt Ion: 78 Resp: 490339

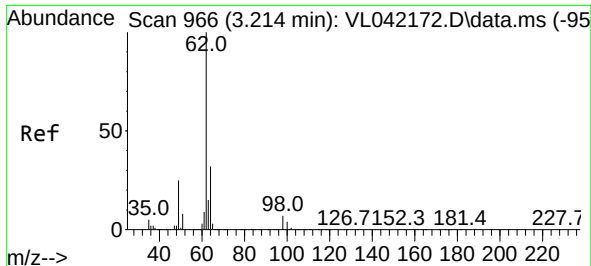
Ion Ratio Lower Upper

78 100

77 22.3 19.1 28.7

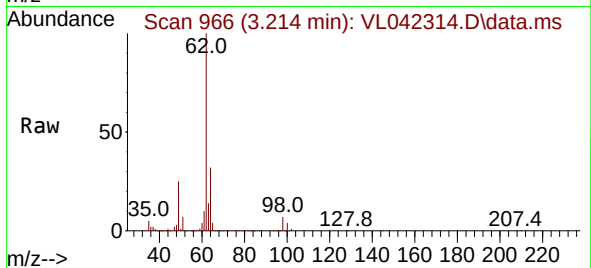
50 18.8 16.6 24.8





#37
1,2-Dichloroethane
Concen: 11.538 ppbv
RT: 3.214 min Scan# 966
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

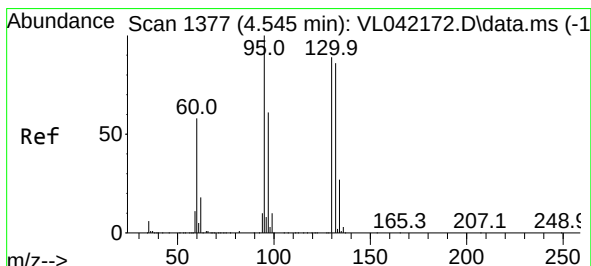
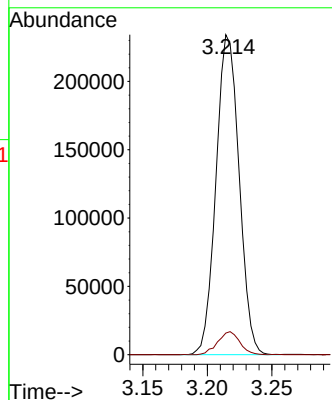
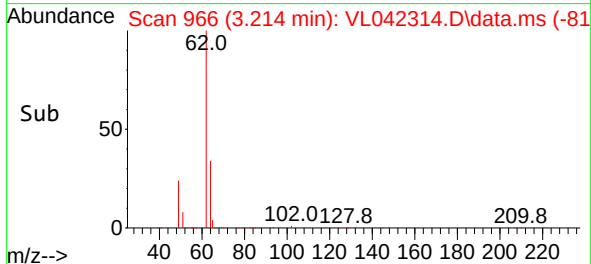
Instrument :
MSVOA_L
ClientSampleId :
VL0411ABS01



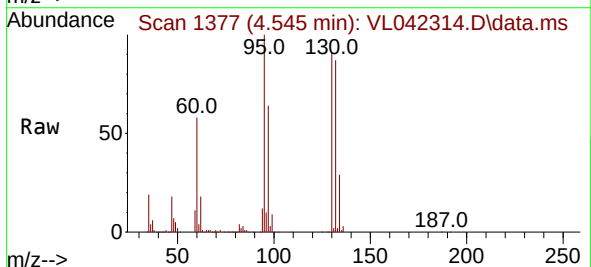
Tgt Ion: 62 Resp: 29098
Ion Ratio Lower Upper
62 100
98 6.9 5.4 8.2

Manual Integrations
APPROVED

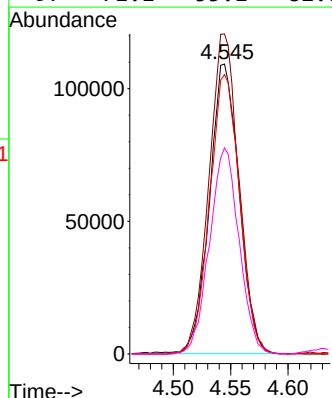
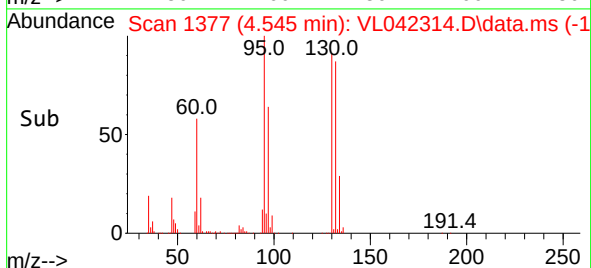
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

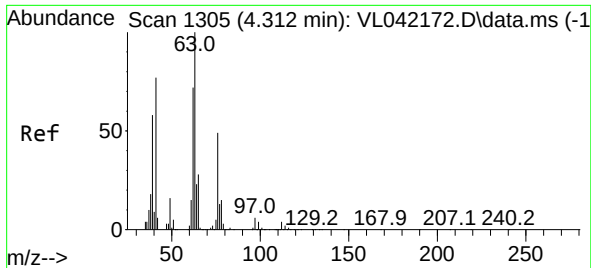


#38
Trichloroethene
Concen: 10.645 ppbv
RT: 4.545 min Scan# 1377
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23



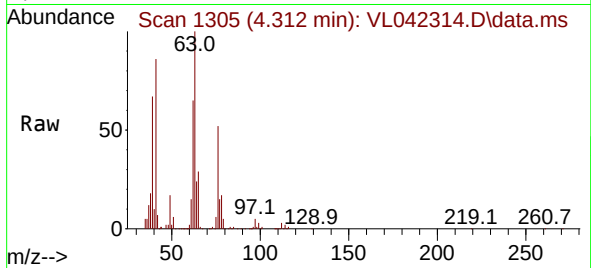
Tgt Ion:130 Resp: 195654
Ion Ratio Lower Upper
130 100
95 110.4 89.8 134.8
132 96.5 77.4 116.2
97 71.1 55.1 82.7





#39
1,2-Dichloropropane
Concen: 11.217 ppbv
RT: 4.312 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

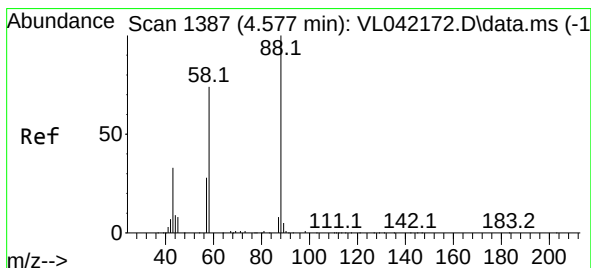
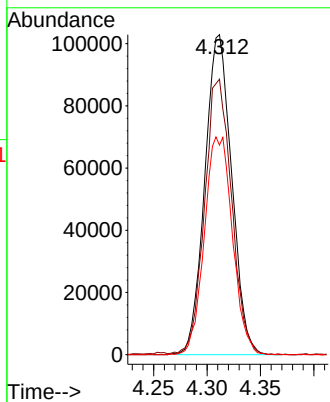
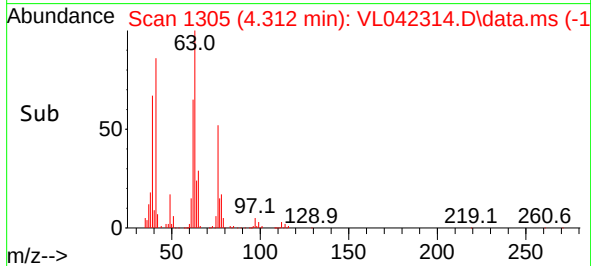
Instrument :
MSVOA_L
ClientSampleId :
VL0411ABS01



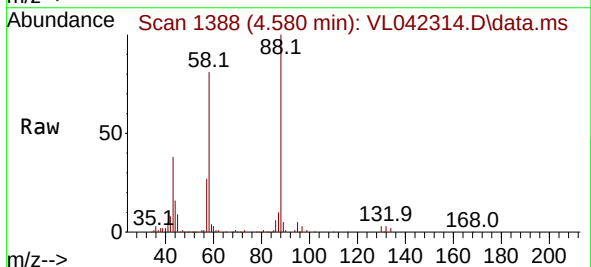
Tgt Ion: 63 Resp: 179954
Ion Ratio Lower Upper
63 100
41 85.9 61.7 92.5
62 65.3 57.6 86.4

Manual Integrations
APPROVED

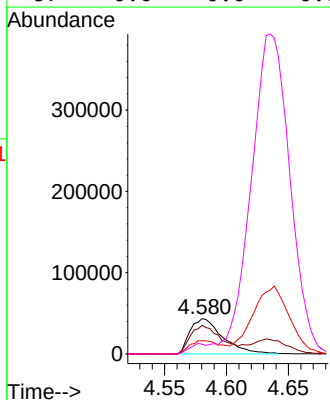
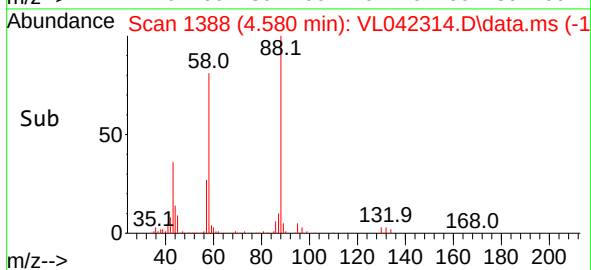
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

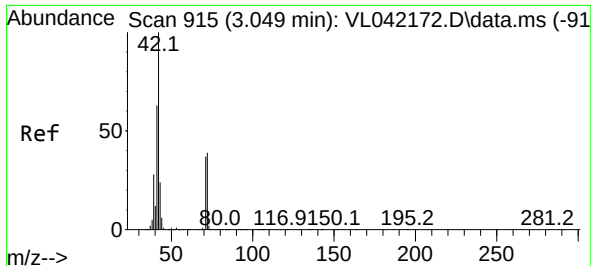


#40
1,4-Dioxane
Concen: 9.408 ppbv
RT: 4.580 min Scan# 1388
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23



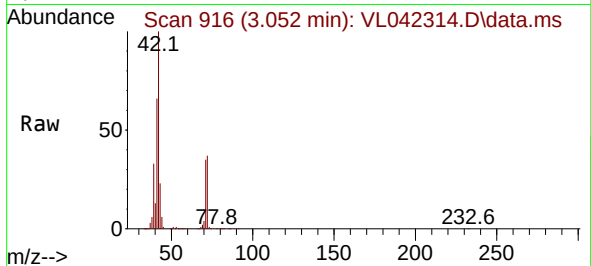
Tgt Ion: 88 Resp: 80106
Ion Ratio Lower Upper
88 100
58 81.4 62.7 94.1
43 0.0 23.0 34.4#
57 0.0 0.0 0.0





#41
Tetrahydrofuran
Concen: 10.930 ppbv
RT: 3.052 min Scan# 915
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

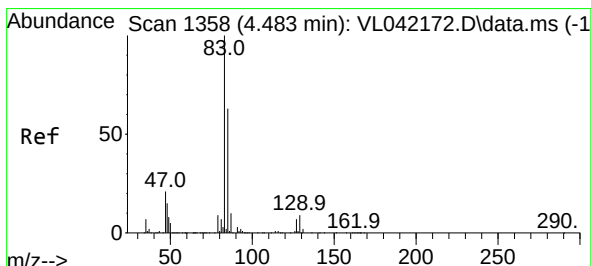
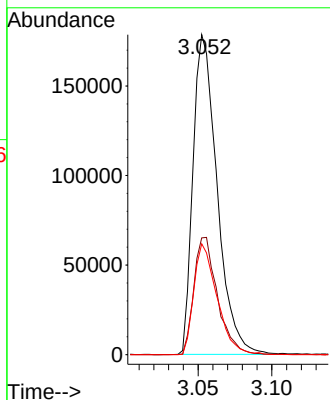
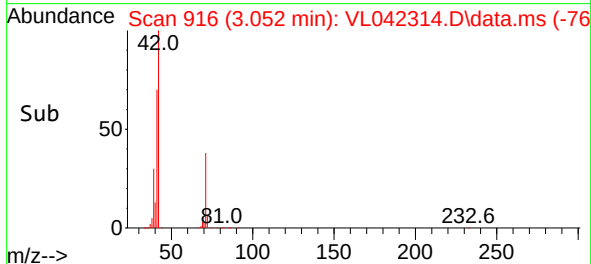
Instrument :
MSVOA_L
ClientSampleId :
VL0411ABS01



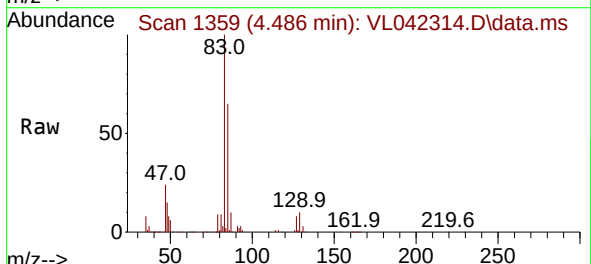
Tgt Ion: 42 Resp: 20279
Ion Ratio Lower Upper
42 100
72 36.0 31.4 47.0
71 33.5 30.2 45.4

Manual Integrations
APPROVED

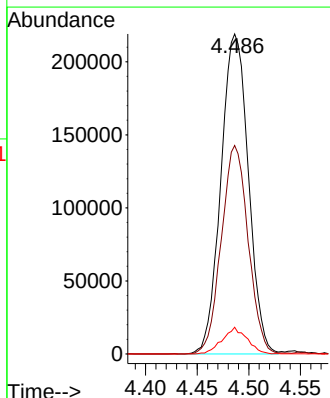
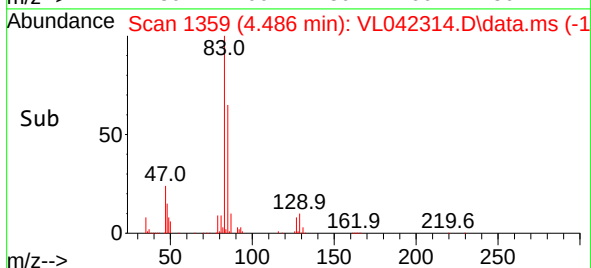
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

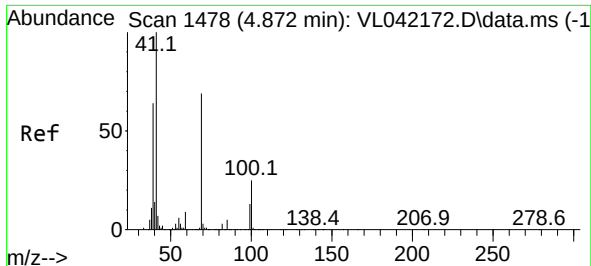


#42
Bromodichloromethane
Concen: 11.669 ppbv
RT: 4.486 min Scan# 1359
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23



Tgt Ion: 83 Resp: 405729
Ion Ratio Lower Upper
83 100
85 65.2 50.5 75.7
127 8.4 5.9 8.9





#43

Methyl Methacrylate

Concen: 9.514 ppbv

RT: 4.875 min Scan# 1478

Delta R.T. 0.003 min

Lab File: VL042314.D

Acq: 11 Apr 2025 11:23

Instrument :

MSVOA_L

ClientSampleId :

VL0411ABS01

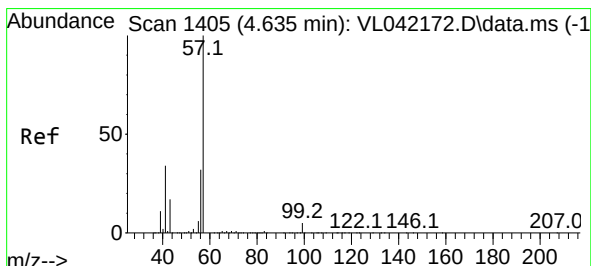
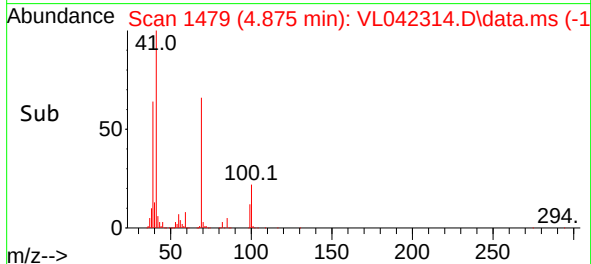
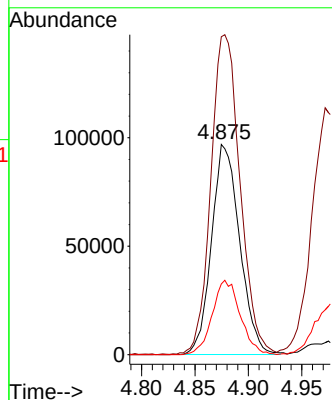
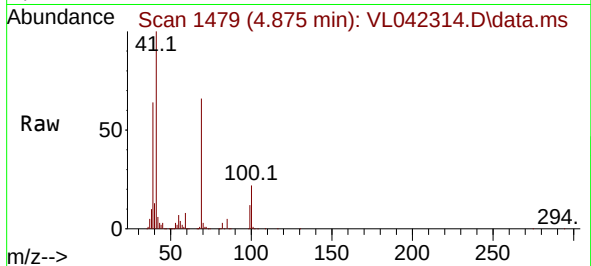
Tgt Ion: 69 Resp: 17742

Ion	Ratio	Lower	Upper
69	100		
41	158.3	123.8	185.6
100	35.3	28.4	42.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#44

2,2,4-Trimethylpentane

Concen: 11.431 ppbv

RT: 4.635 min Scan# 1405

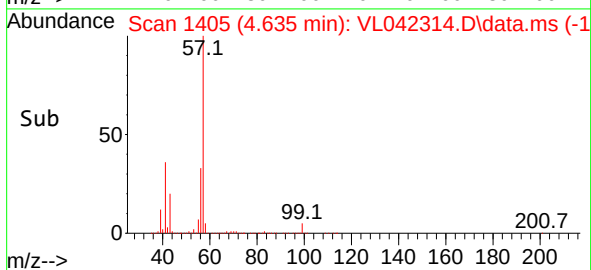
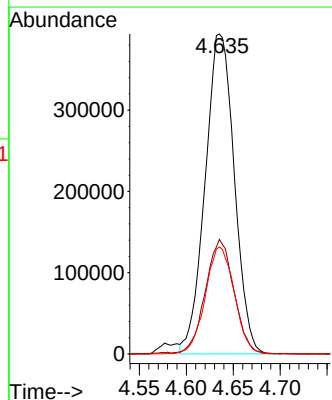
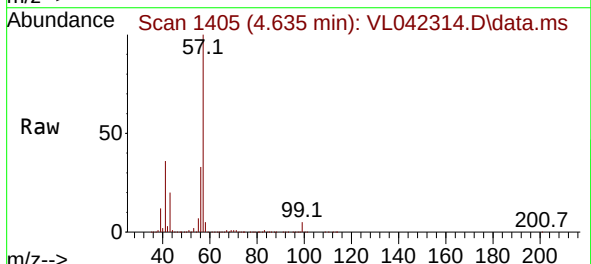
Delta R.T. -0.000 min

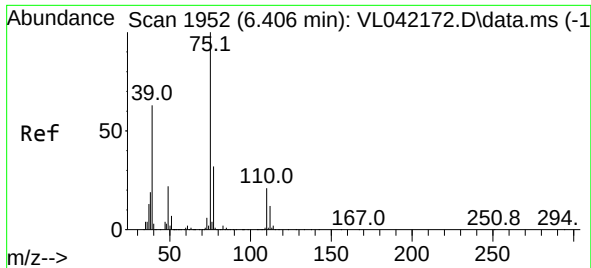
Lab File: VL042314.D

Acq: 11 Apr 2025 11:23

Tgt Ion: 57 Resp: 850971

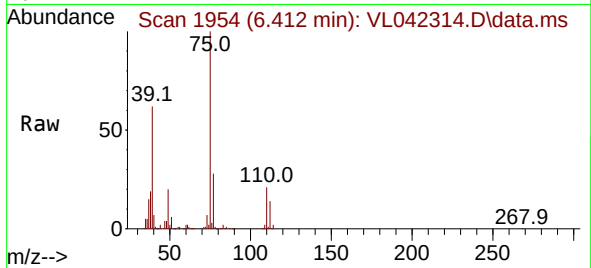
Ion	Ratio	Lower	Upper
57	100		
41	35.3	26.8	40.2
56	33.4	25.6	38.4





#45
t-1,3-Dichloropropene
Concen: 8.309 ppbv
RT: 6.412 min Scan# 1952
Delta R.T. 0.006 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

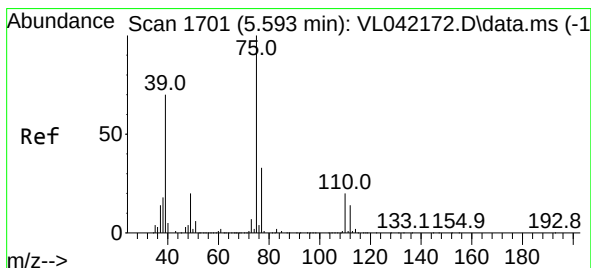
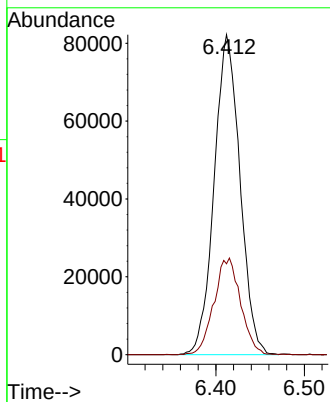
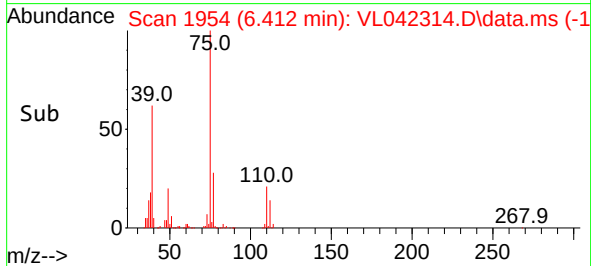
Instrument :
MSVOA_L
ClientSampleId :
VL0411ABS01



Tgt Ion: 75 Resp: 166240
Ion Ratio Lower Upper
75 100
77 28.4 26.0 39.0

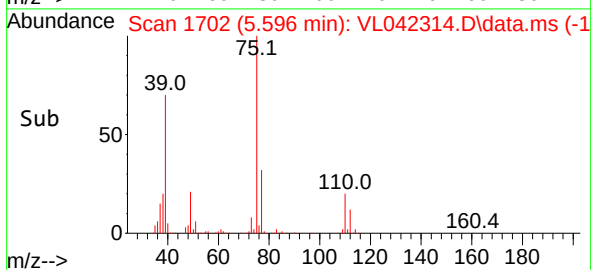
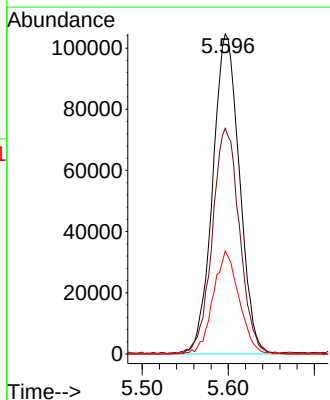
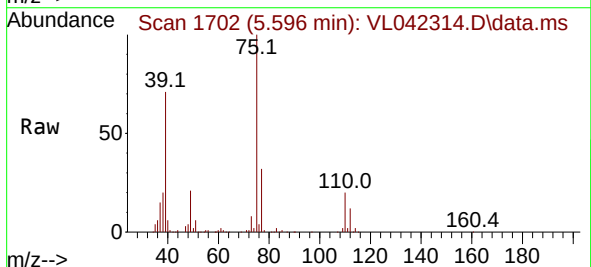
Manual Integrations
APPROVED

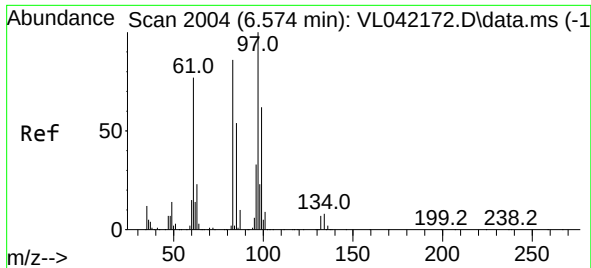
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#46
cis-1,3-Dichloropropene
Concen: 9.213 ppbv
RT: 5.596 min Scan# 1702
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

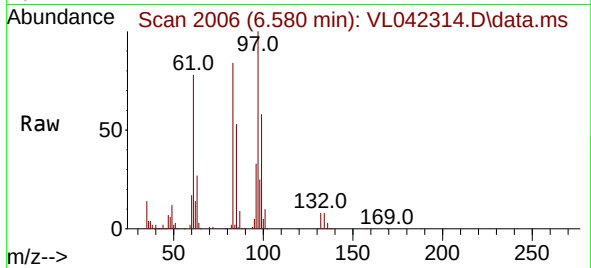
Tgt Ion: 75 Resp: 225952
Ion Ratio Lower Upper
75 100
39 70.2 55.8 83.6
77 32.1 26.0 39.0





#47
1,1,2-Trichloroethane
Concen: 11.720 ppbv
RT: 6.580 min Scan# 2006
Delta R.T. 0.006 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

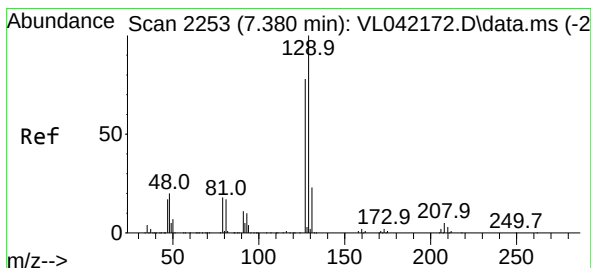
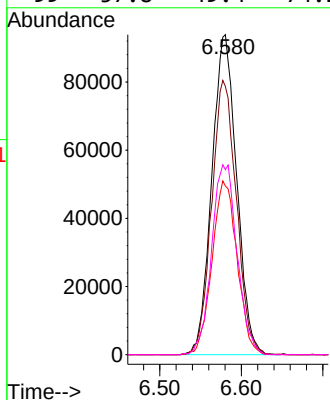
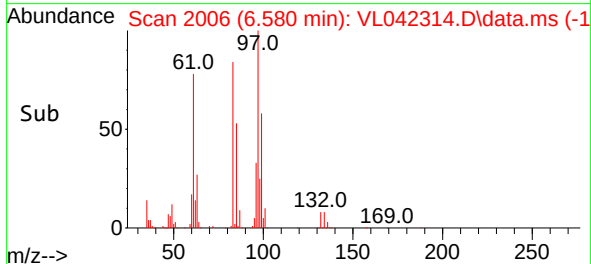
Instrument :
MSVOA_L
ClientSampleId :
VL0411ABS01



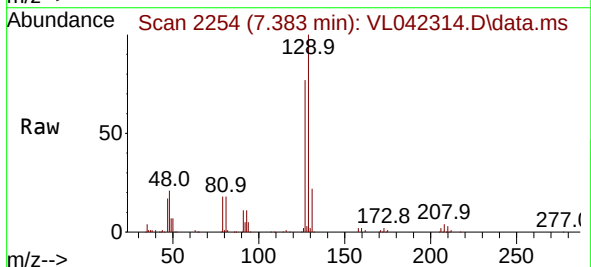
Tgt Ion: 97 Resp: 198762
Ion Ratio Lower Upper
97 100
83 83.8 69.2 103.8
85 52.7 43.1 64.7
99 57.8 49.4 74.2

Manual Integrations
APPROVED

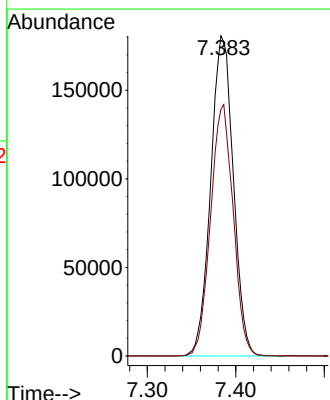
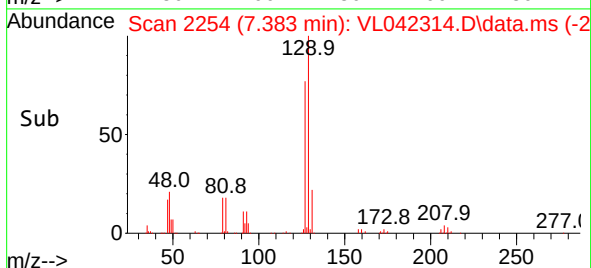
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

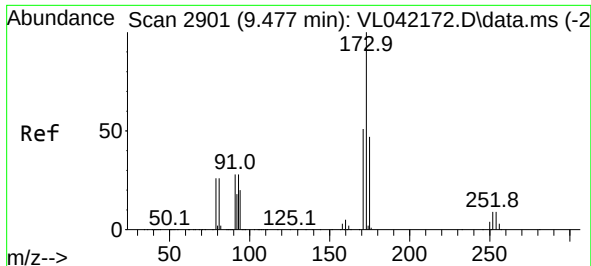


#48
Dibromochloromethane
Concen: 11.181 ppbv
RT: 7.383 min Scan# 2254
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23



Tgt Ion:129 Resp: 321370
Ion Ratio Lower Upper
129 100
127 78.4 39.1 117.2





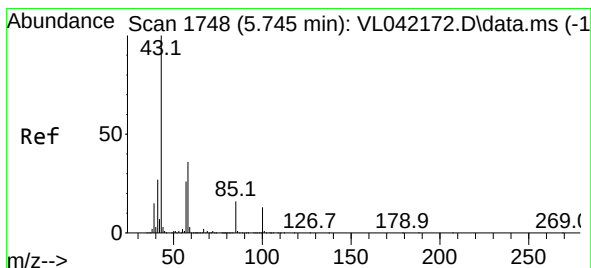
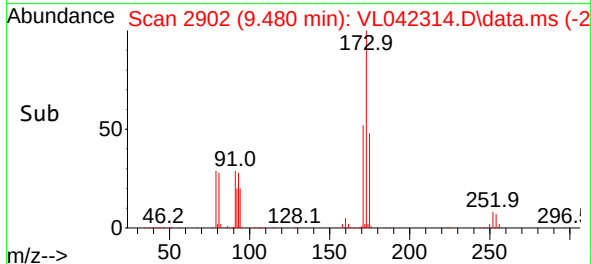
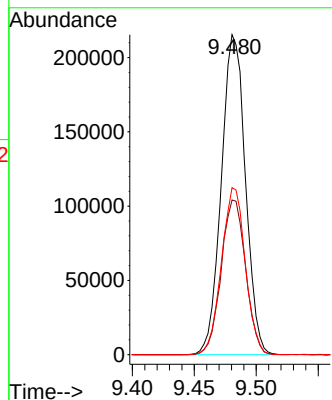
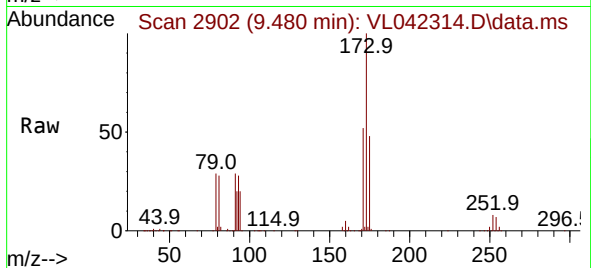
#49
Bromoform
Concen: 11.313 ppbv
RT: 9.480 min Scan# 2901
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Instrument :
MSVOA_L
ClientSampleId :
VL0411ABS01

Tgt Ion:173 Resp: 29190
Ion Ratio Lower Upper
173 100
175 49.1 38.6 57.8
171 51.7 41.8 62.6

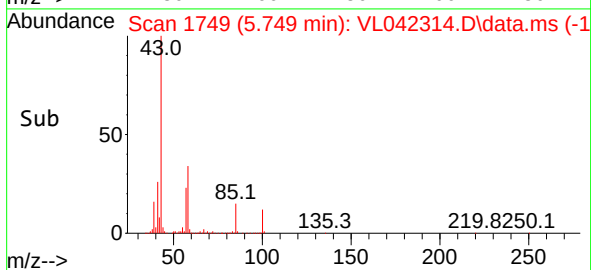
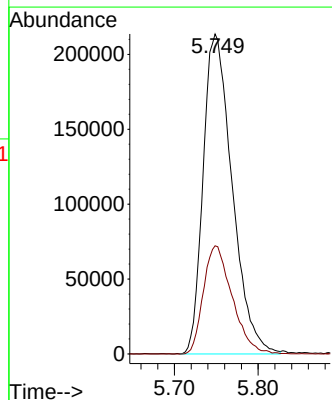
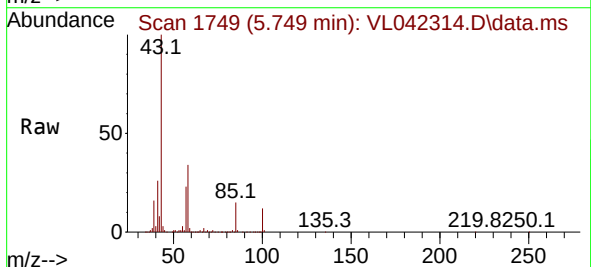
Manual Integrations
APPROVED

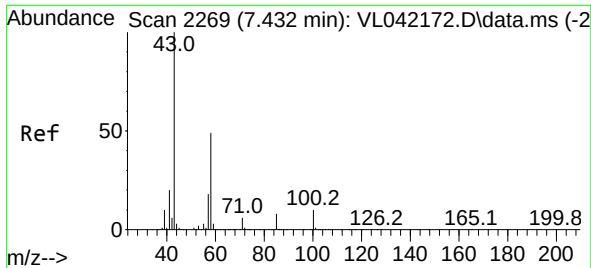
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#50
4-Methyl-2-Pentanone
Concen: 10.084 ppbv
RT: 5.749 min Scan# 1749
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

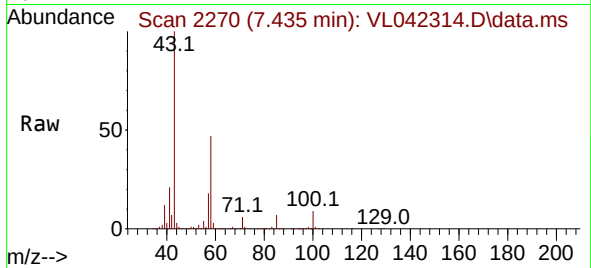
Tgt Ion: 43 Resp: 514910
Ion Ratio Lower Upper
43 100
58 33.6 29.0 43.6





#51
2-Hexanone
Concen: 9.889 ppbv
RT: 7.435 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

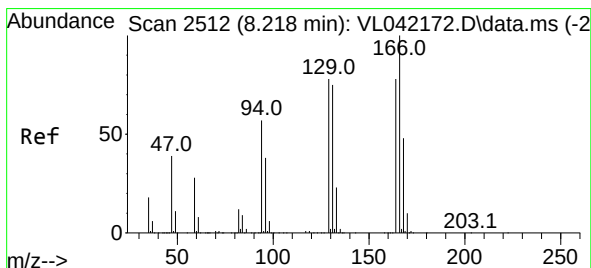
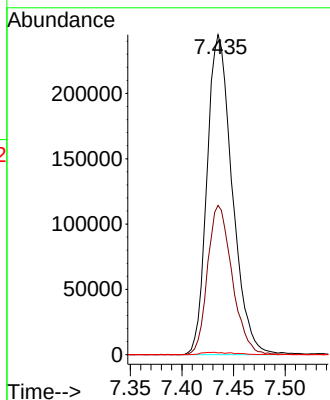
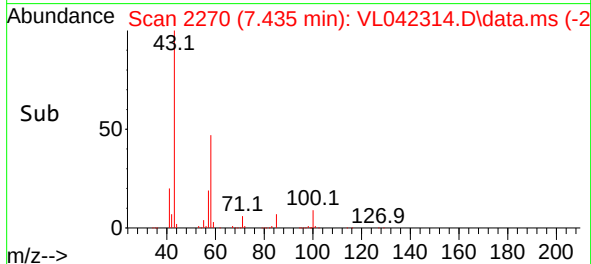
Instrument :
MSVOA_L
ClientSampleId :
VL0411ABS01



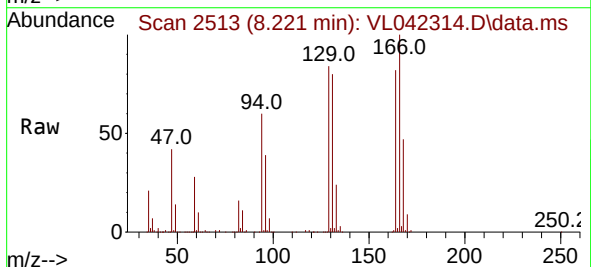
Tgt Ion: 43 Resp: 41468
Ion Ratio Lower Upper
43 100
58 45.6 39.7 59.5
98 1.0 0.1 0.1

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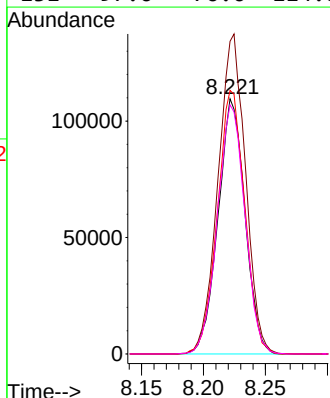
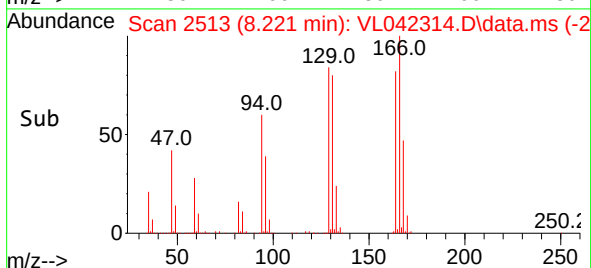
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

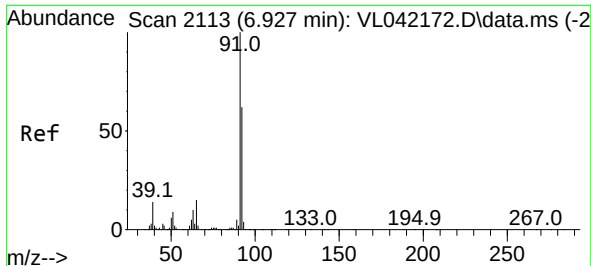


#52
Tetrachloroethene
Concen: 9.483 ppbv
RT: 8.221 min Scan# 2513
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23



Tgt Ion:164 Resp: 165666
Ion Ratio Lower Upper
164 100
166 122.5 102.5 153.7
129 103.2 79.8 119.8
131 97.6 76.6 114.8





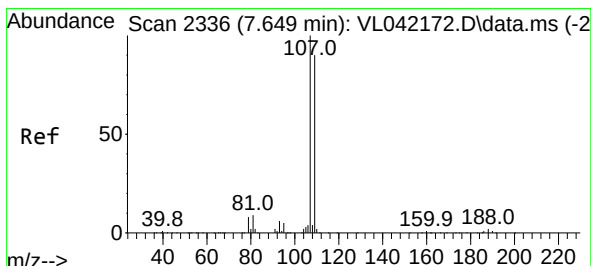
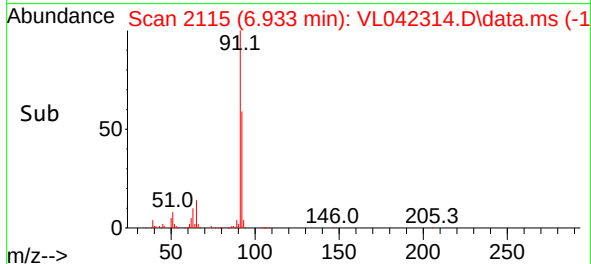
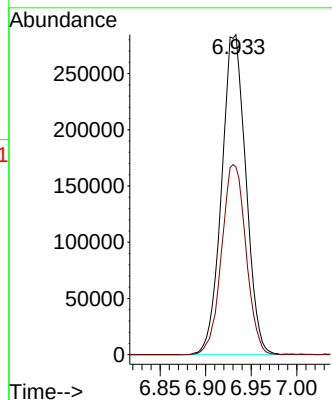
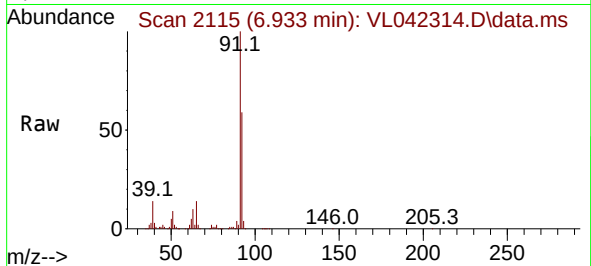
#53
Toluene
Concen: 10.079 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. 0.006 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Instrument :
MSVOA_L
ClientSampleId :
VL0411ABS01

Tgt Ion: 91 Resp: 52634
Ion Ratio Lower Upper
91 100
92 59.9 48.4 72.6

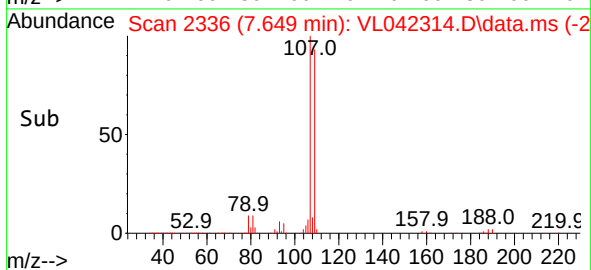
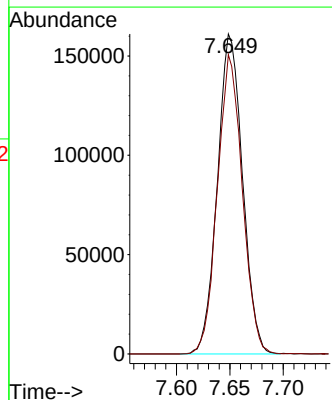
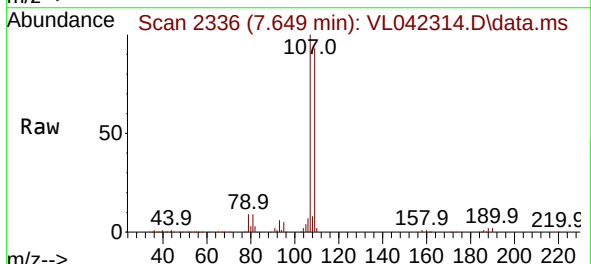
Manual Integrations
APPROVED

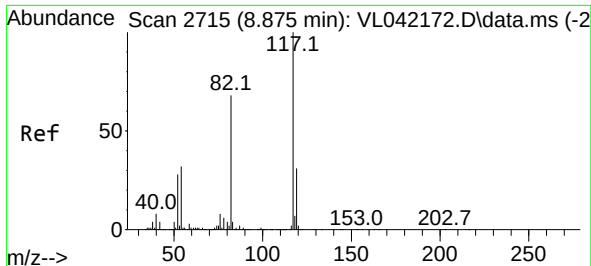
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#54
1,2-Dibromoethane
Concen: 11.172 ppbv
RT: 7.649 min Scan# 2336
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion:107 Resp: 264126
Ion Ratio Lower Upper
107 100
109 93.5 72.2 108.4





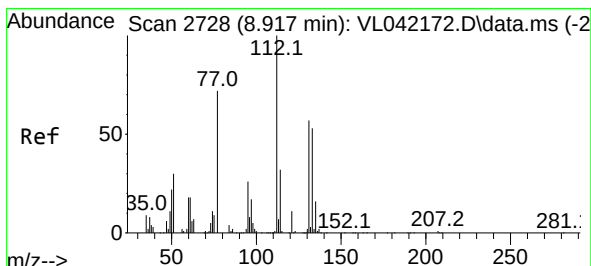
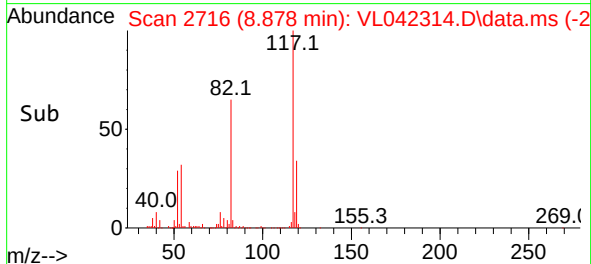
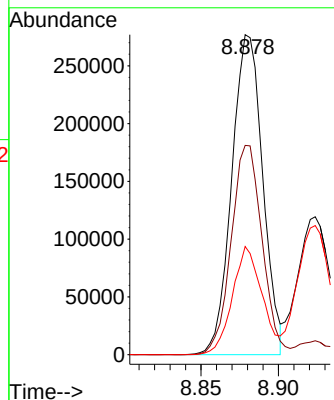
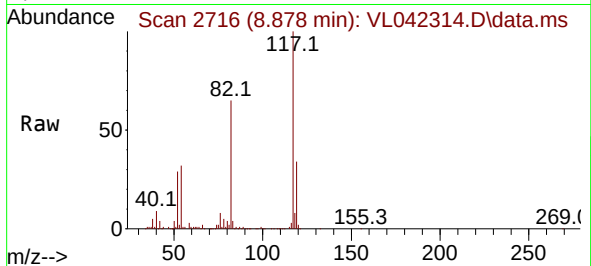
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2715
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Instrument :
MSVOA_L
ClientSampleId :
VL0411ABS01

Tgt Ion:117 Resp: 386060
Ion Ratio Lower Upper
117 100
82 69.5 55.8 83.6
119 31.8 25.5 38.3

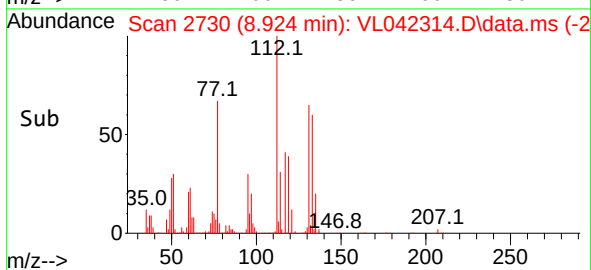
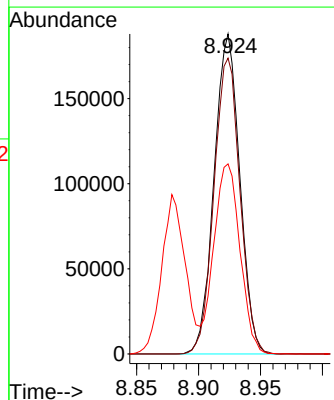
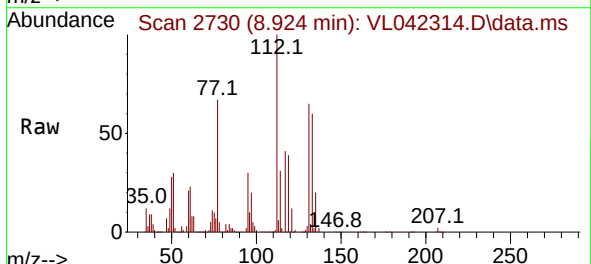
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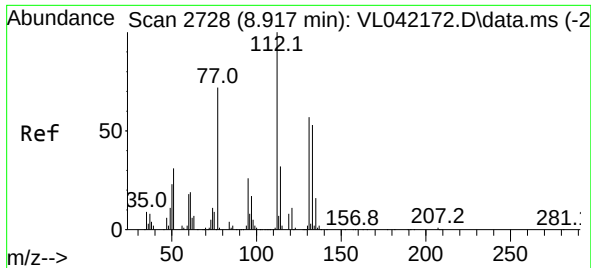
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#56
1,1,1,2-Tetrachloroethane
Concen: 12.755 ppbv
RT: 8.924 min Scan# 2730
Delta R.T. 0.006 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

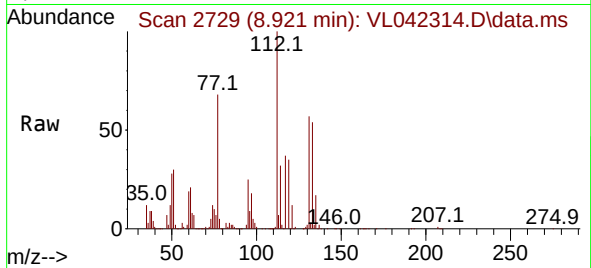
Tgt Ion:131 Resp: 271061
Ion Ratio Lower Upper
131 100
133 93.8 76.6 114.8
119 59.2 49.8 74.6





#57
Chlorobenzene
Concen: 12.486 ppbv
RT: 8.921 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

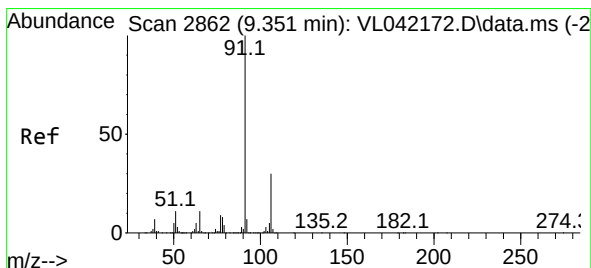
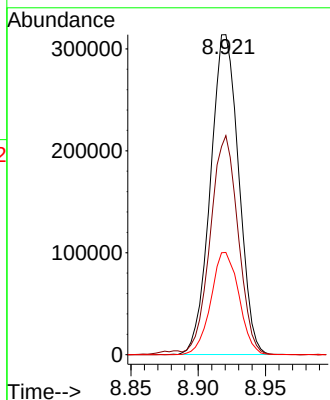
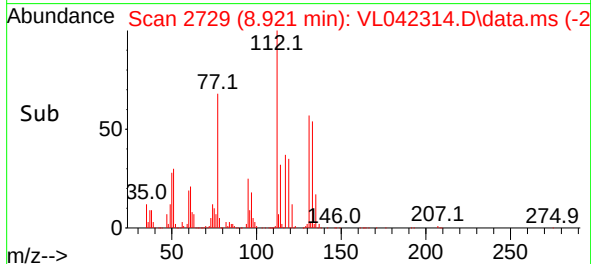
Instrument :
MSVOA_L
ClientSampleId :
VL0411ABS01



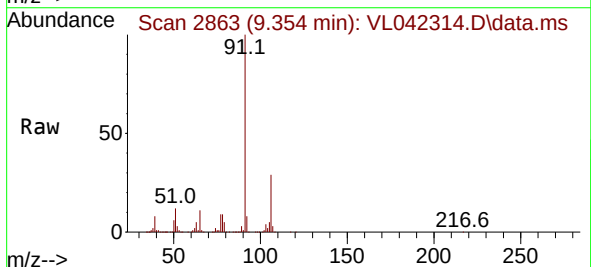
Tgt Ion:112 Resp: 457204
Ion Ratio Lower Upper
112 100
77 68.4 58.2 87.2
114 31.9 29.1 35.5

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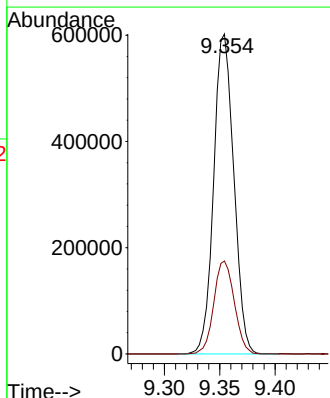
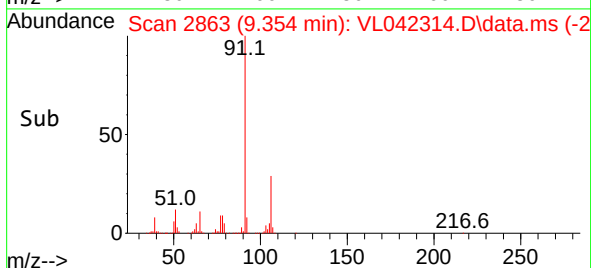
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

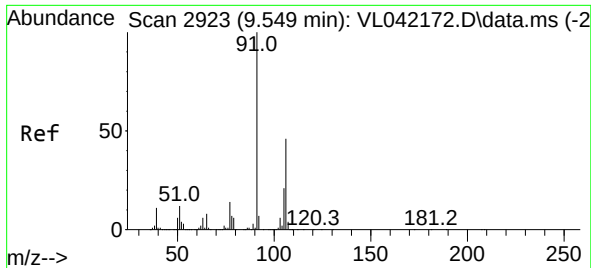


#58
Ethyl Benzene
Concen: 11.105 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23



Tgt Ion: 91 Resp: 761549
Ion Ratio Lower Upper
91 100
106 29.1 24.2 36.2





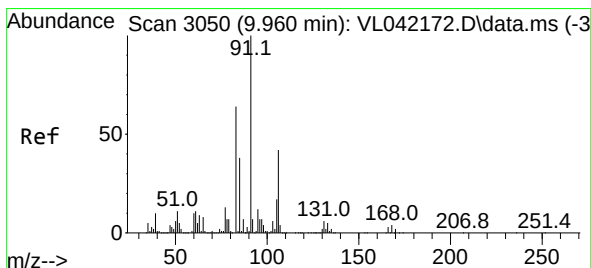
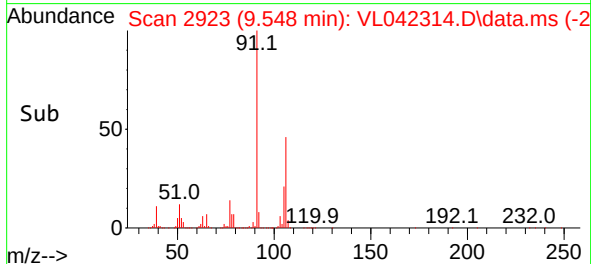
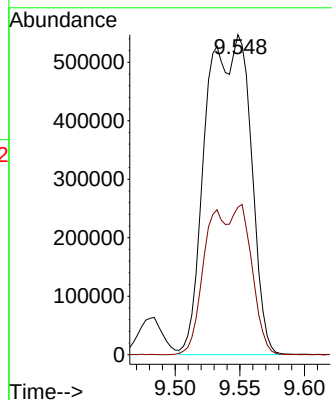
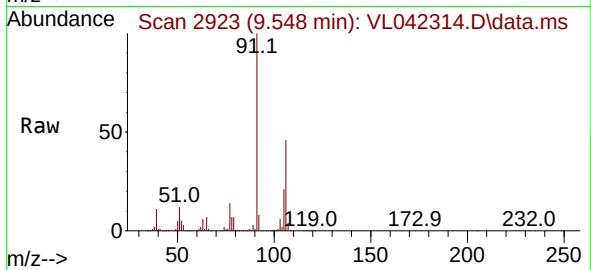
#59
m/p-Xylene
Concen: 24.171 ppbv m
RT: 9.548 min Scan# 2923
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Instrument :
MSVOA_L
ClientSampleId :
VL0411ABS01

Tgt Ion: 91 Resp: 132351
Ion Ratio Lower Upper
91 100
106 46.6 36.4 54.6

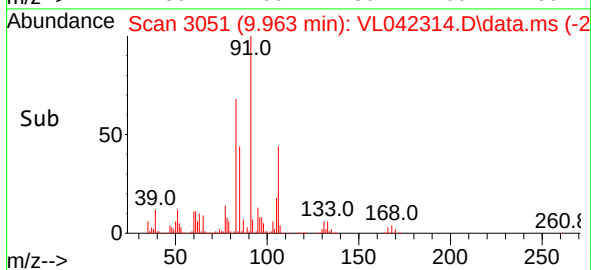
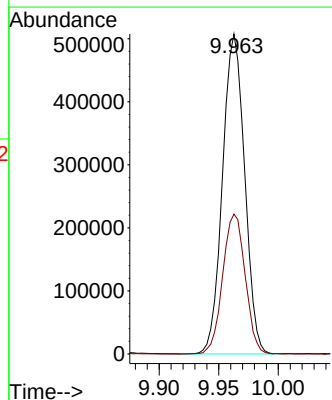
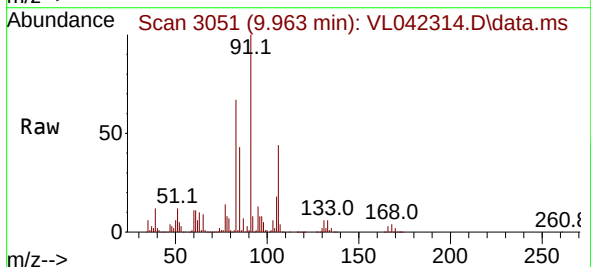
Manual Integrations
APPROVED

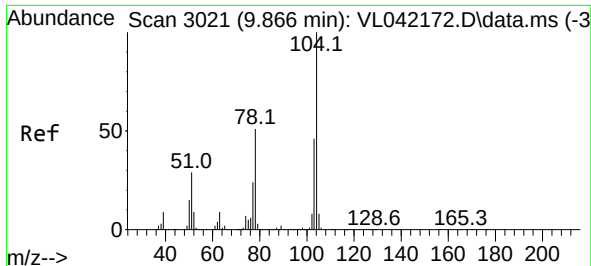
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#60
o-Xylene
Concen: 11.929 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 91 Resp: 654791
Ion Ratio Lower Upper
91 100
106 44.4 20.8 62.5





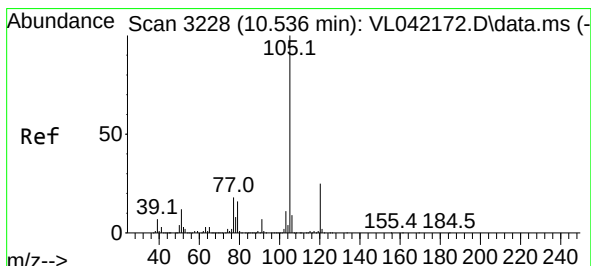
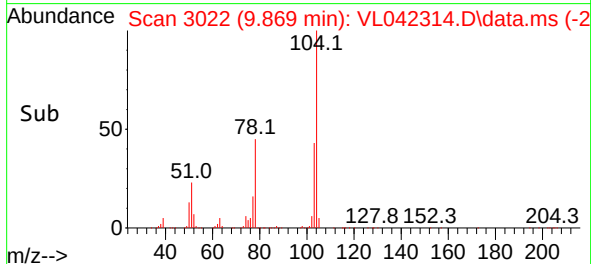
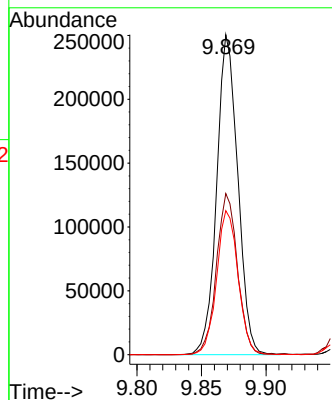
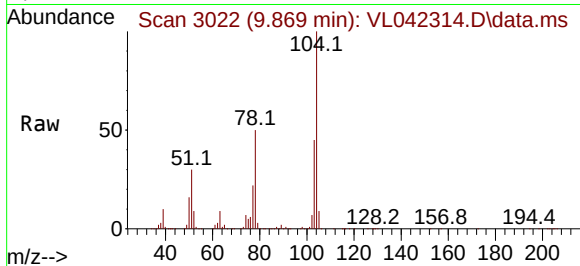
#61
Styrene
Concen: 10.470 ppbv
RT: 9.869 min Scan# 3021
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Instrument :
MSVOA_L
ClientSampleId :
VL0411ABS01

Tgt Ion:104 Resp: 284318
Ion Ratio Lower Upper
104 100
78 50.5 41.8 62.6
103 45.9 37.0 55.4

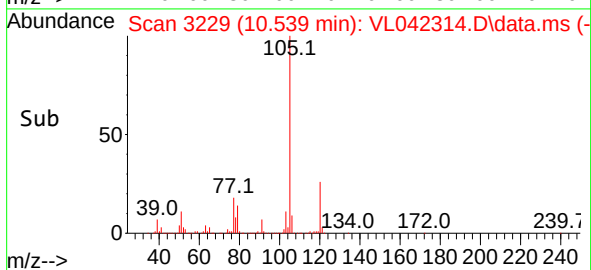
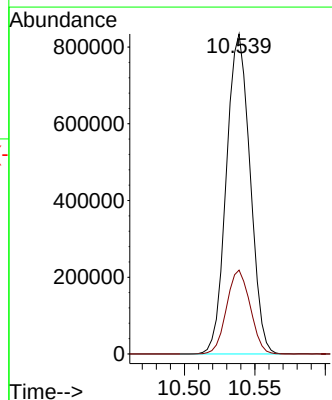
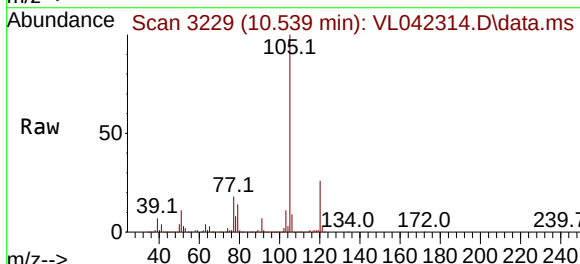
Manual Integrations
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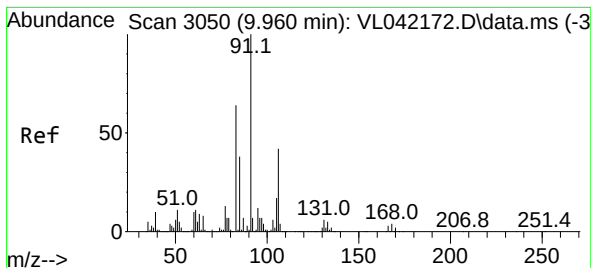
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#62
Isopropylbenzene
Concen: 11.887 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

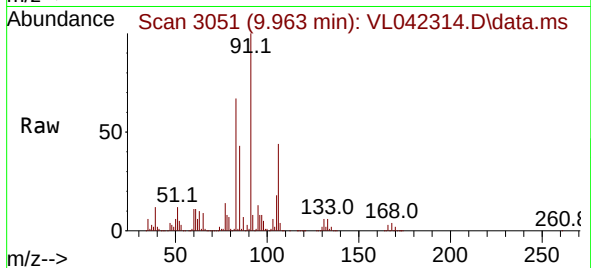
Tgt Ion:105 Resp: 975799
Ion Ratio Lower Upper
105 100
120 26.1 19.9 29.9





#63
1,1,2,2-Tetrachloroethane
Concen: 13.222 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

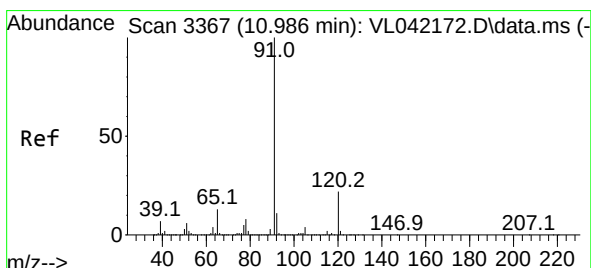
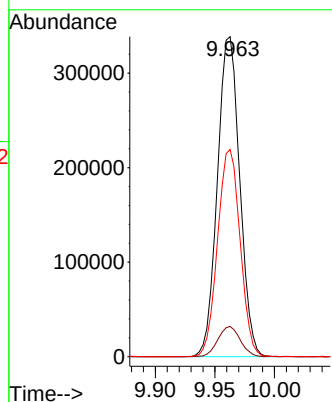
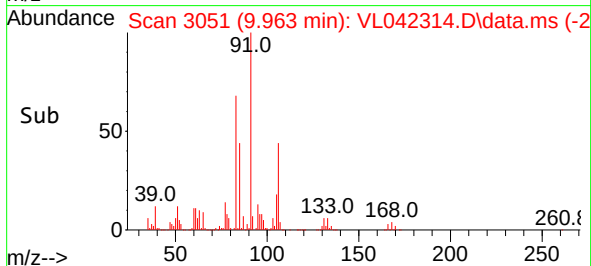
Instrument :
MSVOA_L
ClientSampleId :
VL0411ABS01



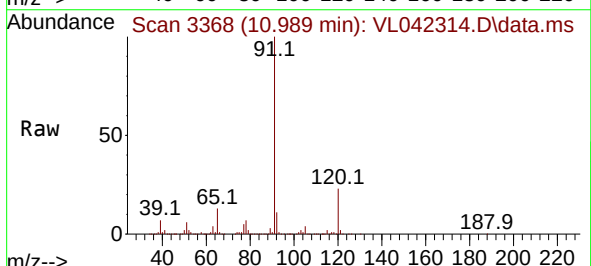
Tgt Ion: 83 Resp: 440972
Ion Ratio Lower Upper
83 100
131 9.5 4.8 14.4
85 65.3 32.5 97.5

Manual Integrations
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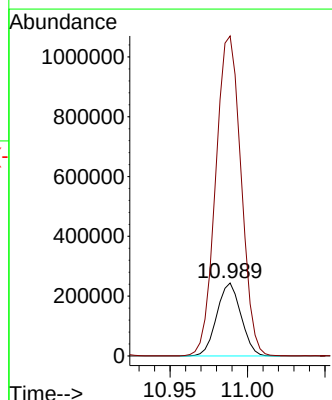
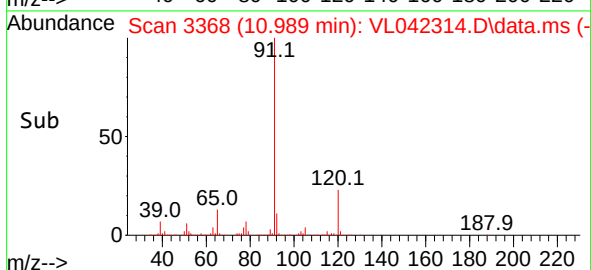
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

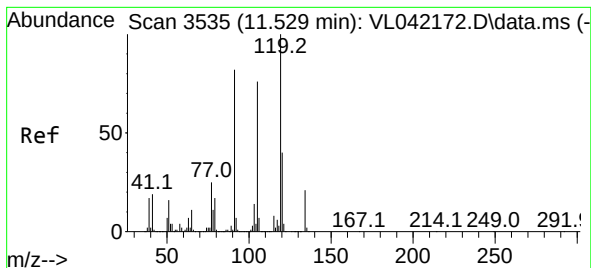


#64
n-propylbenzene
Concen: 12.518 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23



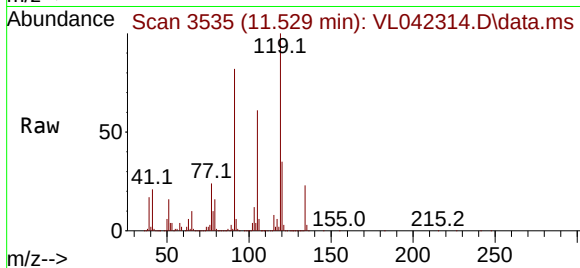
Tgt Ion:120 Resp: 264518
Ion Ratio Lower Upper
120 100
91 461.4 376.9 565.3





#65
tert-Butylbenzene
Concen: 11.973 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

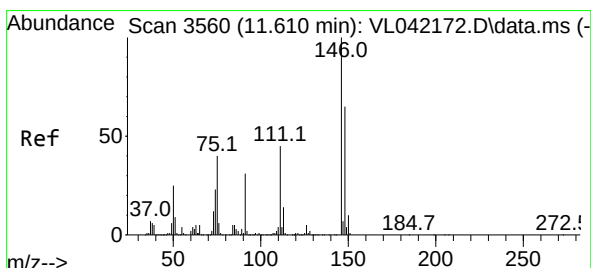
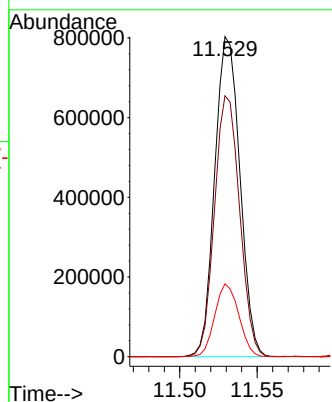
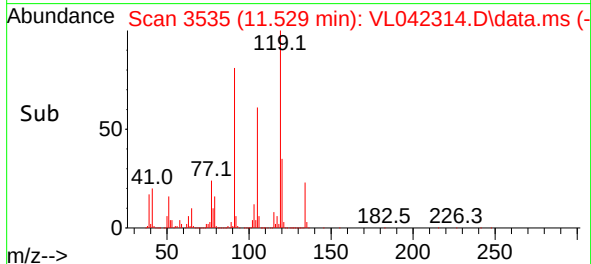
Instrument :
MSVOA_L
ClientSampleId :
VL0411ABS01



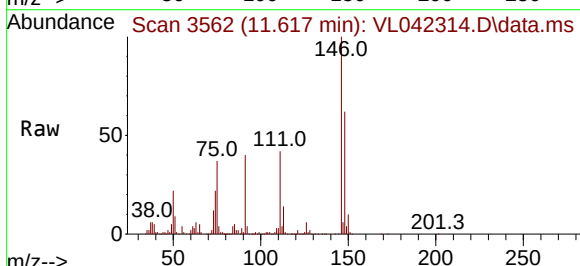
Tgt Ion: 119 Resp: 908940
Ion Ratio Lower Upper
119 100
91 81.4 66.0 99.0
134 21.7 16.7 25.1

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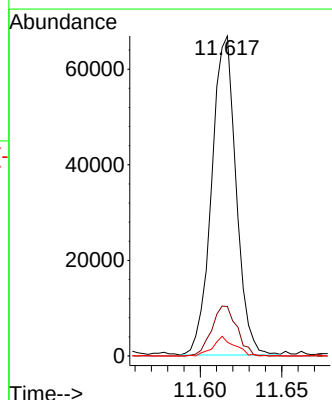
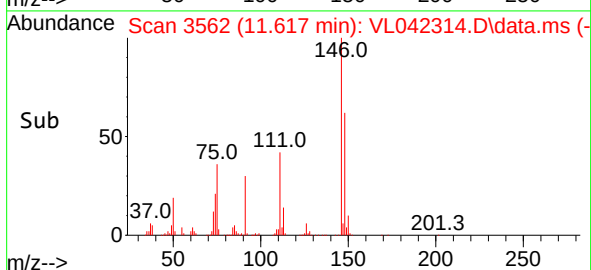
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

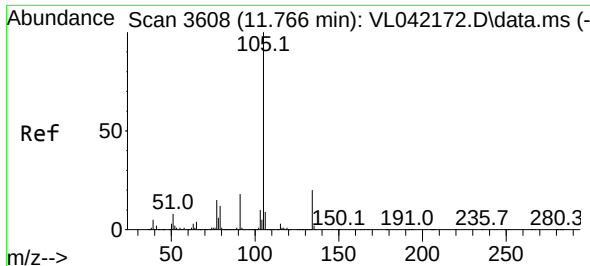


#66
Benzyl Chloride
Concen: 8.634 ppbv
RT: 11.617 min Scan# 3562
Delta R.T. 0.006 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23



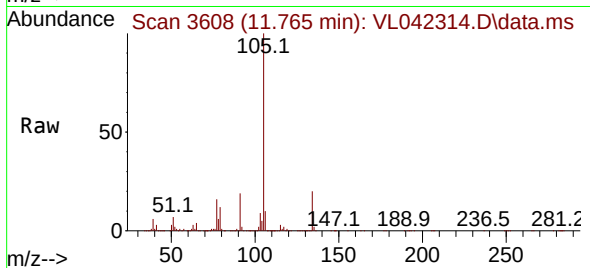
Tgt Ion: 91 Resp: 69548
Ion Ratio Lower Upper
91 100
126 16.1 13.8 20.6
128 5.5 4.5 6.7





#67
sec-Butylbenzene
Concen: 12.320 ppbv
RT: 11.765 min Scan# 3608
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

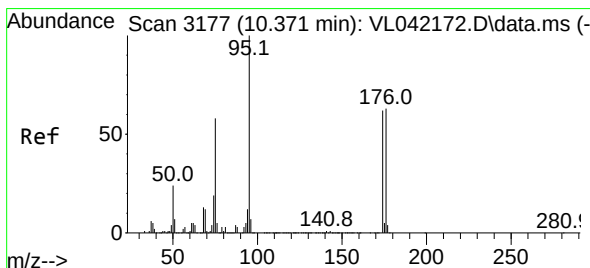
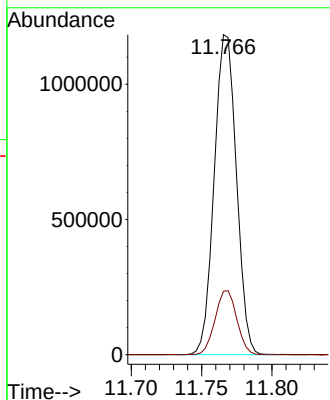
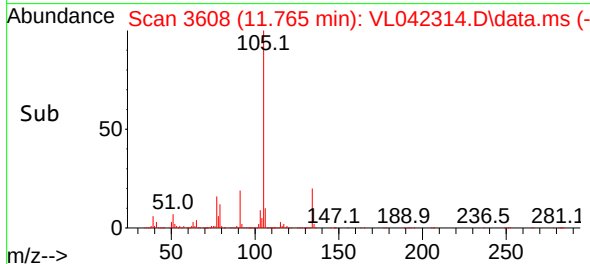
Instrument :
MSVOA_L
ClientSampleId :
VL0411ABS01



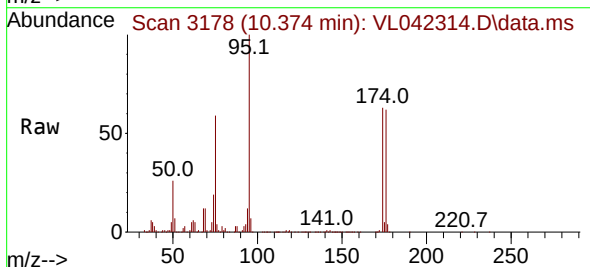
Tgt Ion:105 Resp: 1300090
Ion Ratio Lower Upper
105 100
134 19.6 15.5 23.3

Manual Integrations
APPROVED

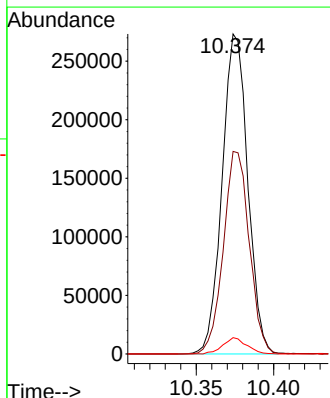
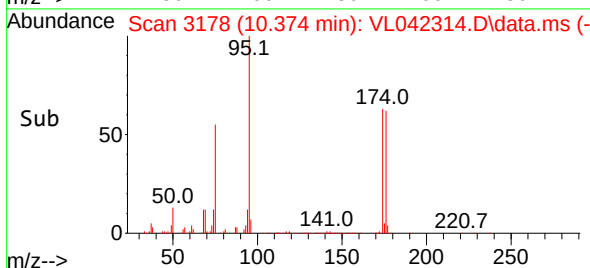
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

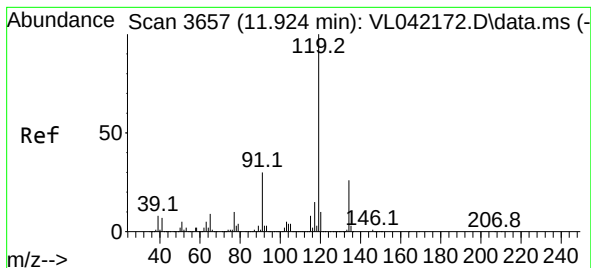


#68
1-Bromo-4-Fluorobenzene
Concen: 9.910 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23



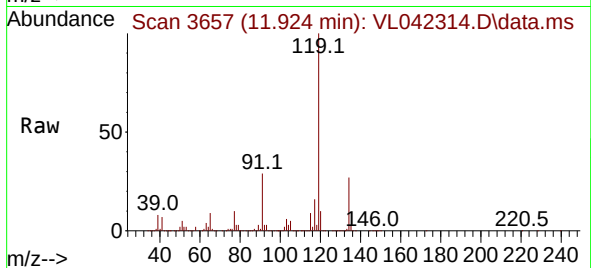
Tgt Ion: 95 Resp: 314180
Ion Ratio Lower Upper
95 100
174 64.2 50.6 76.0
175 4.7 3.8 5.6





#69
p-Isopropyltoluene
Concen: 12.051 ppbv
RT: 11.924 min Scan# 3657
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

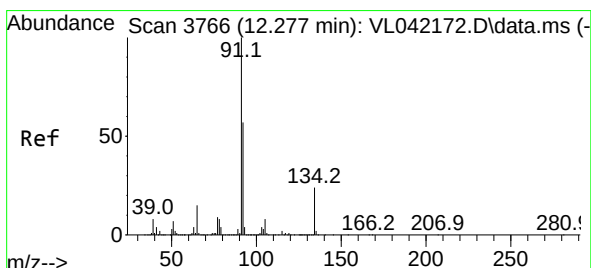
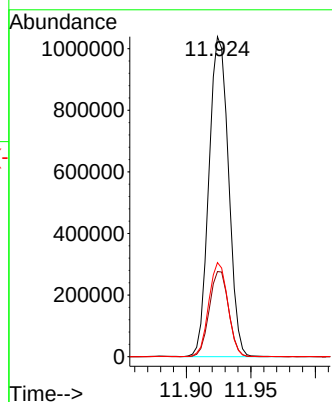
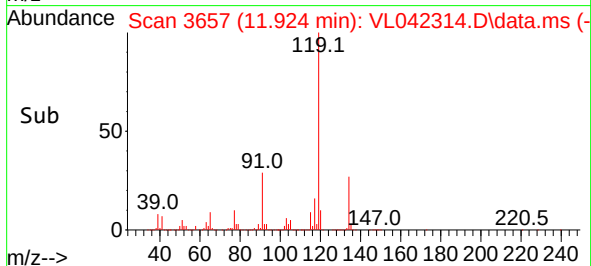
Instrument :
MSVOA_L
ClientSampleId :
VL0411ABS01



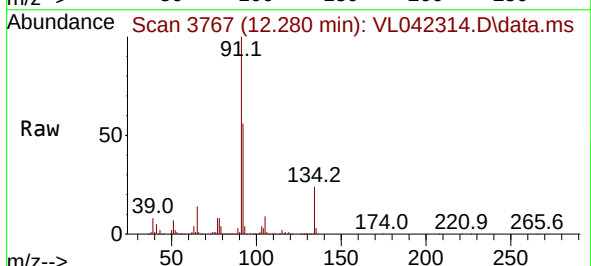
Tgt Ion: 119 Resp: 109504
Ion Ratio Lower Upper
119 100
134 26.3 20.4 30.6
91 28.5 23.7 35.5

Manual Integrations
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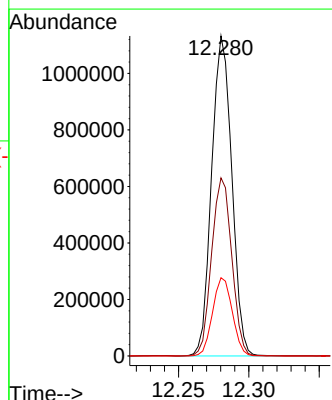
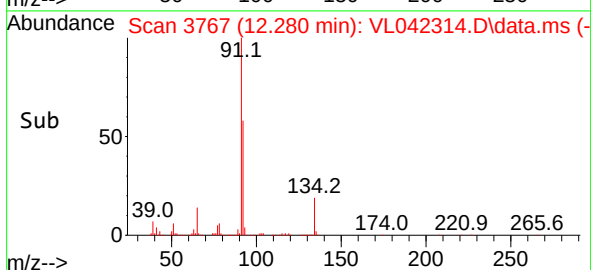
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

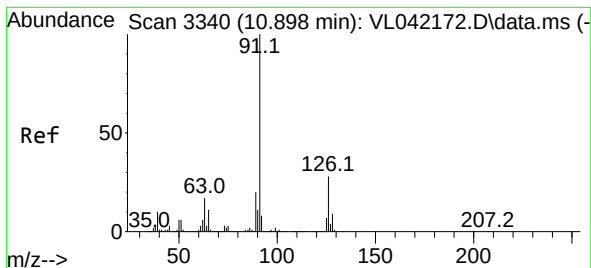


#70
n-Butylbenzene
Concen: 12.159 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23



Tgt Ion: 91 Resp: 1129853
Ion Ratio Lower Upper
91 100
92 55.7 44.9 67.3
134 23.9 19.2 28.8





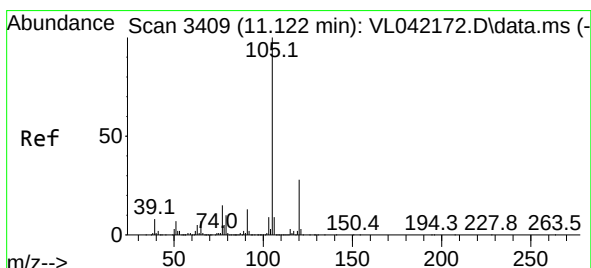
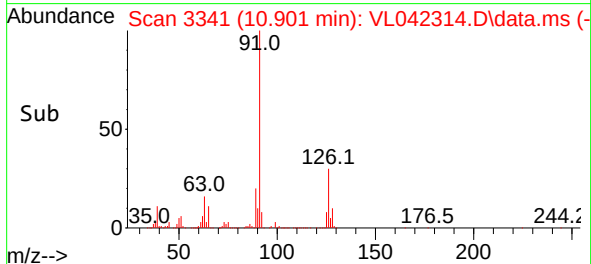
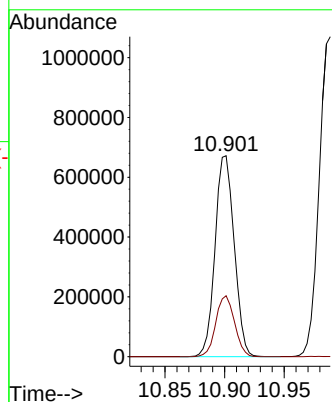
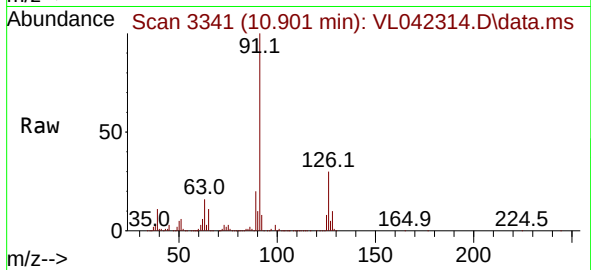
#71
2-Chlorotoluene
Concen: 11.768 ppbv
RT: 10.901 min Scan# 31
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Instrument :
MSVOA_L
ClientSampleId :
VL0411ABS01

Tgt Ion: 91 Resp: 74973
Ion Ratio Lower Upper
91 100
126 29.7 11.6 46.4

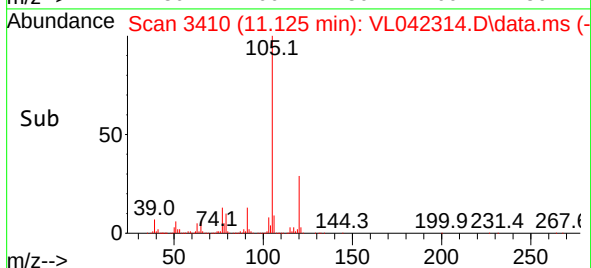
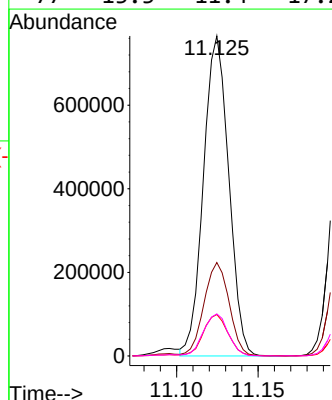
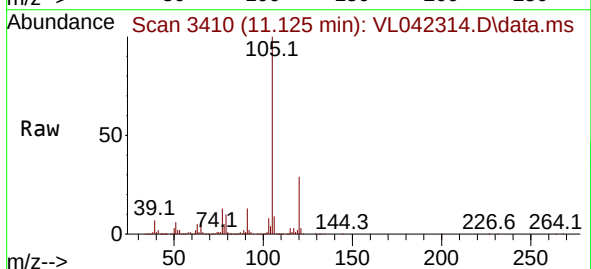
Manual Integrations
APPROVED

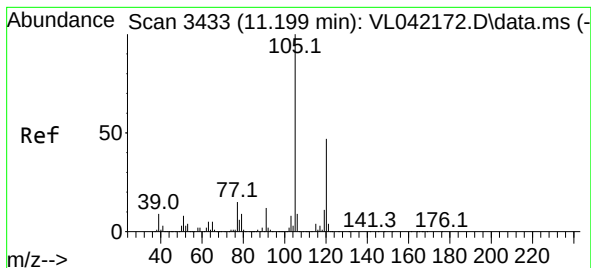
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#72
4-Ethyltoluene
Concen: 12.071 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

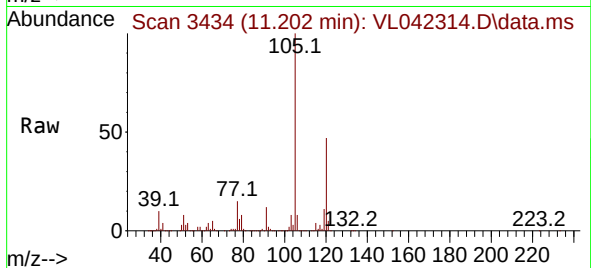
Tgt Ion:105 Resp: 825037
Ion Ratio Lower Upper
105 100
120 29.7 23.4 35.0
91 13.0 10.3 15.5
77 13.3 11.4 17.2





#73
1,3,5-Trimethylbenzene
Concen: 11.914 ppbv
RT: 11.202 min Scan# 3433
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

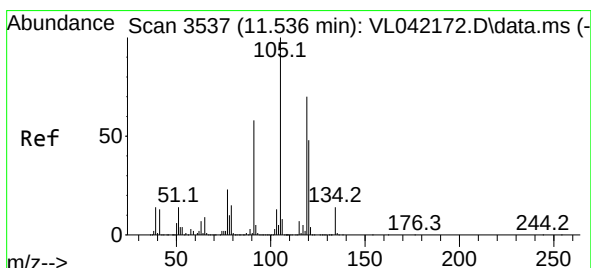
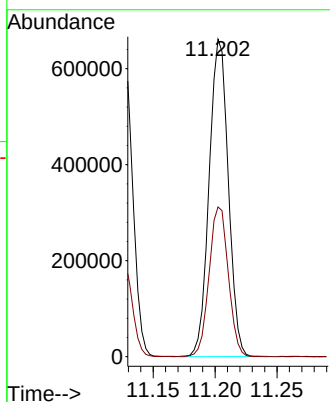
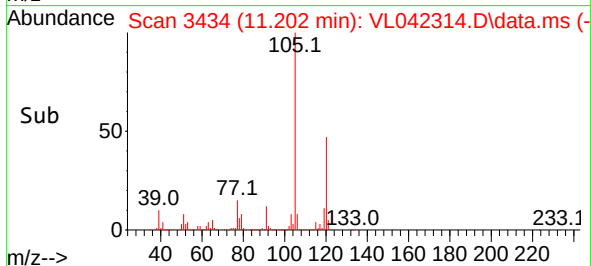
Instrument :
MSVOA_L
ClientSampleId :
VL0411ABS01



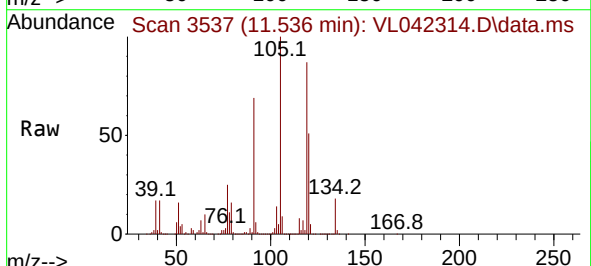
Tgt Ion:105 Resp: 711175
Ion Ratio Lower Upper
105 100
120 47.2 37.4 56.0

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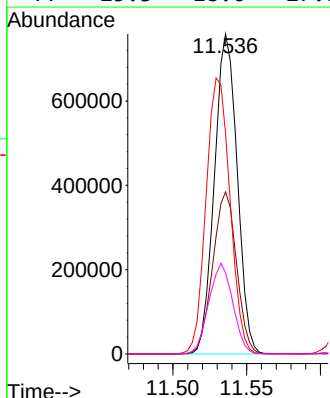
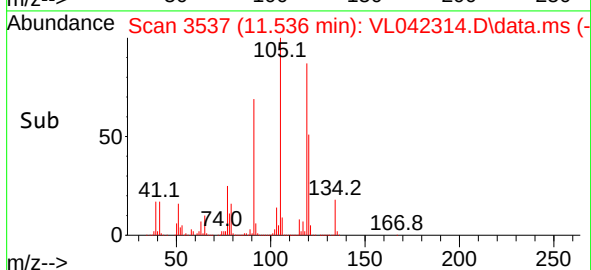
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

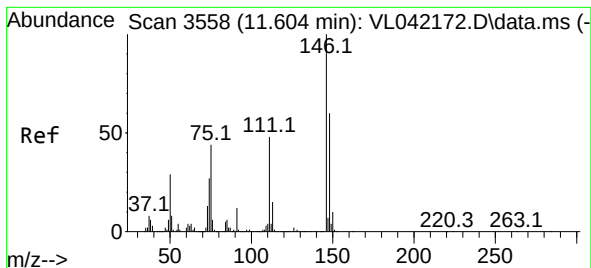


#74
1,2,4-Trimethylbenzene
Concen: 11.873 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23



Tgt Ion:105 Resp: 816505
Ion Ratio Lower Upper
105 100
120 50.6 38.6 58.0
91 68.8 46.2 69.2
77 25.3 18.6 27.8





#75

1,3-Dichlorobenzene

Concen: 12.835 ppbv

RT: 11.607 min Scan# 3558

Delta R.T. 0.003 min

Lab File: VL042314.D

Acq: 11 Apr 2025 11:23

Instrument :

MSVOA_L

ClientSampleId :

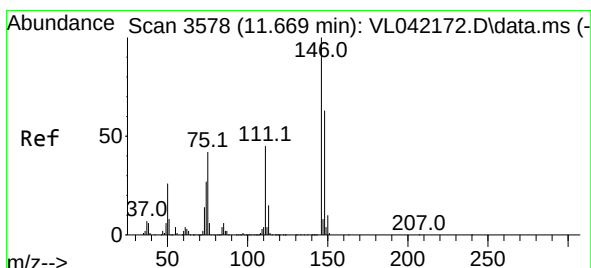
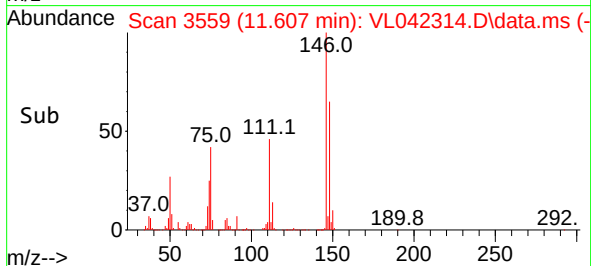
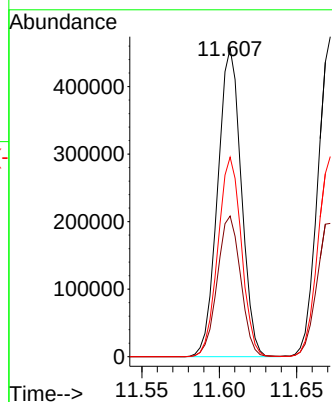
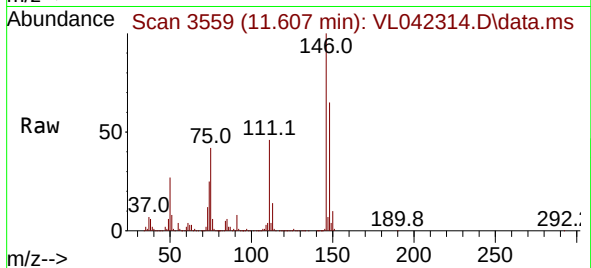
VL0411ABS01

Tgt Ion:146 Resp: 484099
 Ion Ratio Lower Upper
 146 100
 111 45.2 23.8 71.2
 148 64.3 31.9 95.9

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/16/2025
 Supervised By :Mahesh Dadoda 04/17/2025



#76

1,4-Dichlorobenzene

Concen: 12.933 ppbv

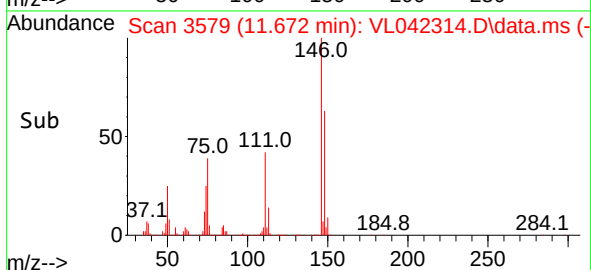
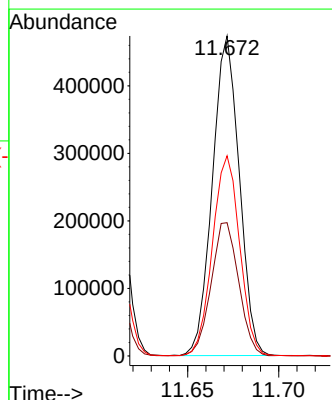
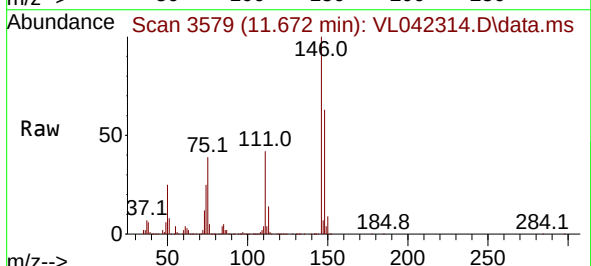
RT: 11.672 min Scan# 3579

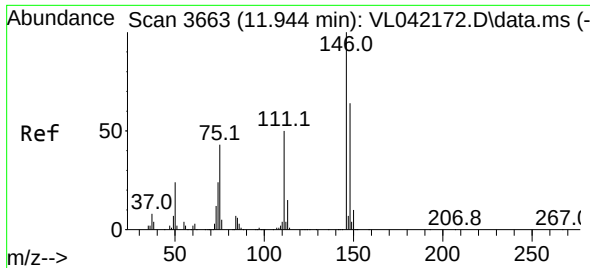
Delta R.T. 0.003 min

Lab File: VL042314.D

Acq: 11 Apr 2025 11:23

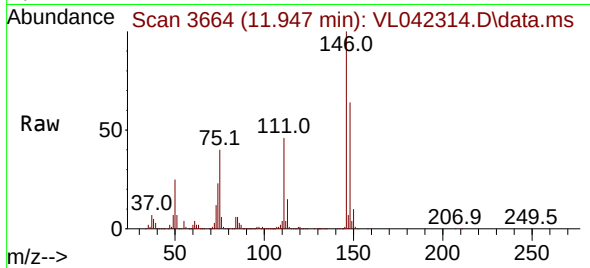
Tgt Ion:146 Resp: 485460
 Ion Ratio Lower Upper
 146 100
 111 43.1 23.0 69.0
 148 63.7 31.9 95.7





#77
1,2-Dichlorobenzene
Concen: 13.218 ppbv
RT: 11.947 min Scan# 3663
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

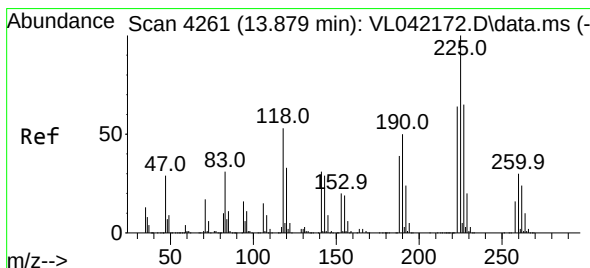
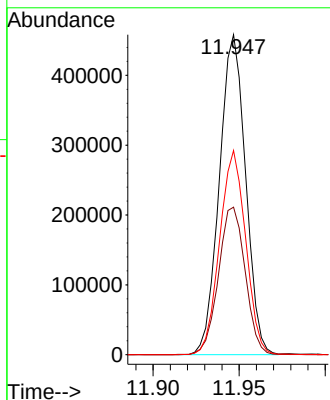
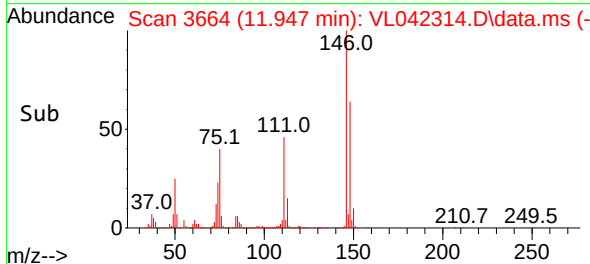
Instrument :
MSVOA_L
ClientSampleId :
VL0411ABS01



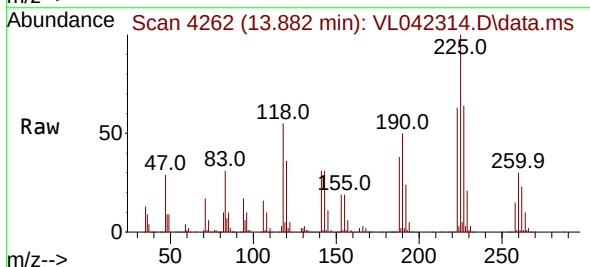
Tgt Ion:146 Resp: 48542
Ion Ratio Lower Upper
146 100
111 47.1 24.8 74.3
148 63.5 31.6 94.8

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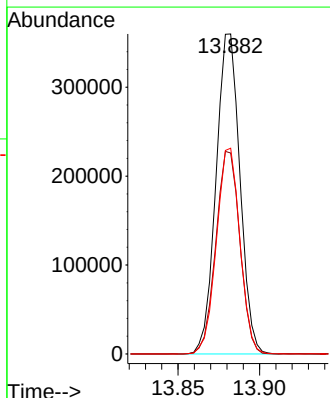
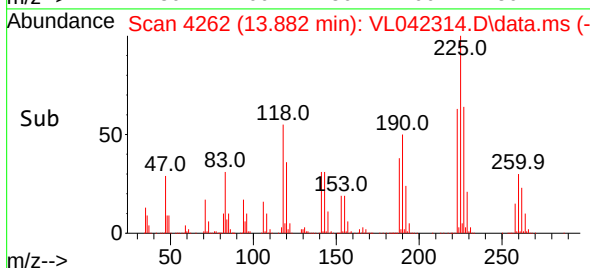
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

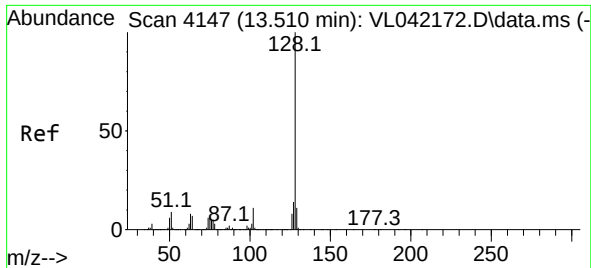


#78
Hexachloro-1,3-Butadiene
Concen: 9.814 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23



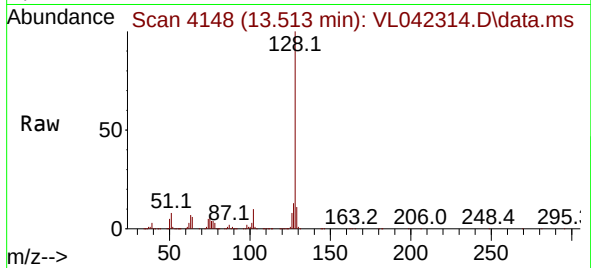
Tgt Ion:225 Resp: 366850
Ion Ratio Lower Upper
225 100
223 63.5 50.6 76.0
227 63.2 51.2 76.8





#79
Naphthalene
Concen: 10.904 ppbv
RT: 13.513 min Scan# 4147
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

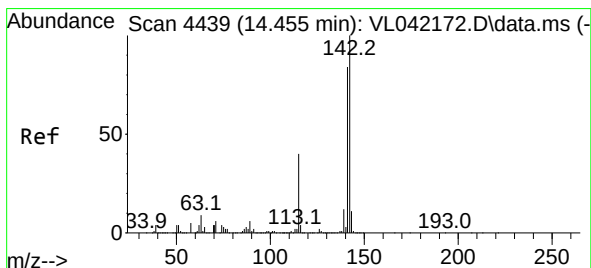
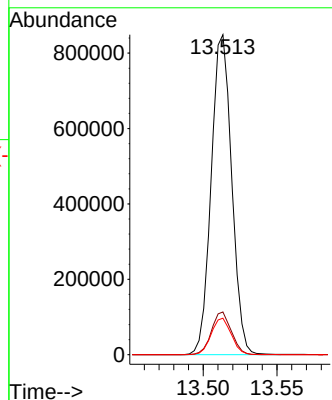
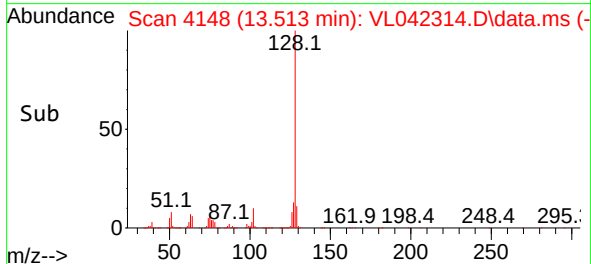
Instrument :
MSVOA_L
ClientSampleId :
VL0411ABS01



Tgt Ion:128 Resp: 820200
Ion Ratio Lower Upper
128 100
127 13.3 10.8 16.2
129 11.4 9.0 13.4

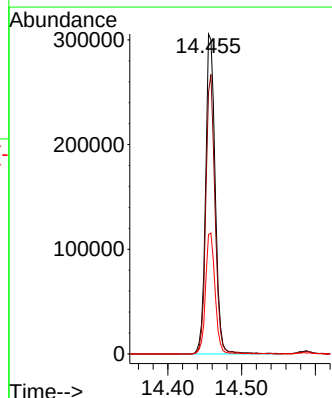
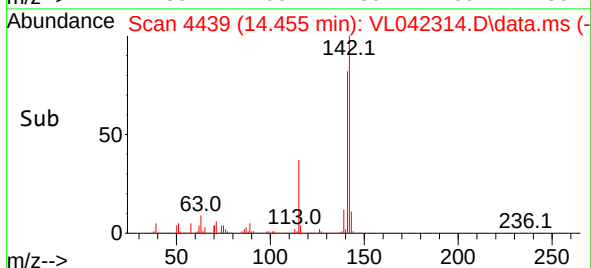
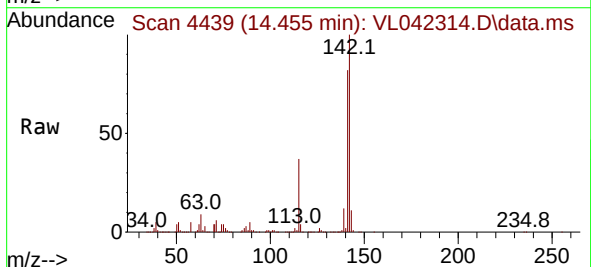
Manual Integrations
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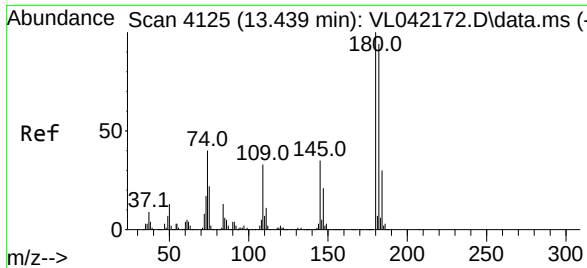
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#80
Naphthalene,2-methyl-
Concen: 7.434 ppbv
RT: 14.455 min Scan# 4439
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

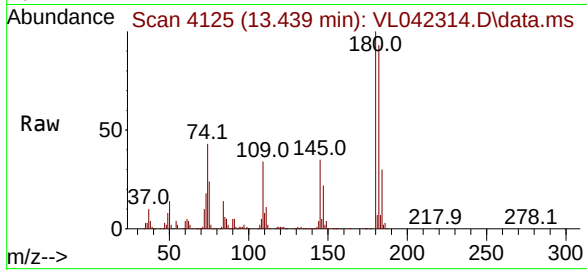
Tgt Ion:142 Resp: 274227
Ion Ratio Lower Upper
142 100
141 84.7 66.3 99.5
115 37.9 31.6 47.4





#81
 1,2,4-Trichlorobenzene
 Concen: 10.762 ppbv
 RT: 13.439 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VL042314.D
 Acq: 11 Apr 2025 11:23

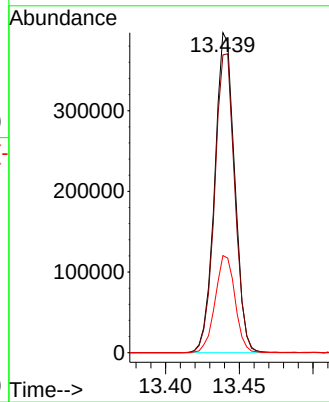
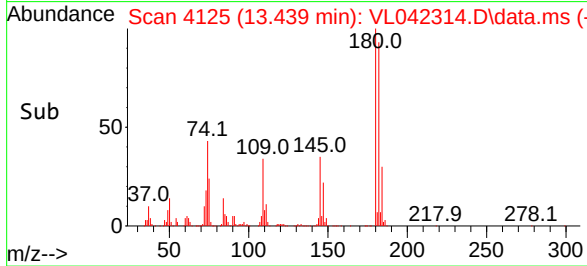
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0411ABS01



Tgt Ion:180 Resp: 373404
 Ion Ratio Lower Upper
 180 100
 182 94.7 75.1 112.7
 184 30.3 24.4 36.6

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 04/16/2025
 Supervised By :Mahesh Dadoda 04/17/2025



Report of Analysis

Client:	Woodard & Curran	Date Collected:	
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	
Client Sample ID:	VL0415ABS01	SDG No.:	Q1665
Lab Sample ID:	VL0415ABS01	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
VL042328.D	1		04/15/25 12:54	VL041525

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	8.40	41.5		1.04	2.47	ug/m3
74-87-3	Chloromethane	8.50	17.6		0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	7.50	19.2		0.030	0.080	ug/m3
74-83-9	Bromomethane	7.70	29.9		0.54	1.94	ug/m3
75-00-3	Chloroethane	7.90	20.9		0.45	1.32	ug/m3
109-99-9	Tetrahydrofuran	9.40	27.7		0.38	1.47	ug/m3
75-69-4	Trichlorofluoromethane	8.20	46.1		0.90	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	7.60	58.3		1.23	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	8.20	57.3		0.63	3.49	ug/m3
75-65-0	tert-Butyl alcohol	6.80	20.6		0.58	1.52	ug/m3
142-82-5	Heptane	8.50	34.8		0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	7.30	28.9		0.56	1.98	ug/m3
67-64-1	Acetone	7.40	17.6		0.57	1.19	ug/m3
75-15-0	Carbon Disulfide	7.40	23.0		0.50	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	7.20	26.0		0.43	1.80	ug/m3
75-09-2	Methylene Chloride	6.70	23.3		0.66	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	7.20	28.6		0.75	1.98	ug/m3
75-34-3	1,1-Dichloroethane	8.30	33.6		0.53	2.02	ug/m3
110-82-7	Cyclohexane	7.90	27.2		0.76	1.72	ug/m3
78-93-3	2-Butanone	9.30	27.4		0.35	1.47	ug/m3
56-23-5	Carbon Tetrachloride	9.10	57.2		0.060	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	8.10	32.1		0.36	1.98	ug/m3
67-66-3	Chloroform	8.80	43.0		0.39	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	7.50	40.9		0.050	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	9.50	44.4		0.47	2.34	ug/m3
71-43-2	Benzene	9.30	29.7		0.29	1.60	ug/m3
107-06-2	1,2-Dichloroethane	9.30	37.6		0.36	2.02	ug/m3
79-01-6	Trichloroethene	9.00	48.4		0.11	0.16	ug/m3
78-87-5	1,2-Dichloropropane	9.30	43.0		0.51	2.31	ug/m3
75-27-4	Bromodichloromethane	9.40	63.0		0.54	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	8.40	34.4		0.37	2.05	ug/m3
108-88-3	Toluene	8.60	32.4		0.41	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	7.20	32.7		0.27	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	7.80	35.4		0.27	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	9.60	52.4		0.38	2.73	ug/m3

Report of Analysis

Client:	Woodard & Curran	Date Collected:	
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	
Client Sample ID:	VL0415ABS01	SDG No.:	Q1665
Lab Sample ID:	VL0415ABS01	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
VL042328.D	1		04/15/25 12:54	VL041525

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	9.30	79.2		0.60	4.26	ug/m3
106-93-4	1,2-Dibromoethane	9.10	69.9		0.54	0.77	ug/m3
127-18-4	Tetrachloroethene	8.00	54.3		0.14	0.20	ug/m3
108-90-7	Chlorobenzene	9.70	44.7		0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	8.70	37.8		0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	18.5	80.4		0.91	4.34	ug/m3
95-47-6	o-Xylene	9.10	39.5		0.52	2.17	ug/m3
100-42-5	Styrene	8.20	34.9		0.47	2.13	ug/m3
75-25-2	Bromoform	9.20	95.1		0.62	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	10.2	70.0		0.070	0.21	ug/m3
95-49-8	2-Chlorotoluene	9.00	46.6		0.57	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	9.10	44.7		0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	8.90	43.8		0.39	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	9.80	58.9		0.48	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	9.90	59.5		0.30	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	10.2	61.3		0.48	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	9.60	71.3		0.67	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	8.10	86.4		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	10.0	52.4		0.42	0.52	ug/m3
622-96-8	4-Ethyltoluene	9.20	45.2		0.59	2.46	ug/m3
110-54-3	Hexane	8.50	30.0		0.39	1.76	ug/m3
107-05-1	Allyl Chloride	7.50	23.5		0.47	1.57	ug/m3
123-91-1	1,4-Dioxane	8.10	29.2		0.76	1.80	ug/m3
80-62-6	Methyl Methacrylate	8.10	33.2		0.37	2.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.70			70 (65) - 130 (135)	97%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	172000		2.81			
540-36-3	1,4-Difluorobenzene	445000		3.994			
3114-55-4	Chlorobenzene-d5	400000		8.917			

Report of Analysis

Client:	Woodard & Curran	Date Collected:	
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	
Client Sample ID:	VL0415ABS01	SDG No.:	Q1665
Lab Sample ID:	VL0415ABS01	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
VL042328.D	1		04/15/25 12:54	VL041525

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
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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\VL041525\
 Data File : VL042328.D
 Acq On : 15 Apr 2025 12:54
 Operator : SY/MD
 Sample : VL0415ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0415ABS01

Quant Time: Apr 16 01:30:27 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 02:00:52 2025

Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 04/16/2025
 Supervised By : Mahesh Dadoda 04/16/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.810	49	171986	10.000	ppbv	0.03
33) 1,4-Difluorobenzene	3.994	114	444595	10.000	ppbv	0.04
55) Chlorobenzene-d5	8.917	117	399604	10.000	ppbv	0.04
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.406	95	318902	9.718	ppbv	0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.200%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.509	85	214241	8.437	ppbv	99
3) Chlorodifluoromethane	1.486	51	234966	9.058	ppbv	97
4) Chloromethane	1.541	50	88230	8.502	ppbv	98
5) Vinyl Chloride	1.589	62	82221	7.476	ppbv	94
6) Bromomethane	1.680	94	36050	7.665	ppbv	100
7) Chloroethane	1.716	64	33039	7.931	ppbv	97
8) Dichlorotetrafluoroethane	1.564	85	178173	8.239	ppbv	95
9) Propene	1.492	41	94136	7.917	ppbv	99
10) Heptane	5.027	43	267288	8.451	ppbv	99
11) Trichlorofluoromethane	1.890	101	201665	8.162	ppbv	99
12) 1,1,2-Trichlorotrifluoro...	2.156	101	154306	7.598	ppbv	98
13) Ethanol	1.732	45	4407	3.921	ppbv	97
14) Bromoethene	1.793	108	57635	7.408	ppbv	99
15) Acetone	1.848	43	178724	7.430	ppbv	96
16) 1,3-Butadiene	1.619	39	89479	7.617	ppbv	96
17) tert-Butyl alcohol	2.055	59	202421	6.757	ppbv	99
18) 1,1-Dichloroethene	2.049	96	69013	7.269	ppbv	97
19) Isopropyl Alcohol	1.900	45	100289	7.390	ppbv	97
20) Methylene Chloride	2.075	84	60054	6.704	ppbv	88
21) Allyl Chloride	2.111	41	127800	7.534	ppbv	98
22) trans-1,2-Dichloroethene	2.360	96	78991	7.198	ppbv	98
23) Vinyl Acetate	2.483	43	64777	6.222	ppbv	98
24) 1,1-Dichloroethane	2.428	63	168373	8.277	ppbv	99
25) Ethyl Acetate	2.861	43	545140	8.732	ppbv	99
26) Hexane	2.848	57	205629	8.528	ppbv	97
27) Carbon Disulfide	2.166	76	191388	7.402	ppbv	99
28) Methyl tert-Butyl Ether	2.460	73	107667	7.172	ppbv	96
29) Chloroform	2.874	83	309262	8.763	ppbv	100
30) Cyclohexane	3.891	84	165914	7.924	ppbv	98
31) cis-1,2-Dichloroethene	2.742	61	197651	8.074	ppbv	99
32) 1,1,1-Trichloroethane	3.395	97	304143	7.528	ppbv	97
34) 2-Butanone	2.580	43	300576	9.323	ppbv	98
35) Carbon Tetrachloride	3.797	117	314849	9.065	ppbv	99
36) Benzene	3.690	78	407959	9.256	ppbv	98
37) 1,2-Dichloroethane	3.247	62	235609	9.337	ppbv	99
38) Trichloroethene	4.590	130	164664	8.954	ppbv	96
39) 1,2-Dichloropropane	4.354	63	149260	9.299	ppbv	97
40) 1,4-Dioxane	4.625	88	68773	8.072	ppbv #	95
41) Tetrahydrofuran	3.082	42	173776	9.361	ppbv	95
42) Bromodichloromethane	4.532	83	327497	9.414	ppbv	99
43) Methyl Methacrylate	4.930	69	151531	8.121	ppbv	98
44) 2,2,4-Trimethylpentane	4.680	57	707832	9.503	ppbv	98
45) t-1,3-Dichloropropene	6.470	75	143714	7.179	ppbv	91

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041525\
 Data File : VL042328.D
 Acq On : 15 Apr 2025 12:54
 Operator : SY/MD
 Sample : VL0415ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0415ABS01

Quant Time: Apr 16 01:30:27 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

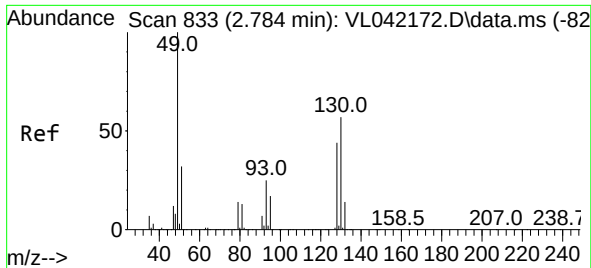
Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 04/16/2025
 Supervised By : Mahesh Dadoda 04/16/2025

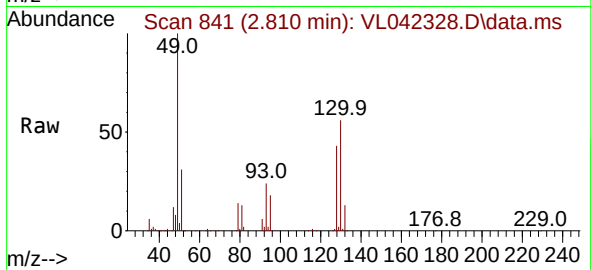
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.658	75	192419	7.841	ppbv	96
47) 1,1,2-Trichloroethane	6.635	97	163251	9.621	ppbv	98
48) Dibromochloromethane	7.428	129	266192	9.256	ppbv	100
49) Bromoform	9.519	173	236686	9.168	ppbv	99
50) 4-Methyl-2-Pentanone	5.807	43	429988	8.416	ppbv	95
51) 2-Hexanone	7.480	43	344172	8.203	ppbv #	96
52) Tetrachloroethene	8.263	164	139845	8.000	ppbv	95
53) Toluene	6.978	91	447178	8.559	ppbv	99
54) 1,2-Dibromoethane	7.694	107	214982	9.089	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.959	131	216770	9.855	ppbv	98
57) Chlorobenzene	8.956	112	369132	9.739	ppbv	95
58) Ethyl Benzene	9.390	91	618669	8.716	ppbv	100
59) m/p-Xylene	9.584	91	1049238m	18.512	ppbv	
60) o-Xylene	9.995	91	517471	9.107	ppbv	96
61) Styrene	9.904	104	229601	8.168	ppbv	97
62) Isopropylbenzene	10.568	105	785673	9.247	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.995	83	351308	10.176	ppbv	99
64) n-propylbenzene	11.018	120	210294	9.615	ppbv	98
65) tert-Butylbenzene	11.558	119	718948	9.149	ppbv	97
66) Benzyl Chloride	11.642	91	55150	6.614	ppbv	99
67) sec-Butylbenzene	11.795	105	1018861	9.328	ppbv	100
69) p-Isopropyltoluene	11.950	119	863264	9.179	ppbv	99
70) n-Butylbenzene	12.306	91	891883	9.273	ppbv	99
71) 2-Chlorotoluene	10.930	91	590408	8.953	ppbv	99
72) 4-Ethyltoluene	11.150	105	652962	9.230	ppbv	98
73) 1,3,5-Trimethylbenzene	11.231	105	559451	9.055	ppbv	100
74) 1,2,4-Trimethylbenzene	11.565	105	632271	8.883	ppbv	97
75) 1,3-Dichlorobenzene	11.633	146	381882	9.782	ppbv	98
76) 1,4-Dichlorobenzene	11.697	146	383116	9.861	ppbv	98
77) 1,2-Dichlorobenzene	11.973	146	386768	10.175	ppbv	98
78) Hexachloro-1,3-Butadiene	13.905	225	314860	8.138	ppbv	100
79) Naphthalene	13.539	128	777722	9.989	ppbv	99
80) Naphthalene,2-methyl-	14.481	142	375541	9.836	ppbv	98
81) 1,2,4-Trichlorobenzene	13.465	180	343011	9.551	ppbv	99

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



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.810 min Scan# 841
Delta R.T. 0.026 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

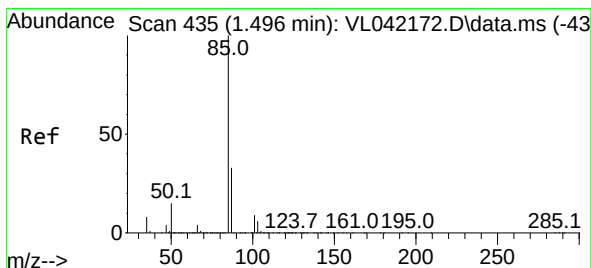
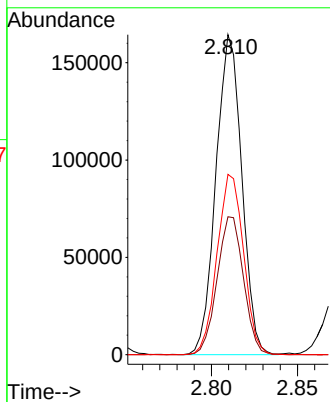
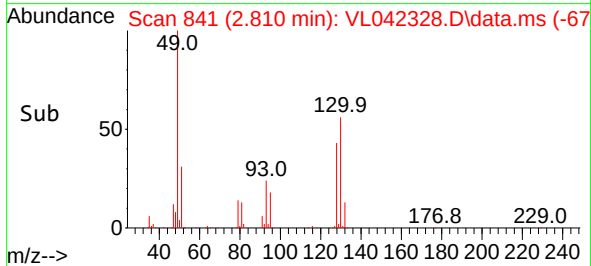
Instrument :
MSVOA_L
ClientSampleId :
VL0415ABS01



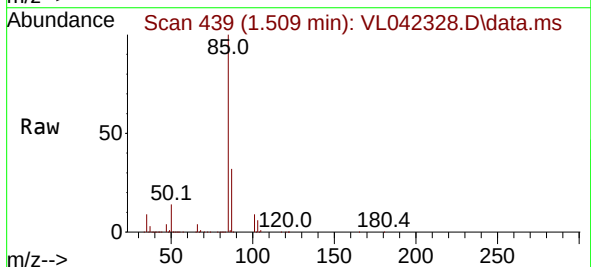
Tgt Ion: 49 Resp: 171986
Ion Ratio Lower Upper
49 100
128 43.9 22.9 68.5
130 57.7 28.8 86.4

Manual Integrations
APPROVED

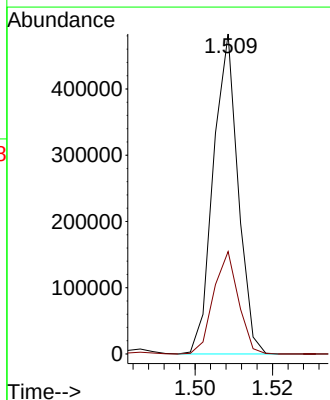
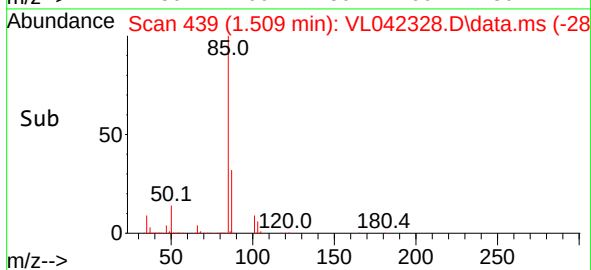
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025

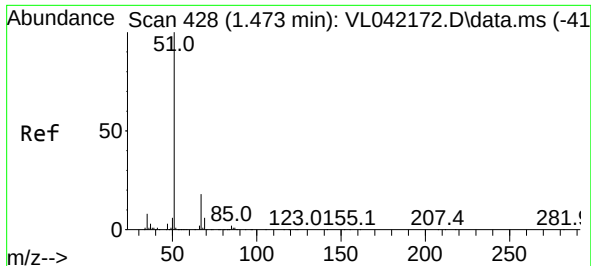


#2
Dichlorodifluoromethane
Concen: 8.437 ppbv
RT: 1.509 min Scan# 439
Delta R.T. 0.013 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54



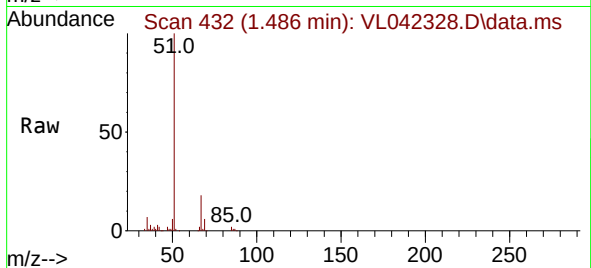
Tgt Ion: 85 Resp: 214241
Ion Ratio Lower Upper
85 100
87 32.0 26.1 39.1





#3
Chlorodifluoromethane
Concen: 9.058 ppbv
RT: 1.486 min Scan# 41
Delta R.T. 0.013 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

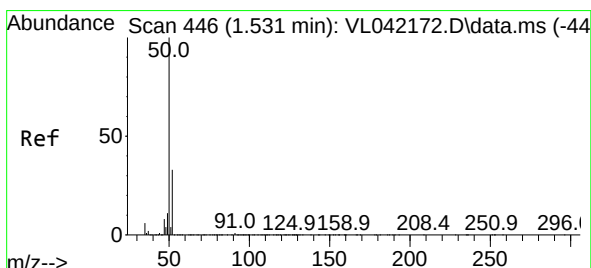
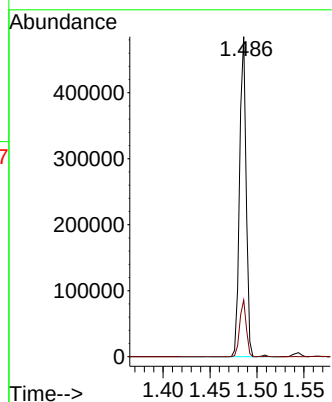
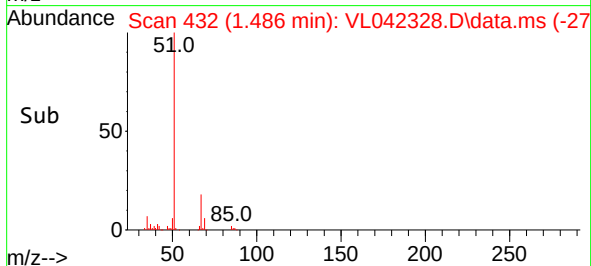
Instrument :
MSVOA_L
ClientSampleId :
VL0415ABS01



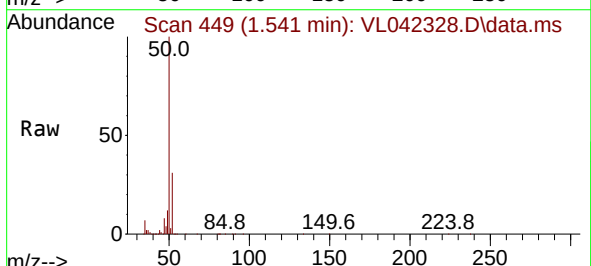
Tgt Ion: 51 Resp: 234960
Ion Ratio Lower Upper
51 100
67 17.6 15.0 22.6

Manual Integrations
APPROVED

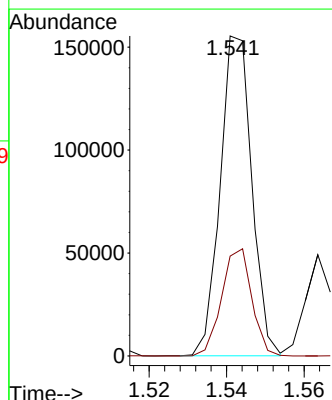
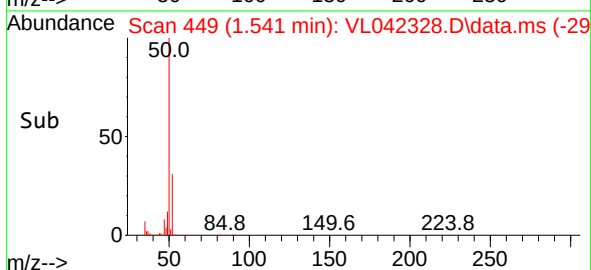
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025

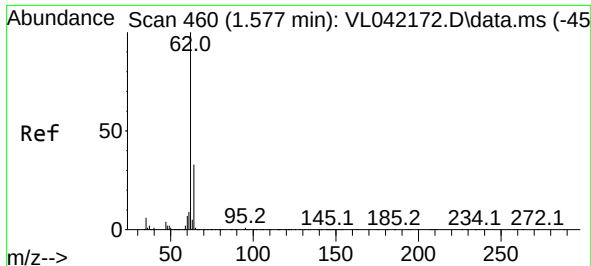


#4
Chloromethane
Concen: 8.502 ppbv
RT: 1.541 min Scan# 449
Delta R.T. 0.010 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54



Tgt Ion: 50 Resp: 88230
Ion Ratio Lower Upper
50 100
52 31.2 26.1 39.1





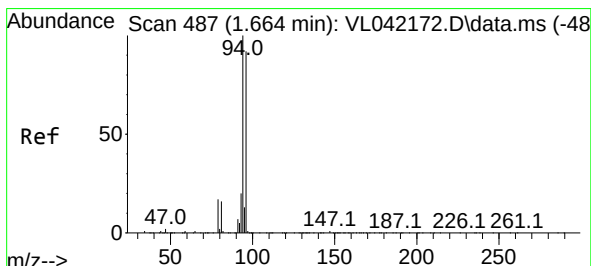
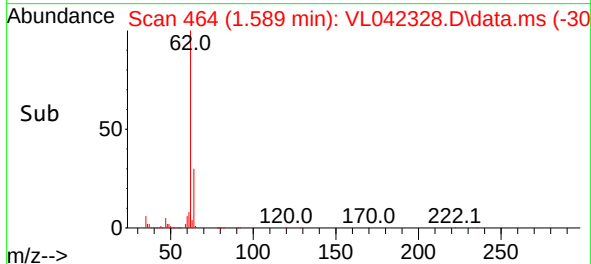
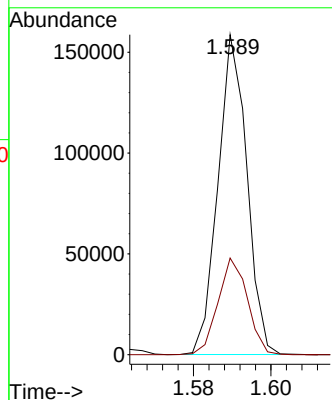
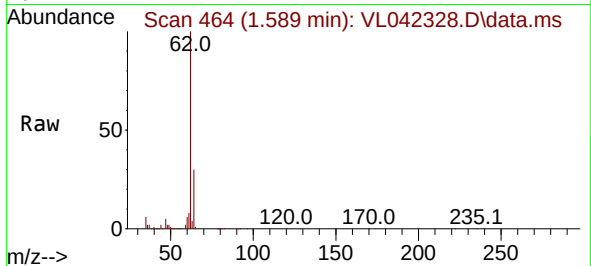
#5
 Vinyl Chloride
 Concen: 7.476 ppbv
 RT: 1.589 min Scan# 40
 Delta R.T. 0.013 min
 Lab File: VL042328.D
 Acq: 15 Apr 2025 12:54

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0415ABS01

Tgt Ion: 62 Resp: 8222
 Ion Ratio Lower Upper
 62 100
 64 30.2 26.6 40.0

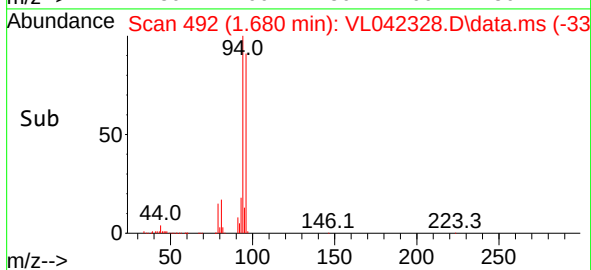
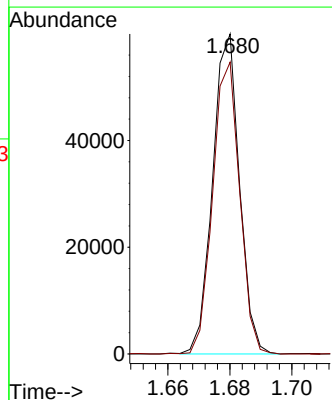
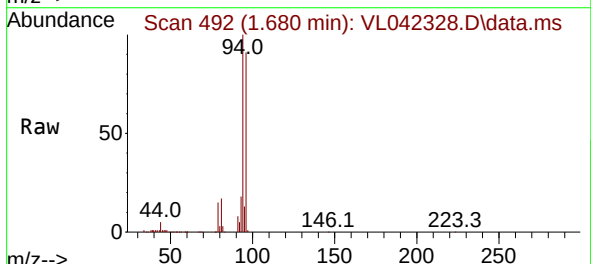
Manual Integrations
 APPROVED

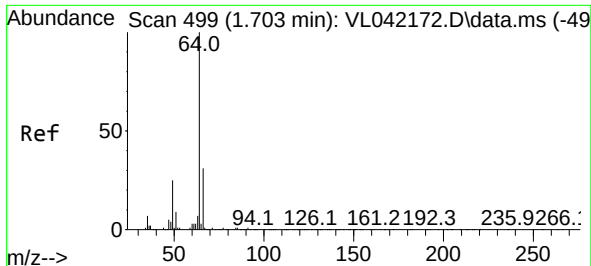
Reviewed By :Semsettin Yesilyurt 04/16/2025
 Supervised By :Mahesh Dadoda 04/16/2025



#6
 Bromomethane
 Concen: 7.665 ppbv
 RT: 1.680 min Scan# 492
 Delta R.T. 0.016 min
 Lab File: VL042328.D
 Acq: 15 Apr 2025 12:54

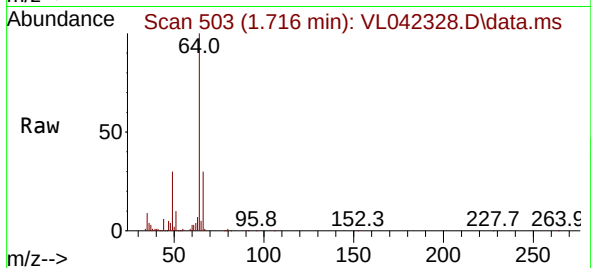
Tgt Ion: 94 Resp: 36050
 Ion Ratio Lower Upper
 94 100
 96 91.2 73.1 109.7





#7
Chloroethane
Concen: 7.931 ppbv
RT: 1.716 min Scan# 503
Delta R.T. 0.013 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

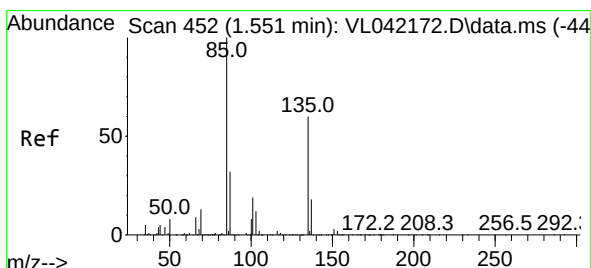
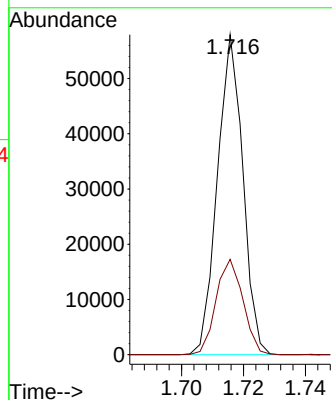
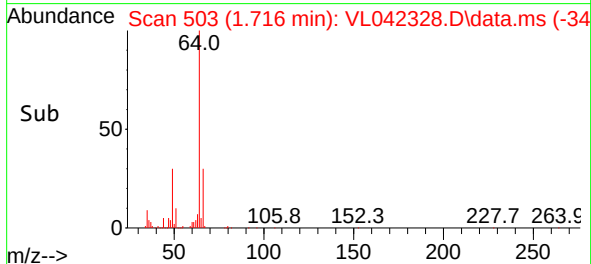
Instrument :
MSVOA_L
ClientSampleId :
VL0415ABS01



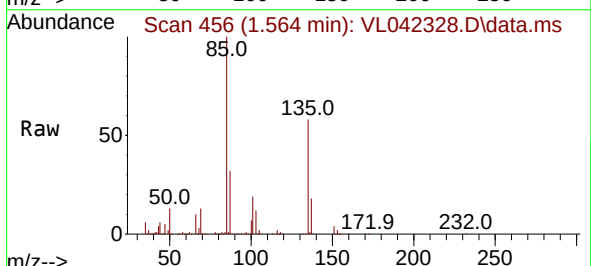
Tgt Ion: 64 Resp: 33039
Ion Ratio Lower Upper
64 100
66 29.8 25.2 37.8

Manual Integrations
APPROVED

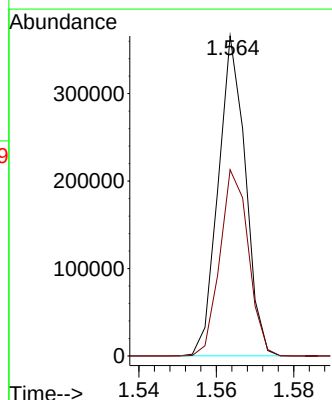
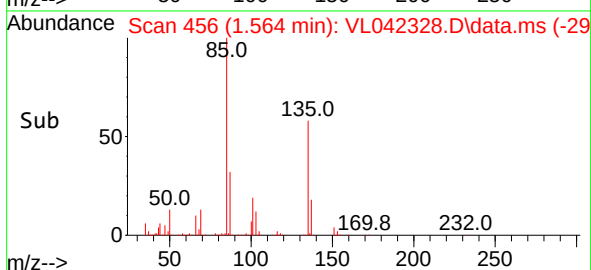
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025

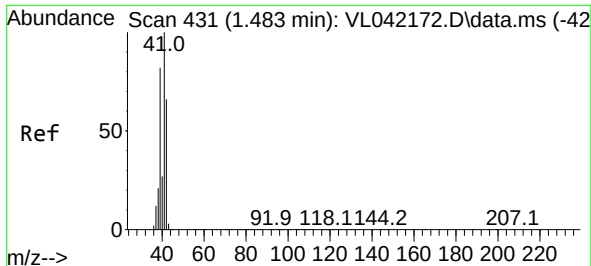


#8
Dichlorotetrafluoroethane
Concen: 8.239 ppbv
RT: 1.564 min Scan# 456
Delta R.T. 0.013 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54



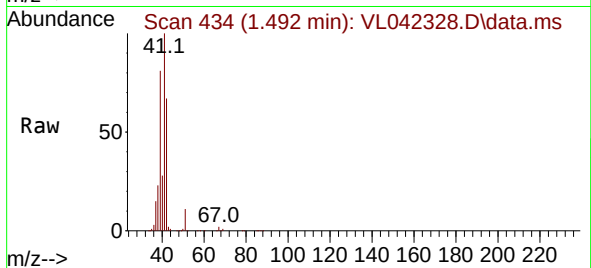
Tgt Ion: 85 Resp: 178173
Ion Ratio Lower Upper
85 100
135 61.3 52.4 78.6





#9
Propene
Concen: 7.917 ppbv
RT: 1.492 min Scan# 41
Delta R.T. 0.010 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

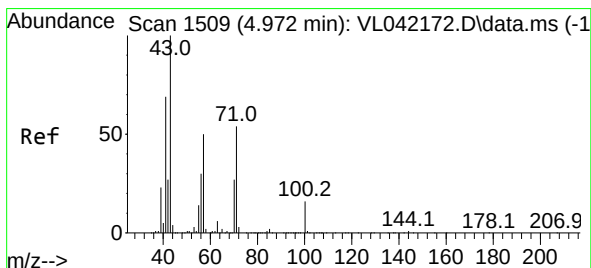
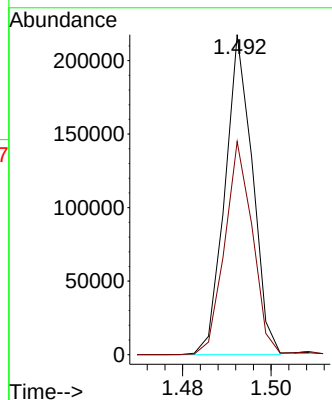
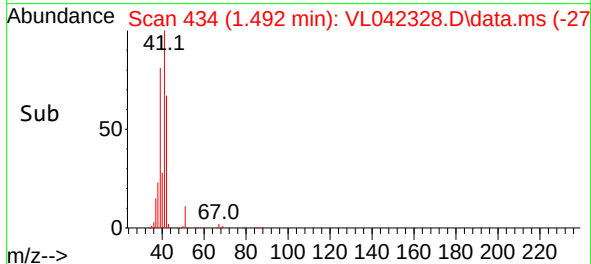
Instrument :
MSVOA_L
ClientSampleId :
VL0415ABS01



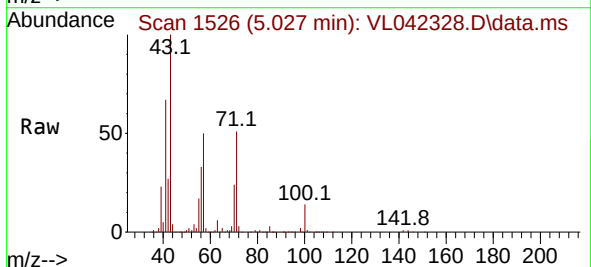
Tgt Ion: 41 Resp: 94130
Ion Ratio Lower Upper
41 100
42 68.2 55.4 83.2

Manual Integrations
APPROVED

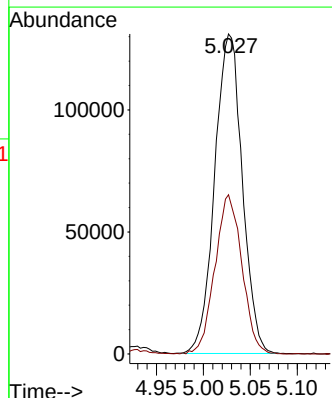
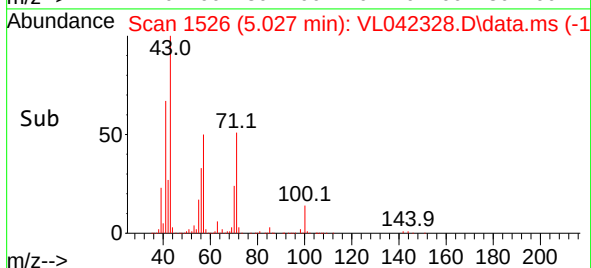
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025

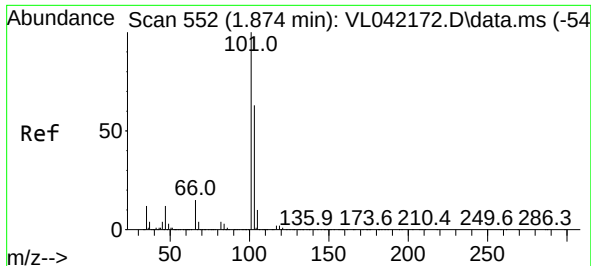


#10
Heptane
Concen: 8.451 ppbv
RT: 5.027 min Scan# 1526
Delta R.T. 0.055 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54



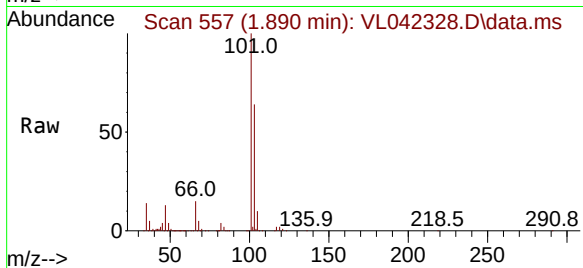
Tgt Ion: 43 Resp: 267288
Ion Ratio Lower Upper
43 100
57 48.8 39.4 59.2





#11
Trichlorofluoromethane
Concen: 8.162 ppbv
RT: 1.890 min Scan# 511
Delta R.T. 0.016 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

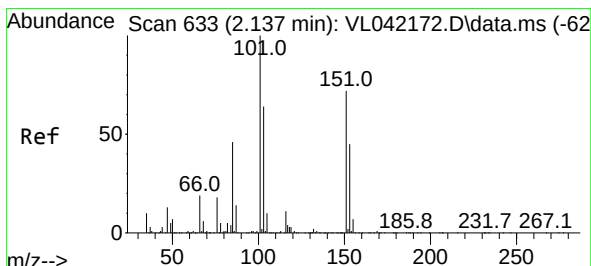
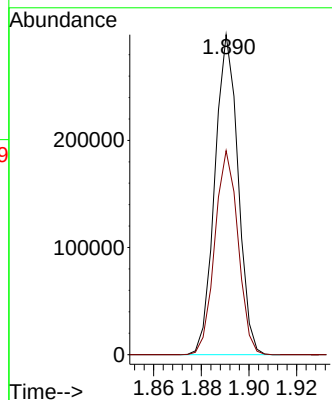
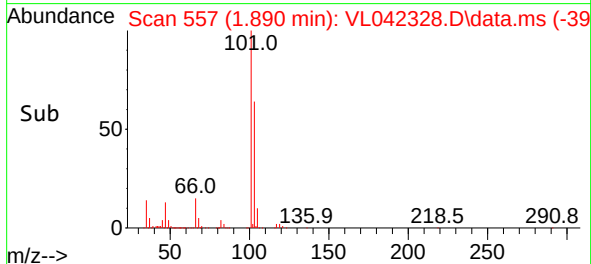
Instrument :
MSVOA_L
ClientSampleId :
VL0415ABS01



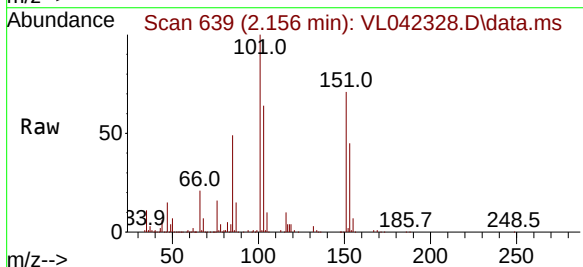
Tgt Ion:101 Resp: 20166
Ion Ratio Lower Upper
101 100
103 63.7 50.2 75.2

Manual Integrations
APPROVED

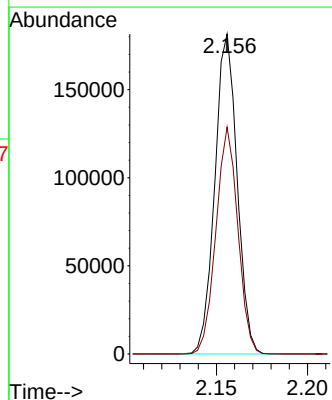
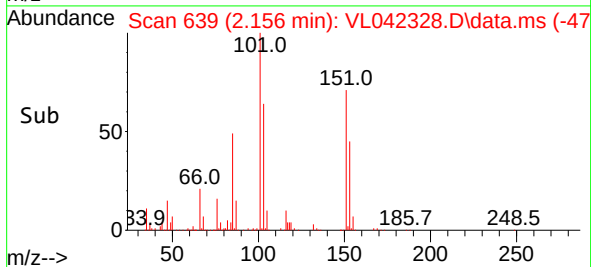
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025

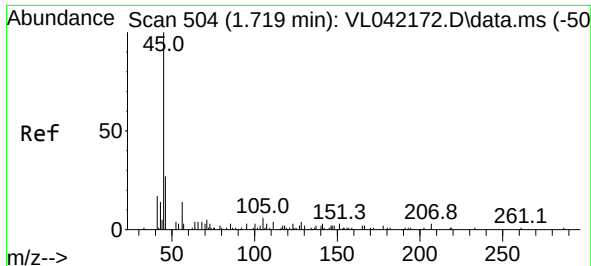


#12
1,1,2-Trichlorotrifluoroethane
Concen: 7.598 ppbv
RT: 2.156 min Scan# 639
Delta R.T. 0.019 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54



Tgt Ion:101 Resp: 154306
Ion Ratio Lower Upper
101 100
151 69.6 57.1 85.7





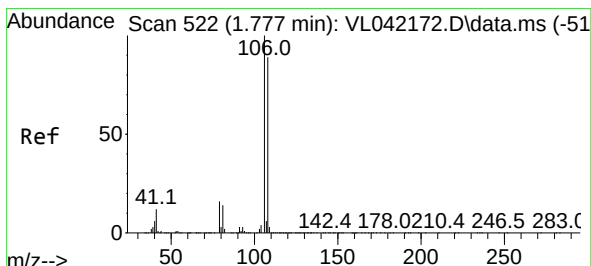
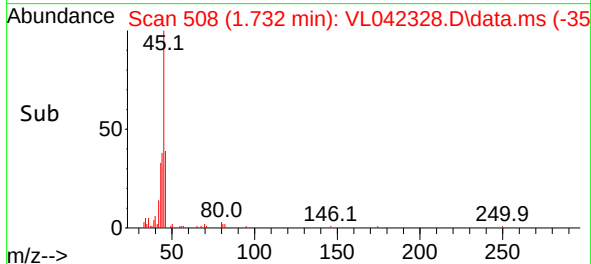
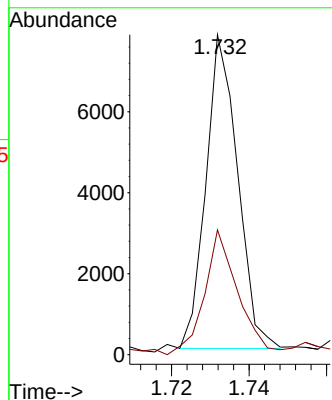
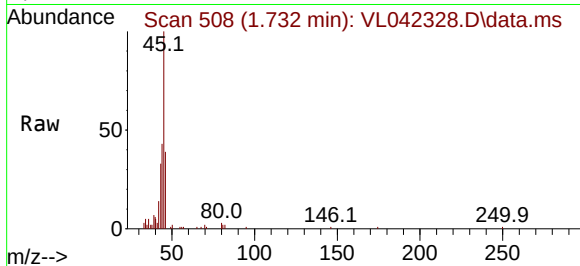
#13
Ethanol
Concen: 3.921 ppbv
RT: 1.732 min Scan# 504
Delta R.T. 0.013 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Instrument :
MSVOA_L
ClientSampleId :
VL0415ABS01

Tgt Ion: 45 Resp: 440
Ion Ratio Lower Upper
45 100
46 48.1 20.2 80.8

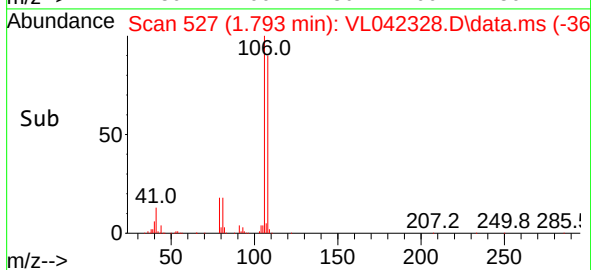
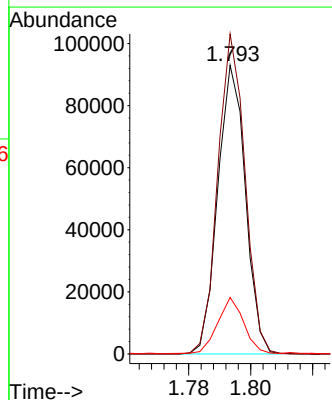
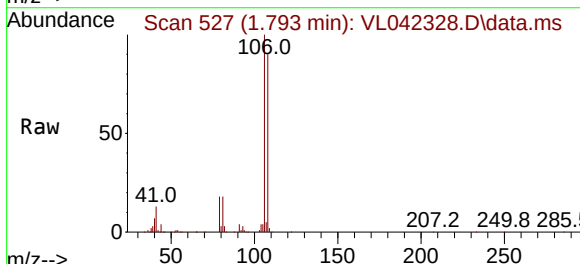
Manual Integrations
APPROVED

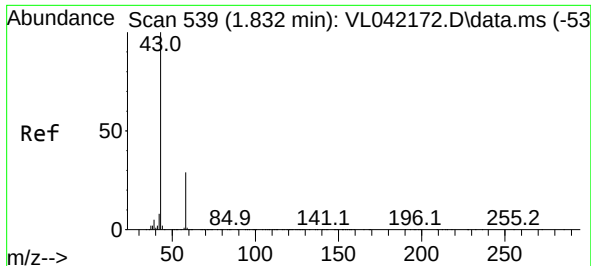
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025



#14
Bromoethene
Concen: 7.408 ppbv
RT: 1.793 min Scan# 527
Delta R.T. 0.016 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

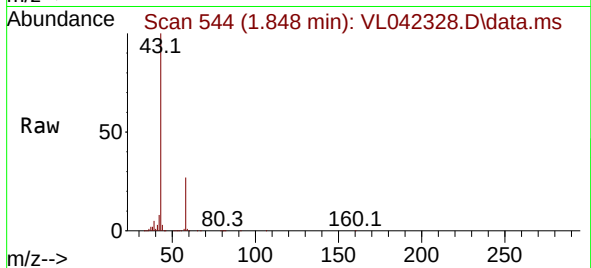
Tgt Ion:108 Resp: 57635
Ion Ratio Lower Upper
108 100
106 108.9 86.8 130.2
79 19.8 15.0 22.6





#15
Acetone
Concen: 7.430 ppbv
RT: 1.848 min Scan# 54
Delta R.T. 0.016 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

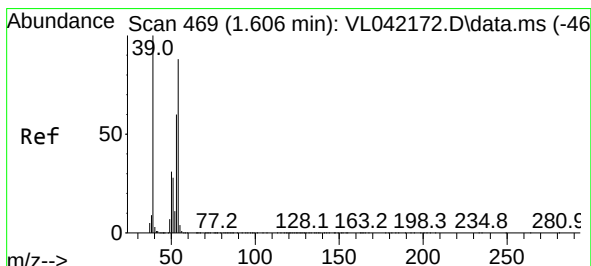
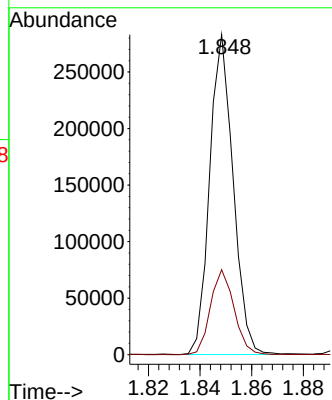
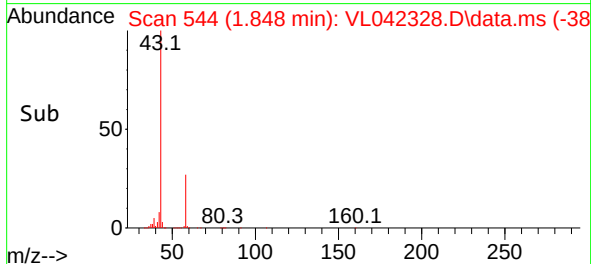
Instrument :
MSVOA_L
ClientSampleId :
VL0415ABS01



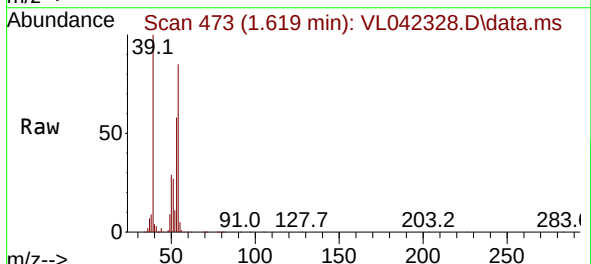
Tgt Ion: 43 Resp: 178724
Ion Ratio Lower Upper
43 100
58 26.8 23.2 34.8

Manual Integrations
APPROVED

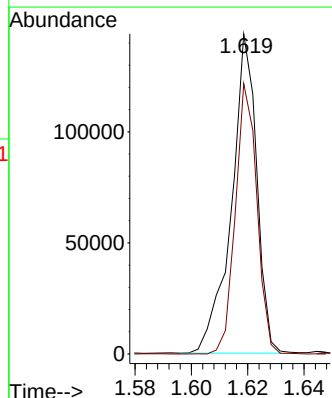
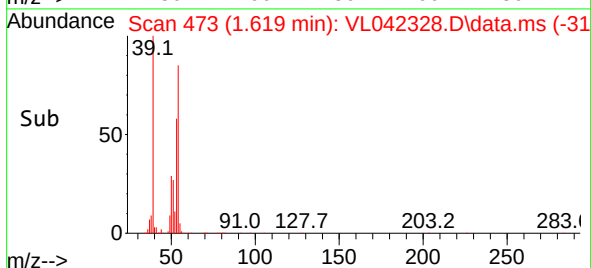
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025

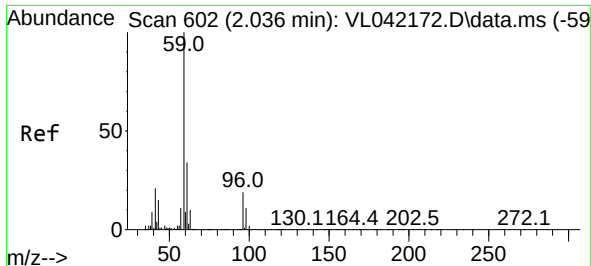


#16
1,3-Butadiene
Concen: 7.617 ppbv
RT: 1.619 min Scan# 473
Delta R.T. 0.013 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54



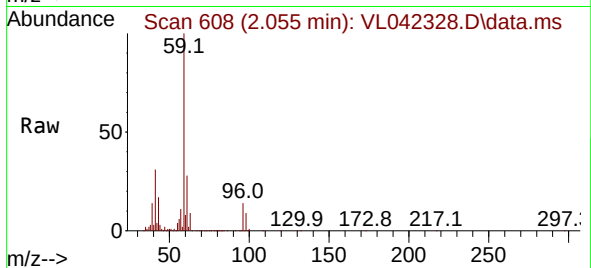
Tgt Ion: 39 Resp: 89479
Ion Ratio Lower Upper
39 100
54 72.1 60.7 91.1





#17
tert-Butyl alcohol
Concen: 6.757 ppbv
RT: 2.055 min Scan# 608
Delta R.T. 0.019 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

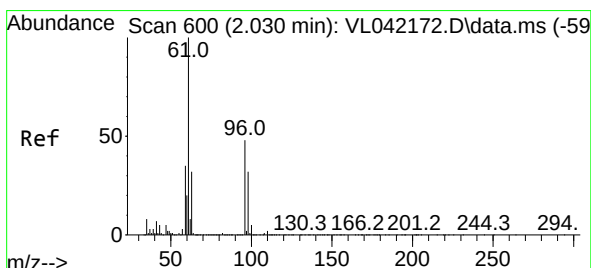
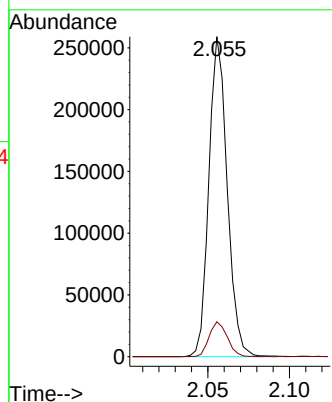
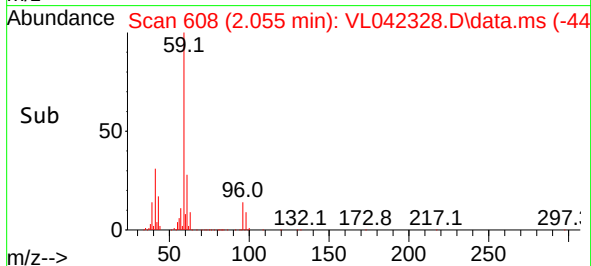
Instrument :
MSVOA_L
ClientSampleId :
VL0415ABS01



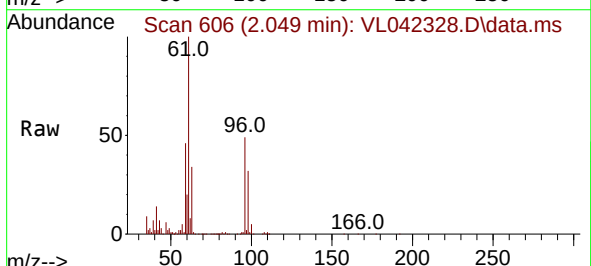
Tgt Ion: 59 Resp: 20242
Ion Ratio Lower Upper
59 100
57 10.8 8.9 13.3

Manual Integrations
APPROVED

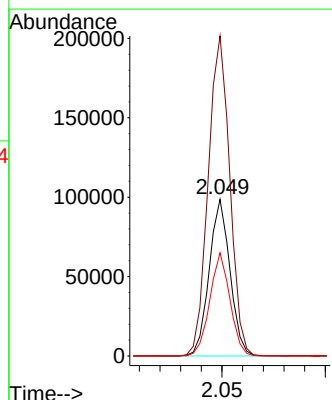
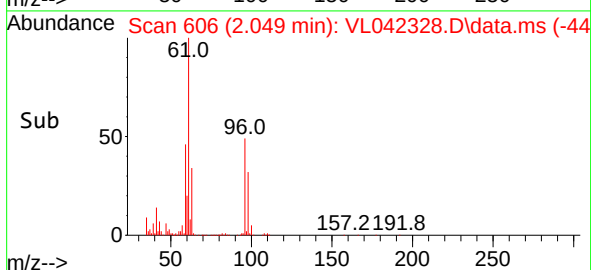
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025

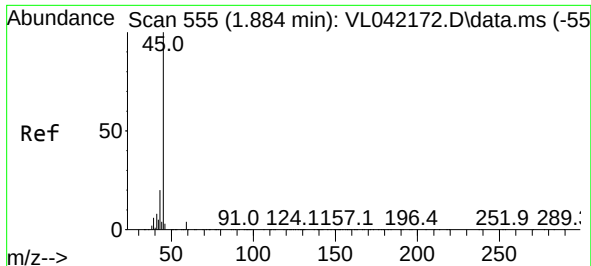


#18
1,1-Dichloroethene
Concen: 7.269 ppbv
RT: 2.049 min Scan# 606
Delta R.T. 0.019 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54



Tgt Ion: 96 Resp: 69013
Ion Ratio Lower Upper
96 100
61 204.2 167.6 251.4
98 65.9 53.5 80.3





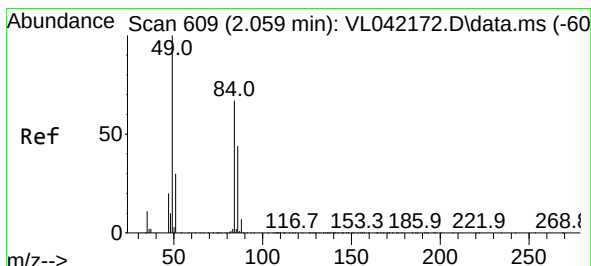
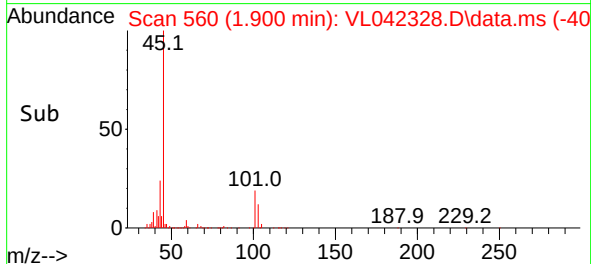
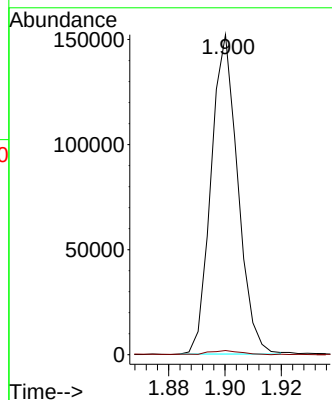
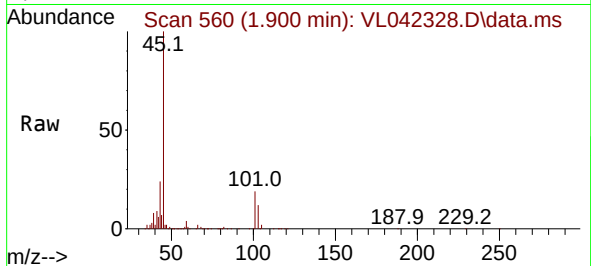
#19
Isopropyl Alcohol
Concen: 7.390 ppbv
RT: 1.900 min Scan# 50
Delta R.T. 0.016 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Instrument :
MSVOA_L
ClientSampleId :
VL0415ABS01

Tgt Ion: 45 Resp: 100289
Ion Ratio Lower Upper
45 100
58 47.9 36.9 55.3

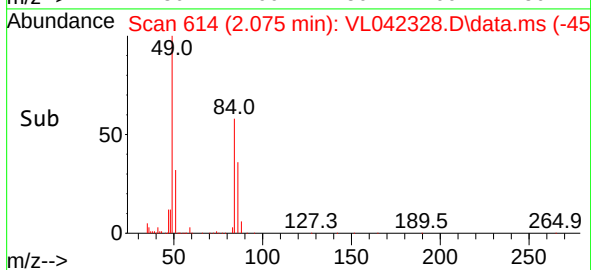
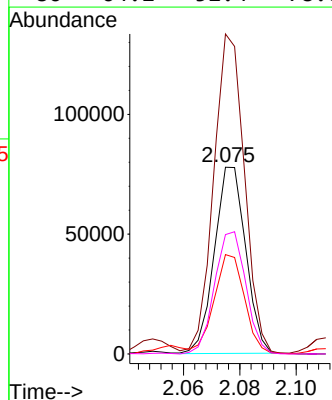
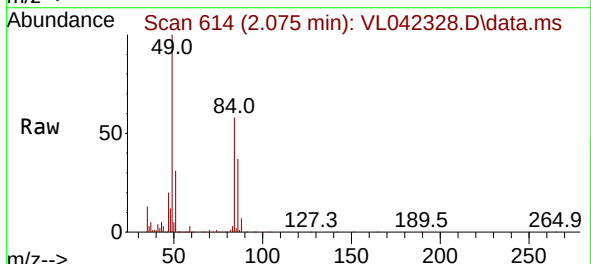
Manual Integrations
APPROVED

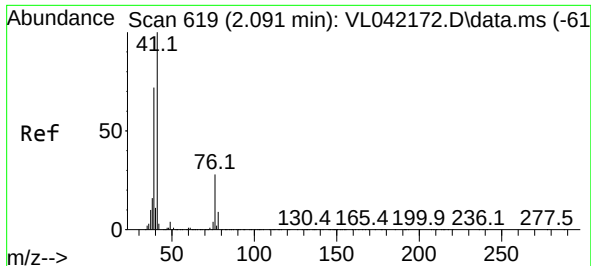
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025



#20
Methylene Chloride
Concen: 6.704 ppbv
RT: 2.075 min Scan# 614
Delta R.T. 0.016 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 84 Resp: 60054
Ion Ratio Lower Upper
84 100
49 171.6 120.2 180.4
51 53.0 37.4 56.0
86 64.2 52.4 78.6





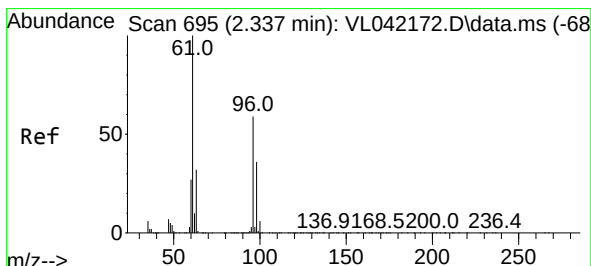
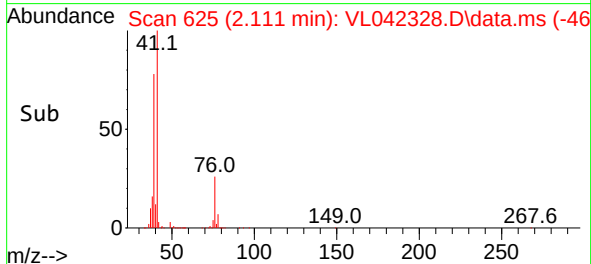
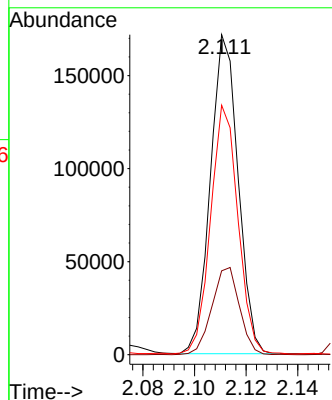
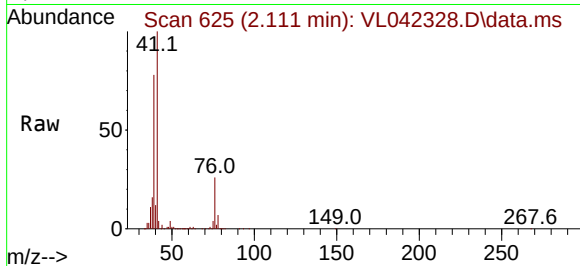
#21
 Allyl Chloride
 Concen: 7.534 ppbv
 RT: 2.111 min Scan# 61
 Delta R.T. 0.019 min
 Lab File: VL042328.D
 Acq: 15 Apr 2025 12:54

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0415ABS01

Tgt Ion: 41 Resp: 127800
 Ion Ratio Lower Upper
 41 100
 76 27.3 24.1 36.1
 39 76.8 61.1 91.7

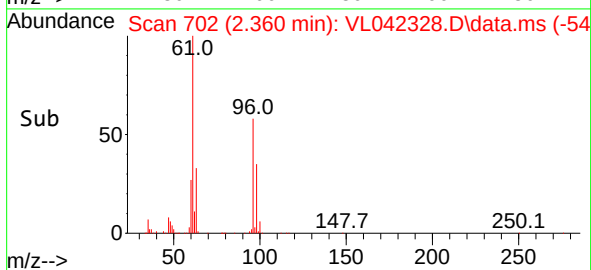
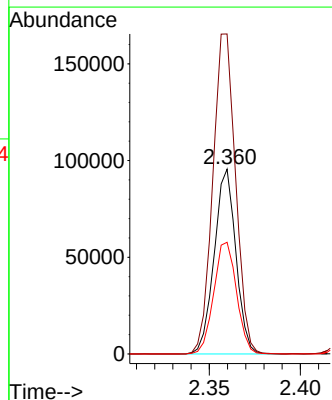
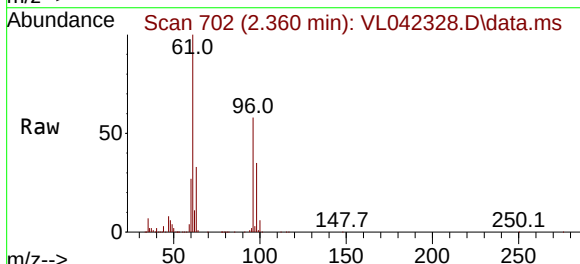
Manual Integrations
 APPROVED

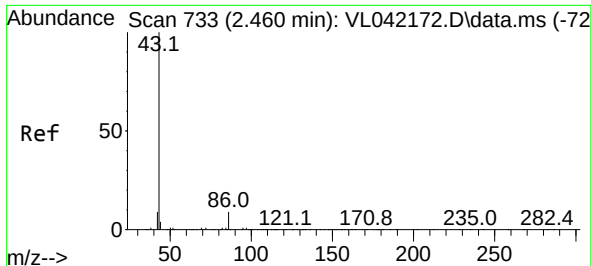
Reviewed By :Semsettin Yesilyurt 04/16/2025
 Supervised By :Mahesh Dadoda 04/16/2025



#22
 trans-1,2-Dichloroethene
 Concen: 7.198 ppbv
 RT: 2.360 min Scan# 702
 Delta R.T. 0.022 min
 Lab File: VL042328.D
 Acq: 15 Apr 2025 12:54

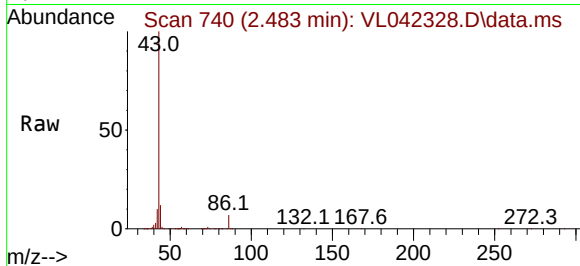
Tgt Ion: 96 Resp: 78991
 Ion Ratio Lower Upper
 96 100
 61 173.2 136.6 204.8
 98 60.4 49.4 74.2





#23
 Vinyl Acetate
 Concen: 6.222 ppbv
 RT: 2.483 min Scan# 740
 Delta R.T. 0.022 min
 Lab File: VL042328.D
 Acq: 15 Apr 2025 12:54

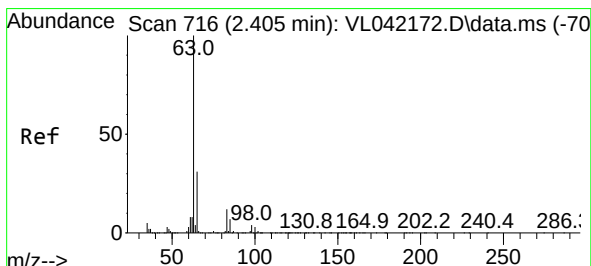
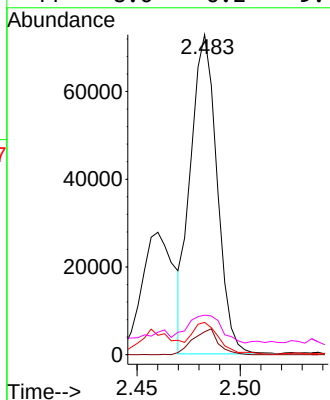
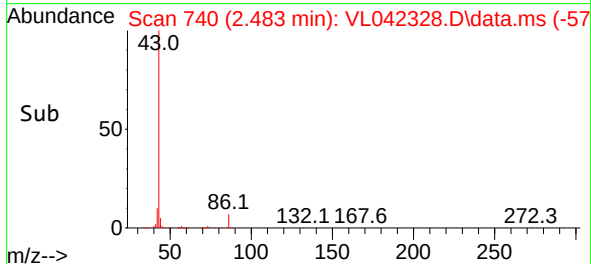
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0415ABS01



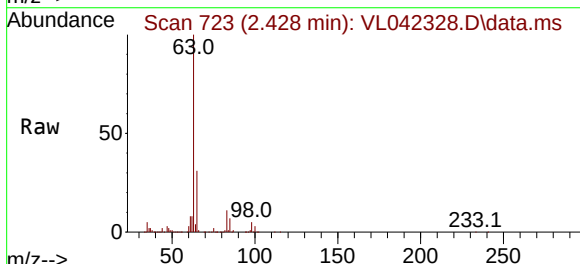
Tgt Ion	Ratio	Lower	Upper
43	100		
86	7.2	5.5	8.3
42	9.9	8.6	13.0
44	8.6	6.2	9.4

Manual Integrations
 APPROVED

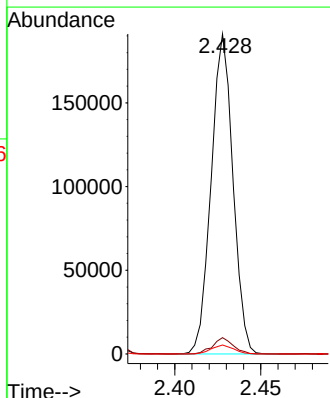
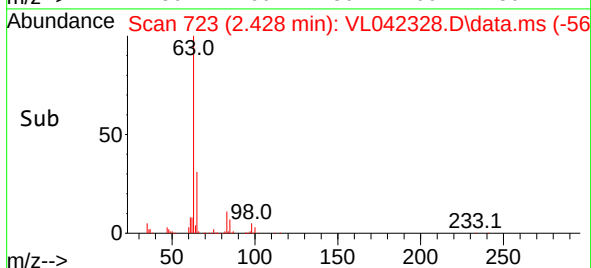
Reviewed By :Semsettin Yesilyurt 04/16/2025
 Supervised By :Mahesh Dadoda 04/16/2025

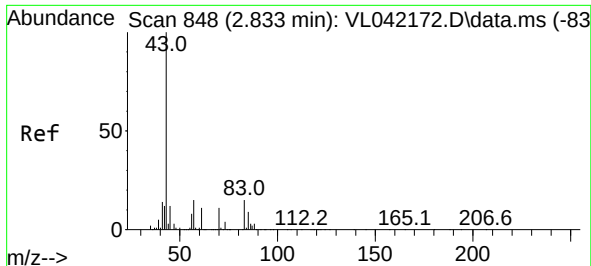


#24
 1,1-Dichloroethane
 Concen: 8.277 ppbv
 RT: 2.428 min Scan# 723
 Delta R.T. 0.022 min
 Lab File: VL042328.D
 Acq: 15 Apr 2025 12:54



Tgt Ion	Ratio	Lower	Upper
63	100		
98	5.1	2.3	6.8
100	2.8	1.6	4.7





#25

Ethyl Acetate

Concen: 8.732 ppbv

RT: 2.861 min Scan# 8

Delta R.T. 0.029 min

Lab File: VL042328.D

Acq: 15 Apr 2025 12:54

Instrument :

MSVOA_L

ClientSampleId :

VL0415ABS01

Tgt Ion: 43 Resp: 545140

Ion Ratio Lower Upper

43 100

45 10.5 8.2 12.2

61 9.1 7.3 10.9

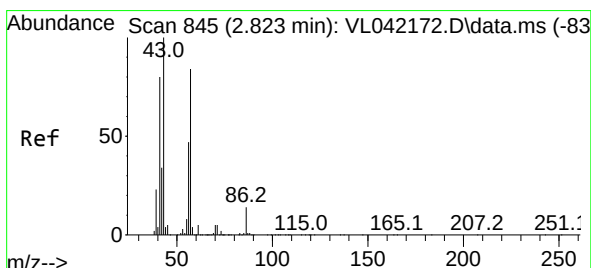
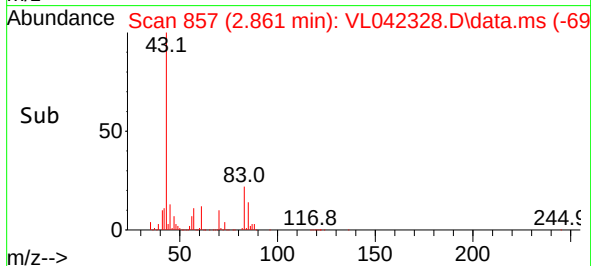
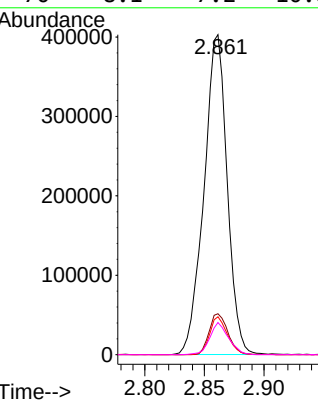
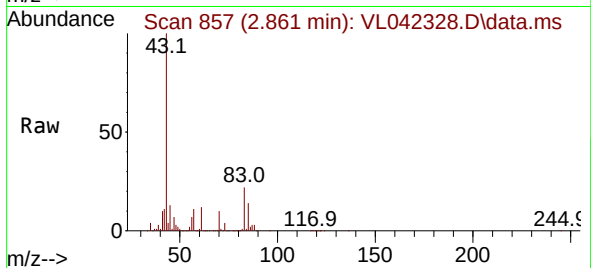
70 8.1 7.2 10.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/16/2025

Supervised By :Mahesh Dadoda 04/16/2025



#26

Hexane

Concen: 8.528 ppbv

RT: 2.848 min Scan# 853

Delta R.T. 0.026 min

Lab File: VL042328.D

Acq: 15 Apr 2025 12:54

Tgt Ion: 57 Resp: 205629

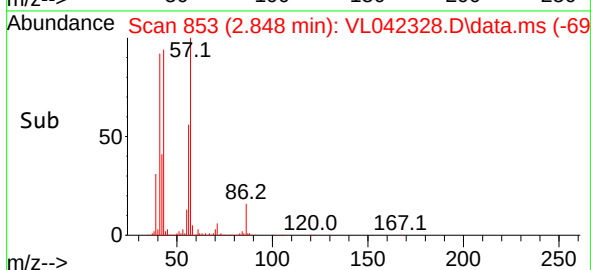
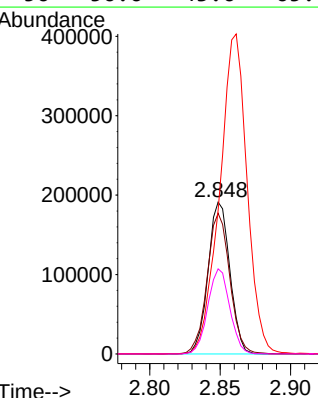
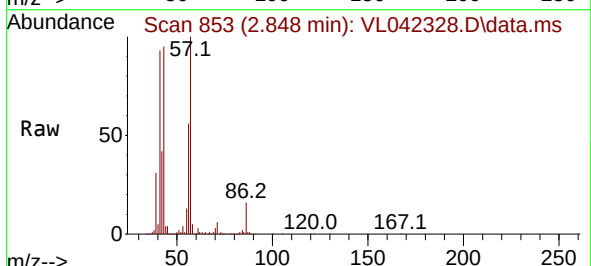
Ion Ratio Lower Upper

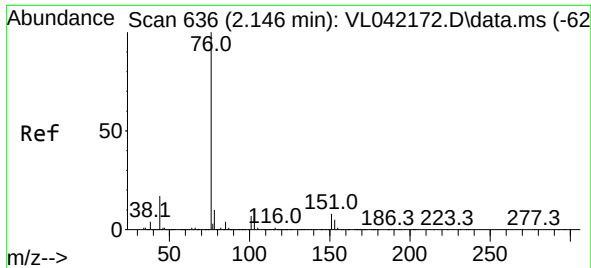
57 100

41 97.2 76.6 114.8

43 265.7 207.8 311.8

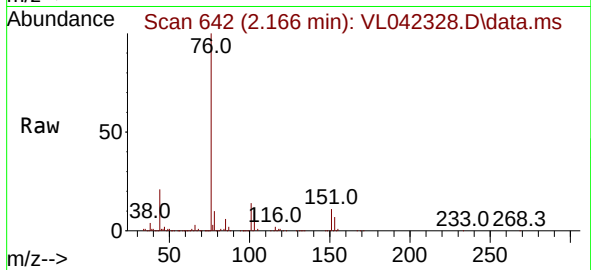
56 56.6 43.6 65.4





#27
Carbon Disulfide
Concen: 7.402 ppbv
RT: 2.166 min Scan# 642
Delta R.T. 0.019 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

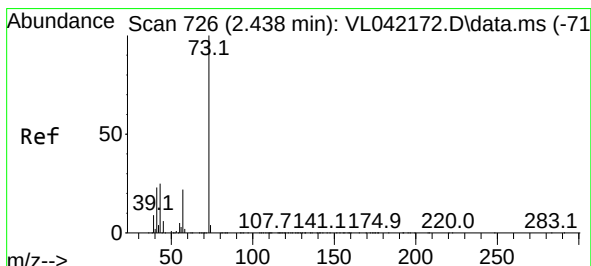
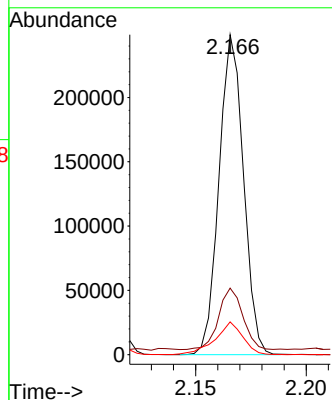
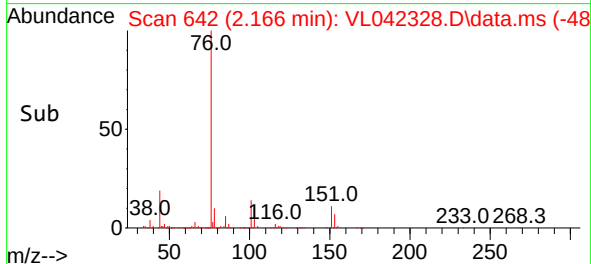
Instrument :
MSVOA_L
ClientSampleId :
VL0415ABS01



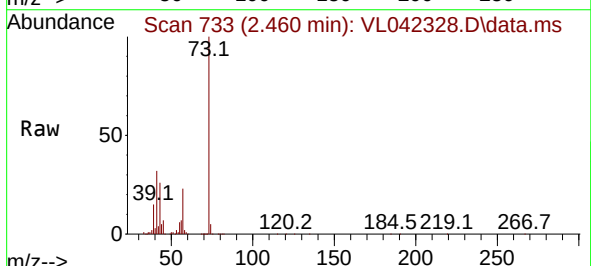
Tgt Ion: 76 Resp: 191388
Ion Ratio Lower Upper
76 100
44 19.3 14.7 22.1
78 11.6 9.3 13.9

Manual Integrations
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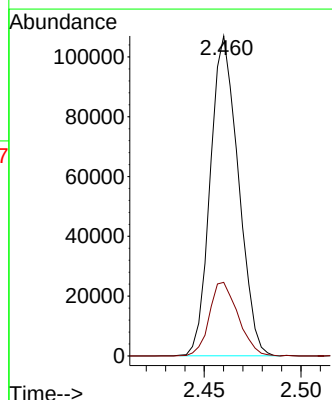
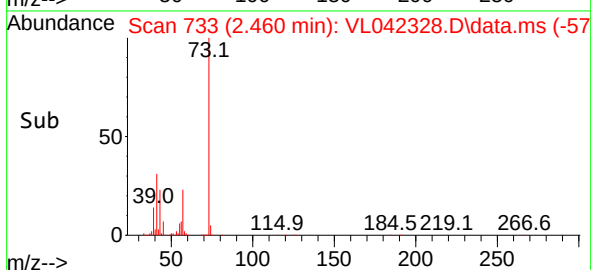
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025

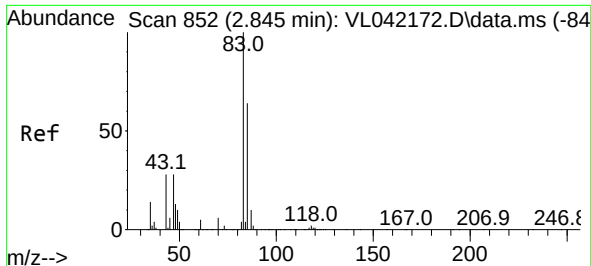


#28
Methyl tert-Butyl Ether
Concen: 7.172 ppbv
RT: 2.460 min Scan# 733
Delta R.T. 0.022 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54



Tgt Ion: 73 Resp: 107667
Ion Ratio Lower Upper
73 100
57 23.7 20.5 30.7





#29

Chloroform

Concen: 8.763 ppbv

RT: 2.874 min Scan# 80

Delta R.T. 0.029 min

Lab File: VL042328.D

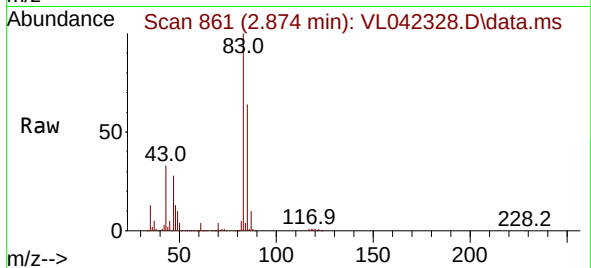
Acq: 15 Apr 2025 12:54

Instrument :

MSVOA_L

ClientSampleId :

VL0415ABS01



Tgt Ion: 83 Resp: 30926

Ion Ratio Lower Upper

83 100

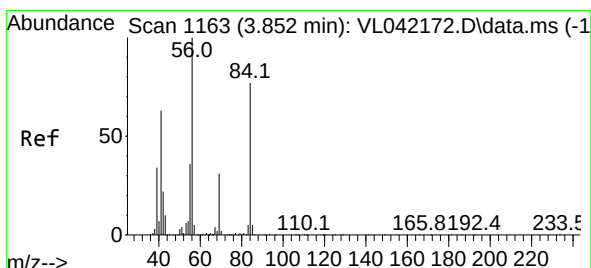
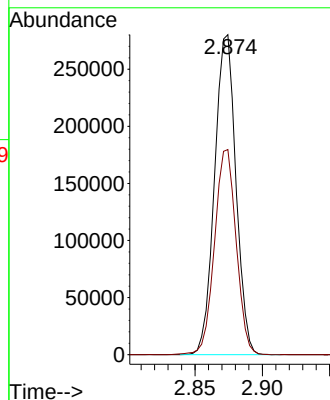
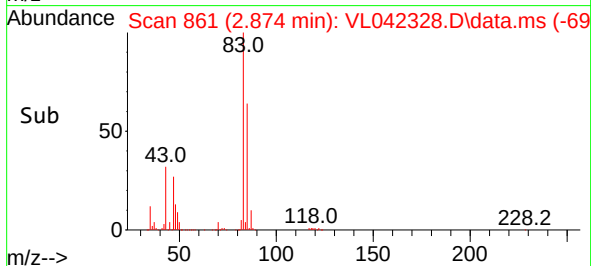
85 64.1 51.4 77.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/16/2025

Supervised By :Mahesh Dadoda 04/16/2025



#30

Cyclohexane

Concen: 7.924 ppbv

RT: 3.891 min Scan# 1175

Delta R.T. 0.039 min

Lab File: VL042328.D

Acq: 15 Apr 2025 12:54

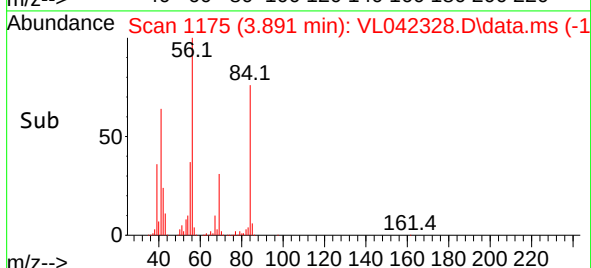
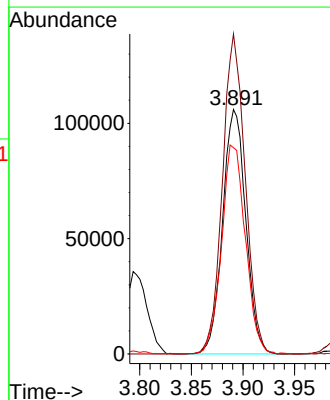
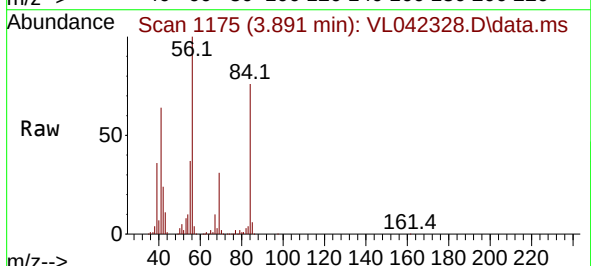
Tgt Ion: 84 Resp: 165914

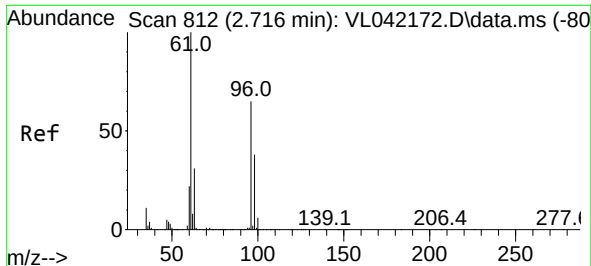
Ion Ratio Lower Upper

84 100

56 127.7 102.8 154.2

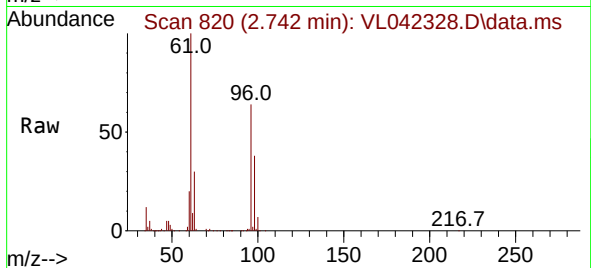
41 87.6 66.5 99.7





#31
 cis-1,2-Dichloroethene
 Concen: 8.074 ppbv
 RT: 2.742 min Scan# 81
 Delta R.T. 0.026 min
 Lab File: VL042328.D
 Acq: 15 Apr 2025 12:54

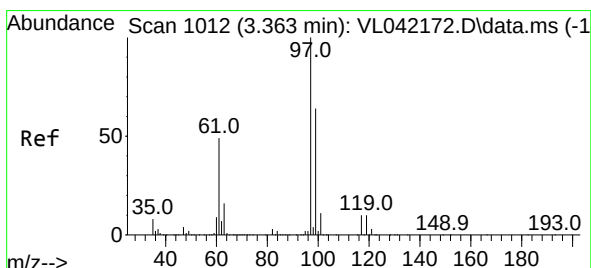
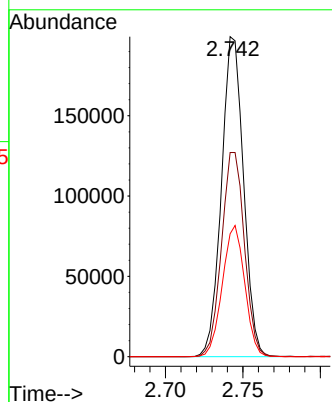
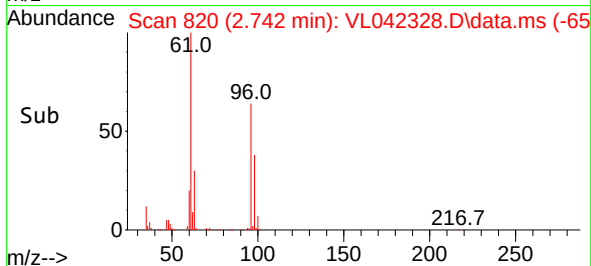
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0415ABS01



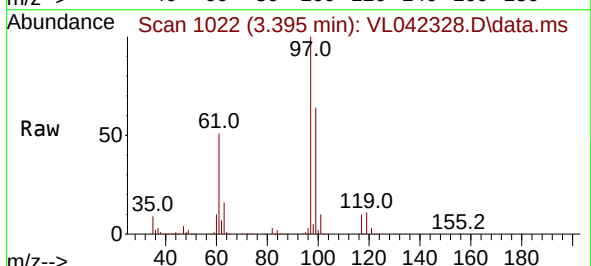
Tgt Ion: 61 Resp: 19765
 Ion Ratio Lower Upper
 61 100
 96 63.8 51.8 77.8
 98 38.4 30.6 46.0

Manual Integrations
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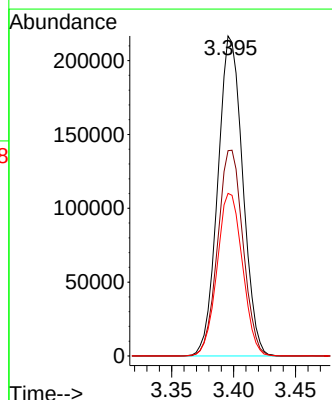
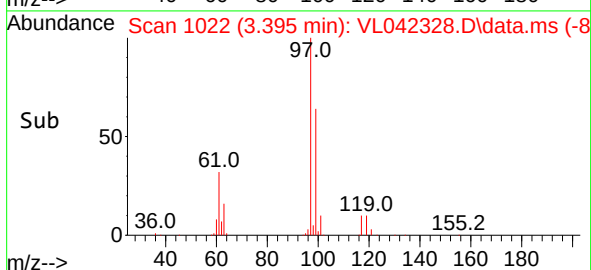
Reviewed By :Semsettin Yesilyurt 04/16/2025
 Supervised By :Mahesh Dadoda 04/16/2025

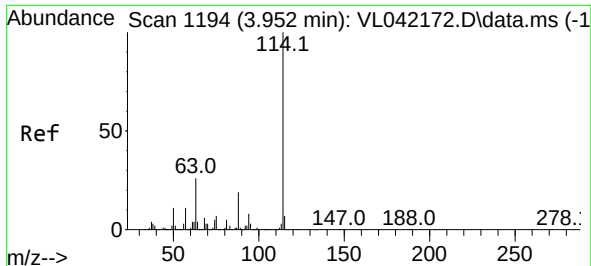


#32
 1,1,1-Trichloroethane
 Concen: 7.528 ppbv
 RT: 3.395 min Scan# 1022
 Delta R.T. 0.032 min
 Lab File: VL042328.D
 Acq: 15 Apr 2025 12:54



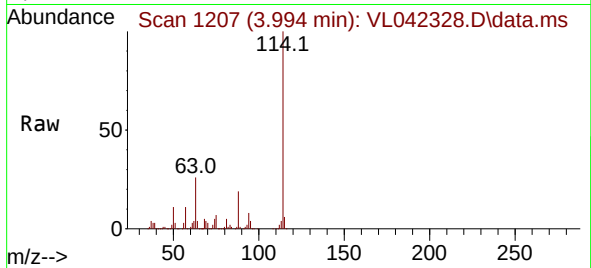
Tgt Ion: 97 Resp: 304143
 Ion Ratio Lower Upper
 97 100
 99 65.2 51.5 77.3
 61 51.8 38.7 58.1





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.994 min Scan# 1194
Delta R.T. 0.042 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

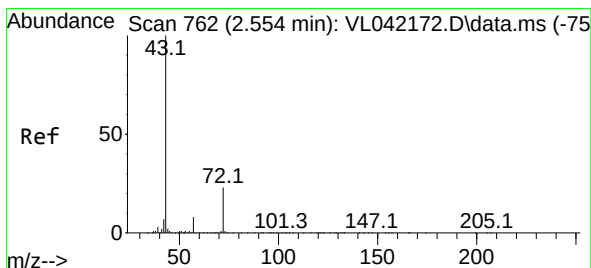
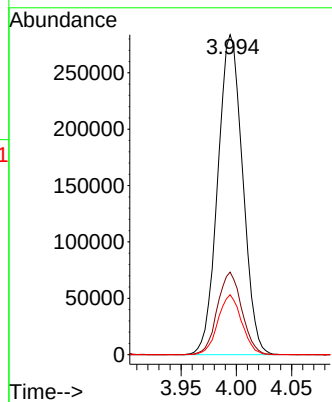
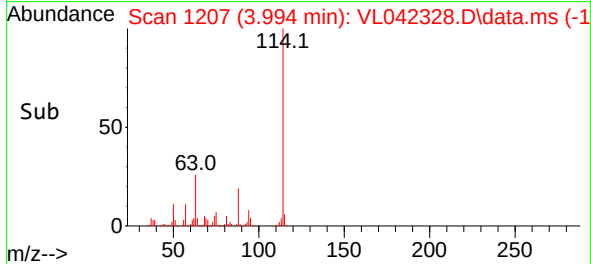
Instrument :
MSVOA_L
ClientSampleId :
VL0415ABS01



Tgt Ion:114 Resp: 444595
Ion Ratio Lower Upper
114 100
63 25.4 20.7 31.1
88 17.8 15.0 22.4

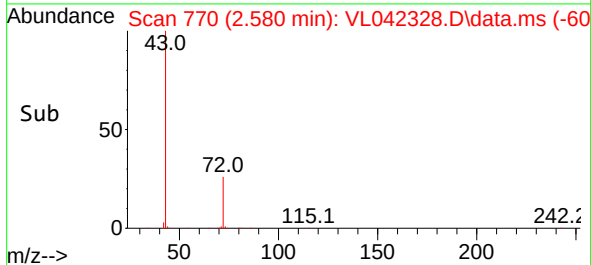
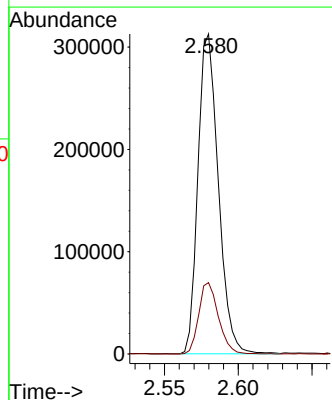
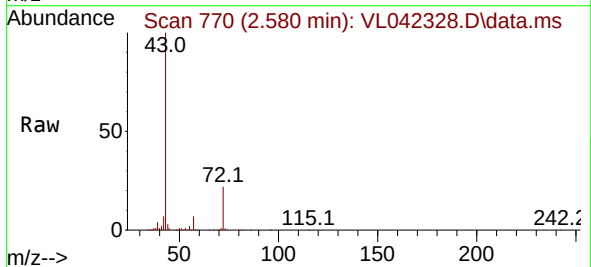
Manual Integrations
APPROVED

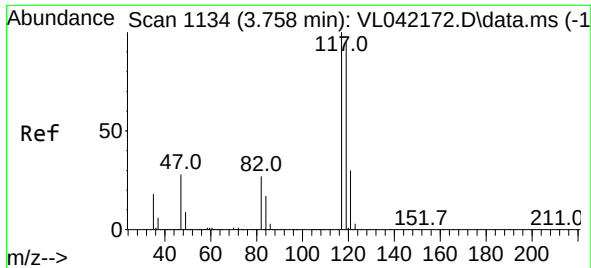
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025



#34
2-Butanone
Concen: 9.323 ppbv
RT: 2.580 min Scan# 770
Delta R.T. 0.026 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

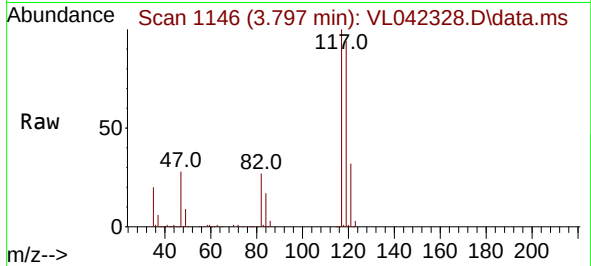
Tgt Ion: 43 Resp: 300576
Ion Ratio Lower Upper
43 100
72 21.6 18.2 27.2





#35
Carbon Tetrachloride
Concen: 9.065 ppbv
RT: 3.797 min Scan# 1113
Delta R.T. 0.039 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

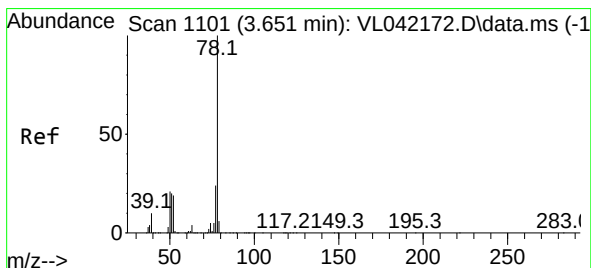
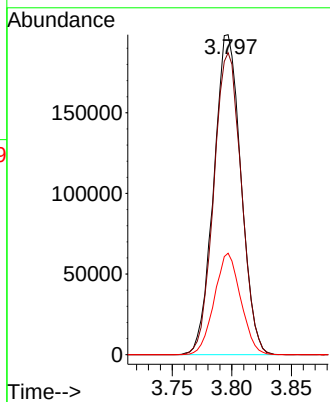
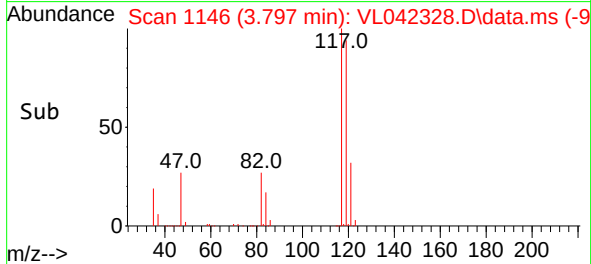
Instrument :
MSVOA_L
ClientSampleId :
VL0415ABS01



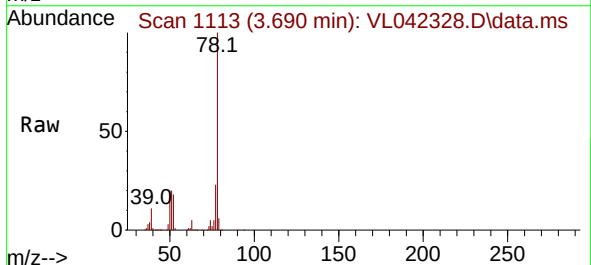
Tgt Ion:117 Resp: 314849
Ion Ratio Lower Upper
117 100
119 94.3 76.2 114.2
121 31.7 24.2 36.4

Manual Integrations
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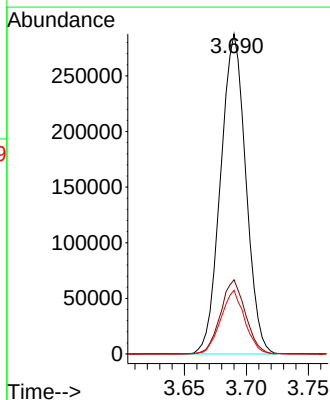
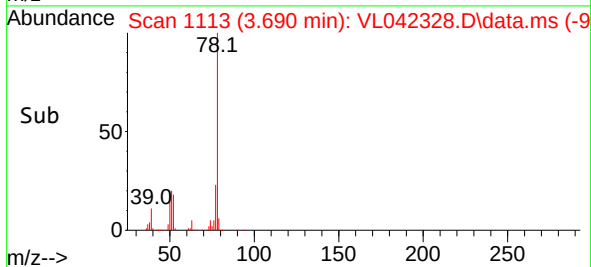
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025

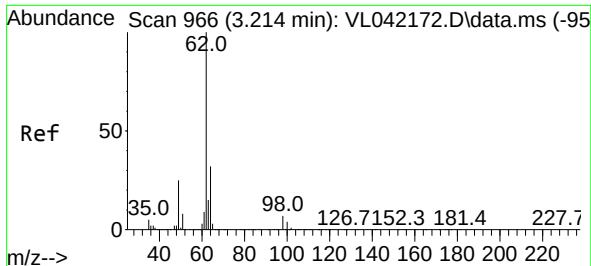


#36
Benzene
Concen: 9.256 ppbv
RT: 3.690 min Scan# 1113
Delta R.T. 0.039 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54



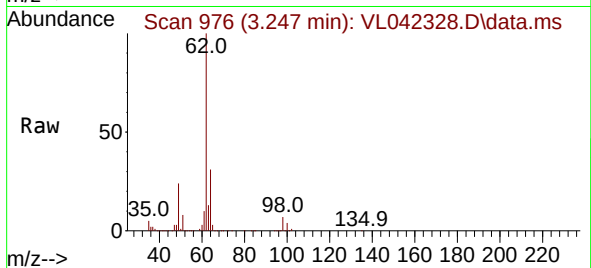
Tgt Ion: 78 Resp: 407959
Ion Ratio Lower Upper
78 100
77 23.1 19.1 28.7
50 19.9 16.6 24.8





#37
1,2-Dichloroethane
Concen: 9.337 ppbv
RT: 3.247 min Scan# 91
Delta R.T. 0.032 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

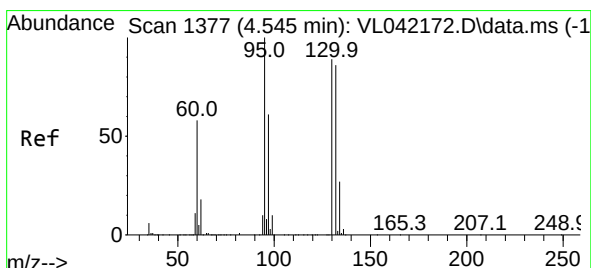
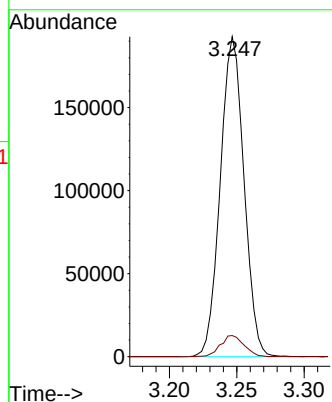
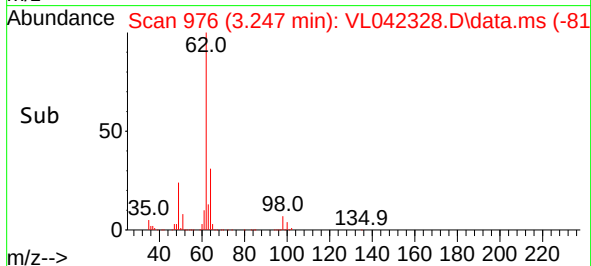
Instrument :
MSVOA_L
ClientSampleId :
VL0415ABS01



Tgt Ion: 62 Resp: 235609
Ion Ratio Lower Upper
62 100
98 6.6 5.4 8.2

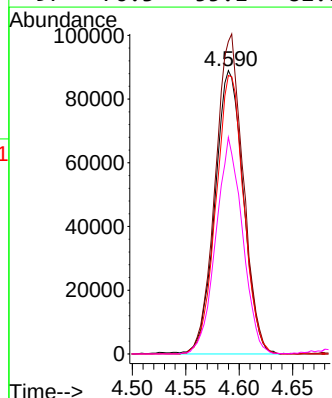
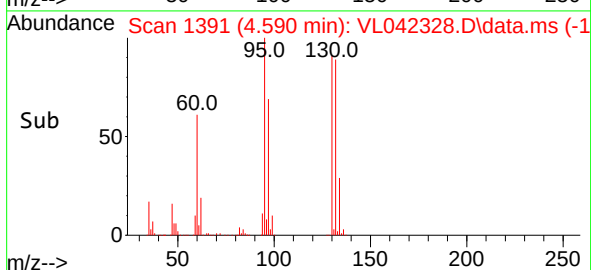
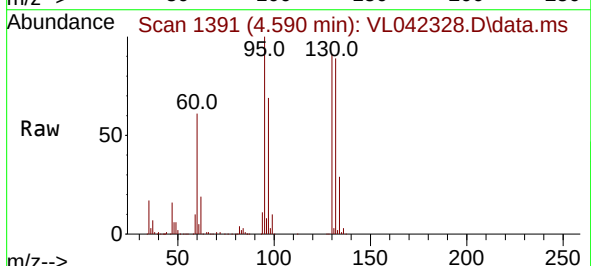
Manual Integrations
APPROVED

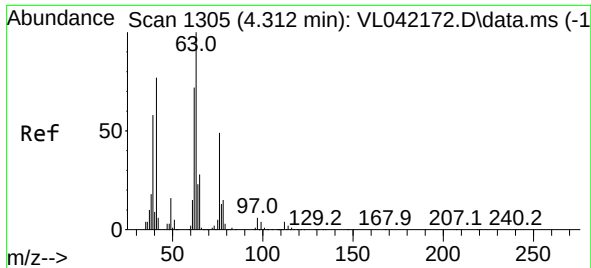
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025



#38
Trichloroethene
Concen: 8.954 ppbv
RT: 4.590 min Scan# 1391
Delta R.T. 0.045 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

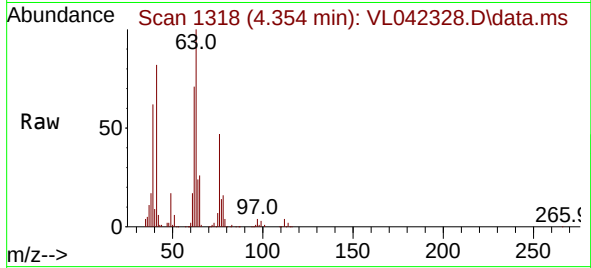
Tgt Ion:130 Resp: 164664
Ion Ratio Lower Upper
130 100
95 110.3 89.8 134.8
132 98.2 77.4 116.2
97 76.3 55.1 82.7





#39
 1,2-Dichloropropane
 Concen: 9.299 ppbv
 RT: 4.354 min Scan# 1402
 Delta R.T. 0.042 min
 Lab File: VL042328.D
 Acq: 15 Apr 2025 12:54

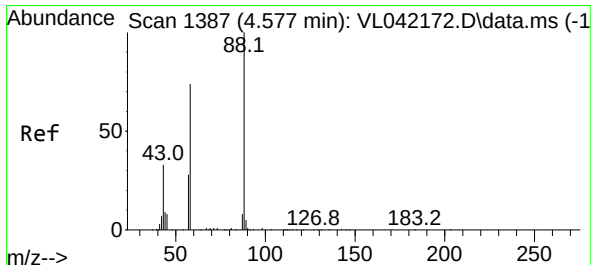
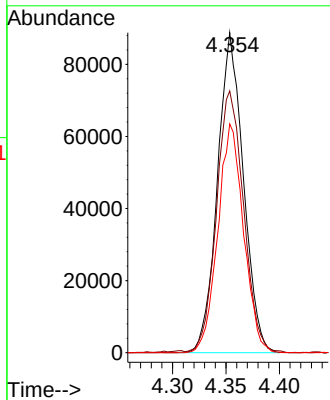
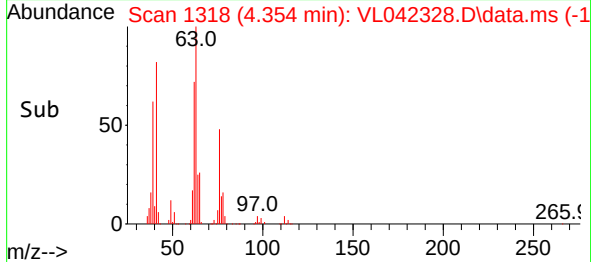
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0415ABS01



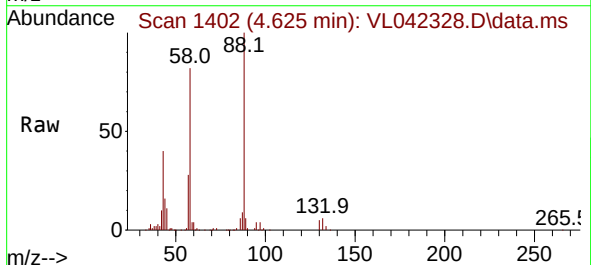
Tgt Ion: 63 Resp: 149260
 Ion Ratio Lower Upper
 63 100
 41 81.2 61.7 92.5
 62 71.5 57.6 86.4

Manual Integrations
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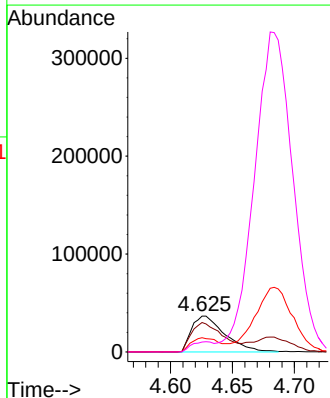
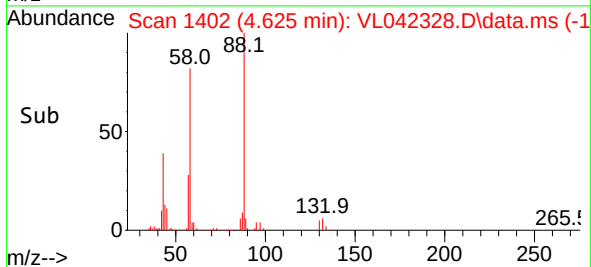
Reviewed By :Semsettin Yesilyurt 04/16/2025
 Supervised By :Mahesh Dadoda 04/16/2025

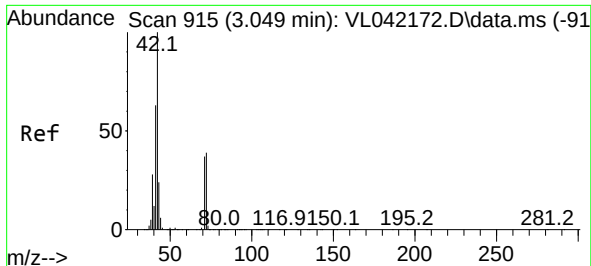


#40
 1,4-Dioxane
 Concen: 8.072 ppbv
 RT: 4.625 min Scan# 1402
 Delta R.T. 0.048 min
 Lab File: VL042328.D
 Acq: 15 Apr 2025 12:54



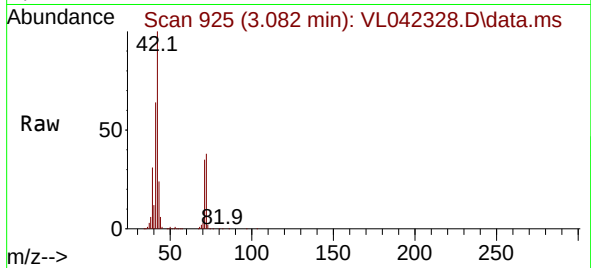
Tgt Ion: 88 Resp: 68773
 Ion Ratio Lower Upper
 88 100
 58 75.9 62.7 94.1
 43 34.0 23.0 34.4
 57 0.0 0.0 0.0





#41
Tetrahydrofuran
Concen: 9.361 ppbv
RT: 3.082 min Scan# 915
Delta R.T. 0.032 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

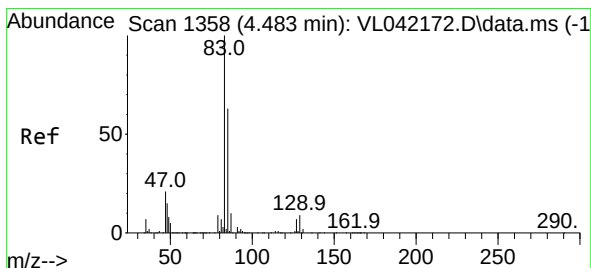
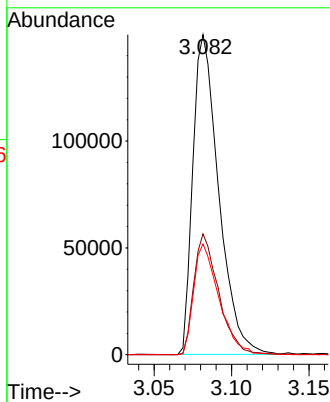
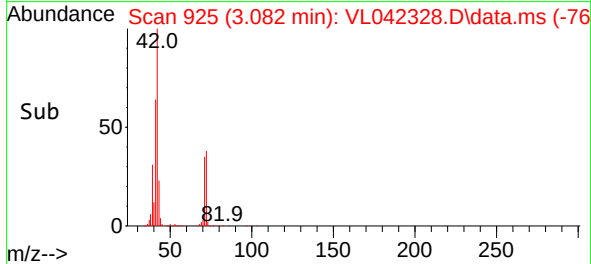
Instrument :
MSVOA_L
ClientSampleId :
VL0415ABS01



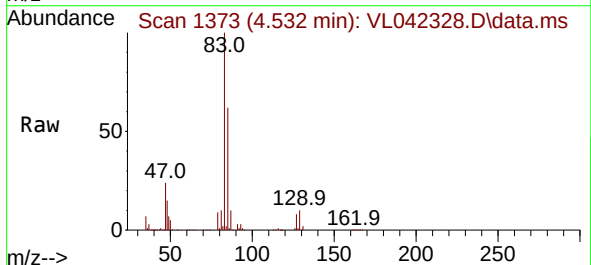
Tgt Ion: 42 Resp: 173770
Ion Ratio Lower Upper
42 100
72 36.4 31.4 47.0
71 33.9 30.2 45.4

Manual Integrations
APPROVED

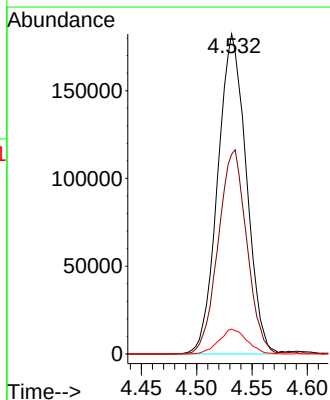
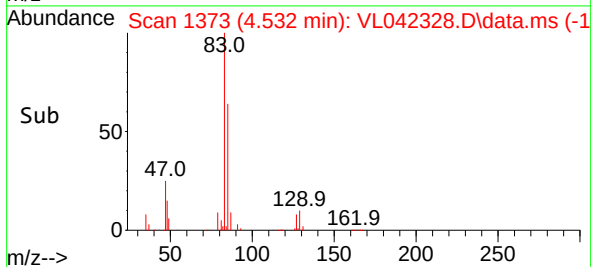
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025

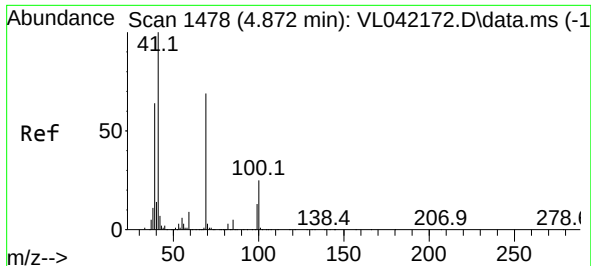


#42
Bromodichloromethane
Concen: 9.414 ppbv
RT: 4.532 min Scan# 1373
Delta R.T. 0.048 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54



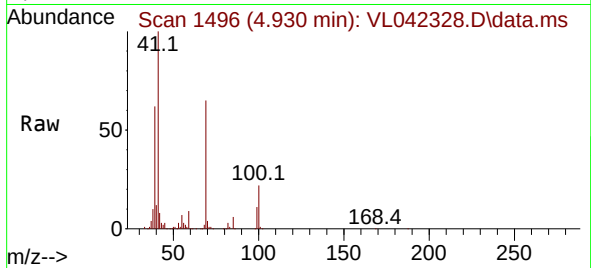
Tgt Ion: 83 Resp: 327497
Ion Ratio Lower Upper
83 100
85 62.4 50.5 75.7
127 7.7 5.9 8.9





#43
Methyl Methacrylate
Concen: 8.121 ppbv
RT: 4.930 min Scan# 1496
Delta R.T. 0.058 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

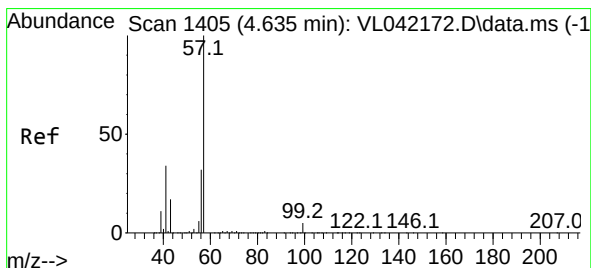
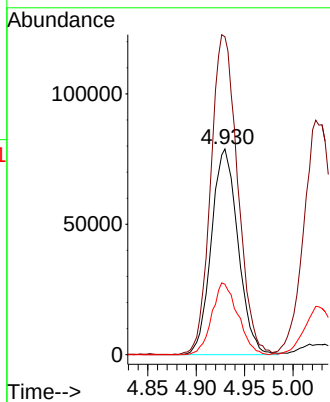
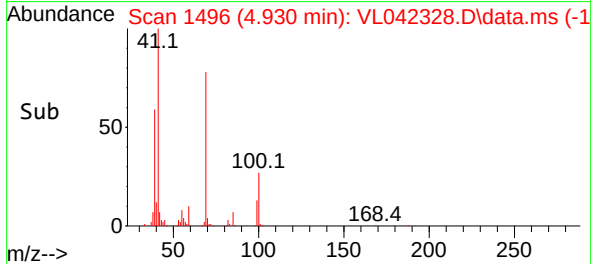
Instrument :
MSVOA_L
ClientSampleId :
VL0415ABS01



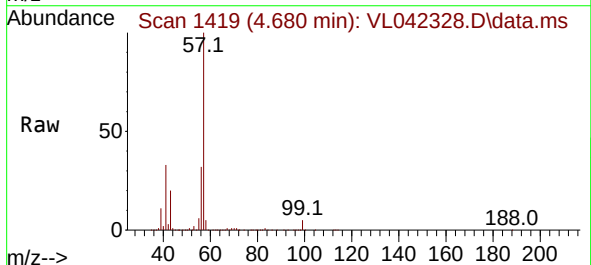
Tgt Ion: 69 Resp: 15153
Ion Ratio Lower Upper
69 100
41 156.5 123.8 185.6
100 33.9 28.4 42.6

Manual Integrations
APPROVED

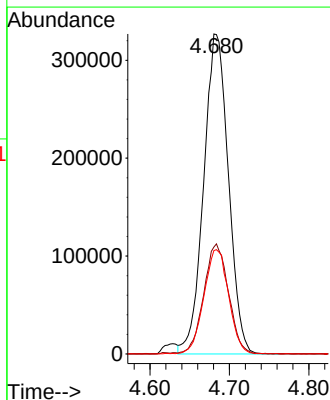
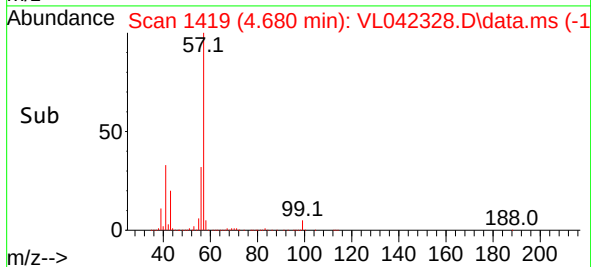
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025

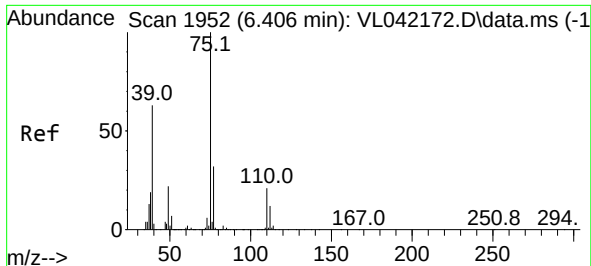


#44
2,2,4-Trimethylpentane
Concen: 9.503 ppbv
RT: 4.680 min Scan# 1419
Delta R.T. 0.045 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54



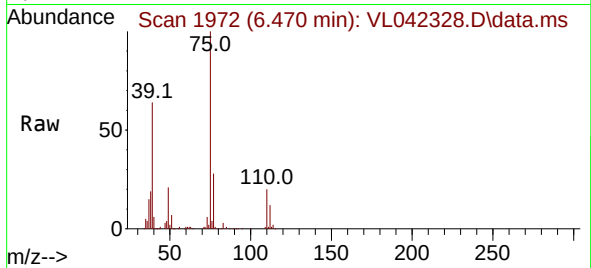
Tgt Ion: 57 Resp: 707832
Ion Ratio Lower Upper
57 100
41 34.7 26.8 40.2
56 32.7 25.6 38.4





#45
 t-1,3-Dichloropropene
 Concen: 7.179 ppbv
 RT: 6.470 min Scan# 1952
 Delta R.T. 0.065 min
 Lab File: VL042328.D
 Acq: 15 Apr 2025 12:54

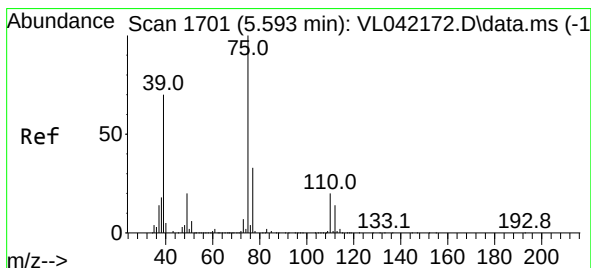
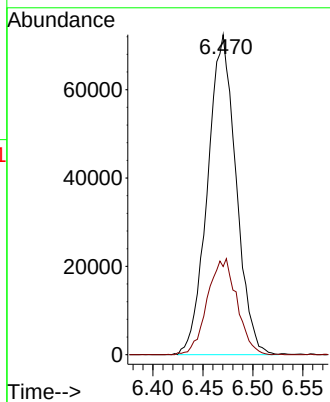
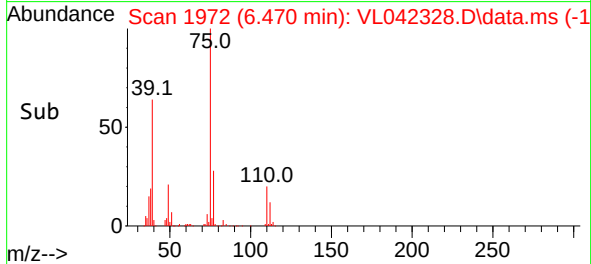
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0415ABS01



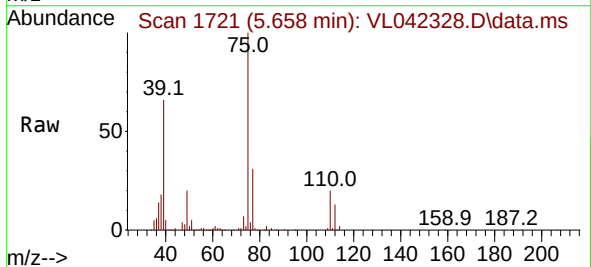
Tgt Ion: 75 Resp: 143714
 Ion Ratio Lower Upper
 75 100
 77 27.5 26.0 39.0

Manual Integrations
 APPROVED

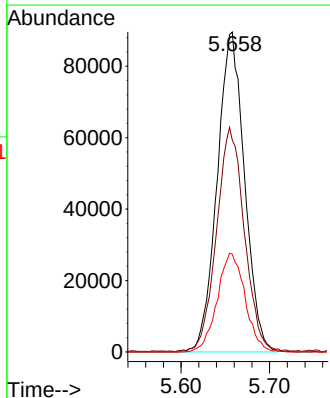
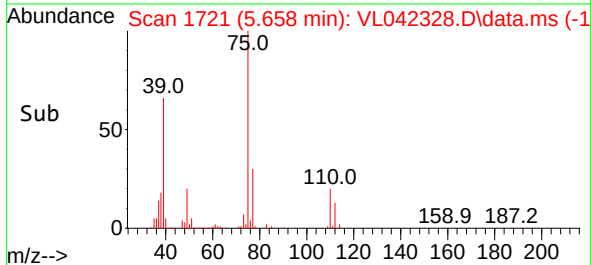
Reviewed By :Semsettin Yesilyurt 04/16/2025
 Supervised By :Mahesh Dadoda 04/16/2025

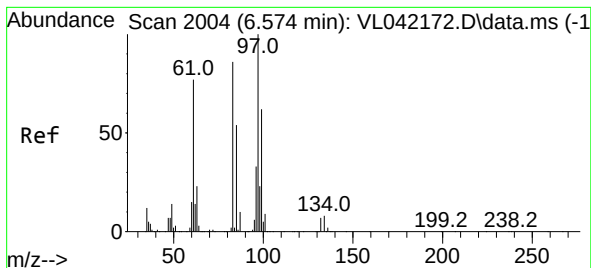


#46
 cis-1,3-Dichloropropene
 Concen: 7.841 ppbv
 RT: 5.658 min Scan# 1721
 Delta R.T. 0.065 min
 Lab File: VL042328.D
 Acq: 15 Apr 2025 12:54



Tgt Ion: 75 Resp: 192419
 Ion Ratio Lower Upper
 75 100
 39 65.8 55.8 83.6
 77 30.6 26.0 39.0





#47

1,1,2-Trichloroethane

Concen: 9.621 ppbv

RT: 6.635 min Scan# 2004

Delta R.T. 0.061 min

Lab File: VL042328.D

Acq: 15 Apr 2025 12:54

Instrument :

MSVOA_L

ClientSampleId :

VL0415ABS01

Tgt Ion: 97 Resp: 16325

Ion Ratio Lower Upper

97 100

83 85.2 69.2 103.8

85 52.9 43.1 64.7

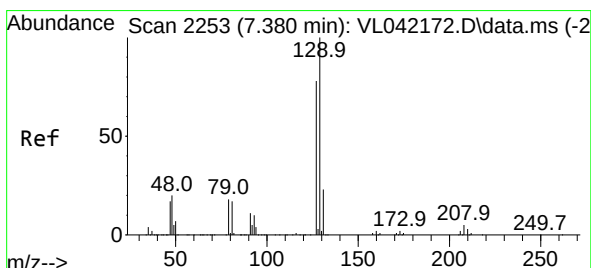
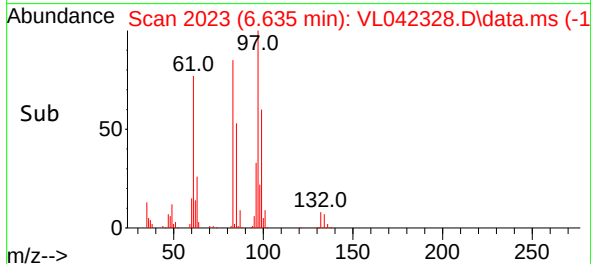
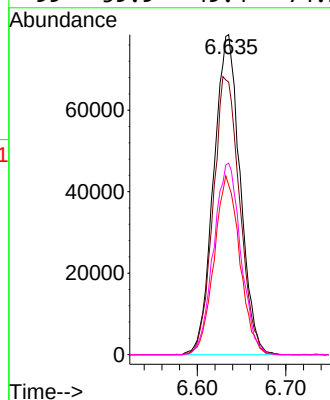
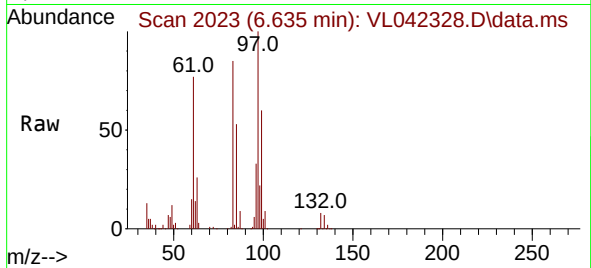
99 59.9 49.4 74.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/16/2025

Supervised By :Mahesh Dadoda 04/16/2025



#48

Dibromochloromethane

Concen: 9.256 ppbv

RT: 7.428 min Scan# 2268

Delta R.T. 0.048 min

Lab File: VL042328.D

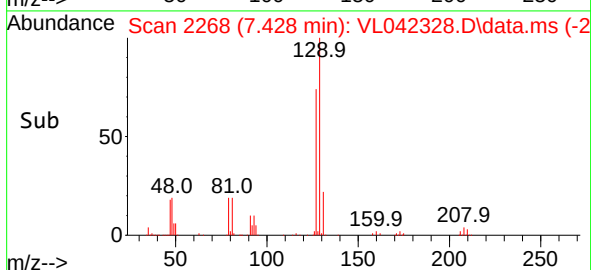
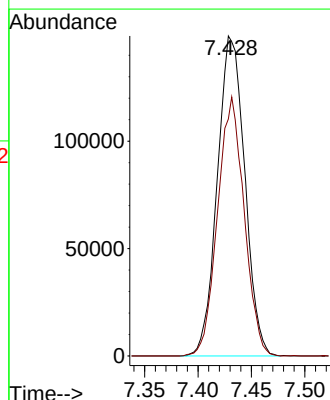
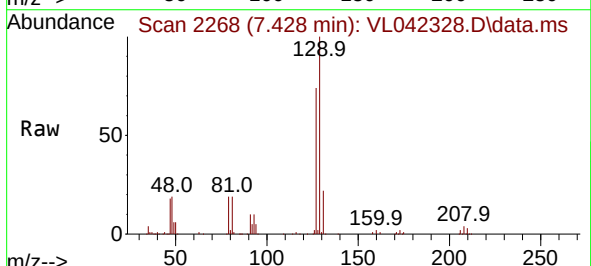
Acq: 15 Apr 2025 12:54

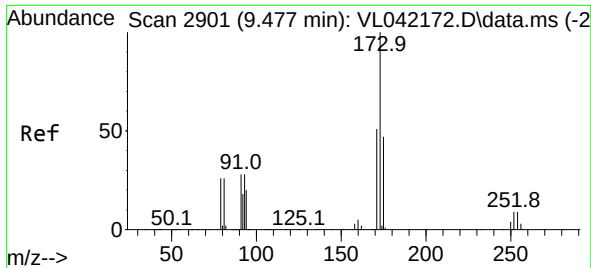
Tgt Ion:129 Resp: 266192

Ion Ratio Lower Upper

129 100

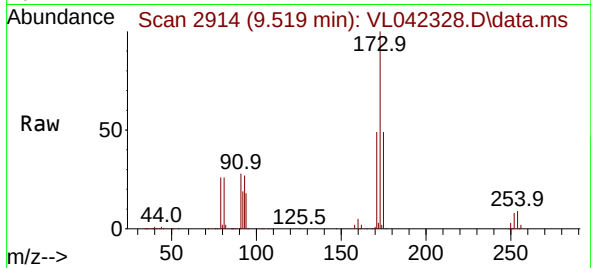
127 78.3 39.1 117.2





#49
Bromoform
Concen: 9.168 ppbv
RT: 9.519 min Scan# 2901
Delta R.T. 0.042 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

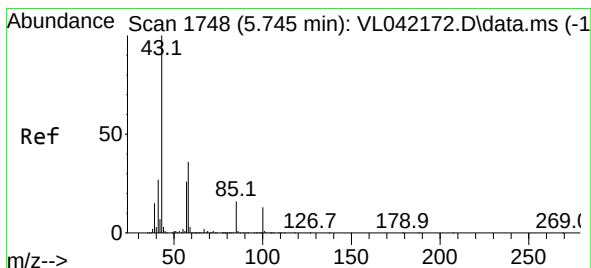
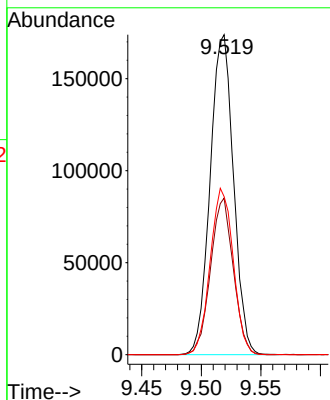
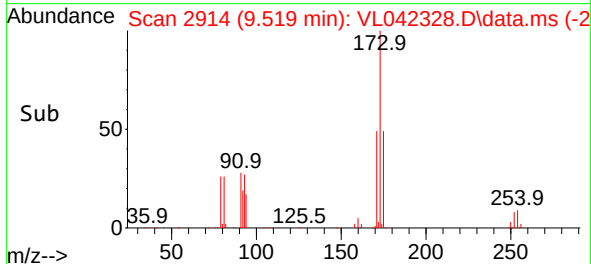
Instrument :
MSVOA_L
ClientSampleId :
VL0415ABS01



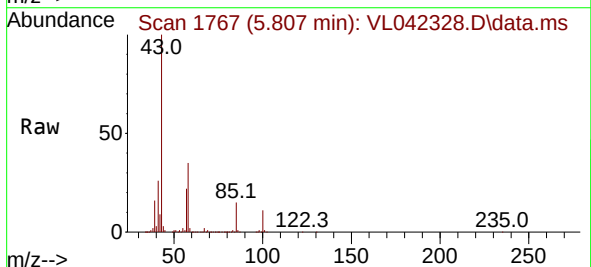
Tgt Ion: 173 Resp: 236680
Ion Ratio Lower Upper
173 100
175 47.8 38.6 57.8
171 51.4 41.8 62.6

Manual Integrations
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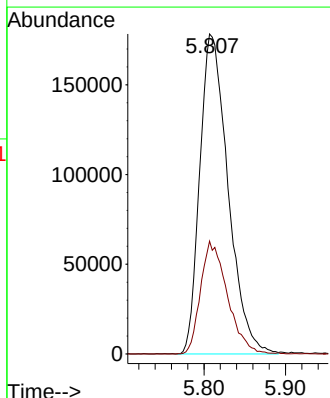
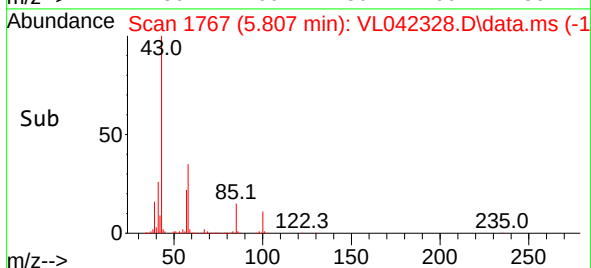
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025

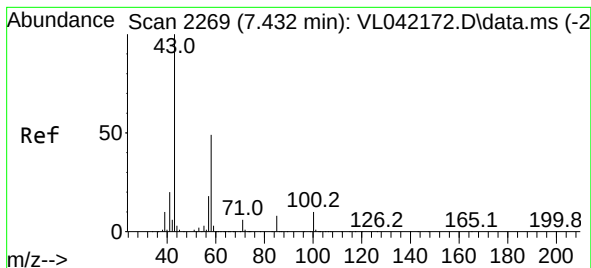


#50
4-Methyl-2-Pentanone
Concen: 8.416 ppbv
RT: 5.807 min Scan# 1767
Delta R.T. 0.061 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54



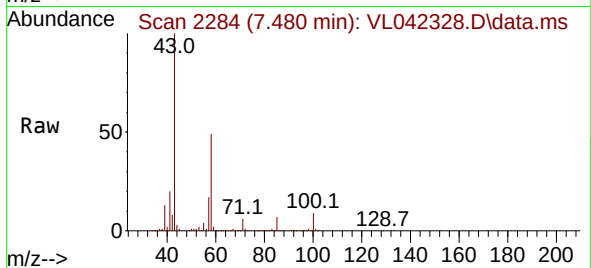
Tgt Ion: 43 Resp: 429988
Ion Ratio Lower Upper
43 100
58 33.5 29.0 43.6





#51
2-Hexanone
Concen: 8.203 ppbv
RT: 7.480 min Scan# 21
Delta R.T. 0.048 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

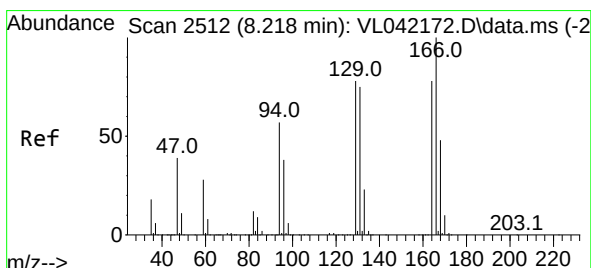
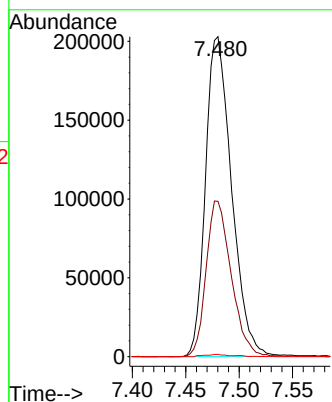
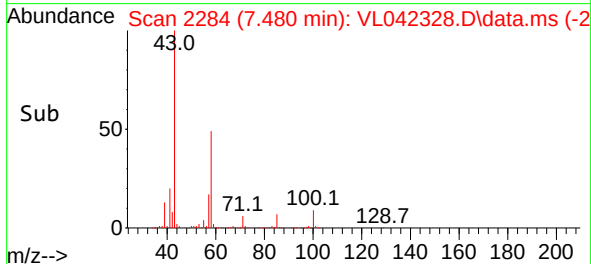
Instrument :
MSVOA_L
ClientSampleId :
VL0415ABS01



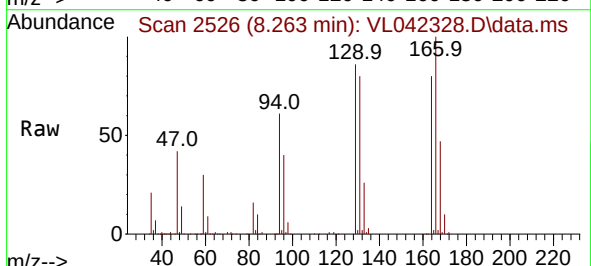
Tgt Ion: 43 Resp: 344172
Ion Ratio Lower Upper
43 100
58 47.1 39.7 59.5
98 0.8 0.1 0.1

Manual Integrations
APPROVED

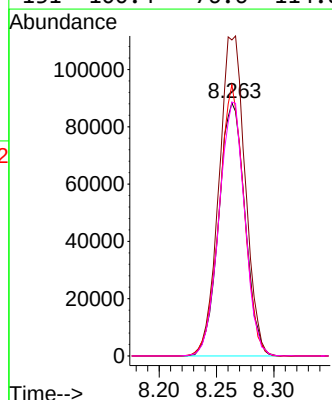
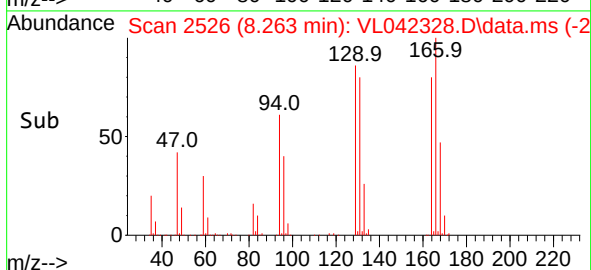
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025

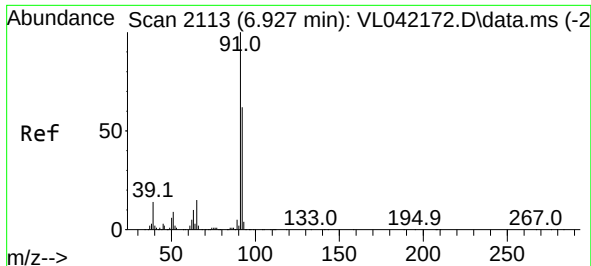


#52
Tetrachloroethene
Concen: 8.000 ppbv
RT: 8.263 min Scan# 2526
Delta R.T. 0.045 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54



Tgt Ion:164 Resp: 139845
Ion Ratio Lower Upper
164 100
166 124.9 102.5 153.7
129 107.2 79.8 119.8
131 100.4 76.6 114.8





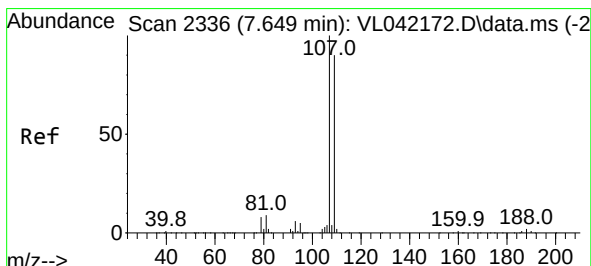
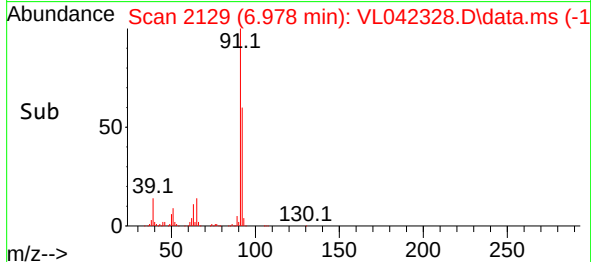
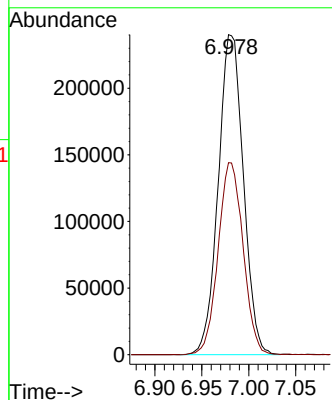
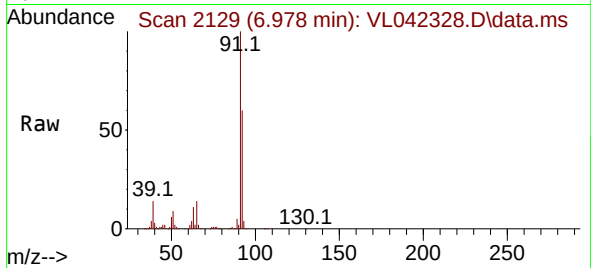
#53
Toluene
Concen: 8.559 ppbv
RT: 6.978 min Scan# 2113
Delta R.T. 0.052 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Instrument :
MSVOA_L
ClientSampleId :
VL0415ABS01

Tgt Ion: 91 Resp: 447178
Ion Ratio Lower Upper
91 100
92 59.6 48.4 72.6

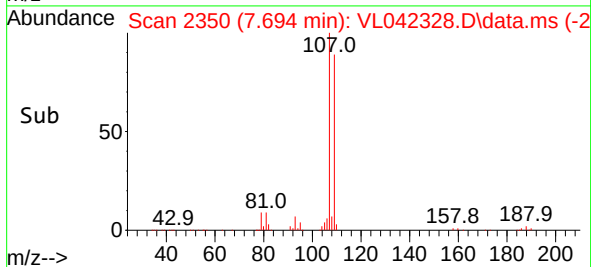
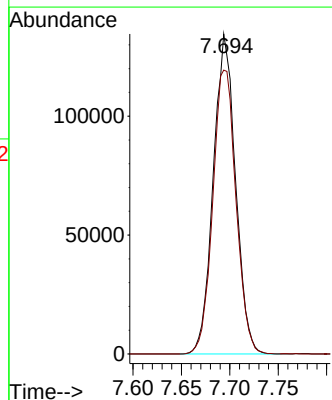
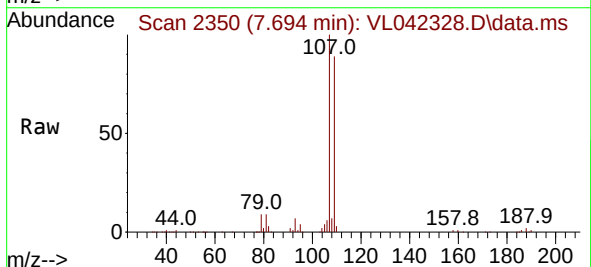
Manual Integrations
APPROVED

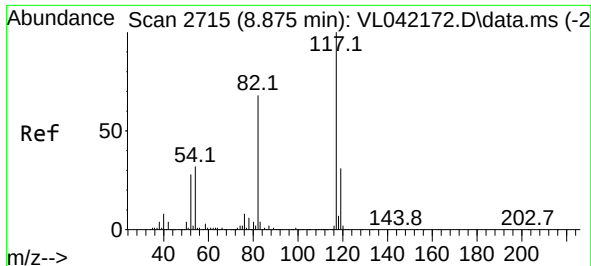
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025



#54
1,2-Dibromoethane
Concen: 9.089 ppbv
RT: 7.694 min Scan# 2350
Delta R.T. 0.045 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion:107 Resp: 214982
Ion Ratio Lower Upper
107 100
109 88.7 72.2 108.4





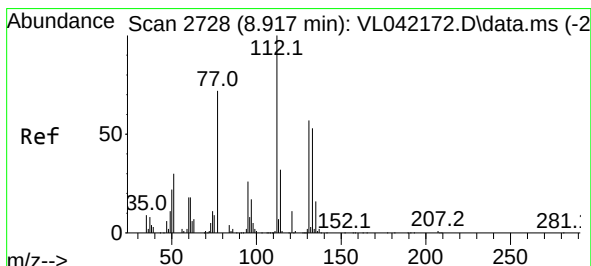
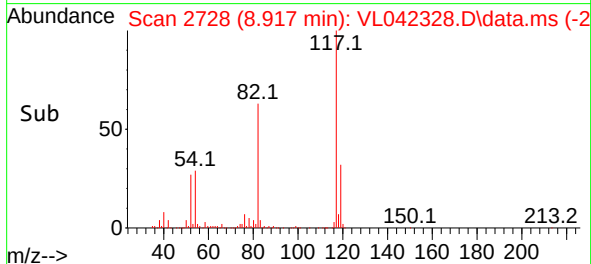
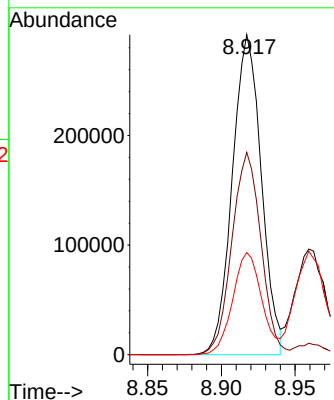
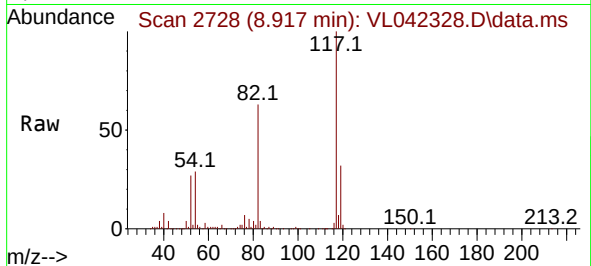
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.917 min Scan# 2715
Delta R.T. 0.042 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Instrument :
MSVOA_L
ClientSampleId :
VL0415ABS01

Tgt Ion:117 Resp: 399604
Ion Ratio Lower Upper
117 100
82 66.8 55.8 83.6
119 32.4 25.5 38.3

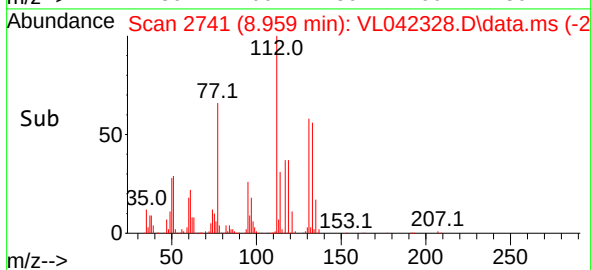
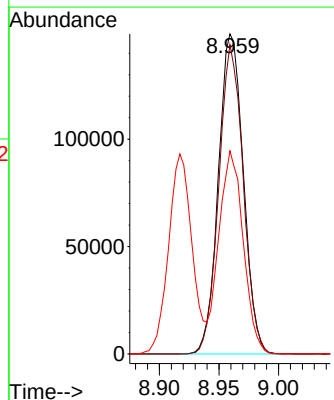
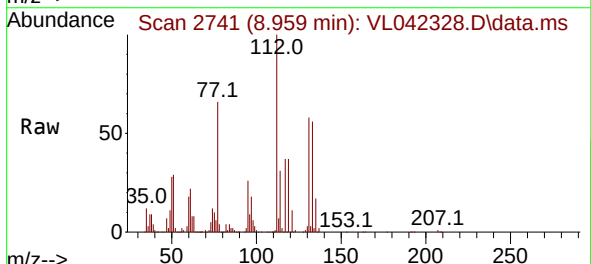
Manual Integrations
APPROVED

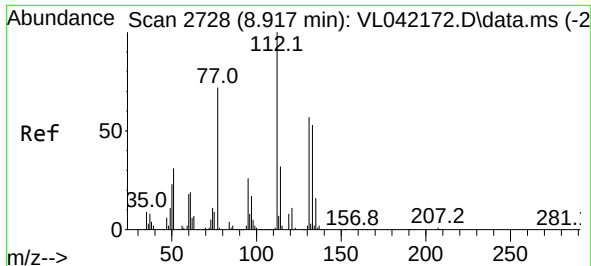
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025



#56
1,1,1,2-Tetrachloroethane
Concen: 9.855 ppbv
RT: 8.959 min Scan# 2741
Delta R.T. 0.042 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

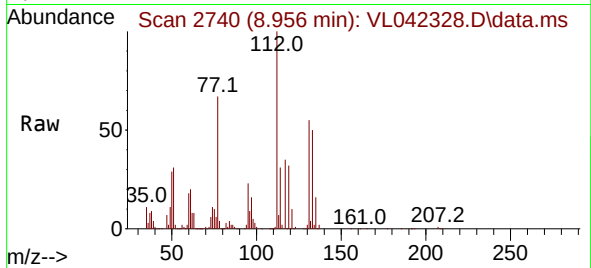
Tgt Ion:131 Resp: 216770
Ion Ratio Lower Upper
131 100
133 94.3 76.6 114.8
119 59.8 49.8 74.6





#57
Chlorobenzene
Concen: 9.739 ppbv
RT: 8.956 min Scan# 2740
Delta R.T. 0.039 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

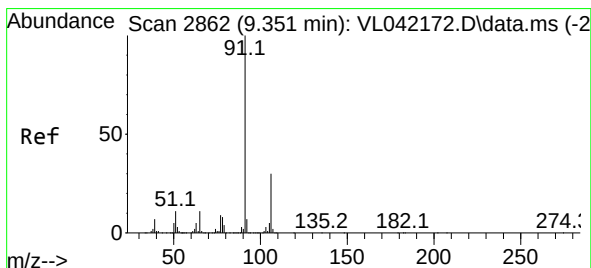
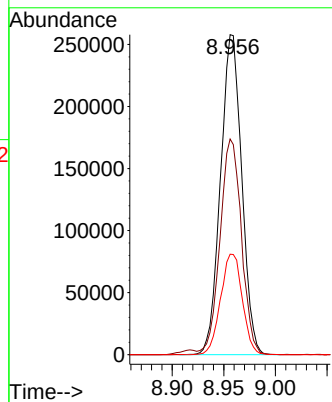
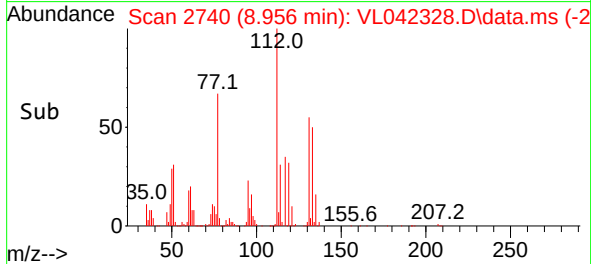
Instrument :
MSVOA_L
ClientSampleId :
VL0415ABS01



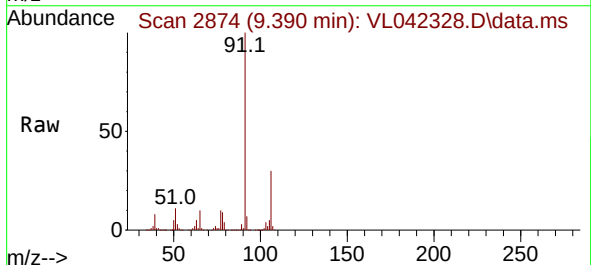
Tgt Ion: 112 Resp: 36913
Ion Ratio Lower Upper
112 100
77 67.4 58.2 87.2
114 31.4 29.1 35.5

Manual Integrations
APPROVED

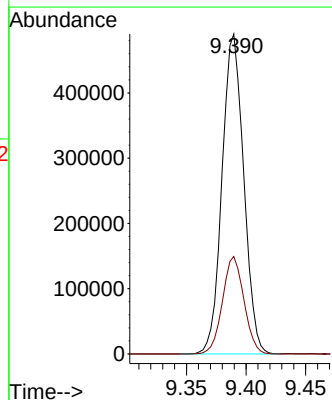
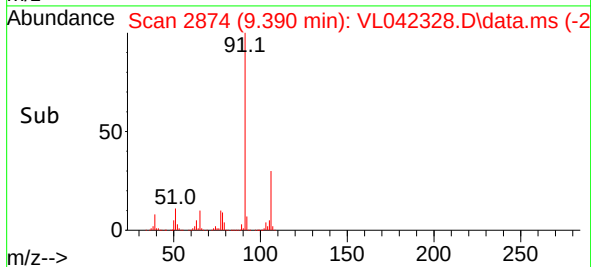
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025

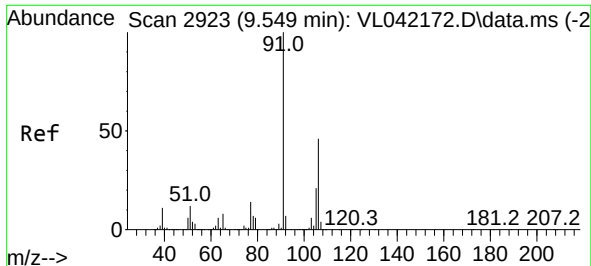


#58
Ethyl Benzene
Concen: 8.716 ppbv
RT: 9.390 min Scan# 2874
Delta R.T. 0.039 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54



Tgt Ion: 91 Resp: 618669
Ion Ratio Lower Upper
91 100
106 30.4 24.2 36.2





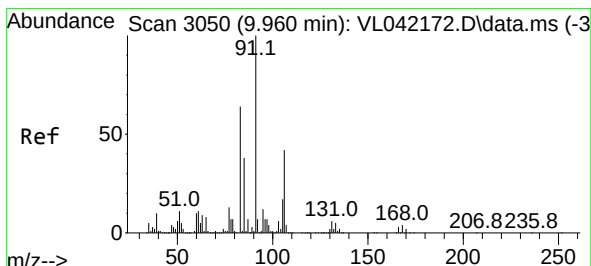
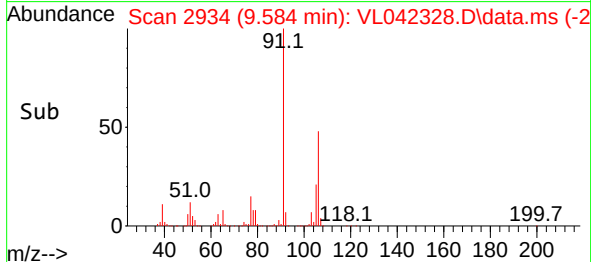
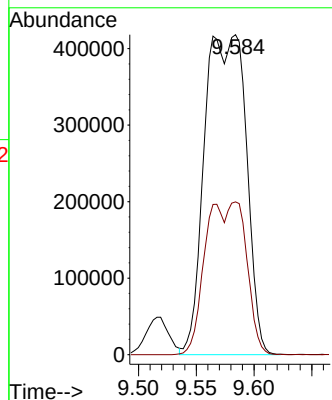
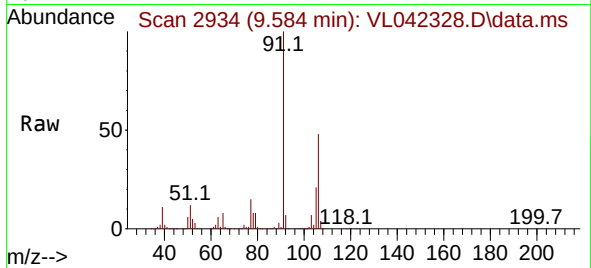
#59
m/p-Xylene
Concen: 18.512 ppbv m
RT: 9.584 min Scan# 2923
Delta R.T. 0.035 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Instrument :
MSVOA_L
ClientSampleId :
VL0415ABS01

Tgt Ion: 91 Resp: 1049238
Ion Ratio Lower Upper
91 100
106 47.2 36.4 54.6

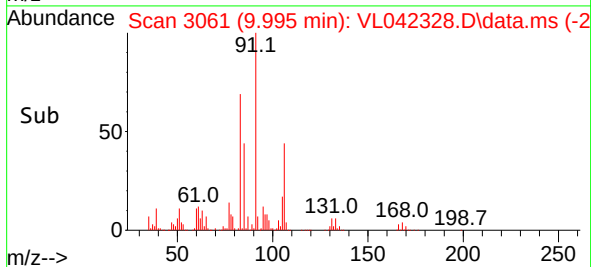
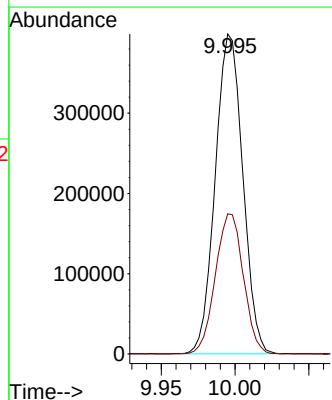
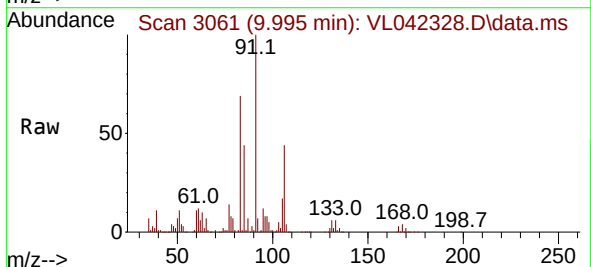
Manual Integrations
APPROVED

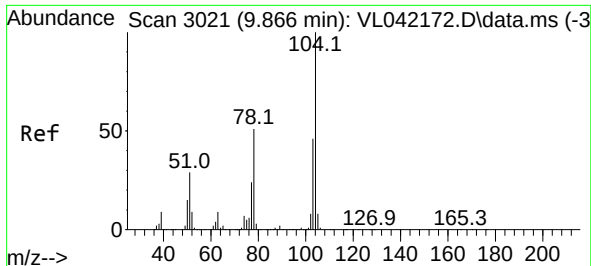
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025



#60
o-Xylene
Concen: 9.107 ppbv
RT: 9.995 min Scan# 3061
Delta R.T. 0.035 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 91 Resp: 517471
Ion Ratio Lower Upper
91 100
106 44.5 20.8 62.5





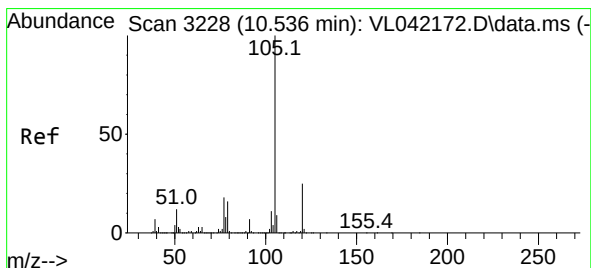
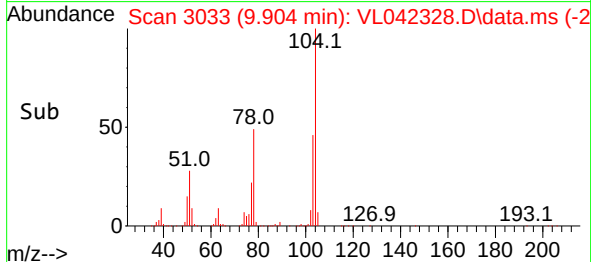
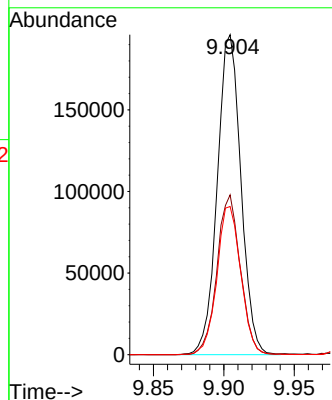
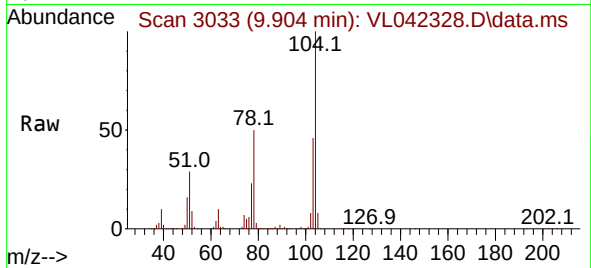
#61
Styrene
Concen: 8.168 ppbv
RT: 9.904 min Scan# 3021
Delta R.T. 0.039 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Instrument :
MSVOA_L
ClientSampleId :
VL0415ABS01

Tgt Ion:104 Resp: 22960
Ion Ratio Lower Upper
104 100
78 49.5 41.8 62.6
103 47.0 37.0 55.4

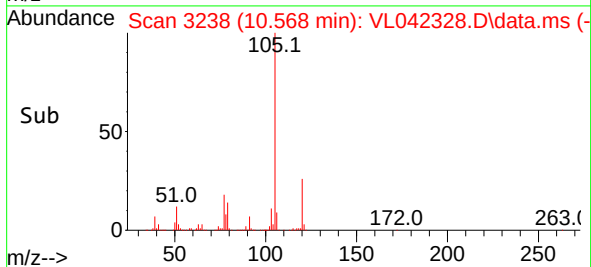
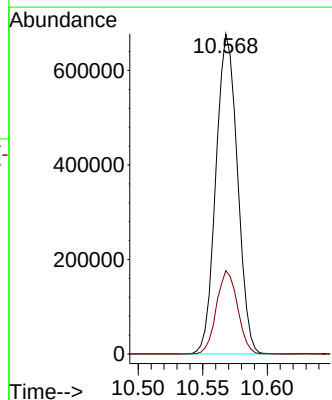
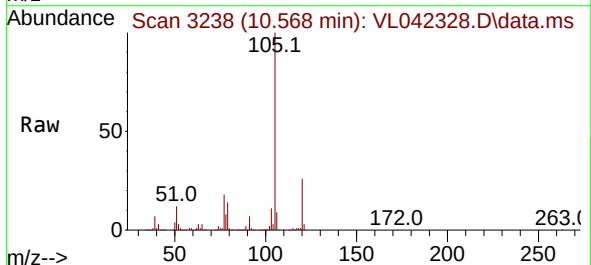
Manual Integrations
APPROVED

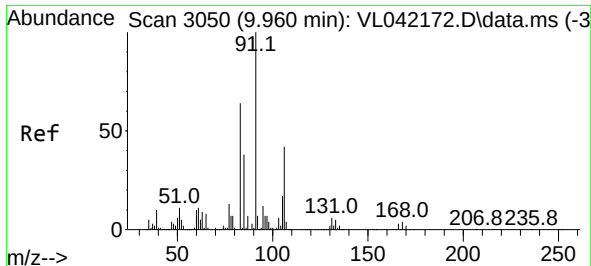
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025



#62
Isopropylbenzene
Concen: 9.247 ppbv
RT: 10.568 min Scan# 3238
Delta R.T. 0.032 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

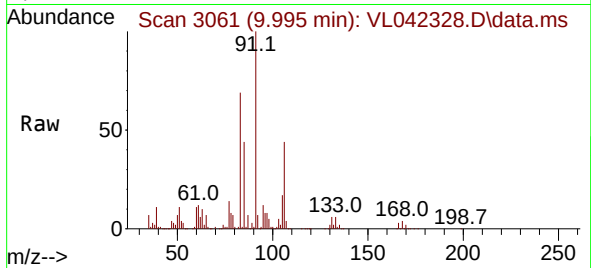
Tgt Ion:105 Resp: 785673
Ion Ratio Lower Upper
105 100
120 25.5 19.9 29.9





#63
1,1,2-Tetrachloroethane
Concen: 10.176 ppbv
RT: 9.995 min Scan# 3050
Delta R.T. 0.035 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

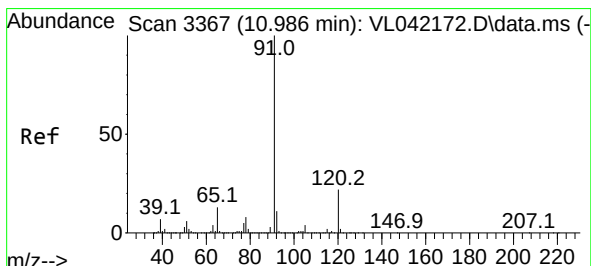
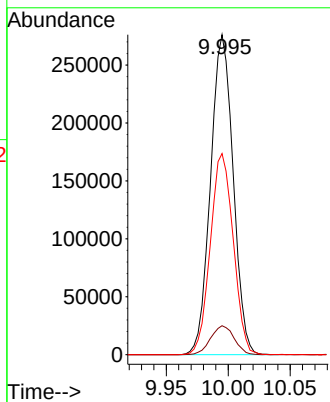
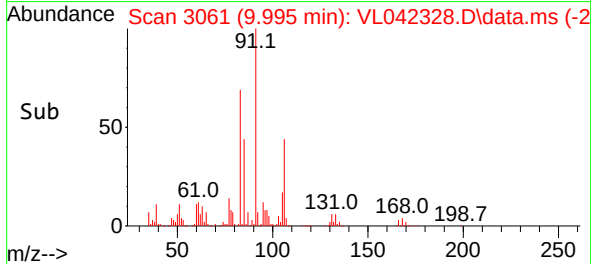
Instrument :
MSVOA_L
ClientSampleId :
VL0415ABS01



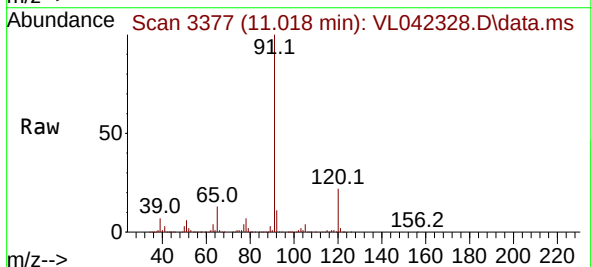
Tgt Ion: 83 Resp: 351308
Ion Ratio Lower Upper
83 100
131 9.4 4.8 14.4
85 63.9 32.5 97.5

Manual Integrations
APPROVED

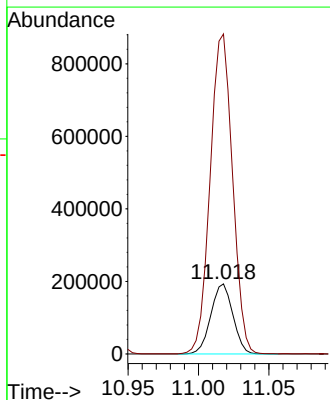
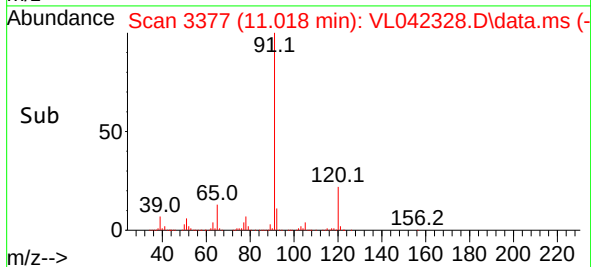
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025

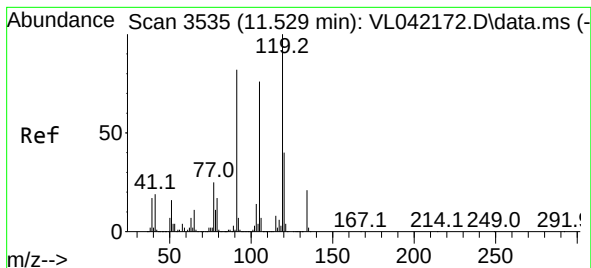


#64
n-propylbenzene
Concen: 9.615 ppbv
RT: 11.018 min Scan# 3377
Delta R.T. 0.032 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54



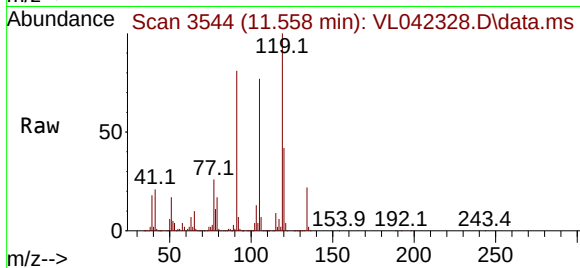
Tgt Ion:120 Resp: 210294
Ion Ratio Lower Upper
120 100
91 465.9 376.9 565.3





#65
tert-Butylbenzene
Concen: 9.149 ppbv
RT: 11.558 min Scan# 3544
Delta R.T. 0.029 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

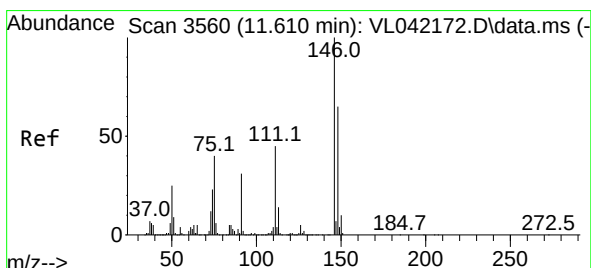
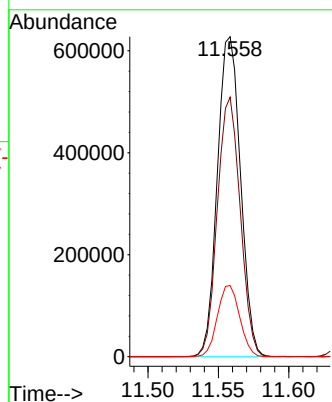
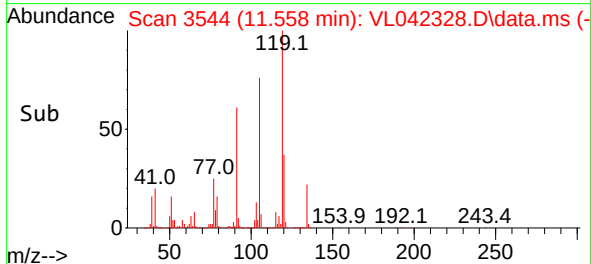
Instrument :
MSVOA_L
ClientSampleId :
VL0415ABS01



Tgt Ion: 119 Resp: 71894
Ion Ratio Lower Upper
119 100
91 79.8 66.0 99.0
134 21.4 16.7 25.1

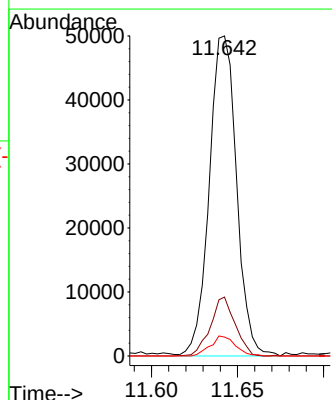
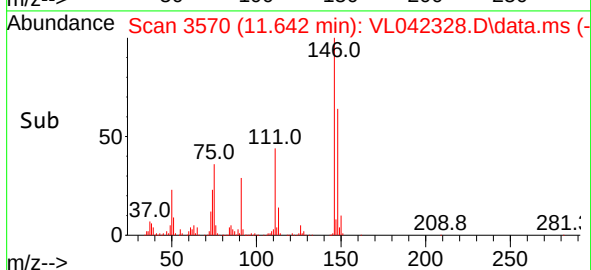
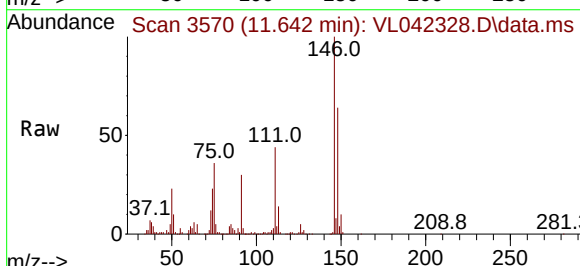
Manual Integrations
APPROVED

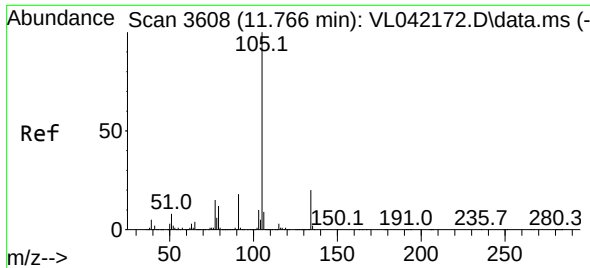
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025



#66
Benzyl Chloride
Concen: 6.614 ppbv
RT: 11.642 min Scan# 3570
Delta R.T. 0.032 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

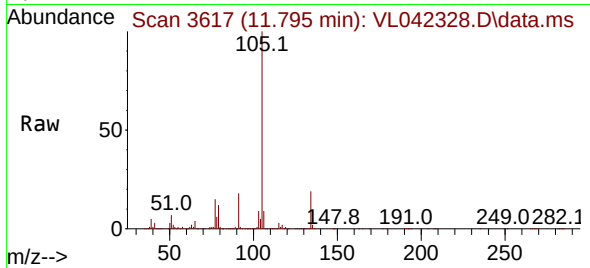
Tgt Ion: 91 Resp: 55150
Ion Ratio Lower Upper
91 100
126 16.6 13.8 20.6
128 5.7 4.5 6.7





#67
 sec-Butylbenzene
 Concen: 9.328 ppbv
 RT: 11.795 min Scan# 3187
 Delta R.T. 0.029 min
 Lab File: VL042328.D
 Acq: 15 Apr 2025 12:54

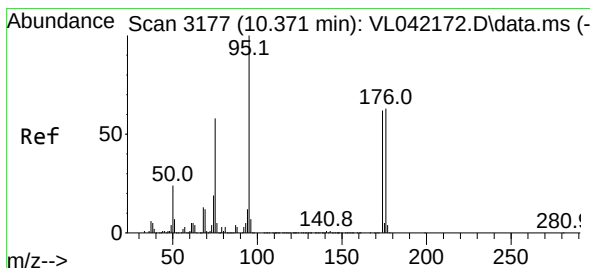
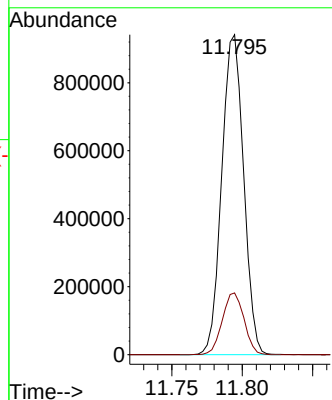
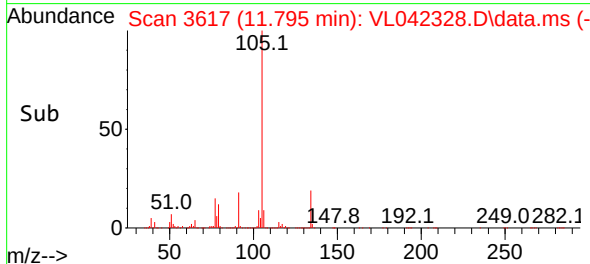
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0415ABS01



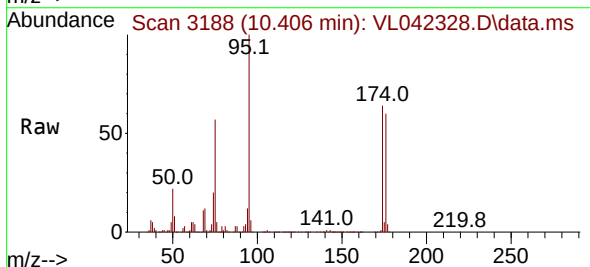
Tgt Ion: 105 Resp: 101886
 Ion Ratio Lower Upper
 105 100
 134 19.2 15.5 23.3

Manual Integrations
 APPROVED

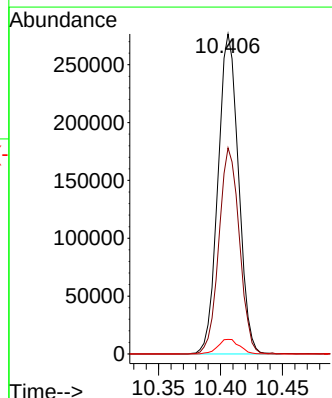
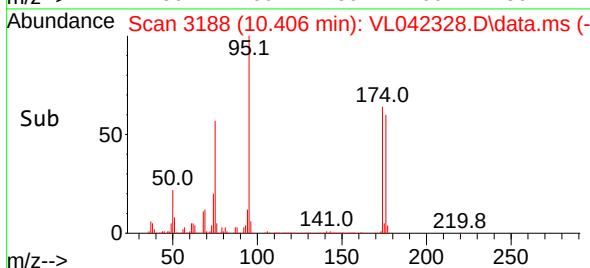
Reviewed By :Semsettin Yesilyurt 04/16/2025
 Supervised By :Mahesh Dadoda 04/16/2025

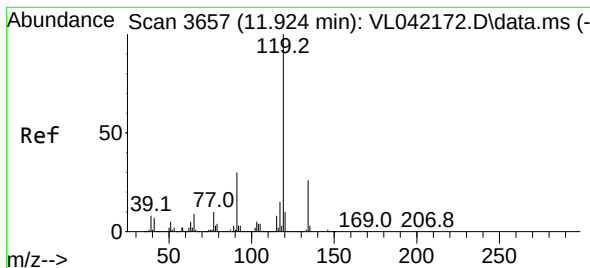


#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.718 ppbv
 RT: 10.406 min Scan# 3188
 Delta R.T. 0.035 min
 Lab File: VL042328.D
 Acq: 15 Apr 2025 12:54



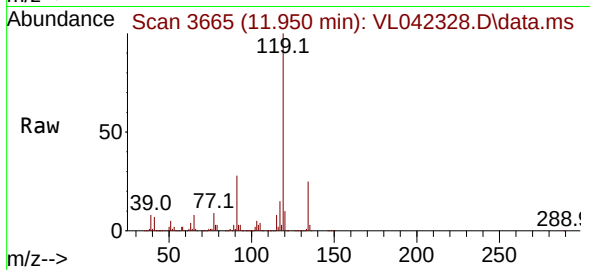
Tgt Ion: 95 Resp: 318902
 Ion Ratio Lower Upper
 95 100
 174 64.4 50.6 76.0
 175 4.8 3.8 5.6





#69
p-Isopropyltoluene
Concen: 9.179 ppbv
RT: 11.950 min Scan# 3665
Delta R.T. 0.026 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

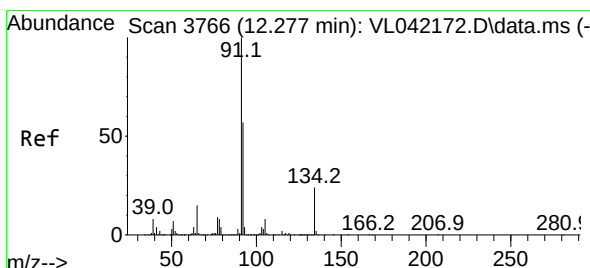
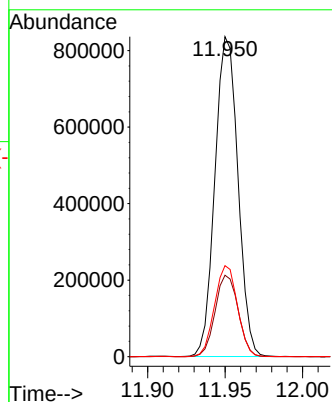
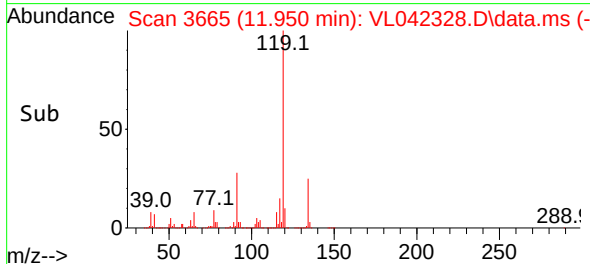
Instrument :
MSVOA_L
ClientSampleId :
VL0415ABS01



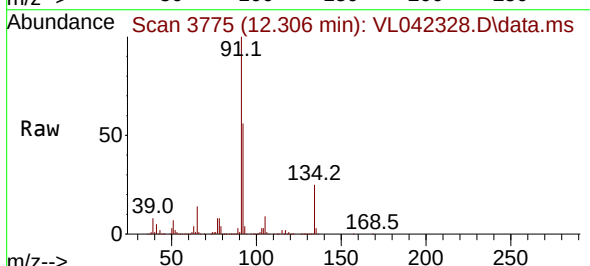
Tgt Ion: 119 Resp: 863264
Ion Ratio Lower Upper
119 100
134 25.6 20.4 30.6
91 28.5 23.7 35.5

Manual Integrations
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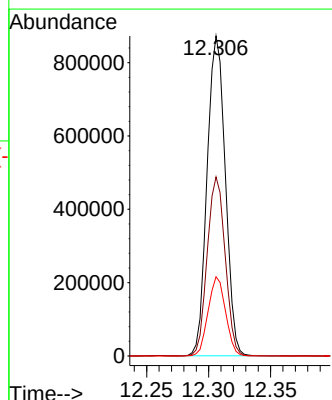
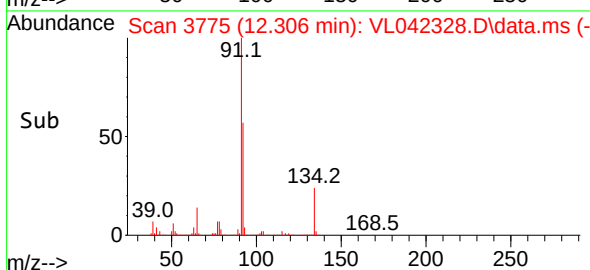
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025

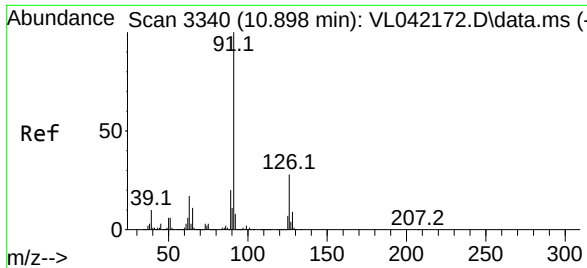


#70
n-Butylbenzene
Concen: 9.273 ppbv
RT: 12.306 min Scan# 3775
Delta R.T. 0.029 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54



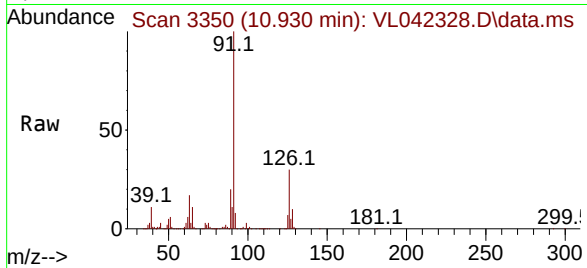
Tgt Ion: 91 Resp: 891883
Ion Ratio Lower Upper
91 100
92 55.3 44.9 67.3
134 23.8 19.2 28.8





#71
2-Chlorotoluene
Concen: 8.953 ppbv
RT: 10.930 min Scan# 3118
Delta R.T. 0.032 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

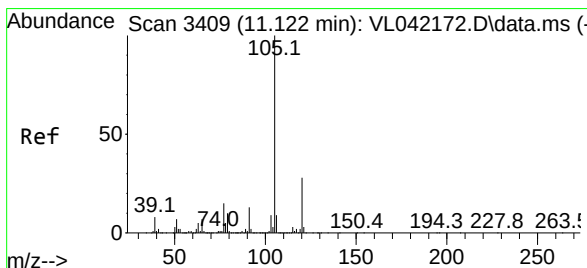
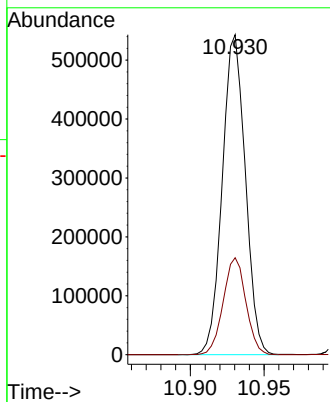
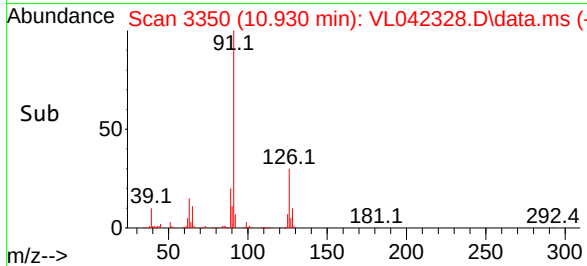
Instrument :
MSVOA_L
ClientSampleId :
VL0415ABS01



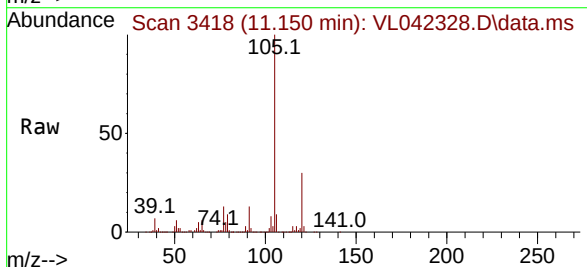
Tgt Ion: 91 Resp: 590408
Ion Ratio Lower Upper
91 100
126 29.8 11.6 46.4

Manual Integrations
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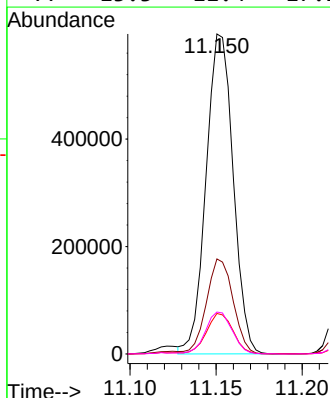
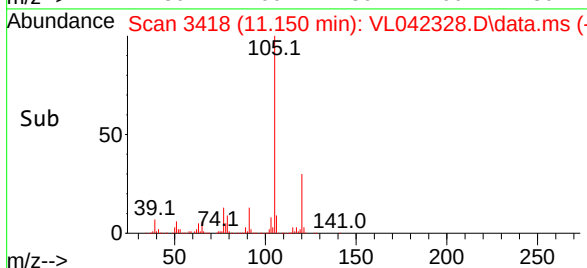
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025

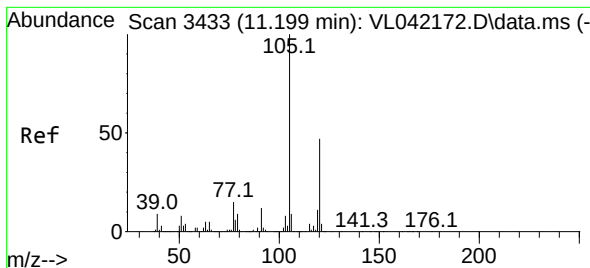


#72
4-Ethyltoluene
Concen: 9.230 ppbv
RT: 11.150 min Scan# 3418
Delta R.T. 0.029 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54



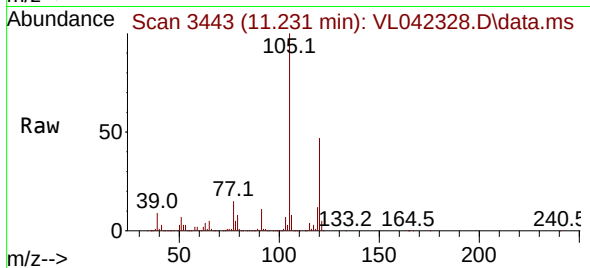
Tgt Ion:105 Resp: 652962
Ion Ratio Lower Upper
105 100
120 30.0 23.4 35.0
91 13.0 10.3 15.5
77 13.3 11.4 17.2





#73
1,3,5-Trimethylbenzene
Concen: 9.055 ppbv
RT: 11.231 min Scan# 3433
Delta R.T. 0.032 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

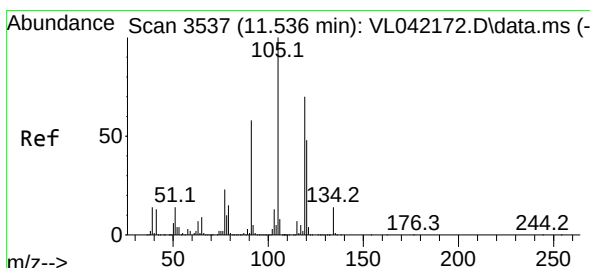
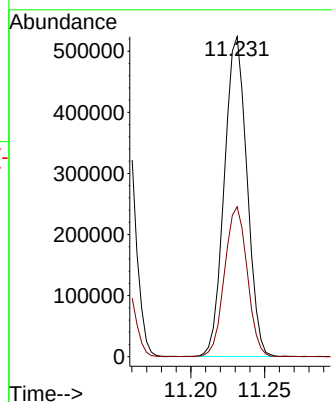
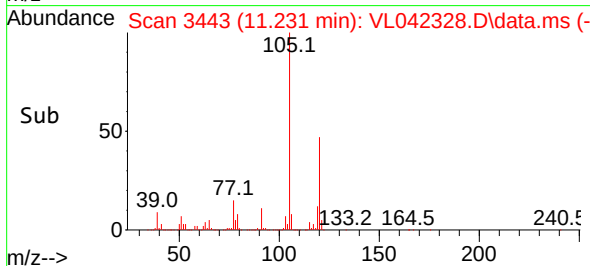
Instrument :
MSVOA_L
ClientSampleId :
VL0415ABS01



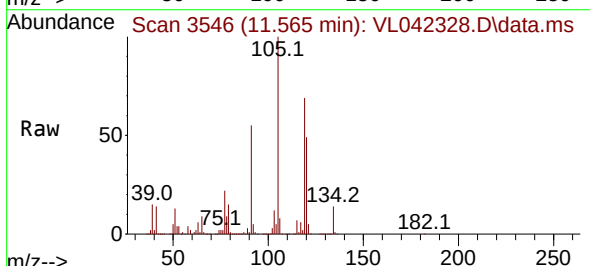
Tgt Ion:105 Resp: 55945
Ion Ratio Lower Upper
105 100
120 46.8 37.4 56.0

Manual Integrations
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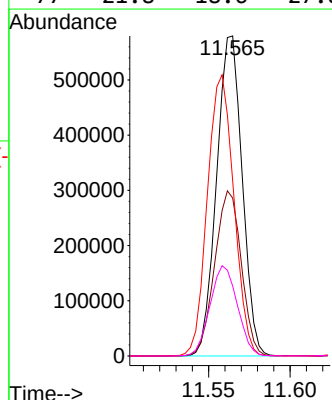
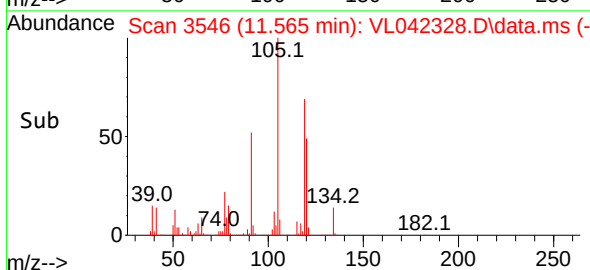
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025

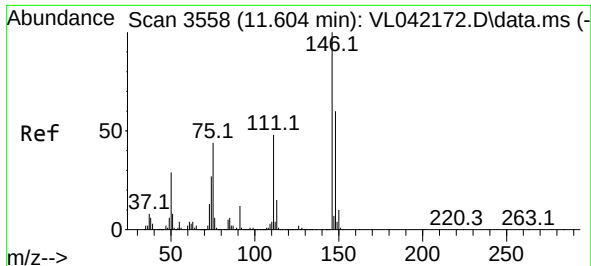


#74
1,2,4-Trimethylbenzene
Concen: 8.883 ppbv
RT: 11.565 min Scan# 3546
Delta R.T. 0.029 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54



Tgt Ion:105 Resp: 632271
Ion Ratio Lower Upper
105 100
120 49.3 38.6 58.0
91 54.7 46.2 69.2
77 21.8 18.6 27.8





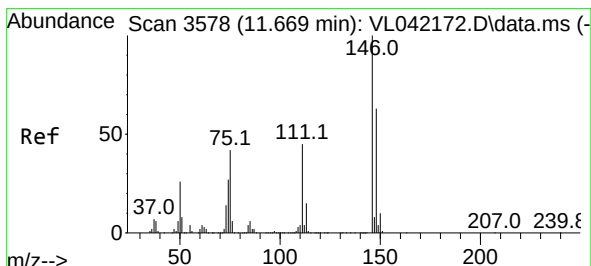
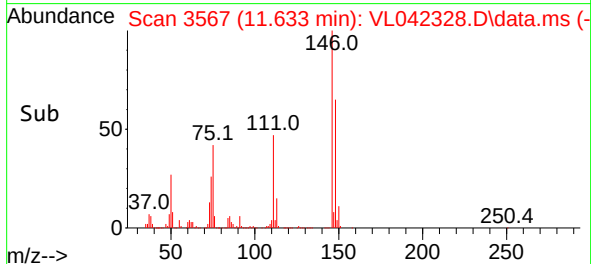
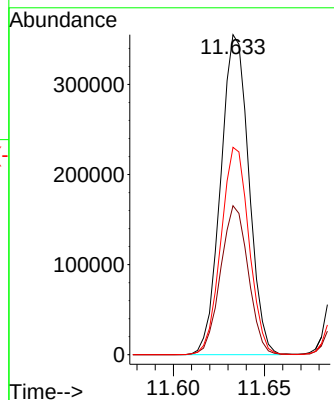
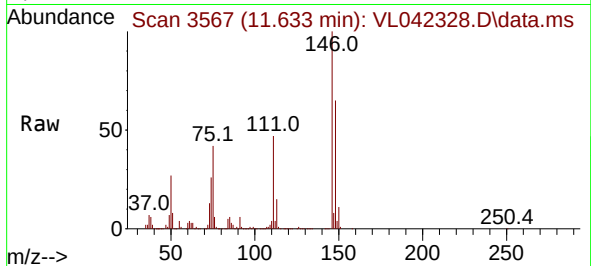
#75
1,3-Dichlorobenzene
Concen: 9.782 ppbv
RT: 11.633 min Scan# 3567
Delta R.T. 0.029 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Instrument :
MSVOA_L
ClientSampleId :
VL0415ABS01

Tgt Ion:146 Resp: 38188
Ion Ratio Lower Upper
146 100
111 45.7 23.8 71.2
148 64.5 31.9 95.9

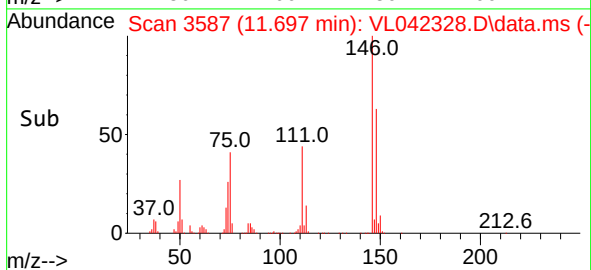
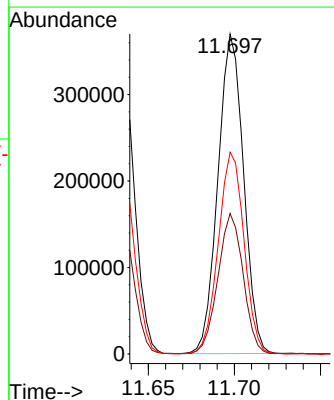
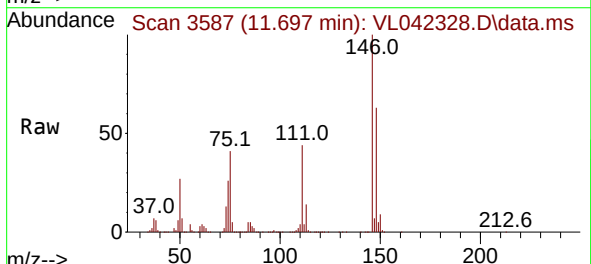
Manual Integrations
APPROVED

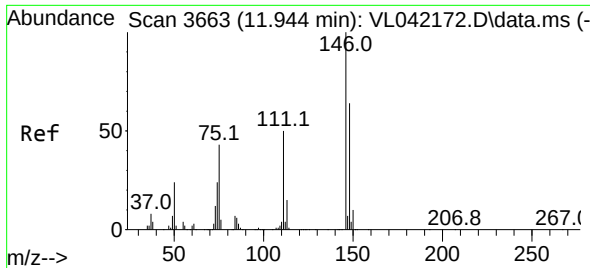
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025



#76
1,4-Dichlorobenzene
Concen: 9.861 ppbv
RT: 11.697 min Scan# 3587
Delta R.T. 0.029 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

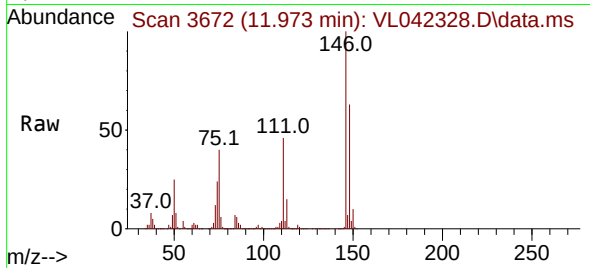
Tgt Ion:146 Resp: 383116
Ion Ratio Lower Upper
146 100
111 43.4 23.0 69.0
148 63.6 31.9 95.7





#77
1,2-Dichlorobenzene
Concen: 10.175 ppbv
RT: 11.973 min Scan# 3663
Delta R.T. 0.029 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

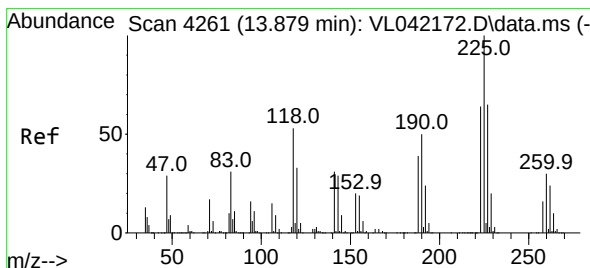
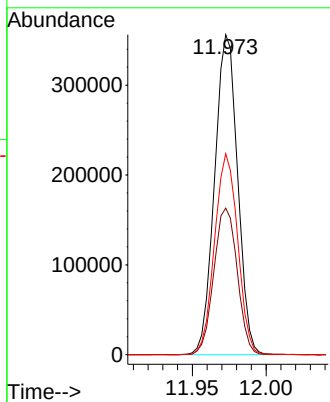
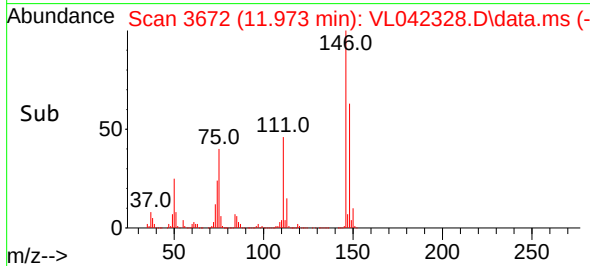
Instrument :
MSVOA_L
ClientSampleId :
VL0415ABS01



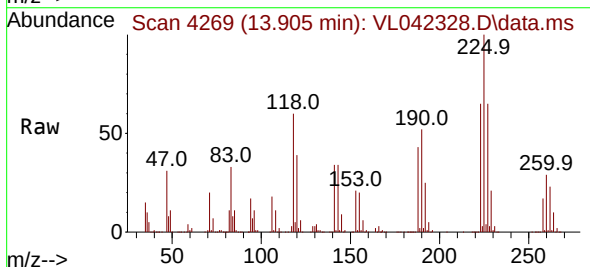
Tgt Ion:146 Resp: 386768
Ion Ratio Lower Upper
146 100
111 46.7 24.8 74.3
148 63.1 31.6 94.8

Manual Integrations
APPROVED

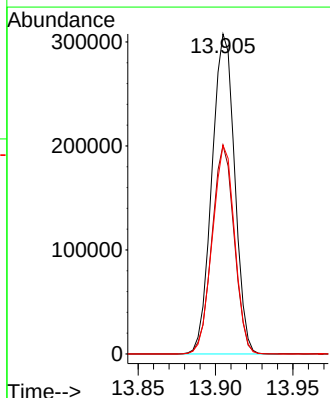
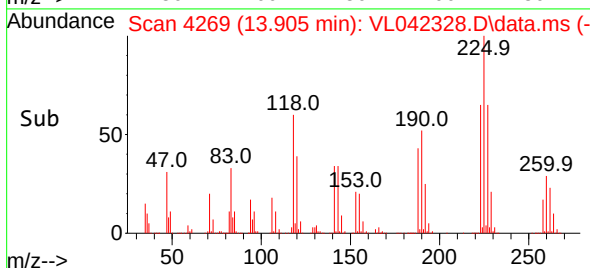
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025

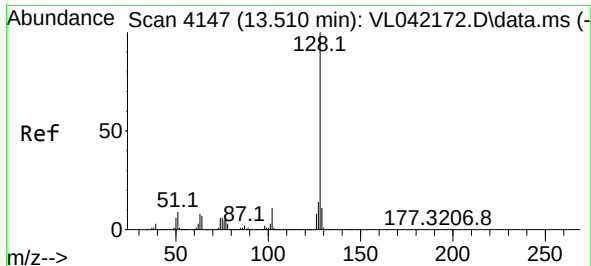


#78
Hexachloro-1,3-Butadiene
Concen: 8.138 ppbv
RT: 13.905 min Scan# 4269
Delta R.T. 0.026 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54



Tgt Ion:225 Resp: 314860
Ion Ratio Lower Upper
225 100
223 63.7 50.6 76.0
227 64.0 51.2 76.8





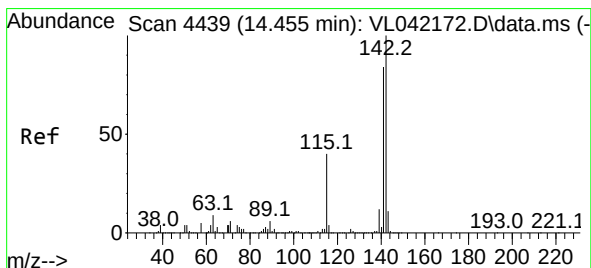
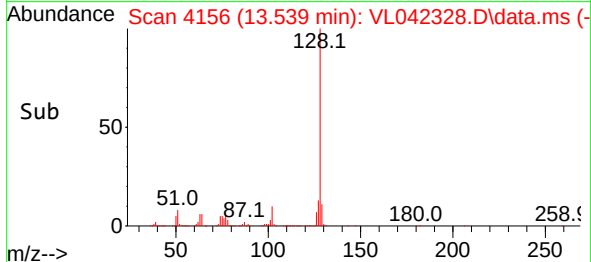
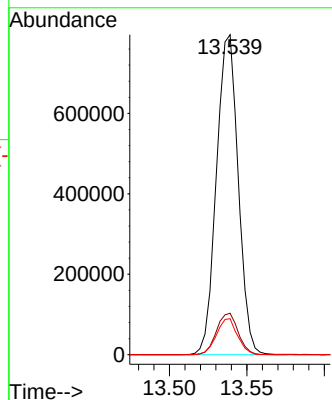
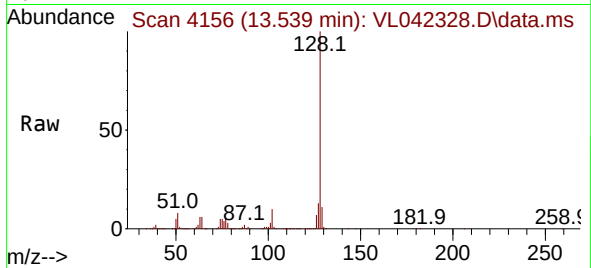
#79
Naphthalene
Concen: 9.989 ppbv
RT: 13.539 min Scan# 4147
Delta R.T. 0.029 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Instrument :
MSVOA_L
ClientSampleId :
VL0415ABS01

Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.8	16.2
129	11.2	9.0	13.4

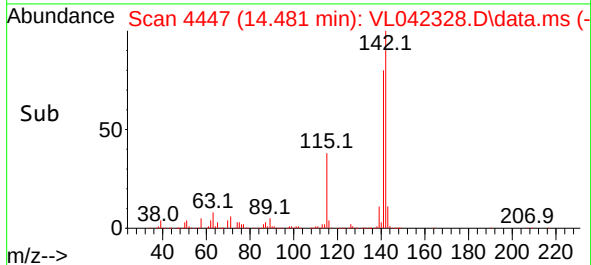
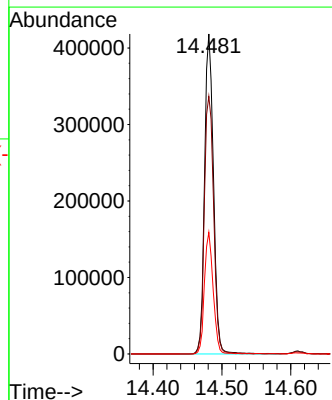
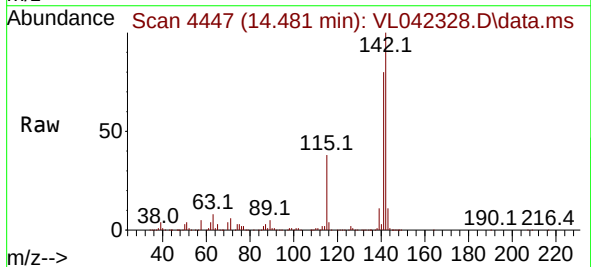
Manual Integrations
APPROVED

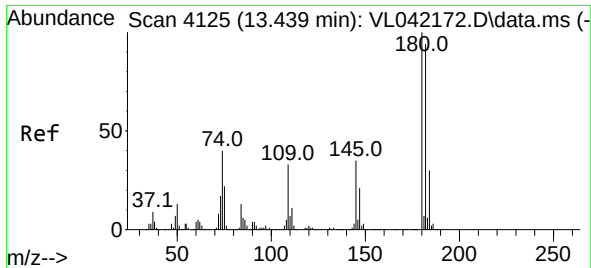
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025



#80
Naphthalene,2-methyl-
Concen: 9.836 ppbv
RT: 14.481 min Scan# 4447
Delta R.T. 0.026 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion	Ratio	Lower	Upper
142	100		
141	84.5	66.3	99.5
115	37.5	31.6	47.4





#81

1,2,4-Trichlorobenzene

Concen: 9.551 ppbv

RT: 13.465 min Scan# 41

Delta R.T. 0.026 min

Lab File: VL042328.D

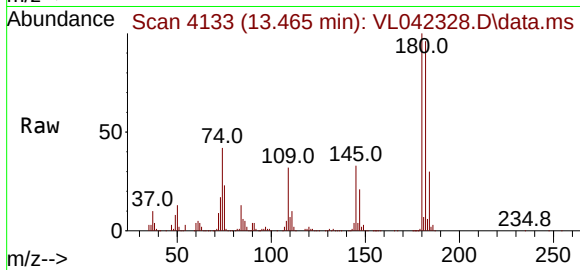
Acq: 15 Apr 2025 12:54

Instrument :

MSVOA_L

ClientSampleId :

VL0415ABS01

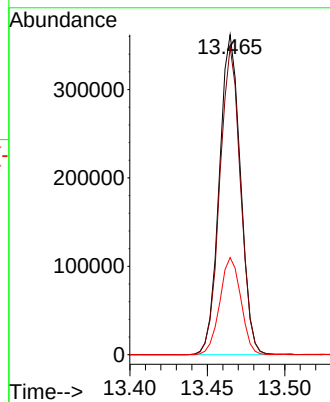
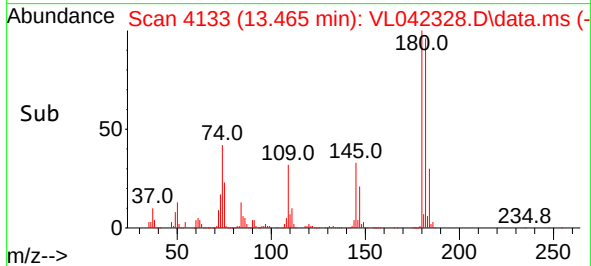


Tgt Ion:180	Resp:	34301
Ion Ratio	Lower	Upper
180	100	
182	94.8	75.1 112.7
184	30.3	24.4 36.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025



Report of Analysis

Client:	Woodard & Curran	Date Collected:	
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	
Client Sample ID:	VL0417ABS01	SDG No.:	Q1665
Lab Sample ID:	VL0417ABS01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042358.D	1		04/17/25 15:39	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	10.3	50.9		1.04	2.47	ug/m3
74-87-3	Chloromethane	10.1	20.9		0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	9.00	23.0		0.030	0.080	ug/m3
74-83-9	Bromomethane	9.20	35.7		0.54	1.94	ug/m3
75-00-3	Chloroethane	10.1	26.6		0.45	1.32	ug/m3
109-99-9	Tetrahydrofuran	9.70	28.6		0.38	1.47	ug/m3
75-69-4	Trichlorofluoromethane	10.1	56.8		0.90	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	10.1	77.4		1.23	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	10.2	71.3		0.63	3.49	ug/m3
75-65-0	tert-Butyl alcohol	9.80	29.7		0.58	1.52	ug/m3
142-82-5	Heptane	9.20	37.7		0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	9.80	38.9		0.56	1.98	ug/m3
67-64-1	Acetone	8.70	20.7		0.57	1.19	ug/m3
75-15-0	Carbon Disulfide	10.2	31.8		0.50	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	9.50	34.3		0.43	1.80	ug/m3
75-09-2	Methylene Chloride	8.90	30.9		0.66	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	9.70	38.5		0.75	1.98	ug/m3
75-34-3	1,1-Dichloroethane	10.2	41.3		0.53	2.02	ug/m3
110-82-7	Cyclohexane	10.1	34.8		0.76	1.72	ug/m3
78-93-3	2-Butanone	9.80	28.9		0.35	1.47	ug/m3
56-23-5	Carbon Tetrachloride	9.60	60.4		0.060	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	10.4	41.2		0.36	1.98	ug/m3
67-66-3	Chloroform	10.2	49.8		0.39	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	9.70	52.9		0.050	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	10.0	46.7		0.47	2.34	ug/m3
71-43-2	Benzene	10.1	32.3		0.29	1.60	ug/m3
107-06-2	1,2-Dichloroethane	10.4	42.1		0.36	2.02	ug/m3
79-01-6	Trichloroethene	9.30	50.0		0.11	0.16	ug/m3
78-87-5	1,2-Dichloropropane	9.90	45.8		0.51	2.31	ug/m3
75-27-4	Bromodichloromethane	10.3	69.0		0.54	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	8.80	36.1		0.37	2.05	ug/m3
108-88-3	Toluene	9.80	36.9		0.41	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	9.90	44.9		0.27	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	10.1	45.9		0.27	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	10.2	55.6		0.38	2.73	ug/m3

Report of Analysis

Client:	Woodard & Curran	Date Collected:	
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	
Client Sample ID:	VL0417ABS01	SDG No.:	Q1665
Lab Sample ID:	VL0417ABS01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042358.D	1		04/17/25 15:39	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	10.3	87.8		0.60	4.26	ug/m3
106-93-4	1,2-Dibromoethane	9.90	76.1		0.54	0.77	ug/m3
127-18-4	Tetrachloroethene	8.80	59.7		0.14	0.20	ug/m3
108-90-7	Chlorobenzene	10.0	46.0		0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	10.0	43.4		0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	19.8	86.0		0.91	4.34	ug/m3
95-47-6	o-Xylene	9.80	42.6		0.52	2.17	ug/m3
100-42-5	Styrene	10.1	43.0		0.47	2.13	ug/m3
75-25-2	Bromoform	9.90	102		0.62	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	8.90	61.1		0.070	0.21	ug/m3
95-49-8	2-Chlorotoluene	9.90	51.3		0.57	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	9.60	47.2		0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	9.00	44.3		0.39	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	9.50	57.1		0.48	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	9.40	56.5		0.30	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	9.50	57.1		0.48	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	9.40	69.8		0.67	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	9.10	97.1		0.96	5.33	ug/m3
106-99-0	1,3-Butadiene	9.10	20.1		0.29	1.11	ug/m3
91-20-3	Naphthalene	9.00	47.2		0.42	0.52	ug/m3
622-96-8	4-Ethyltoluene	9.60	47.2		0.59	2.46	ug/m3
110-54-3	Hexane	9.80	34.5		0.39	1.76	ug/m3
107-05-1	Allyl Chloride	9.70	30.4		0.47	1.57	ug/m3
123-91-1	1,4-Dioxane	8.70	31.4		0.76	1.80	ug/m3
80-62-6	Methyl Methacrylate	9.30	38.1		0.37	2.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.1			70 (65) - 130 (135)	101%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	122000		2.79			
540-36-3	1,4-Difluorobenzene	352000		3.965			
3114-55-4	Chlorobenzene-d5	322000		8.888			

Report of Analysis

Client:	Woodard & Curran	Date Collected:	
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	
Client Sample ID:	VL0417ABS01	SDG No.:	Q1665
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
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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-Trichlorotrifluoro...	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 2

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

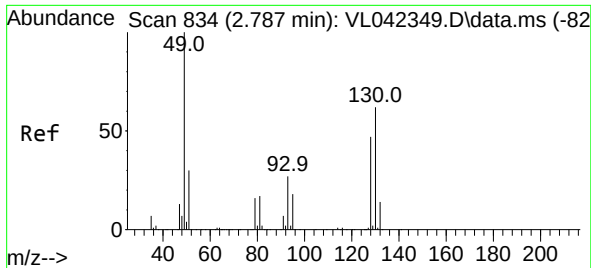
Response via : Initial Calibration

Manual Integrations APPROVED

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

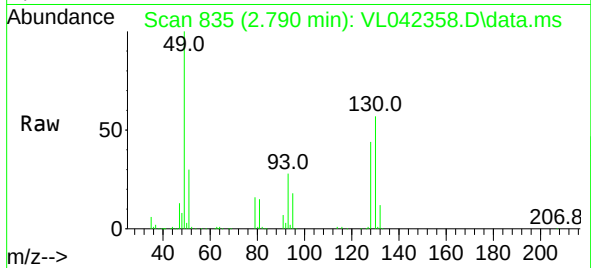
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.606	75	216901	10.133	ppbv	91
47) 1,1,2-Trichloroethane	6.590	97	146547	10.161	ppbv	96
48) Dibromochloromethane	7.396	129	261470	10.261	ppbv	100
49) Bromoform	9.487	173	221372	9.936	ppbv	99
50) 4-Methyl-2-Pentanone	5.758	43	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

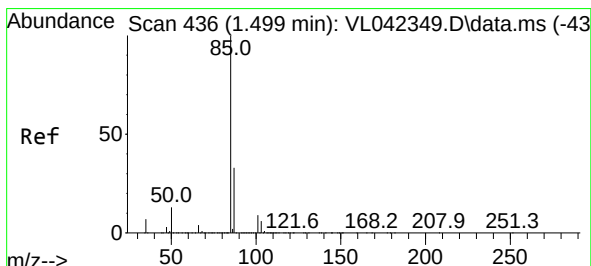
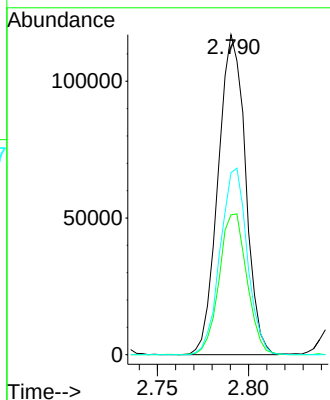
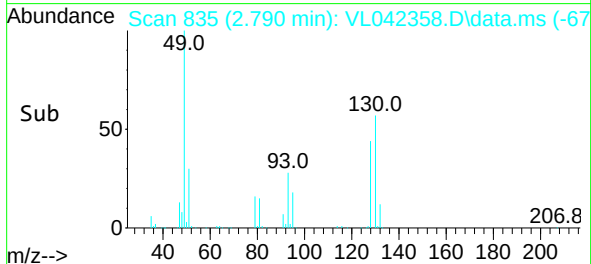
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01



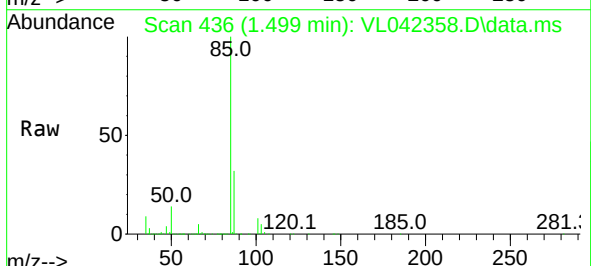
Tgt Ion: 49 Resp: 122375
Ion Ratio Lower Upper
49 100
128 44.5 22.8 68.4
130 57.6 29.3 88.0

Manual Integrations
APPROVED

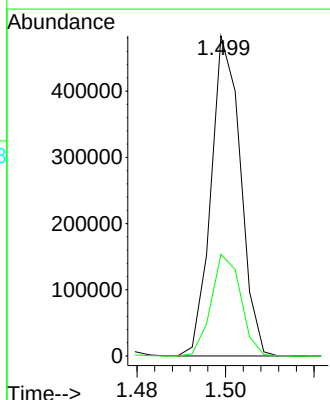
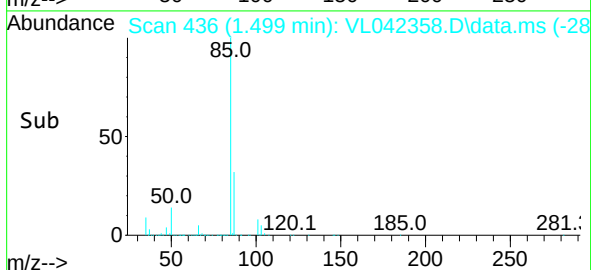
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

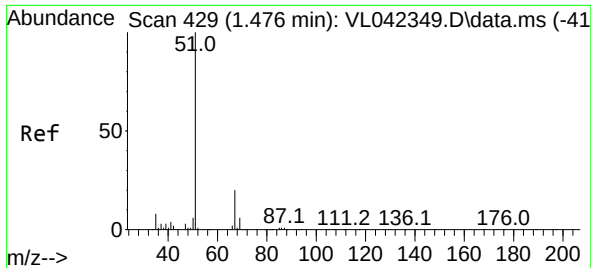


#2
Dichlorodifluoromethane
Concen: 10.337 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39



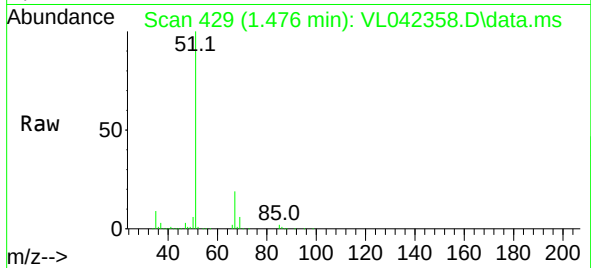
Tgt Ion: 85 Resp: 223505
Ion Ratio Lower Upper
85 100
87 31.7 26.6 39.8





#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

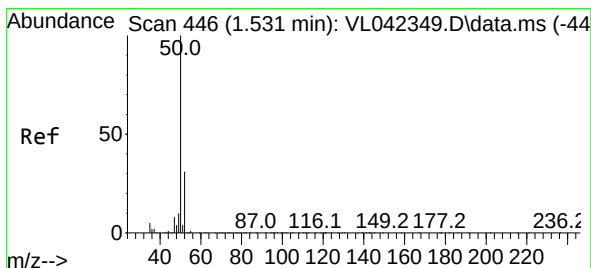
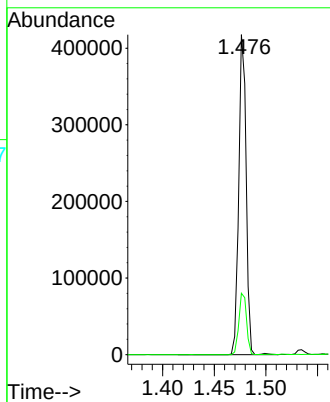
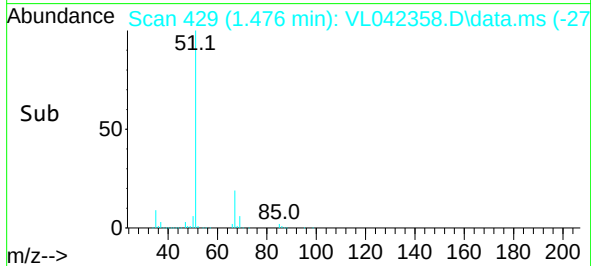
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01



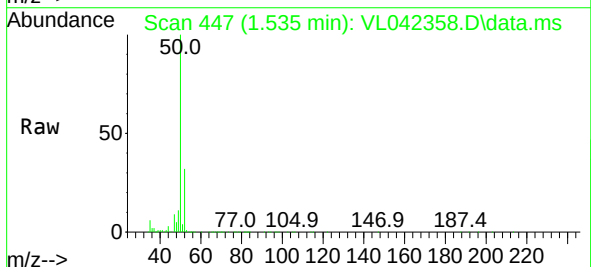
Tgt Ion: 51 Resp: 206172
Ion Ratio Lower Upper
51 100
67 20.2 16.2 24.4

Manual Integrations
APPROVED

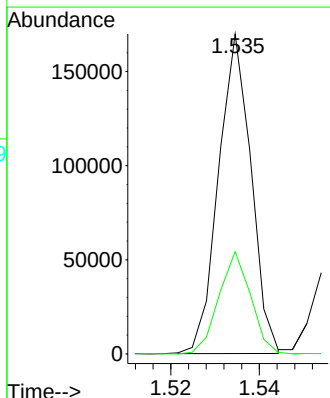
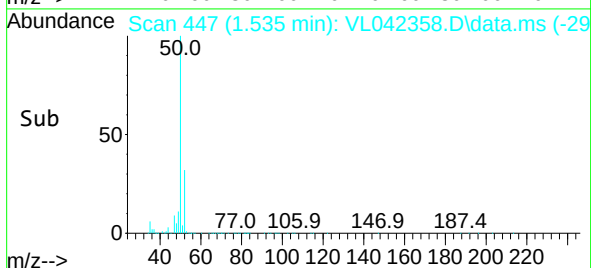
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

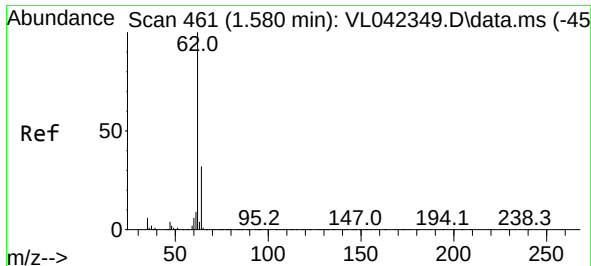


#4
Chloromethane
Concen: 10.130 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39



Tgt Ion: 50 Resp: 86675
Ion Ratio Lower Upper
50 100
52 32.1 24.7 37.1





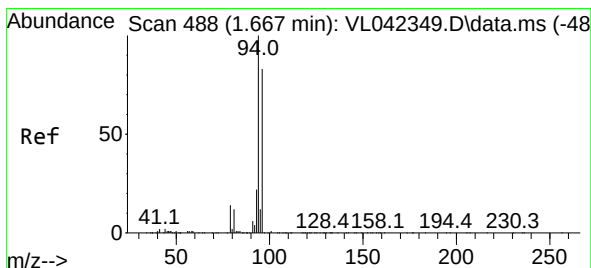
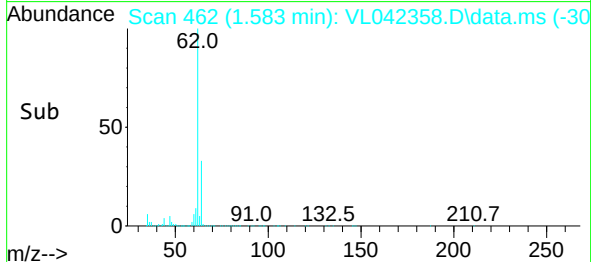
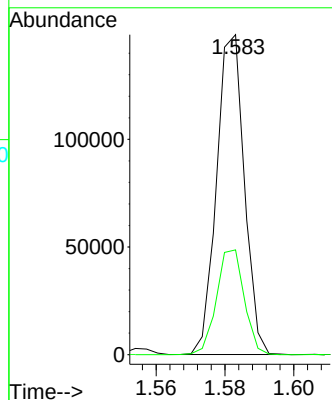
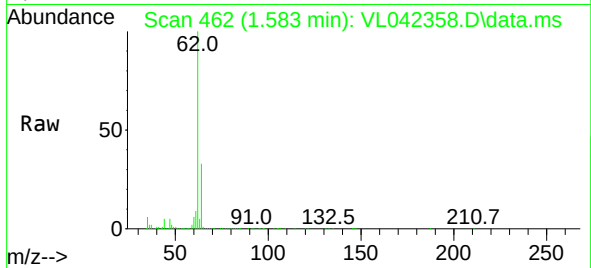
#5
 Vinyl Chloride
 Concen: 8.956 ppbv
 RT: 1.583 min Scan# 461
 Delta R.T. 0.003 min
 Lab File: VL042358.D
 Acq: 17 Apr 2025 15:39

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0417ABS01

Tgt Ion: 62 Resp: 83419
 Ion Ratio Lower Upper
 62 100
 64 32.8 25.4 38.0

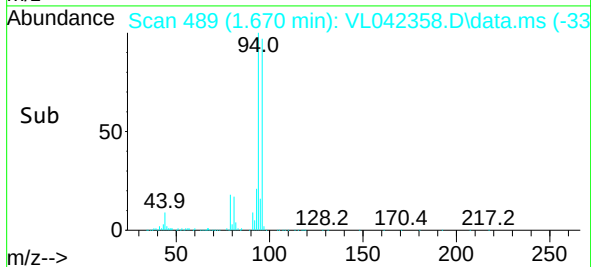
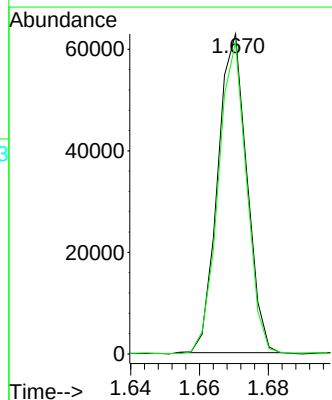
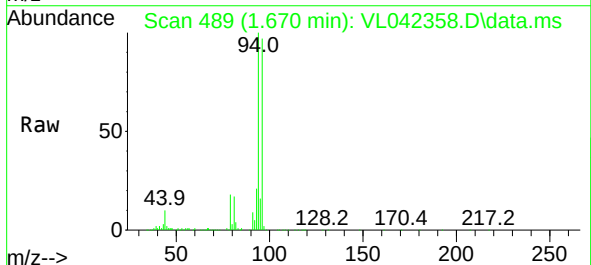
Manual Integrations
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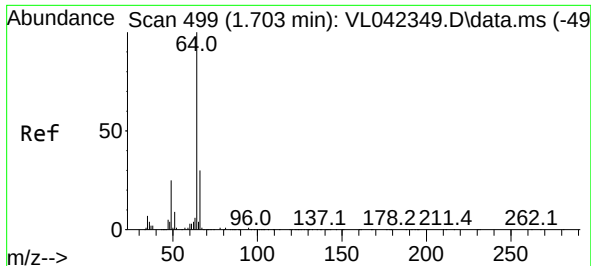
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



#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

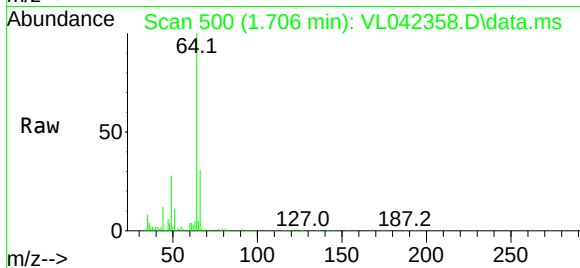
Tgt Ion: 94 Resp: 36951
 Ion Ratio Lower Upper
 94 100
 96 97.7 66.2 99.2





#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

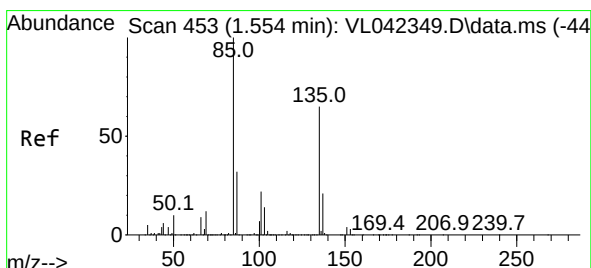
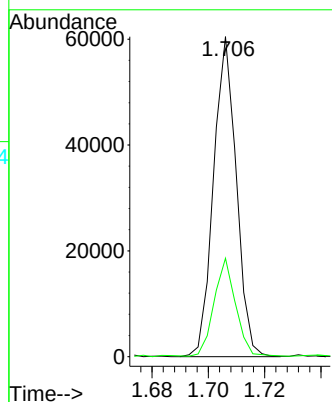
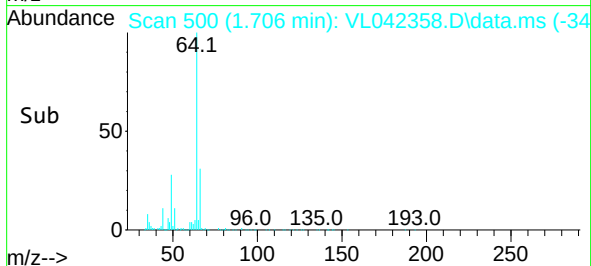
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01



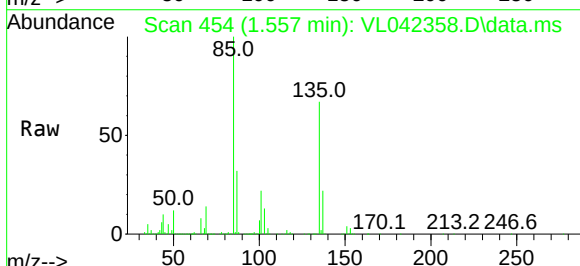
Tgt Ion: 64 Resp: 33930
Ion Ratio Lower Upper
64 100
66 30.7 24.6 37.0

Manual Integrations
APPROVED

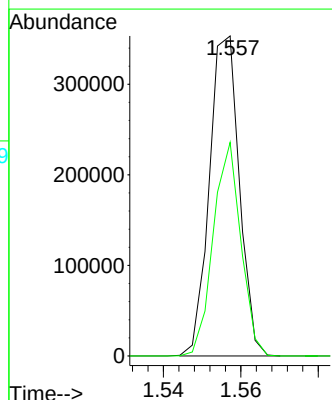
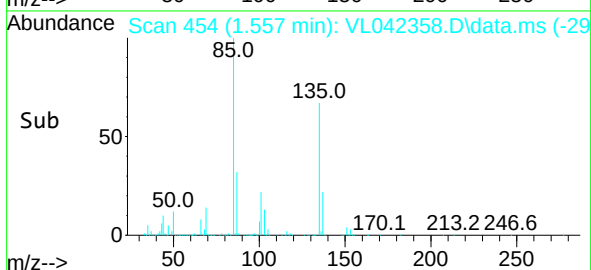
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

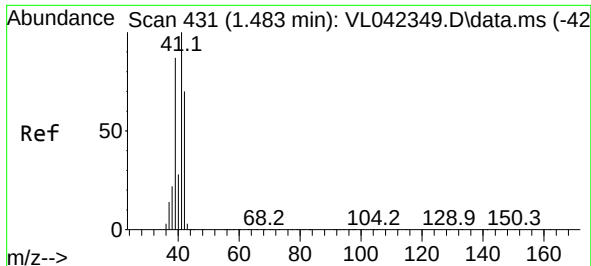


#8
Dichlorotetrafluoroethane
Concen: 10.231 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39



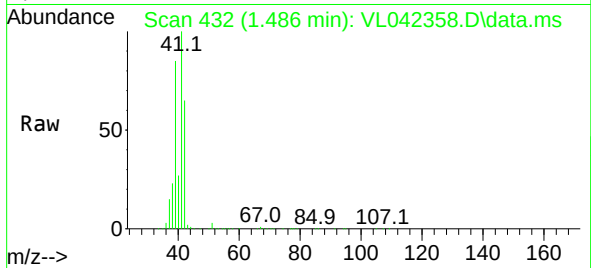
Tgt Ion: 85 Resp: 189924
Ion Ratio Lower Upper
85 100
135 61.4 52.2 78.2





#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

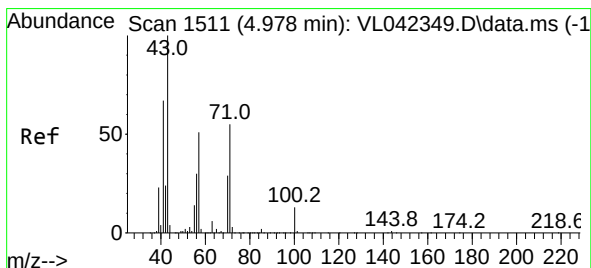
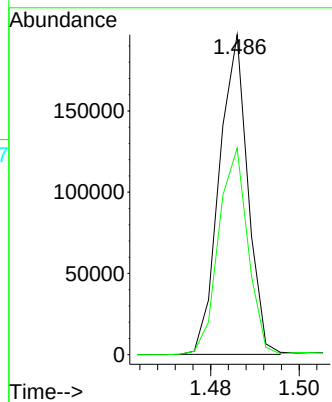
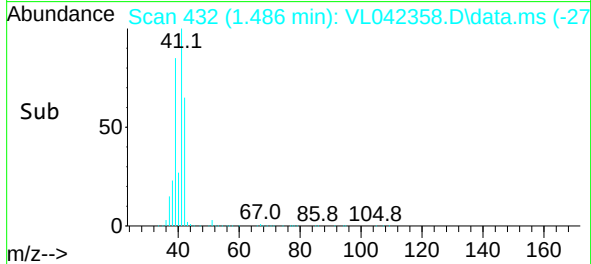
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01



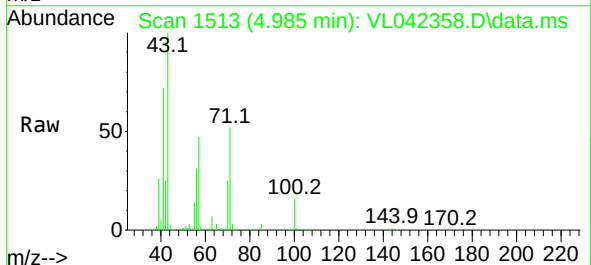
Tgt Ion: 41 Resp: 88088
Ion Ratio Lower Upper
41 100
42 68.4 56.2 84.4

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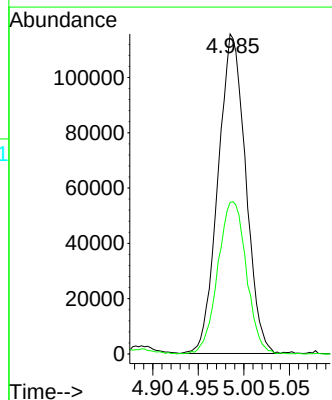
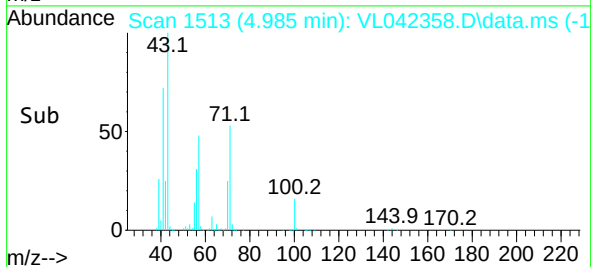
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

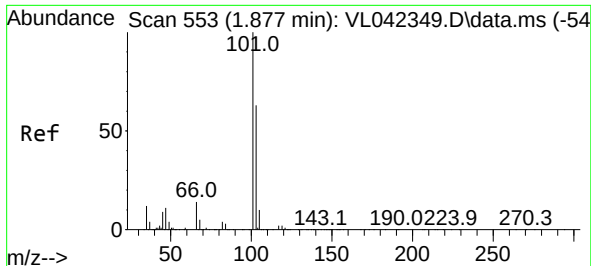


#10
Heptane
Concen: 9.244 ppbv
RT: 4.985 min Scan# 1513
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39



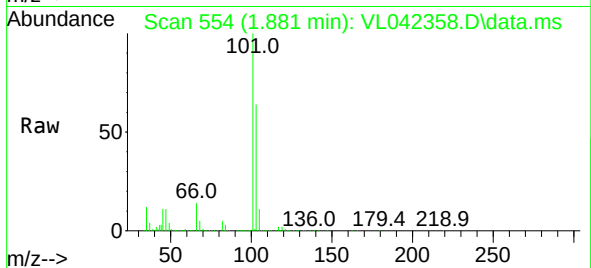
Tgt Ion: 43 Resp: 243501
Ion Ratio Lower Upper
43 100
57 49.4 39.9 59.9





#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

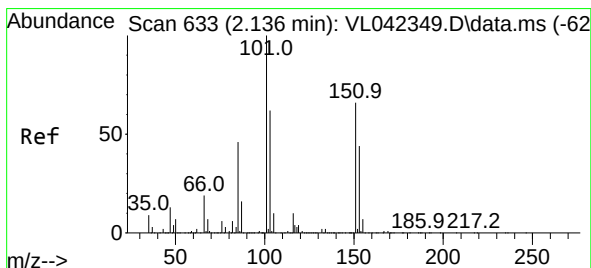
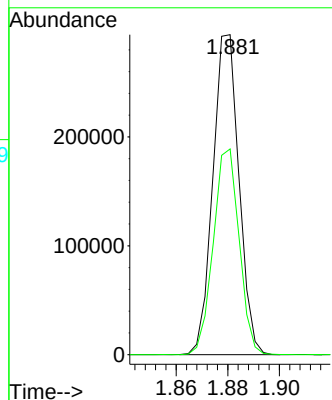
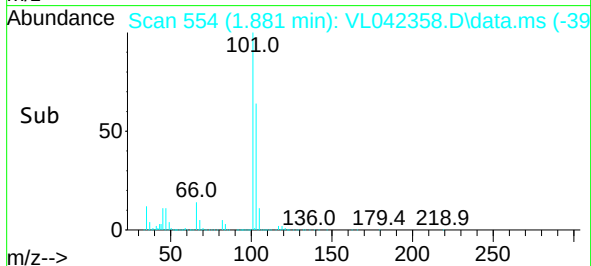
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01



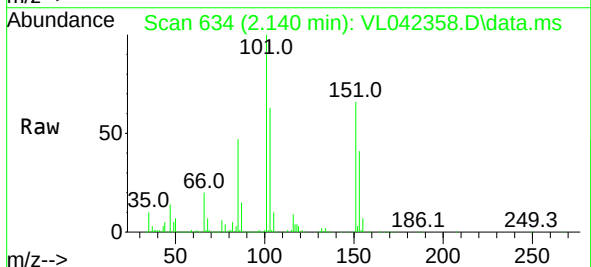
Tgt Ion:101 Resp: 206649
Ion Ratio Lower Upper
101 100
103 64.3 50.1 75.1

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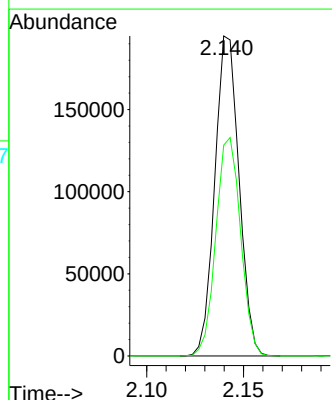
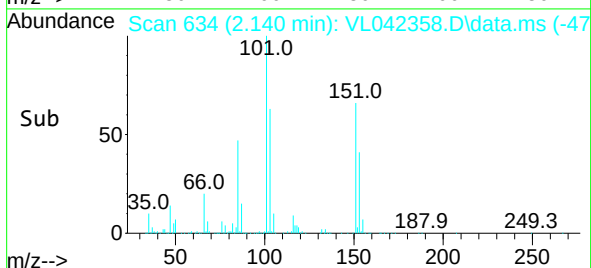
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

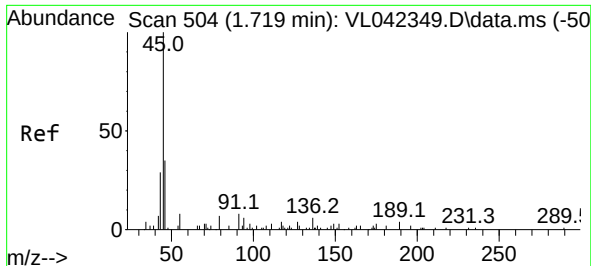


#12
1,1,2-Trichlorotrifluoroethane
Concen: 10.083 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39



Tgt Ion:101 Resp: 169501
Ion Ratio Lower Upper
101 100
151 69.6 57.0 85.6





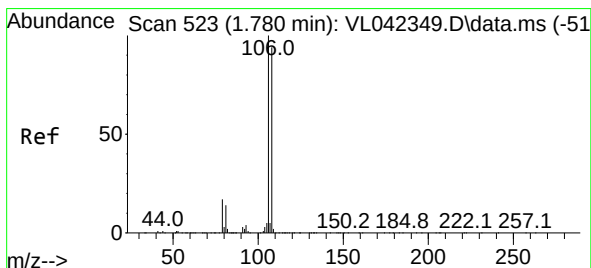
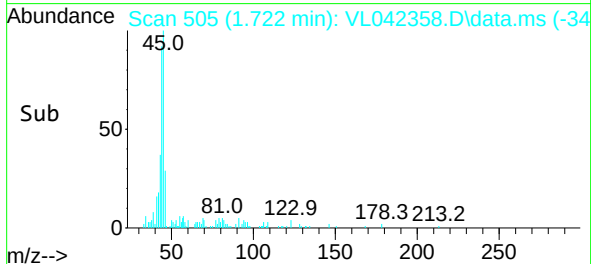
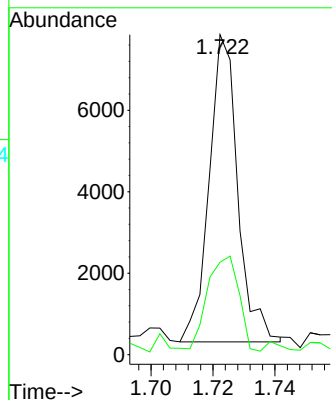
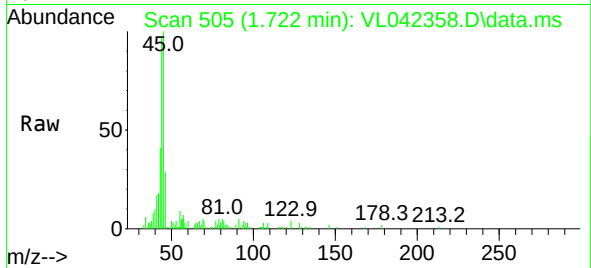
#13
Ethanol
Concen: 3.246 ppbv
RT: 1.722 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Tgt Ion: 45 Resp: 483
Ion Ratio Lower Upper
45 100
46 45.8 21.9 87.7

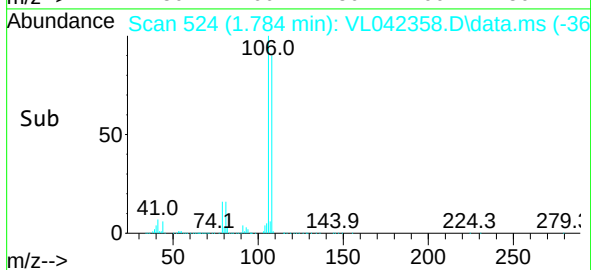
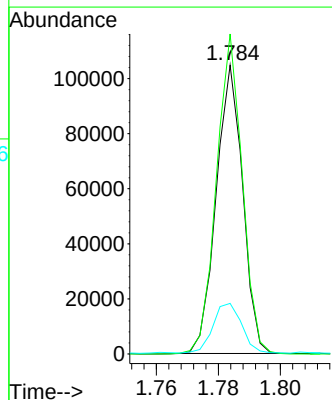
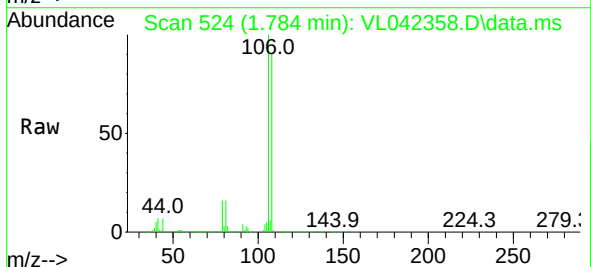
Manual Integrations
APPROVED

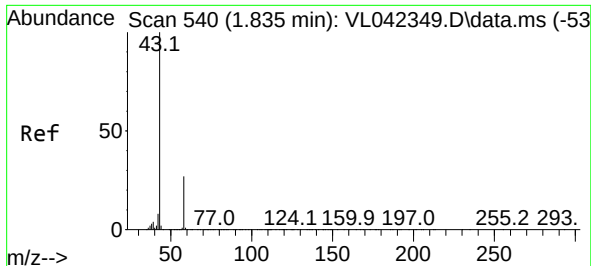
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

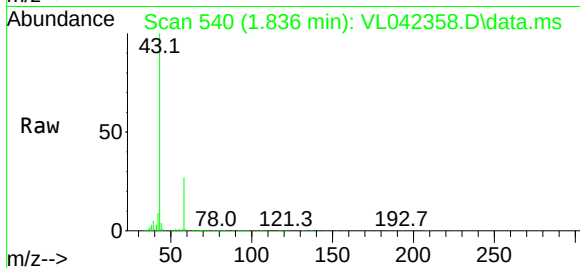
Tgt Ion:108 Resp: 62214
Ion Ratio Lower Upper
108 100
106 108.2 85.9 128.9
79 20.6 13.9 20.9





#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

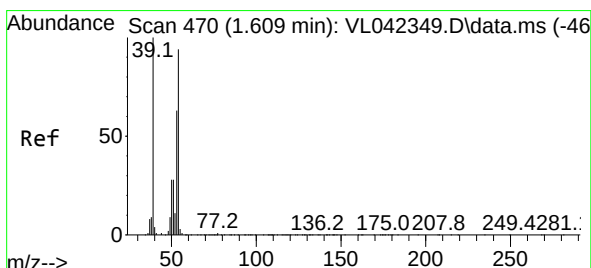
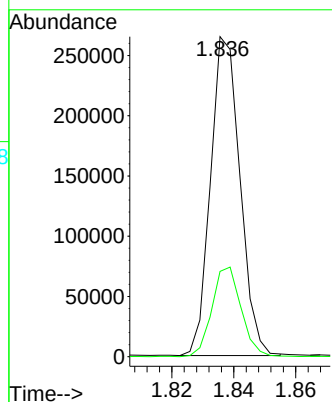
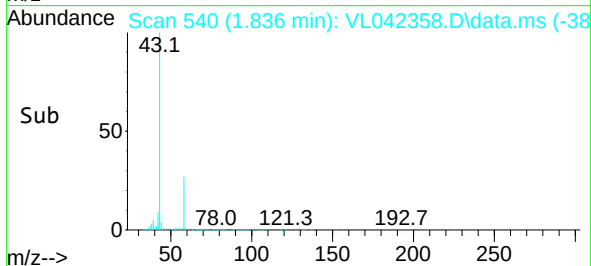
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01



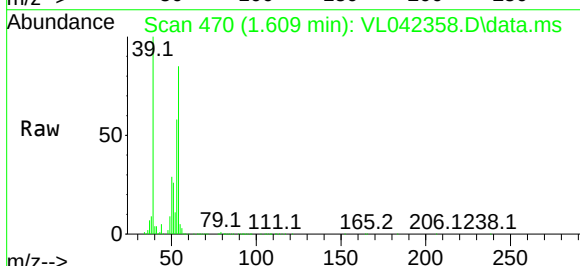
Tgt Ion: 43 Resp: 17515
Ion Ratio Lower Upper
43 100
58 27.9 22.4 33.6

Manual Integrations
APPROVED

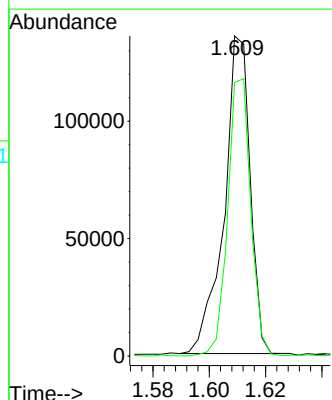
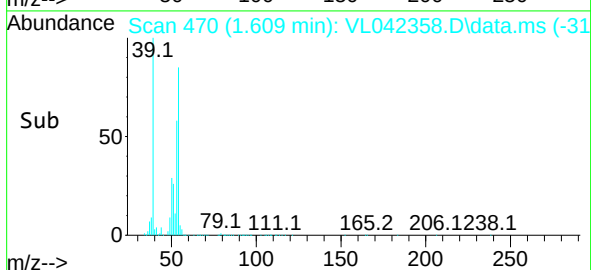
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

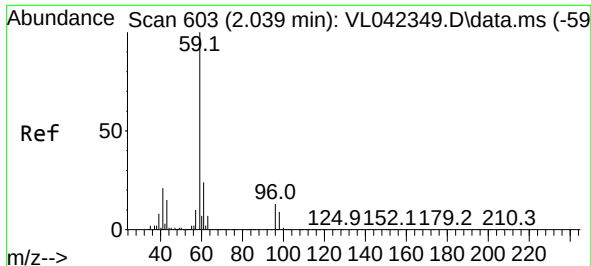


#16
1,3-Butadiene
Concen: 9.076 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.000 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39



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

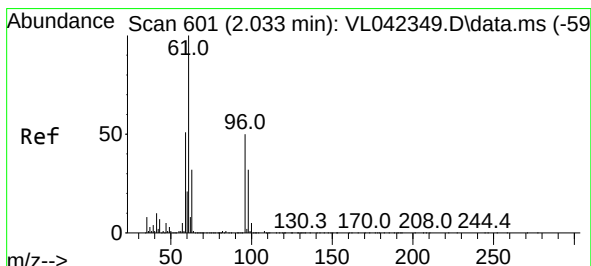
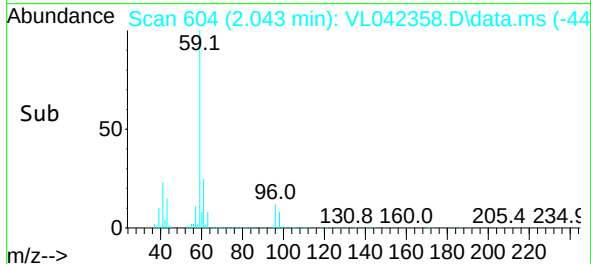
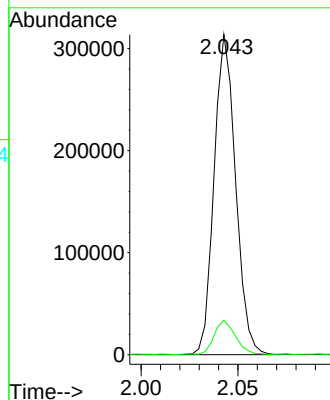
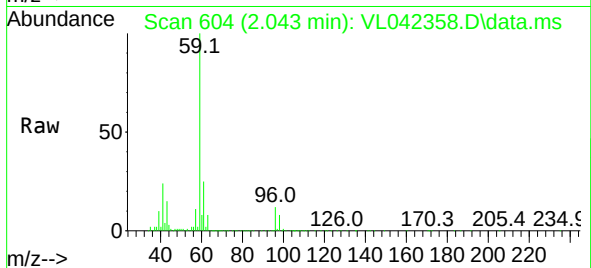
57 10.9 8.7 13.1

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

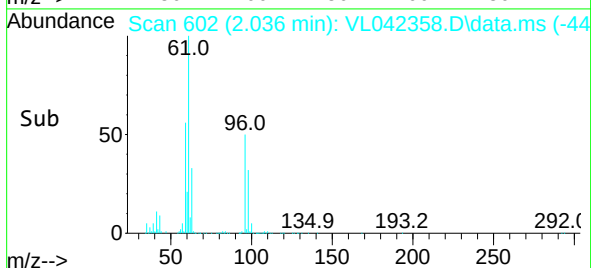
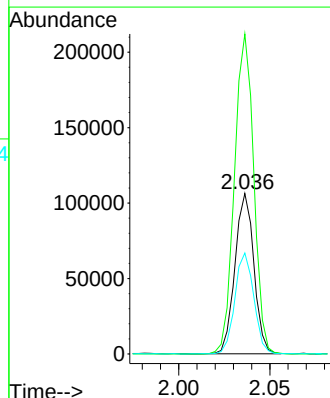
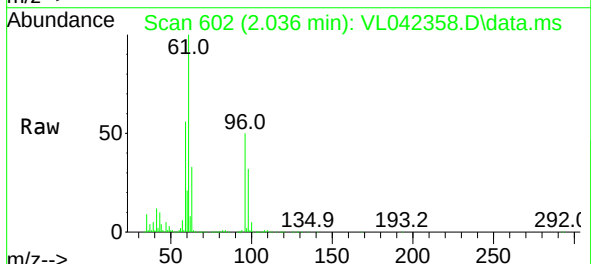
Tgt Ion: 96 Resp: 77247

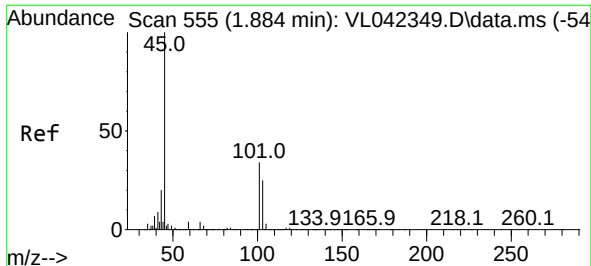
Ion Ratio Lower Upper

96 100

61 199.6 160.2 240.2

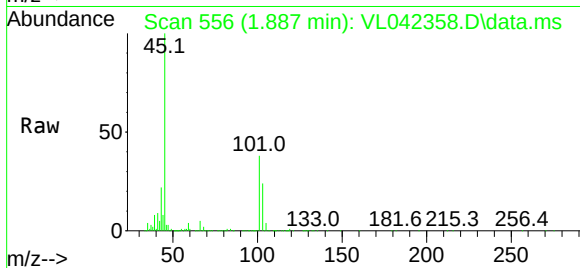
98 63.0 51.0 76.4





#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

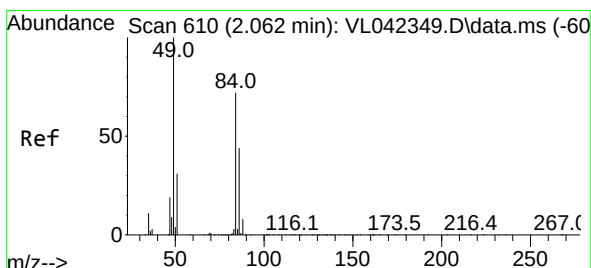
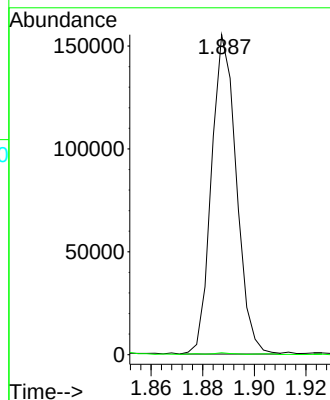
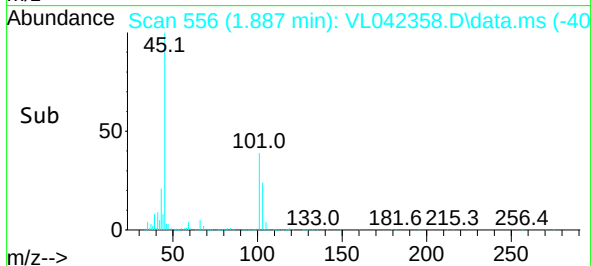
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01



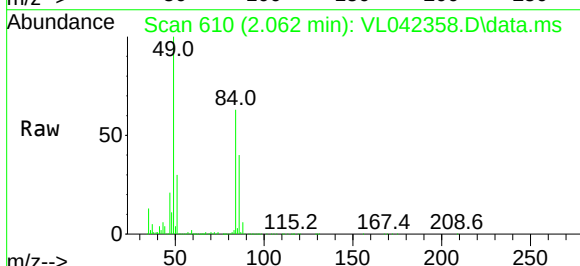
Tgt Ion: 45 Resp: 10412
Ion Ratio Lower Upper
45 100
58 46.9 34.5 51.7

Manual Integrations
APPROVED

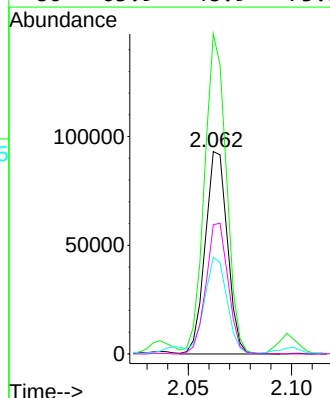
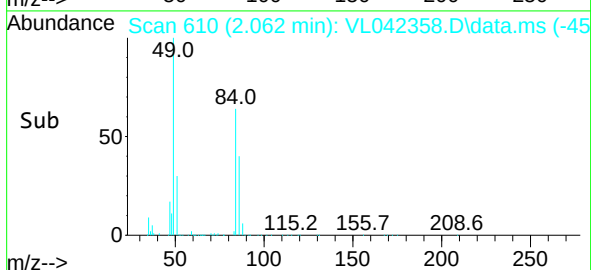
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

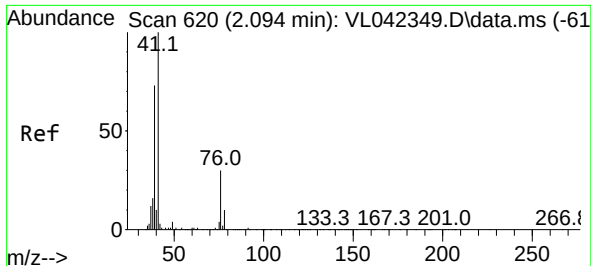


#20
Methylene Chloride
Concen: 8.865 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39



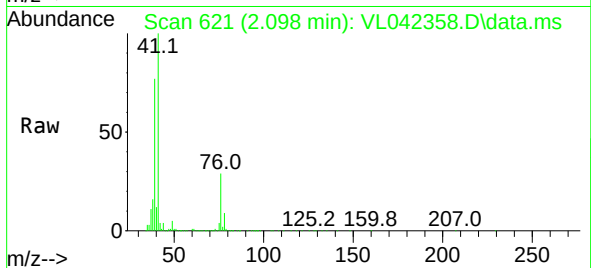
Tgt Ion: 84 Resp: 69548
Ion Ratio Lower Upper
84 100
49 156.3 111.6 167.4
51 45.9 35.1 52.7
86 63.9 48.9 73.3





#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

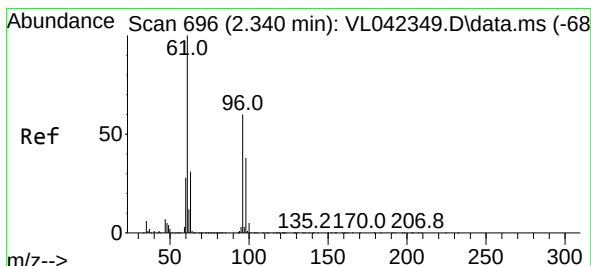
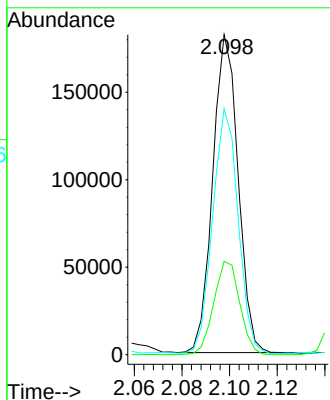
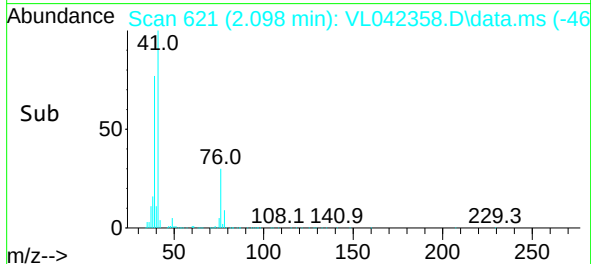
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01



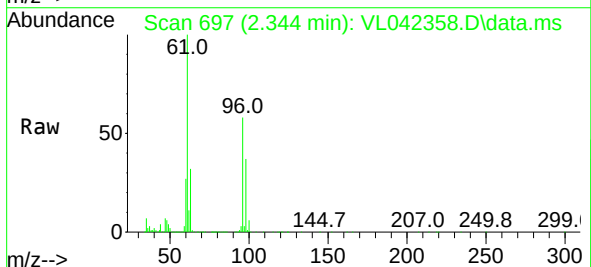
Tgt Ion: 41 Resp: 13422
Ion Ratio Lower Upper
41 100
76 30.1 24.8 37.2
39 76.8 60.6 90.8

Manual Integrations
APPROVED

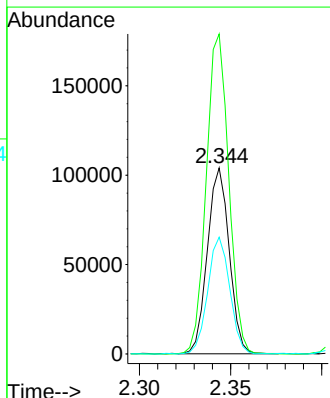
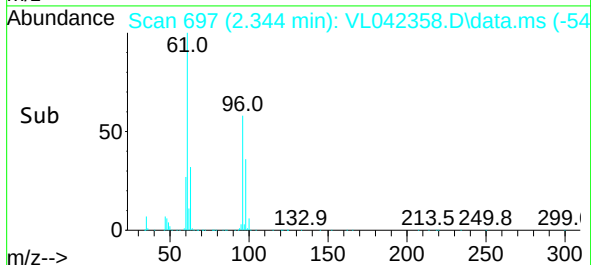
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

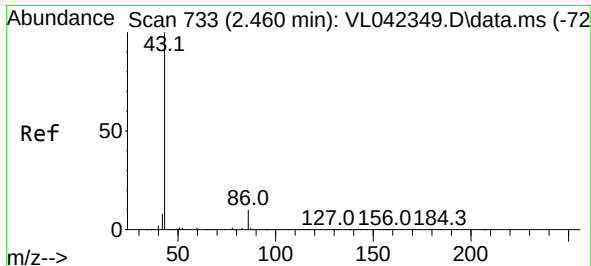


#22
trans-1,2-Dichloroethene
Concen: 9.653 ppbv
RT: 2.344 min Scan# 697
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39



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





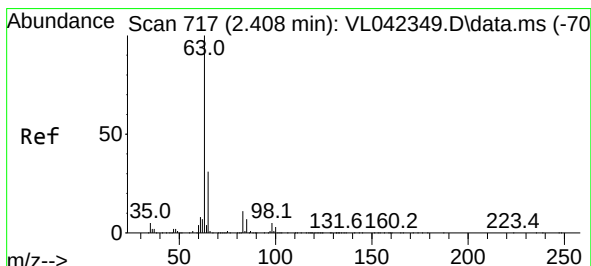
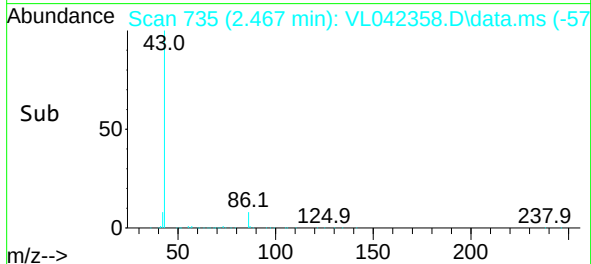
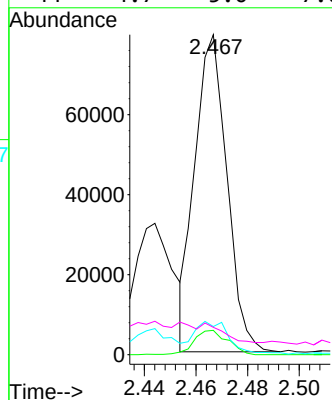
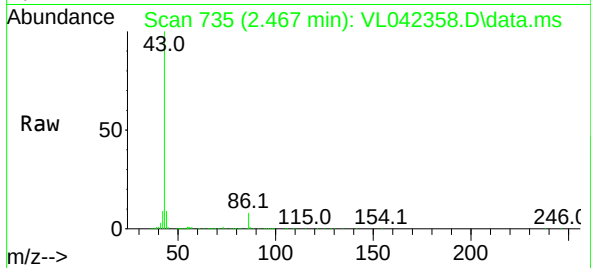
#23
Vinyl Acetate
Concen: 8.427 ppbv
RT: 2.467 min Scan# 718
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

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

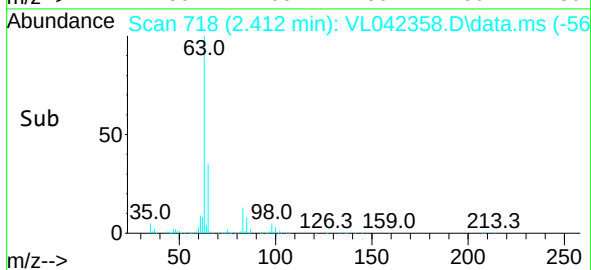
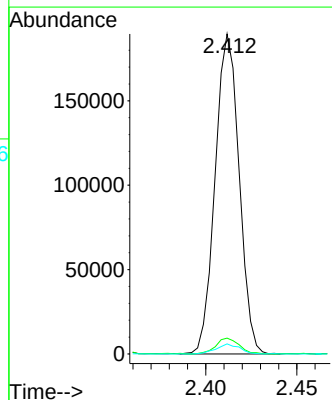
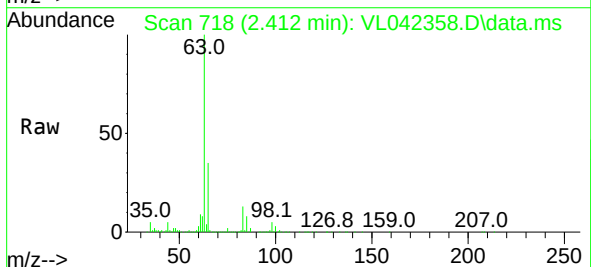
Manual Integrations
APPROVED

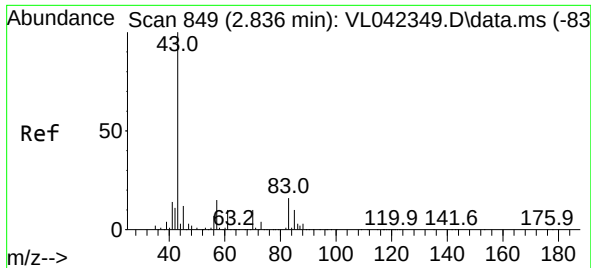
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

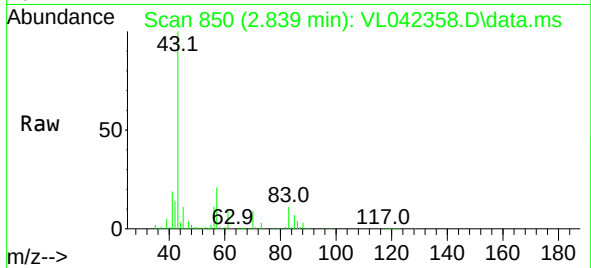
Tgt Ion:	63	Resp:	173238
Ion	Ratio	Lower	Upper
63	100		
98	4.9	2.3	6.8
100	3.1	1.6	4.8





#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

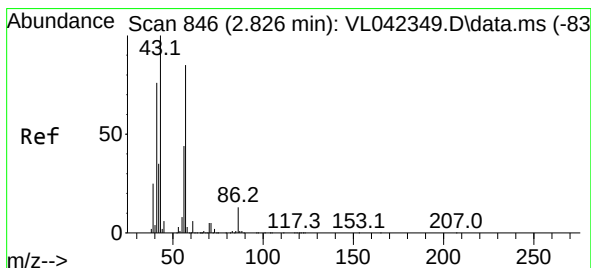
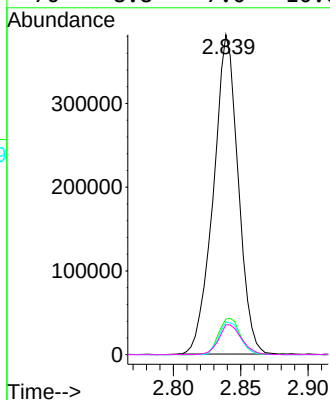
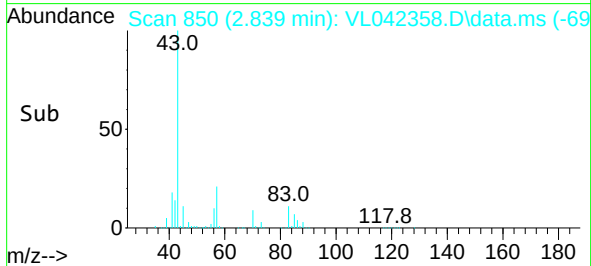
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01



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

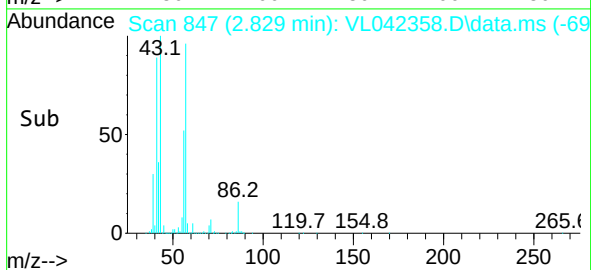
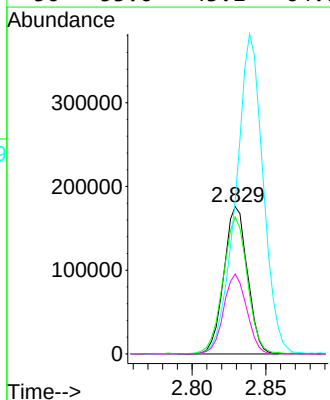
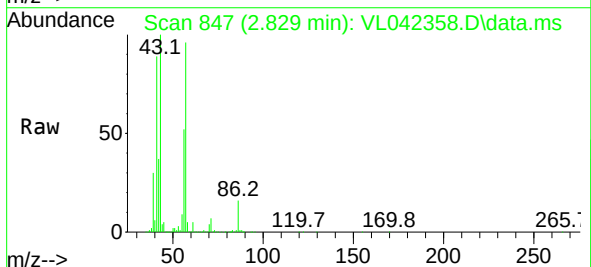
Manual Integrations
APPROVED

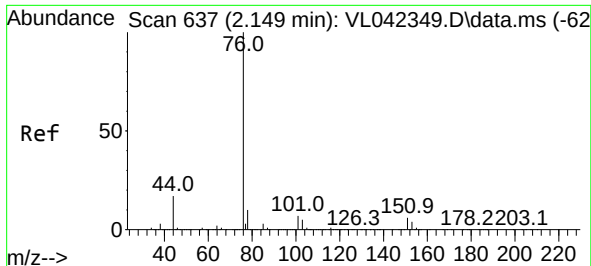
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

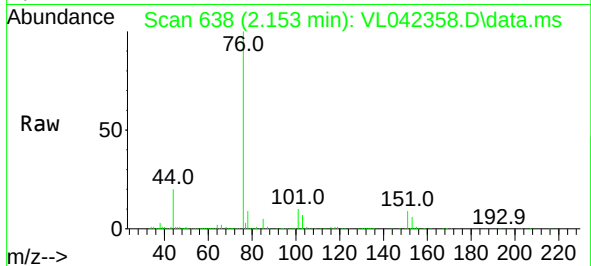
Tgt Ion: 57 Resp: 195124
Ion Ratio Lower Upper
57 100
41 96.9 77.9 116.9
43 251.9 208.4 312.6
56 53.6 43.1 64.7





#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

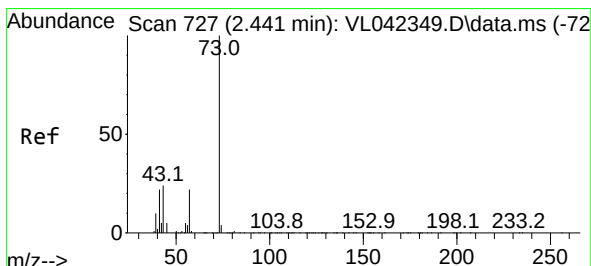
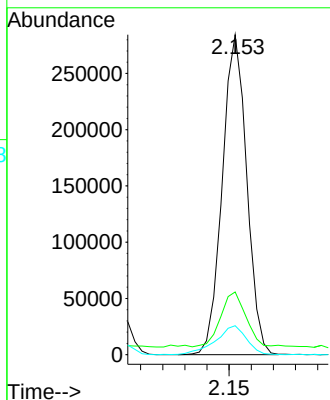
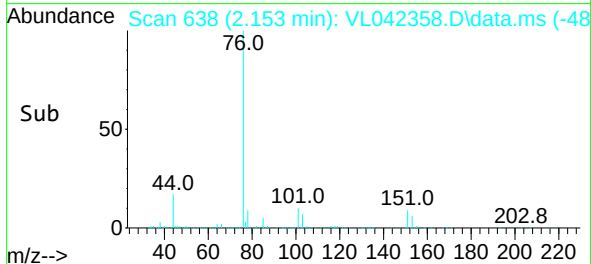
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01



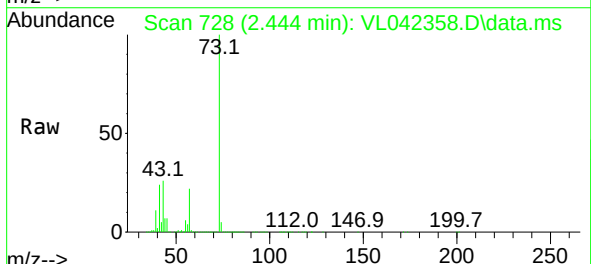
Tgt Ion: 76 Resp: 21834
Ion Ratio Lower Upper
76 100
44 21.6 15.5 23.3
78 11.4 9.3 13.9

Manual Integrations
APPROVED

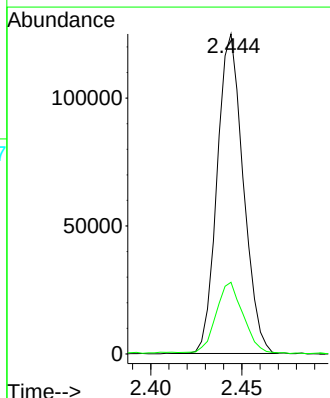
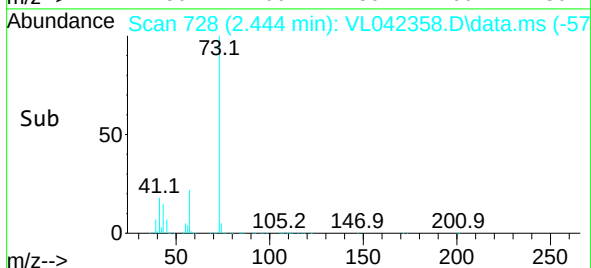
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

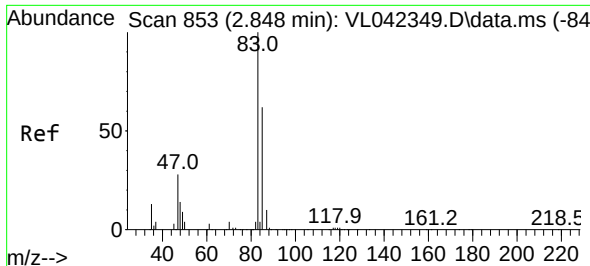


#28
Methyl tert-Butyl Ether
Concen: 9.510 ppbv
RT: 2.444 min Scan# 728
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39



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

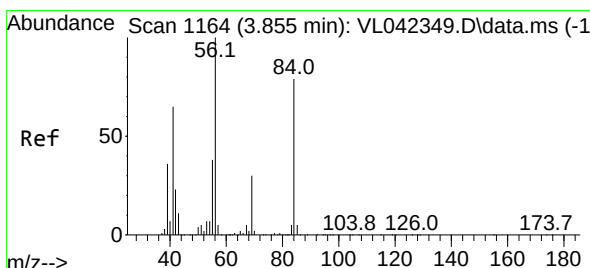
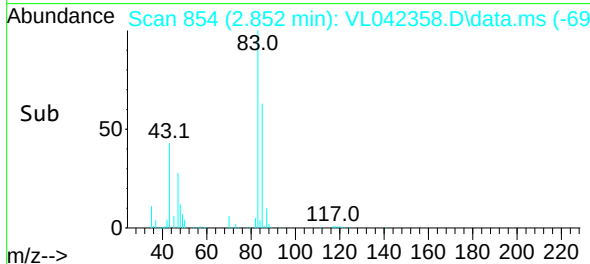
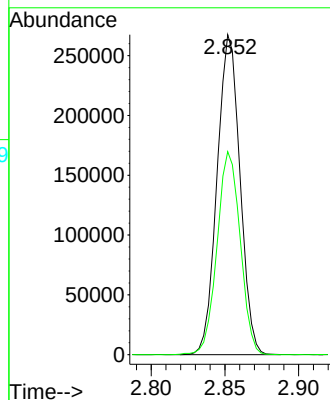
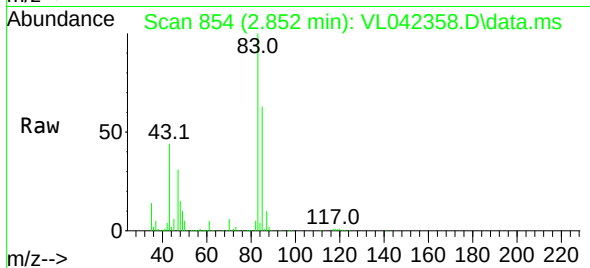
85 63.4 50.0 75.0

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

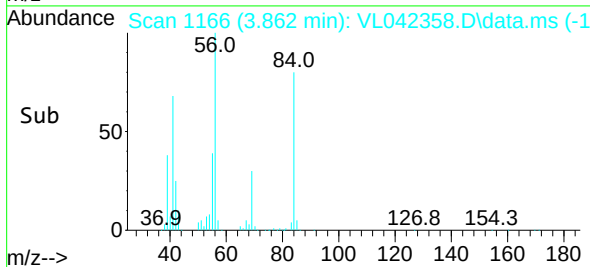
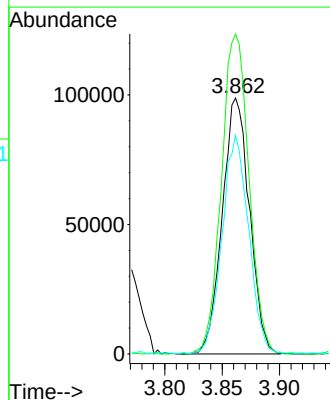
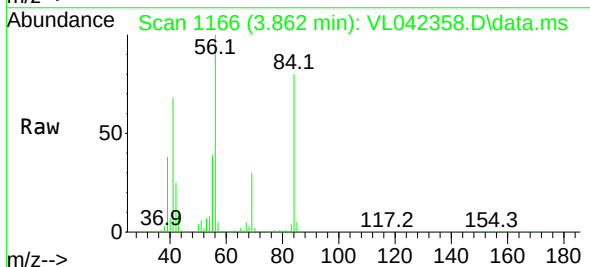
Tgt Ion: 84 Resp: 163017

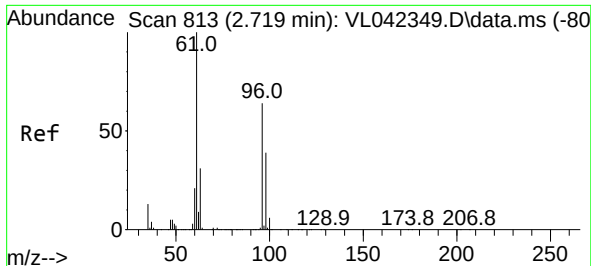
Ion Ratio Lower Upper

84 100

56 126.7 101.0 151.4

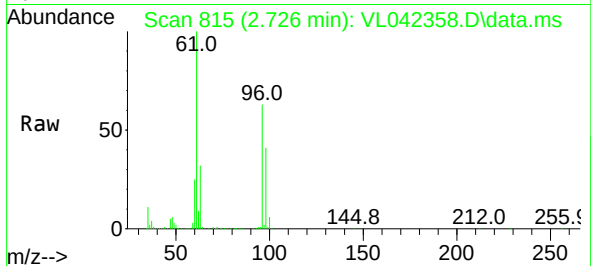
41 83.8 67.4 101.0





#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

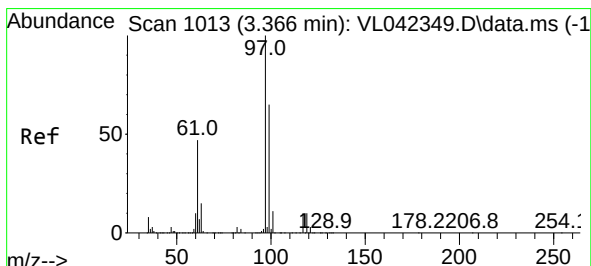
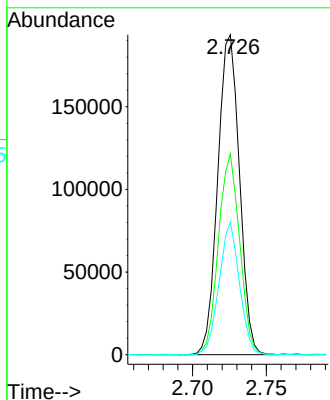
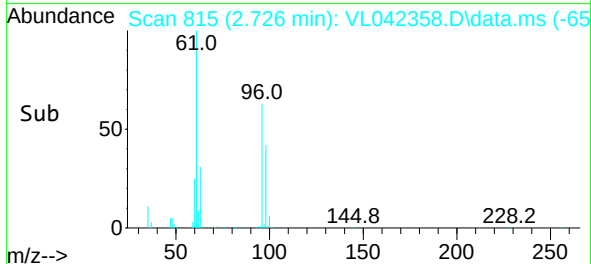
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0417ABS01



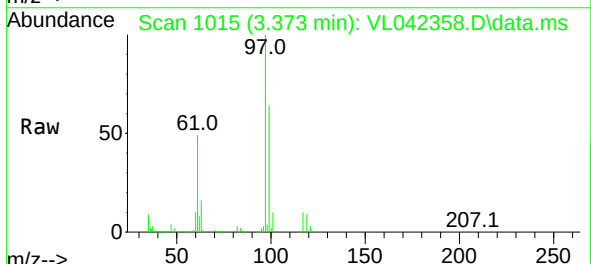
Tgt Ion: 61 Resp: 198108
 Ion Ratio Lower Upper
 61 100
 96 62.8 50.8 76.2
 98 41.4 30.9 46.3

Manual Integrations
 APPROVED

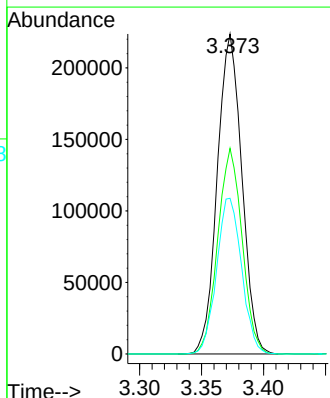
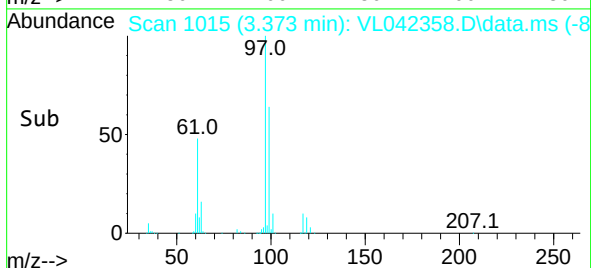
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

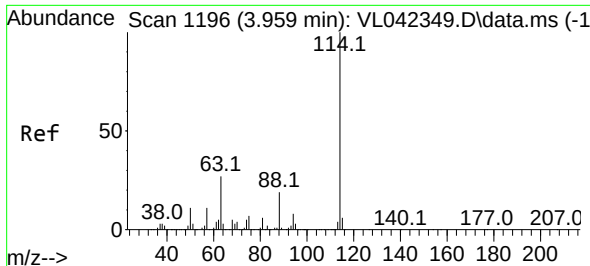


#32
 1,1,1-Trichloroethane
 Concen: 9.729 ppbv
 RT: 3.373 min Scan# 1015
 Delta R.T. 0.007 min
 Lab File: VL042358.D
 Acq: 17 Apr 2025 15:39



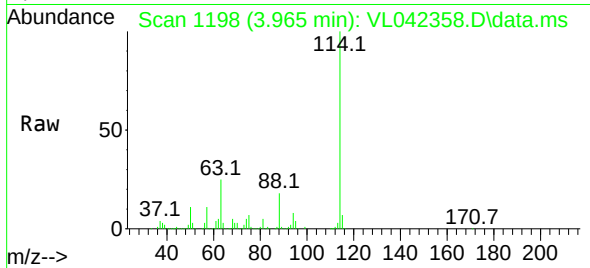
Tgt Ion: 97 Resp: 309460
 Ion Ratio Lower Upper
 97 100
 99 63.7 51.0 76.4
 61 49.5 38.8 58.2





#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

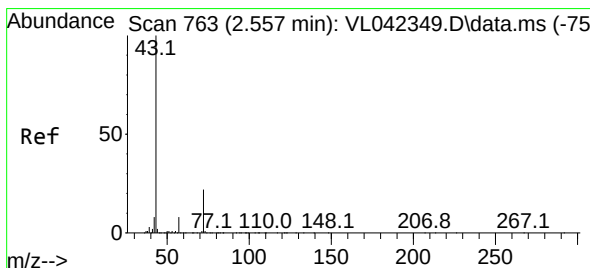
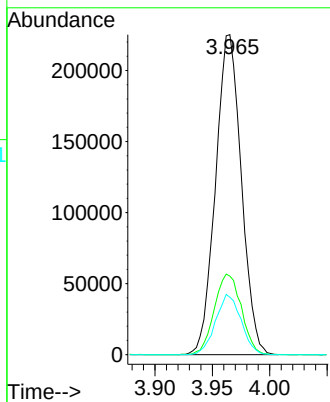
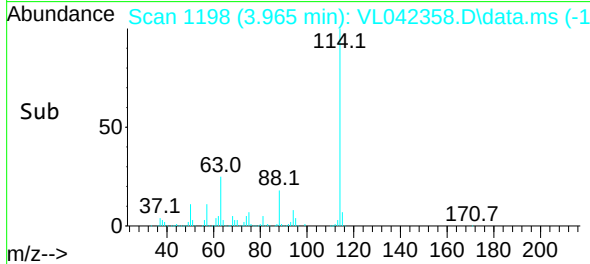
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01



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

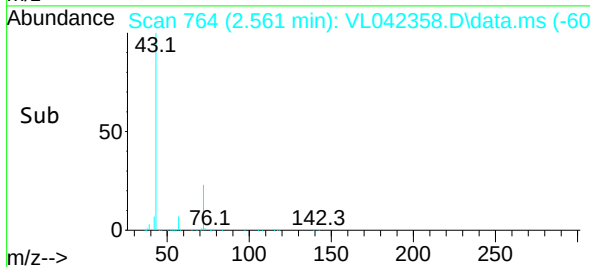
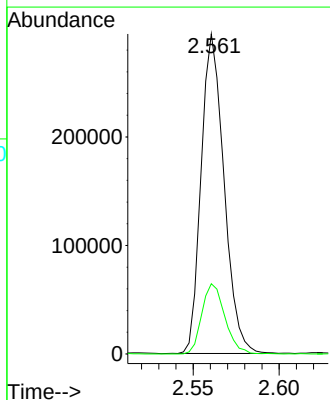
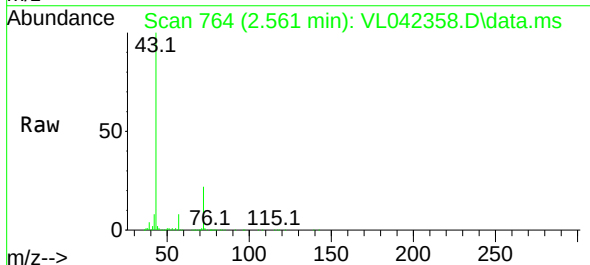
Manual Integrations
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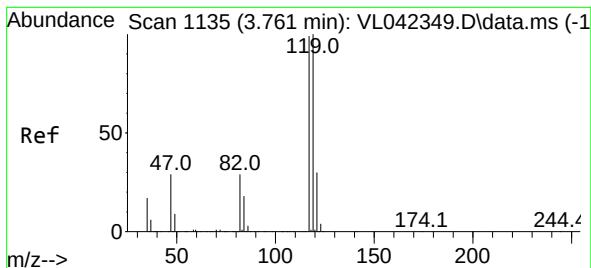
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

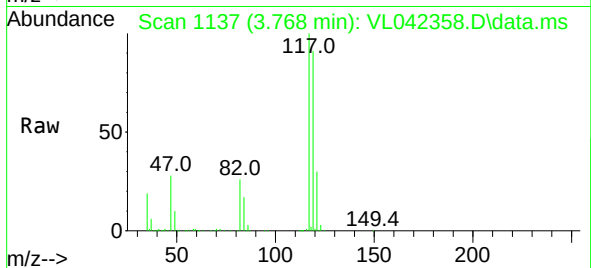
Acq: 17 Apr 2025 15:39

Instrument :

MSVOA_L

ClientSampleId :

VL0417ABS01

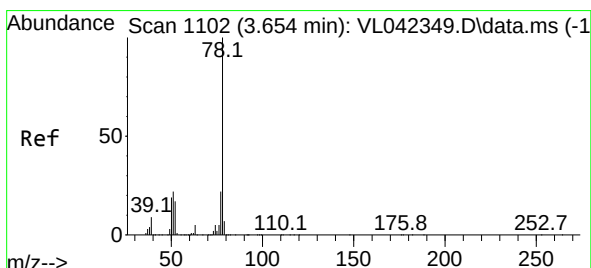
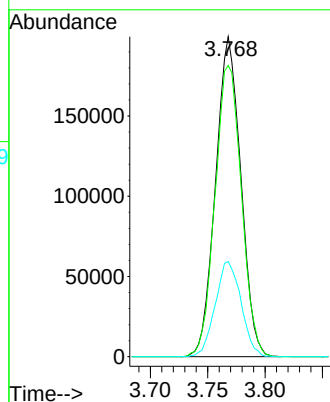


Tgt Ion:117	Resp: 305249
Ion Ratio	Lower Upper
117 100	
119 91.0	80.5 120.7
121 29.8	24.2 36.2

Manual Integrations

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



#36

Benzene

Concen: 10.088 ppbv

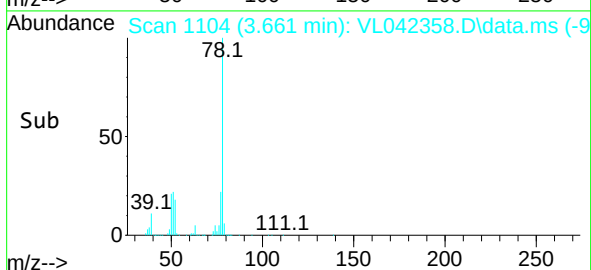
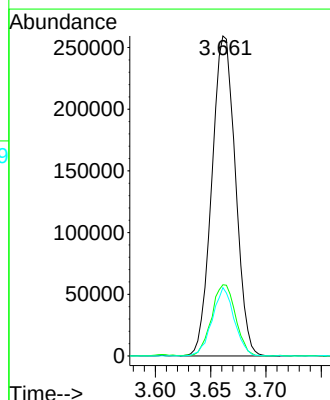
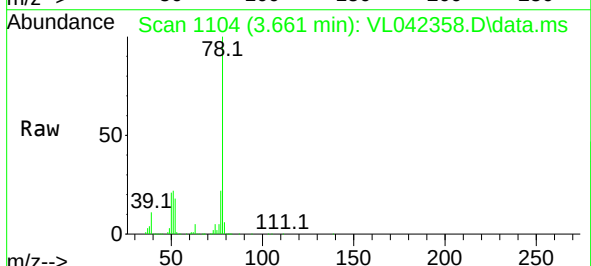
RT: 3.661 min Scan# 1104

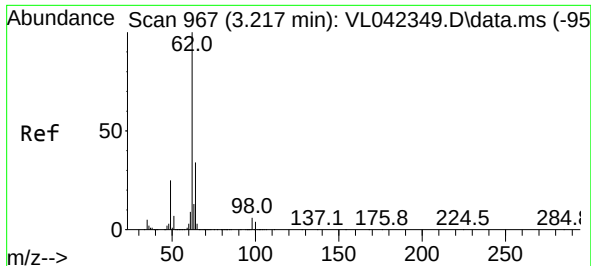
Delta R.T. 0.007 min

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





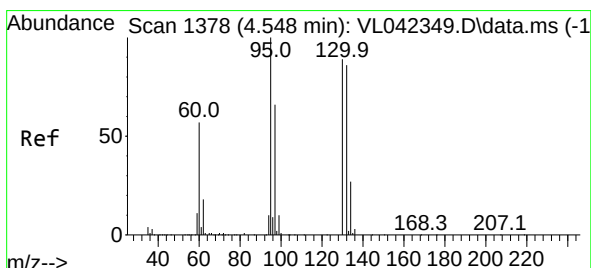
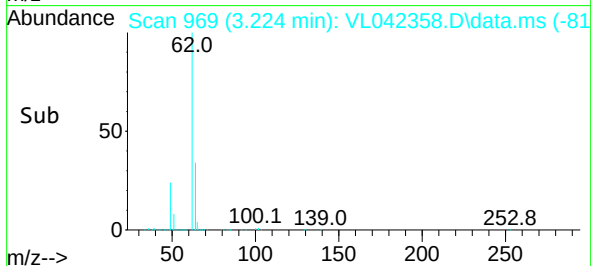
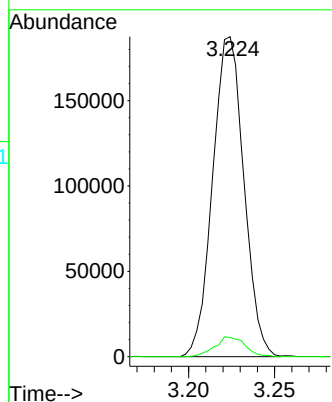
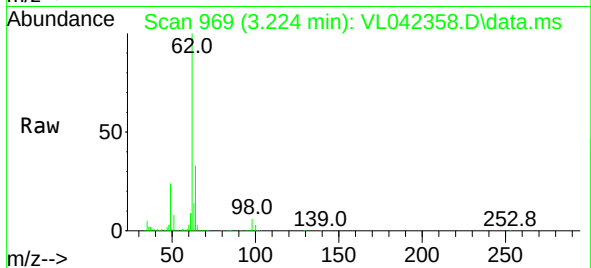
#37
1,2-Dichloroethane
Concen: 10.377 ppbv
RT: 3.224 min Scan# 90
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Tgt Ion: 62 Resp: 23661
Ion Ratio Lower Upper
62 100
98 6.0 5.1 7.7

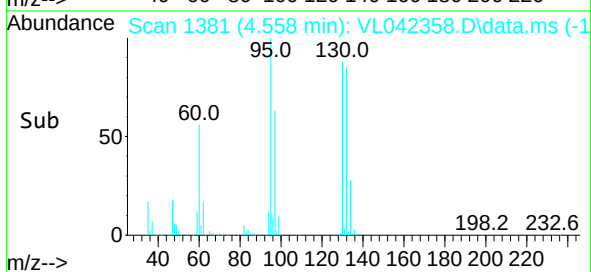
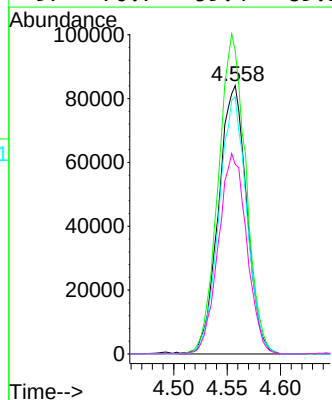
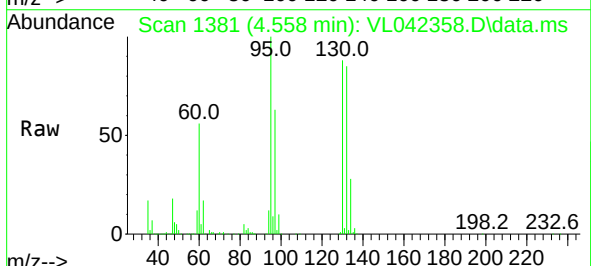
Manual Integrations
APPROVED

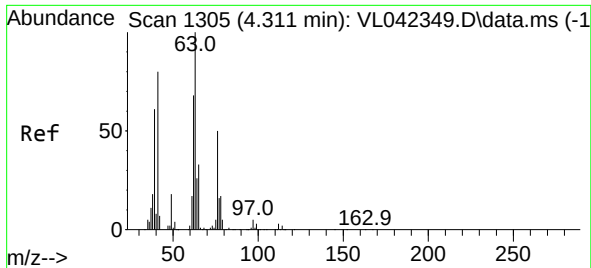
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

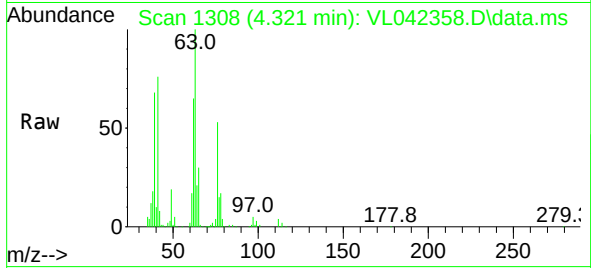
Tgt Ion:130 Resp: 153596
Ion Ratio Lower Upper
130 100
95 113.0 89.8 134.6
132 95.8 77.7 116.5
97 70.7 59.4 89.2





#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

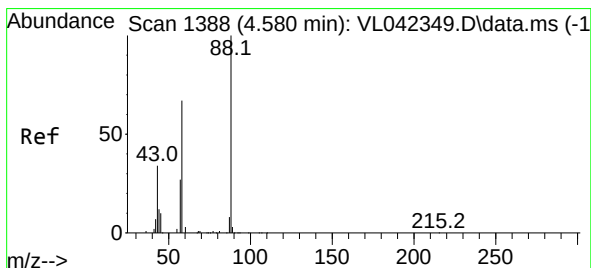
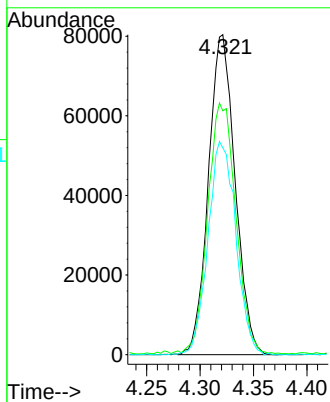
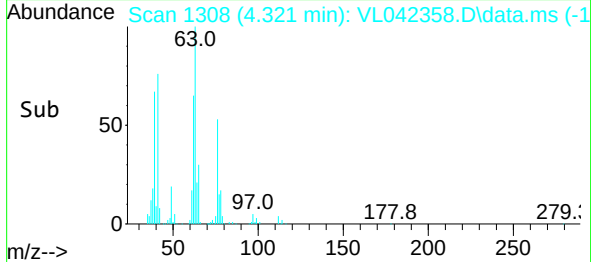
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01



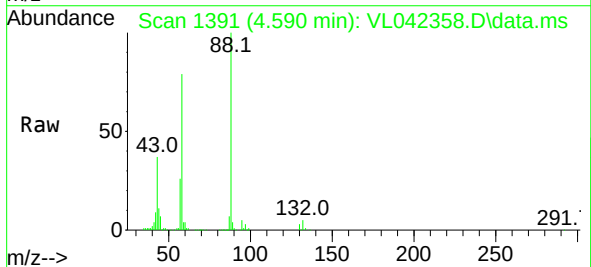
Tgt Ion: 63 Resp: 139669
Ion Ratio Lower Upper
63 100
41 75.7 64.2 96.2
62 64.6 54.3 81.5

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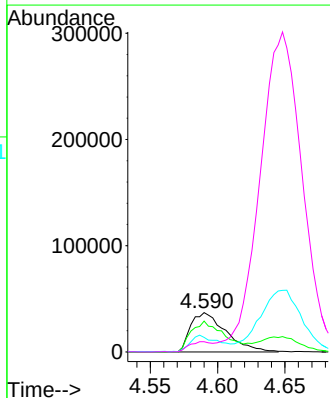
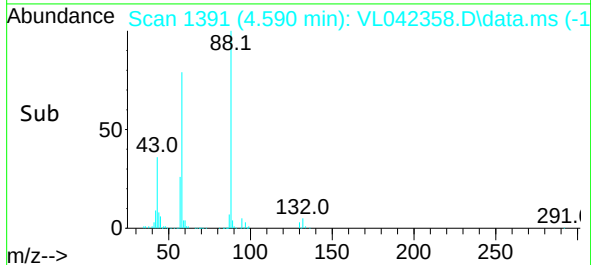
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

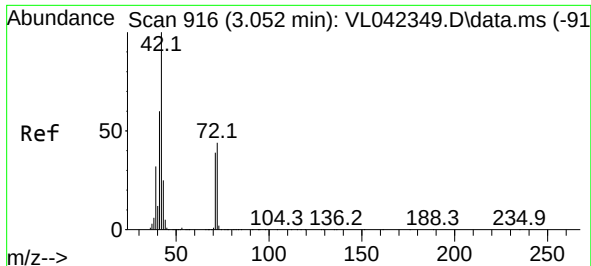


#40
1,4-Dioxane
Concen: 8.716 ppbv
RT: 4.590 min Scan# 1391
Delta R.T. 0.010 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39



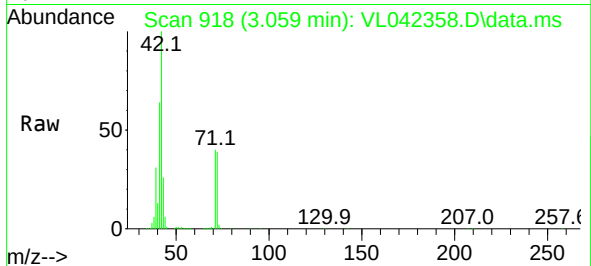
Tgt Ion: 88 Resp: 67808
Ion Ratio Lower Upper
88 100
58 75.4 61.4 92.0
43 37.1 23.2 34.8#
57 0.0 0.0 0.0





#41
Tetrahydrofuran
Concen: 9.715 ppbv
RT: 3.059 min Scan# 916
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

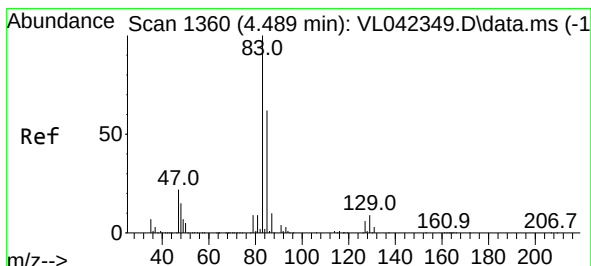
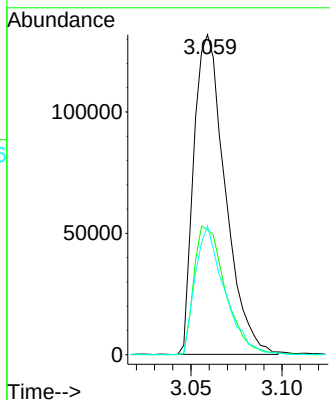
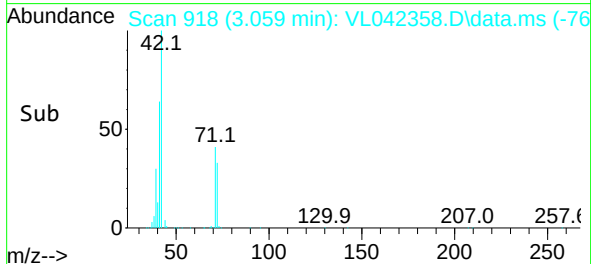
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01



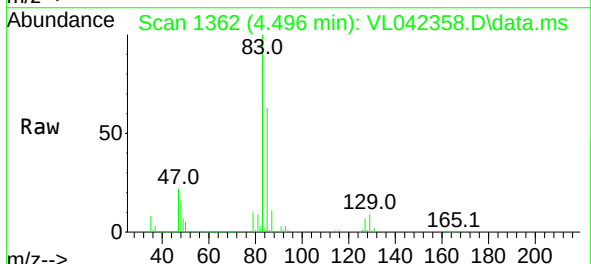
Tgt Ion: 42 Resp: 15777
Ion Ratio Lower Upper
42 100
72 40.3 32.3 48.5
71 37.7 31.4 47.2

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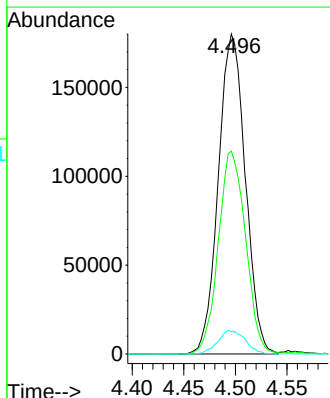
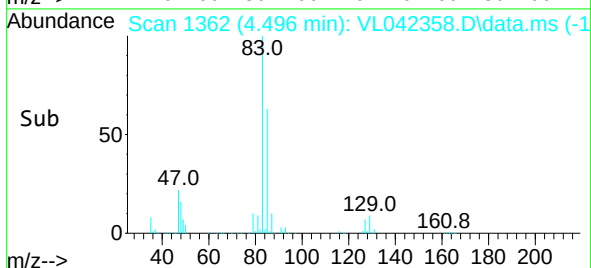
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

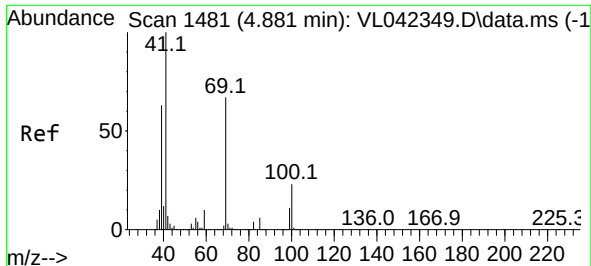


#42
Bromodichloromethane
Concen: 10.326 ppbv
RT: 4.496 min Scan# 1362
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39



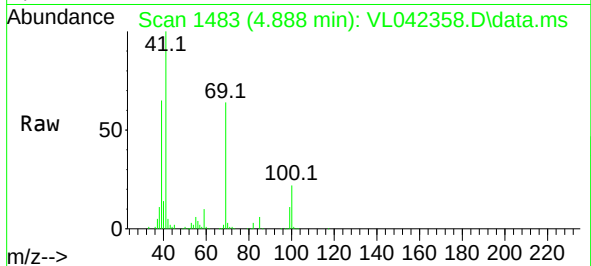
Tgt Ion: 83 Resp: 327652
Ion Ratio Lower Upper
83 100
85 63.3 49.7 74.5
127 7.0 5.1 7.7





#43
Methyl Methacrylate
Concen: 9.304 ppbv
RT: 4.888 min Scan# 1481
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

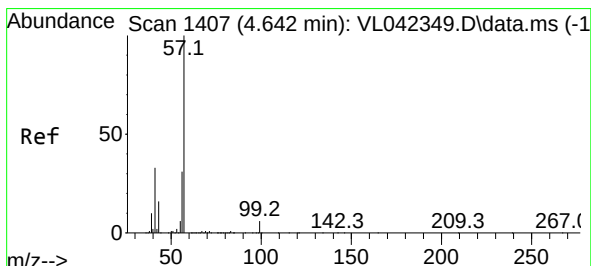
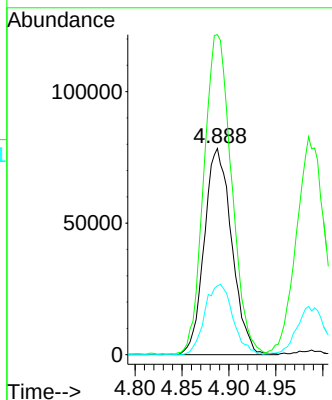
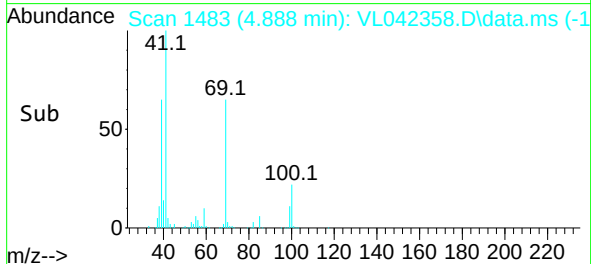
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01



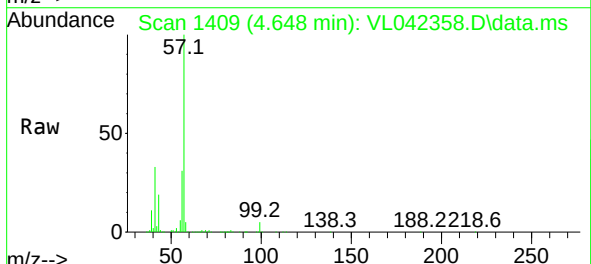
Tgt Ion: 69 Resp: 15929
Ion Ratio Lower Upper
69 100
41 155.9 118.6 177.8
100 35.1 28.2 42.2

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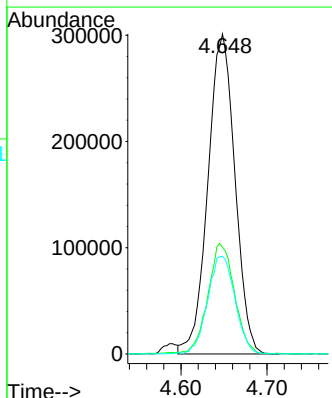
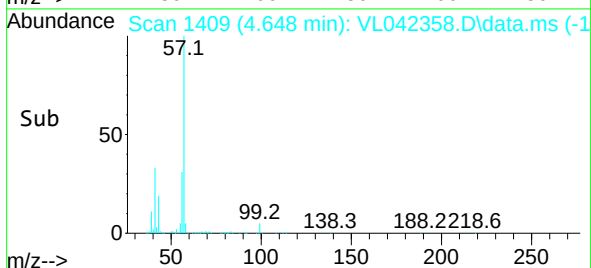
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

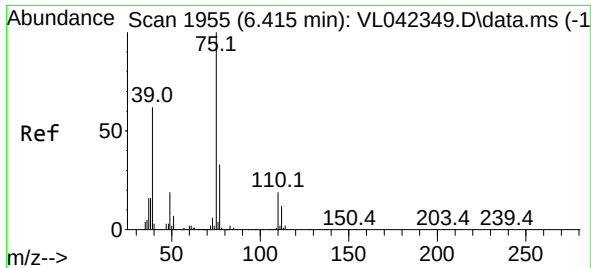


#44
2,2,4-Trimethylpentane
Concen: 10.019 ppbv
RT: 4.648 min Scan# 1409
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39



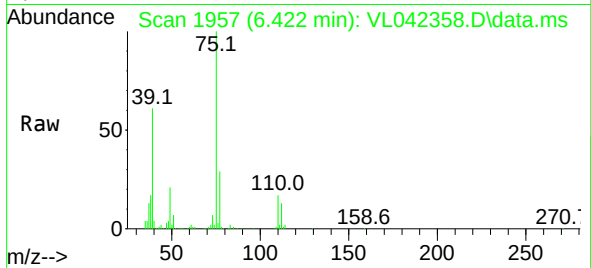
Tgt Ion: 57 Resp: 657377
Ion Ratio Lower Upper
57 100
41 34.2 27.2 40.8
56 31.1 25.7 38.5





#45
 t-1,3-Dichloropropene
 Concen: 9.864 ppbv
 RT: 6.422 min Scan# 1955
 Delta R.T. 0.007 min
 Lab File: VL042358.D
 Acq: 17 Apr 2025 15:39

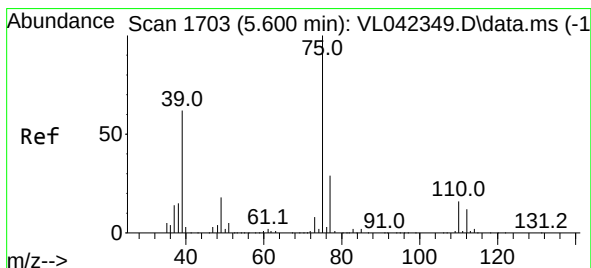
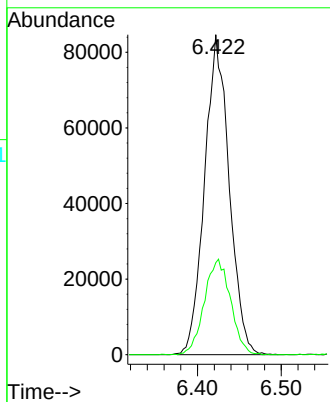
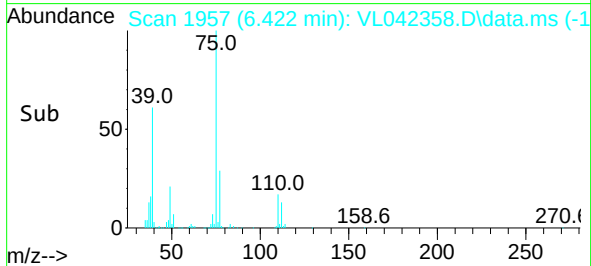
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0417ABS01



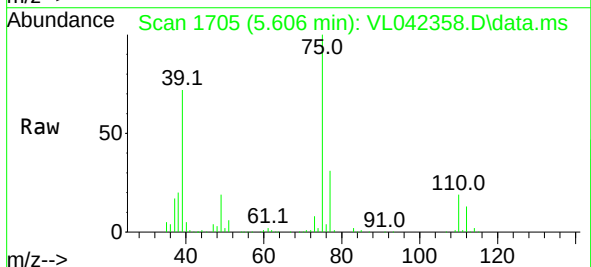
Tgt Ion: 75 Resp: 172514
 Ion Ratio Lower Upper
 75 100
 77 28.7 27.0 40.6

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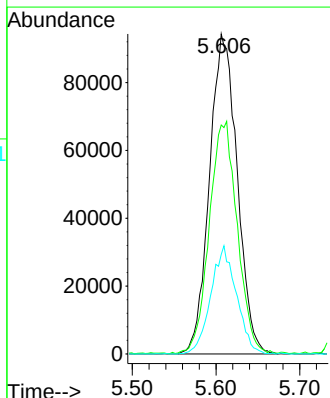
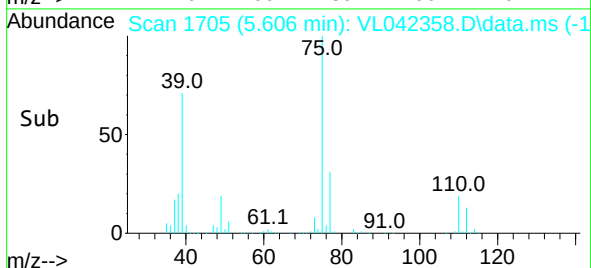
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

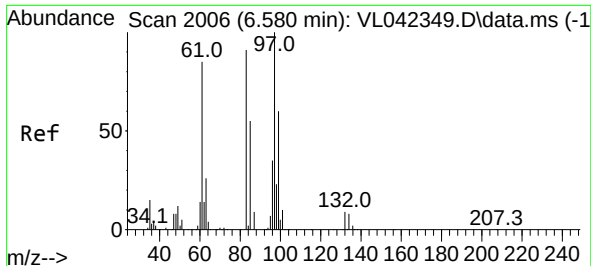


#46
 cis-1,3-Dichloropropene
 Concen: 10.133 ppbv
 RT: 5.606 min Scan# 1705
 Delta R.T. 0.007 min
 Lab File: VL042358.D
 Acq: 17 Apr 2025 15:39



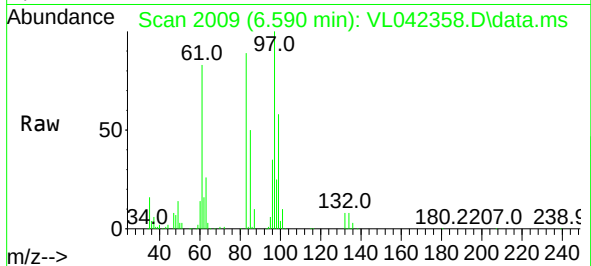
Tgt Ion: 75 Resp: 216901
 Ion Ratio Lower Upper
 75 100
 39 71.3 50.0 75.0
 77 31.1 23.0 34.6





#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

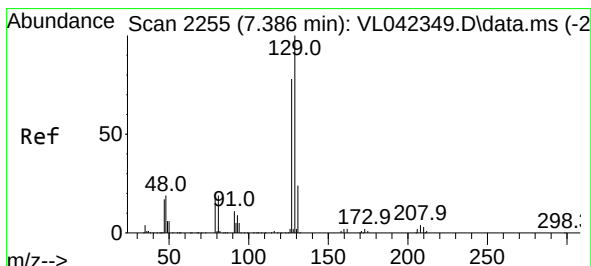
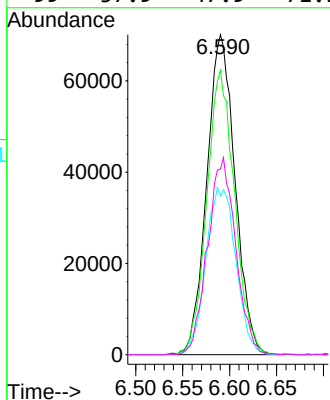
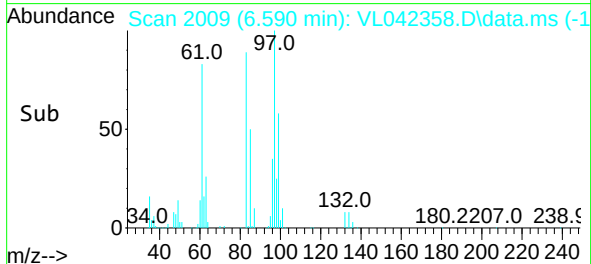
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01



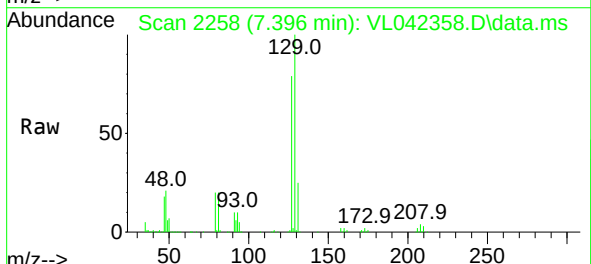
Tgt Ion: 97 Resp: 14654
Ion Ratio Lower Upper
97 100
83 88.7 72.8 109.2
85 49.6 44.2 66.4
99 57.9 47.9 71.9

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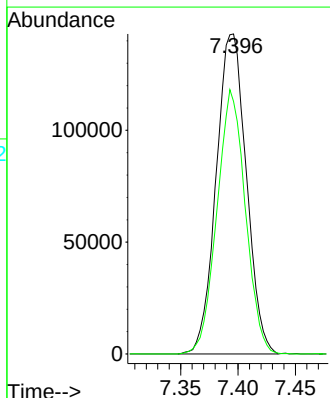
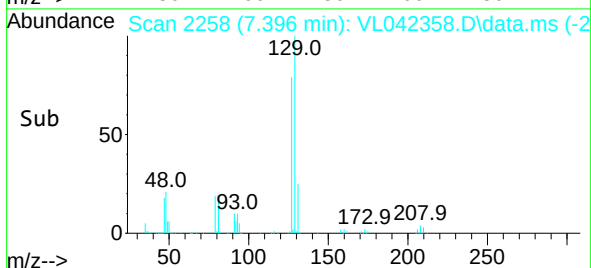
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

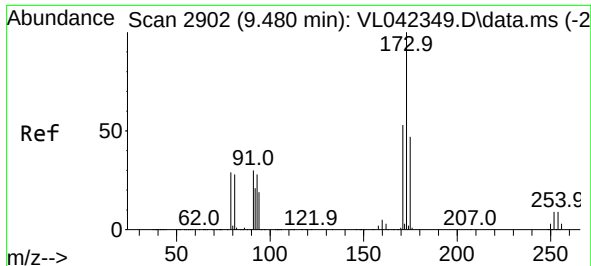


#48
Dibromochloromethane
Concen: 10.261 ppbv
RT: 7.396 min Scan# 2258
Delta R.T. 0.010 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39



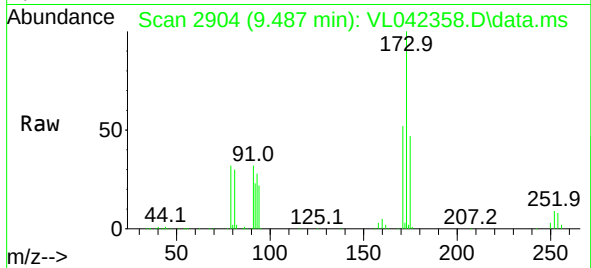
Tgt Ion:129 Resp: 261470
Ion Ratio Lower Upper
129 100
127 77.9 39.1 117.3





#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

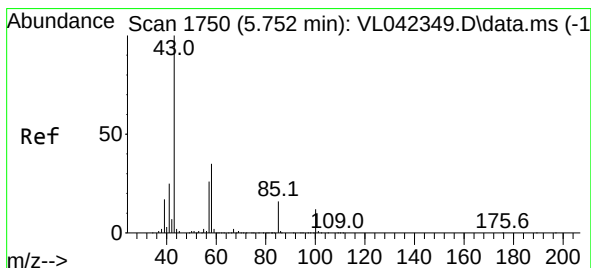
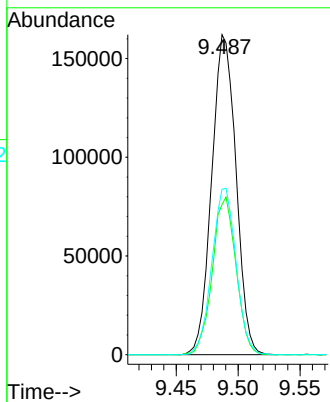
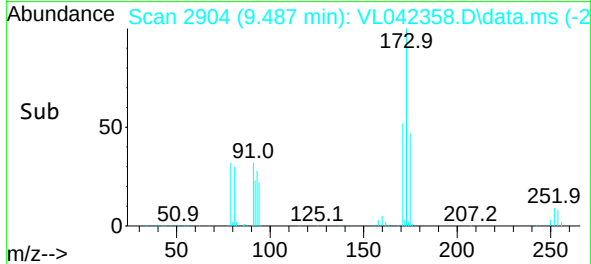
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01



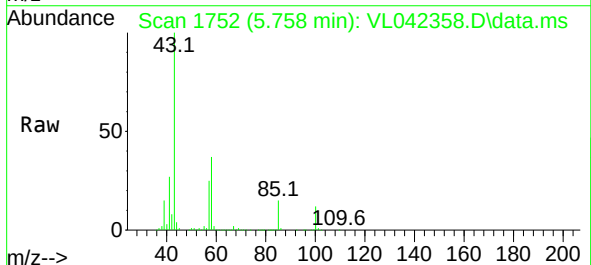
Tgt Ion:173 Resp: 221372
Ion Ratio Lower Upper
173 100
175 48.0 38.2 57.2
171 51.7 40.9 61.3

Manual Integrations
APPROVED

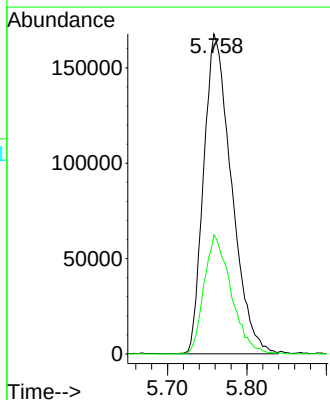
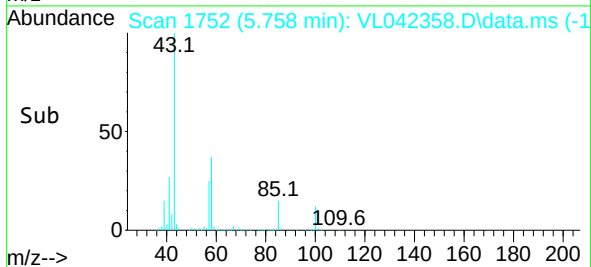
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

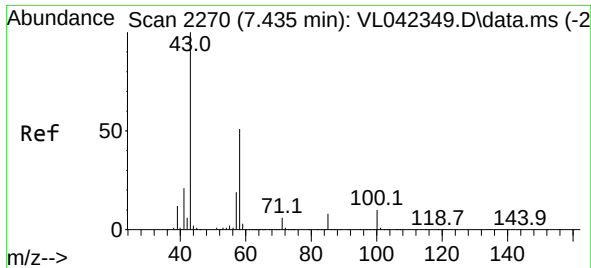


#50
4-Methyl-2-Pentanone
Concen: 8.810 ppbv
RT: 5.758 min Scan# 1752
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39



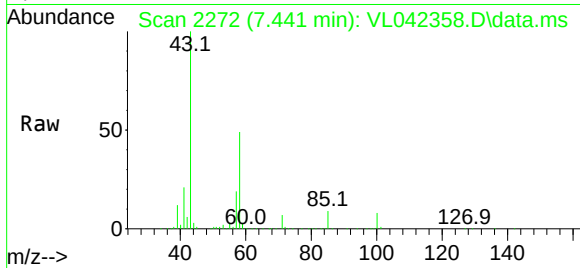
Tgt Ion: 43 Resp: 407804
Ion Ratio Lower Upper
43 100
58 36.2 28.6 43.0





#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

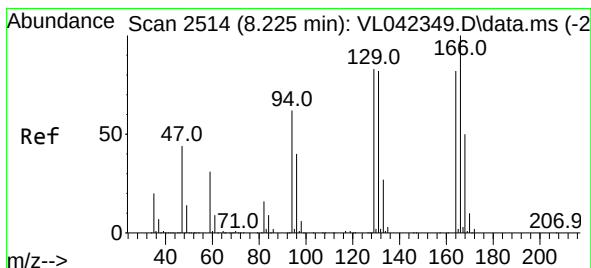
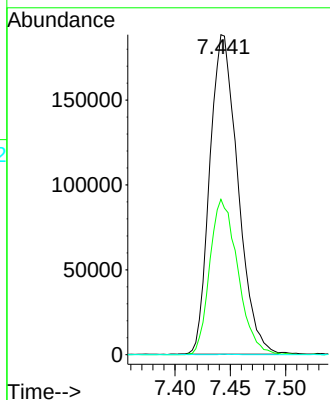
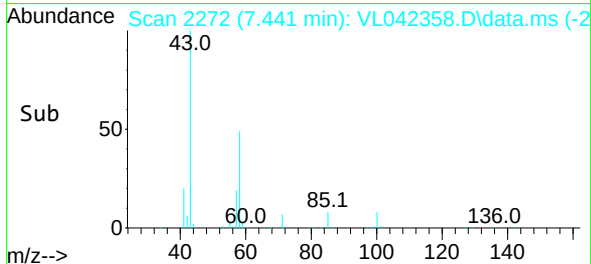
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01



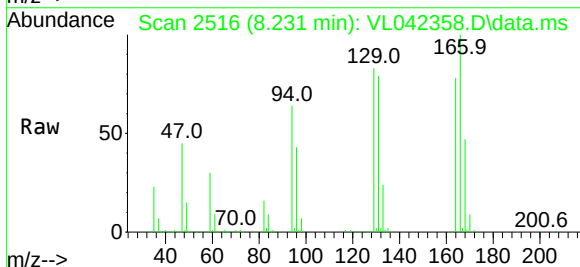
Tgt Ion: 43 Resp: 332640
Ion Ratio Lower Upper
43 100
58 48.6 40.2 60.4
98 0.1 0.1 0.1

Manual Integrations
APPROVED

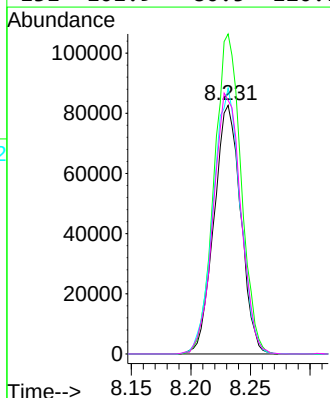
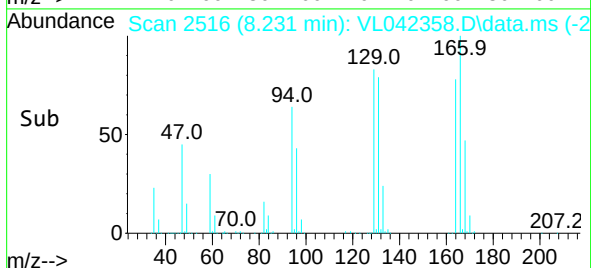
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

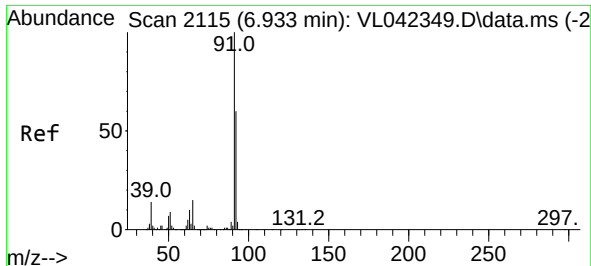


#52
Tetrachloroethene
Concen: 8.763 ppbv
RT: 8.231 min Scan# 2516
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39



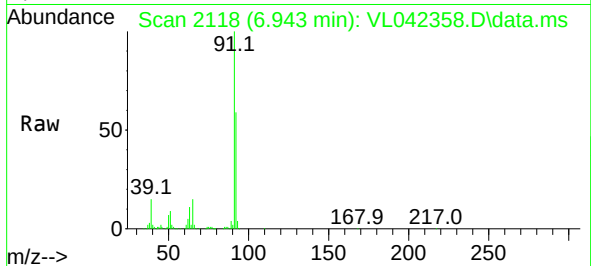
Tgt Ion:164 Resp: 128670
Ion Ratio Lower Upper
164 100
166 128.7 98.2 147.2
129 106.9 81.8 122.8
131 101.9 80.5 120.7





#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

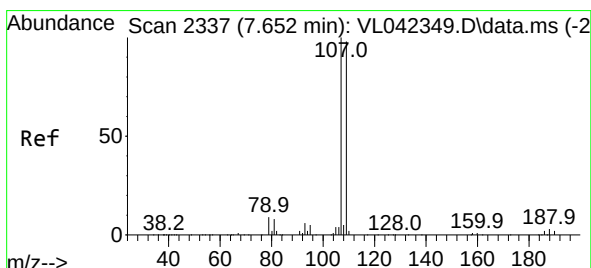
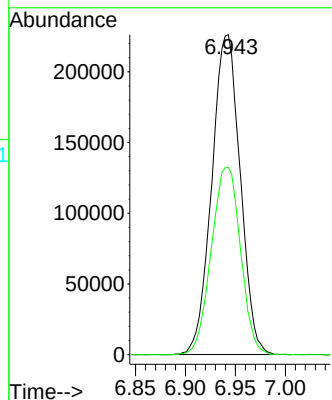
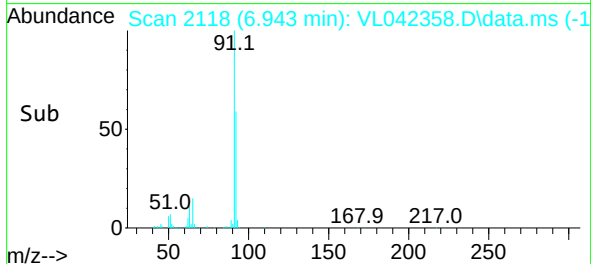
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01



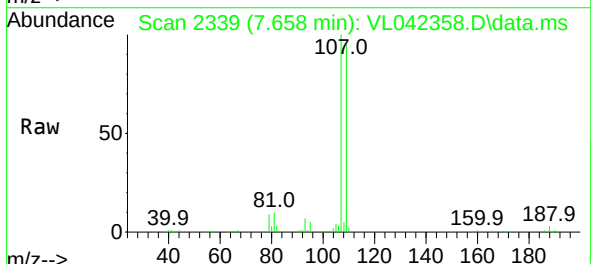
Tgt Ion: 91 Resp: 44758
Ion Ratio Lower Upper
91 100
92 60.3 48.2 72.4

Manual Integrations
APPROVED

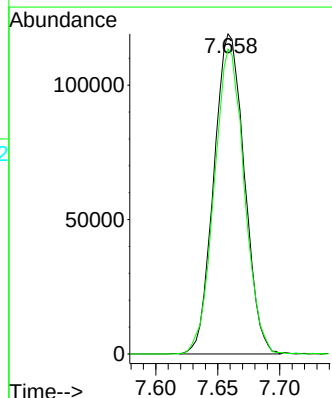
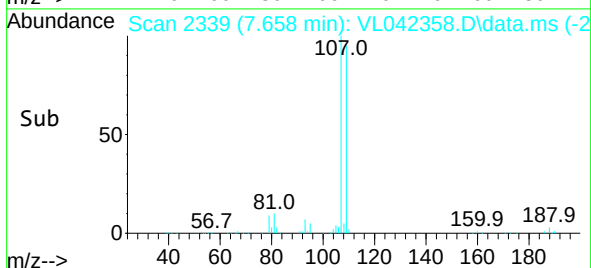
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

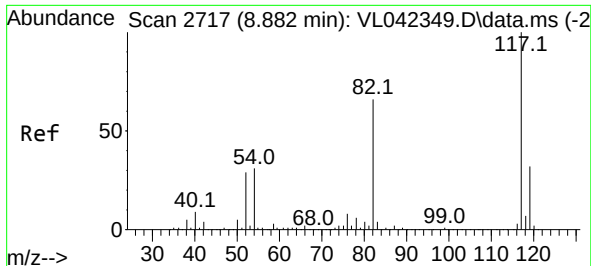


#54
1,2-Dibromoethane
Concen: 9.899 ppbv
RT: 7.658 min Scan# 2339
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39



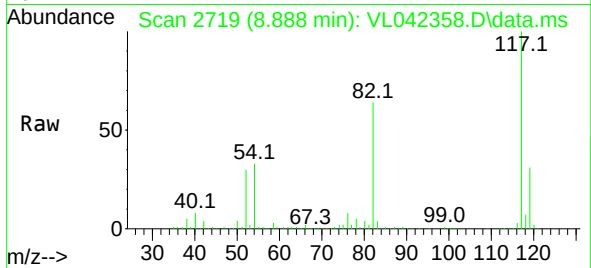
Tgt Ion:107 Resp: 204328
Ion Ratio Lower Upper
107 100
109 95.1 78.2 117.4





#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

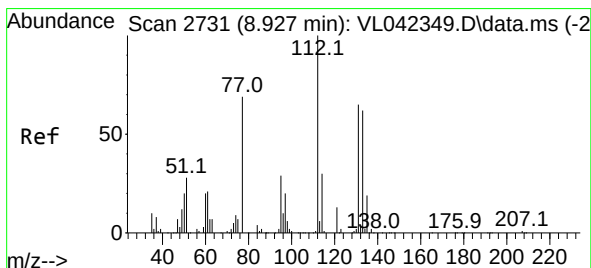
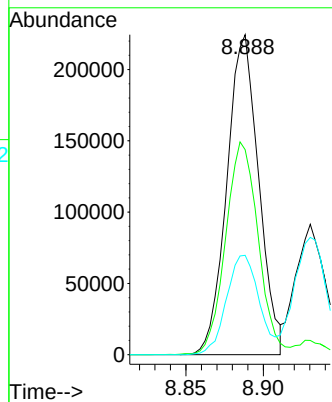
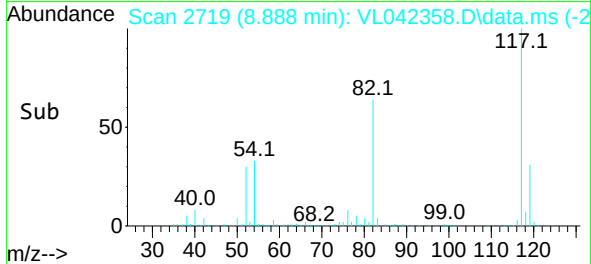
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01



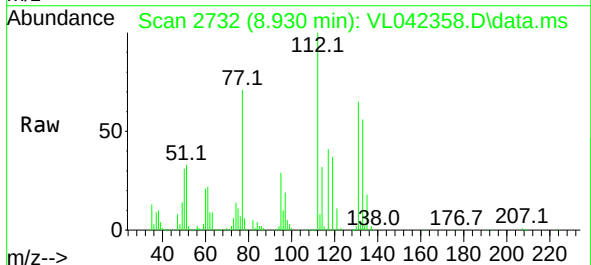
Tgt Ion:117 Resp: 32152
Ion Ratio Lower Upper
117 100
82 71.8 57.8 86.6
119 32.5 25.2 37.8

Manual Integrations
APPROVED

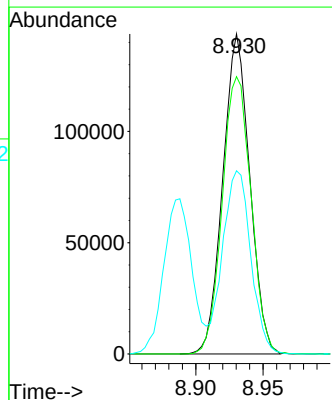
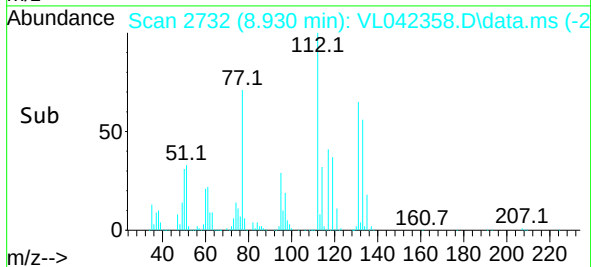
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

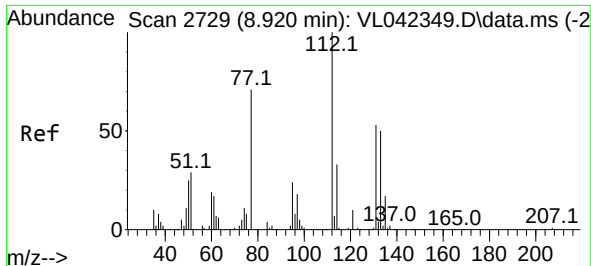


#56
1,1,1,2-Tetrachloroethane
Concen: 10.275 ppbv
RT: 8.930 min Scan# 2732
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39



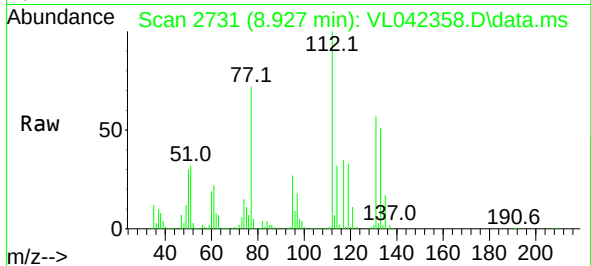
Tgt Ion:131 Resp: 199945
Ion Ratio Lower Upper
131 100
133 92.5 78.3 117.5
119 60.2 48.7 73.1





#57
Chlorobenzene
Concen: 10.022 ppbv
RT: 8.927 min Scan# 2731
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

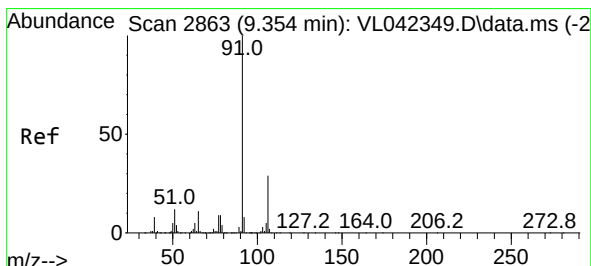
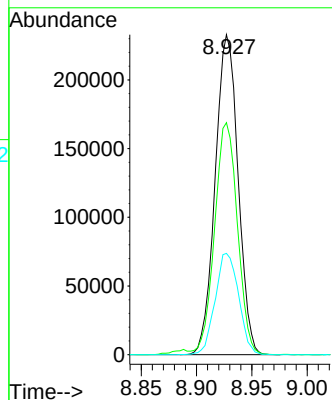
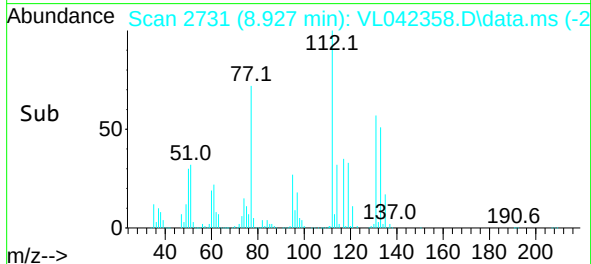
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01



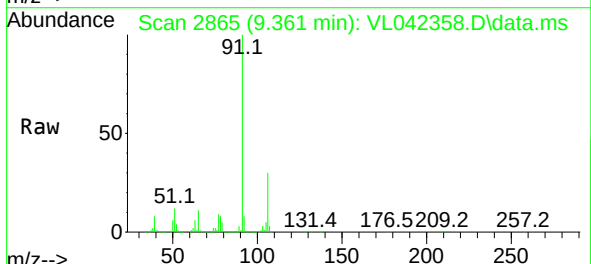
Tgt Ion: 112 Resp: 33514
Ion Ratio Lower Upper
112 100
77 72.4 57.8 86.6
114 31.7 29.3 35.9

Manual Integrations
APPROVED

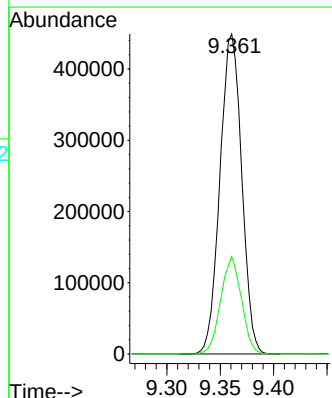
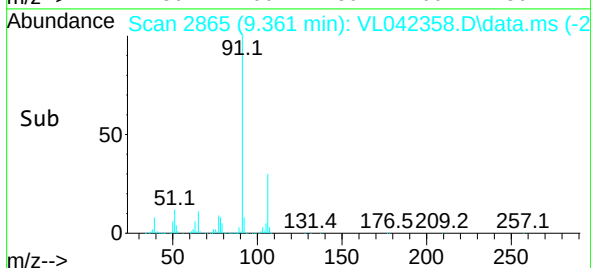
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

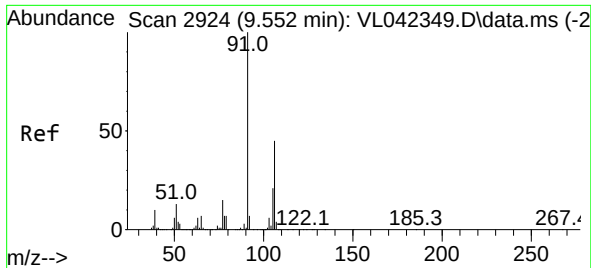


#58
Ethyl Benzene
Concen: 9.975 ppbv
RT: 9.361 min Scan# 2865
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39



Tgt Ion: 91 Resp: 635446
Ion Ratio Lower Upper
91 100
106 30.4 23.0 34.4





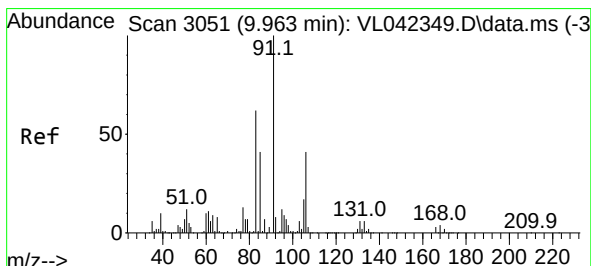
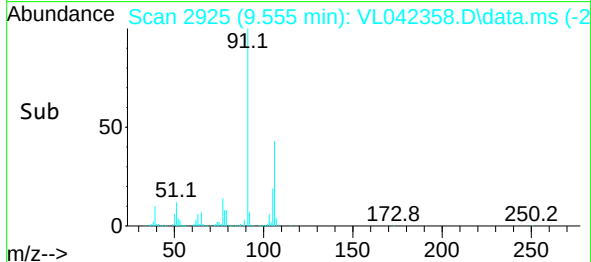
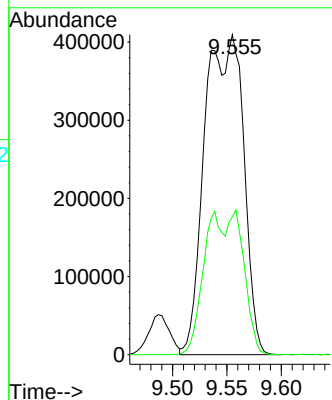
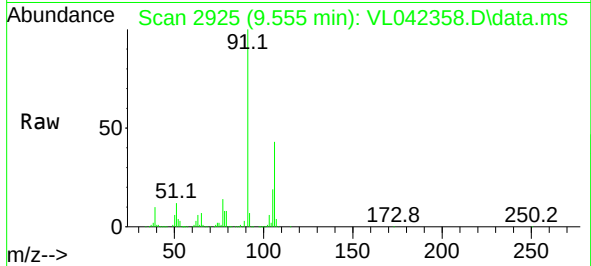
#59
m/p-Xylene
Concen: 19.806 ppbv m
RT: 9.555 min Scan# 2924
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Tgt Ion: 91 Resp: 101640
Ion Ratio Lower Upper
91 100
106 44.3 35.4 53.2

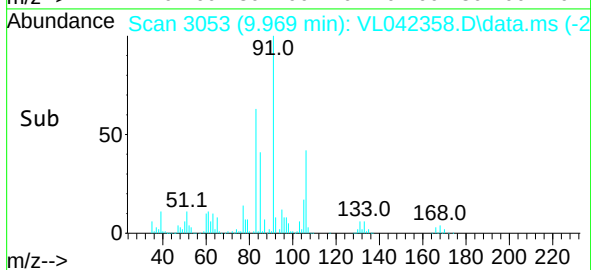
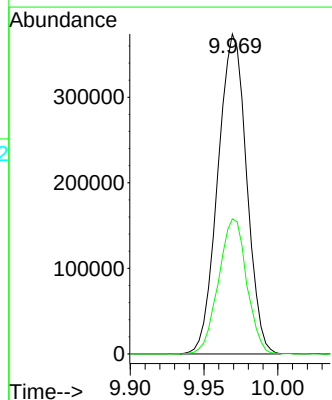
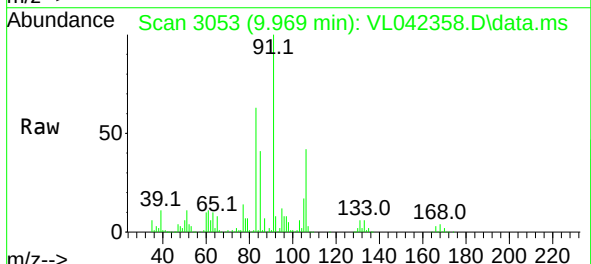
Manual Integrations
APPROVED

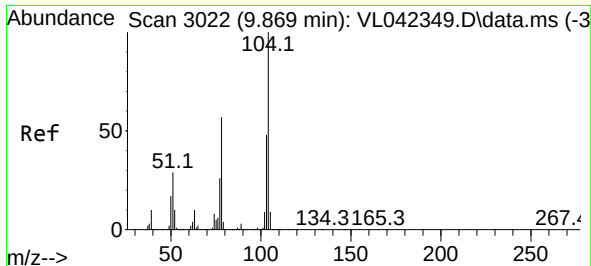
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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





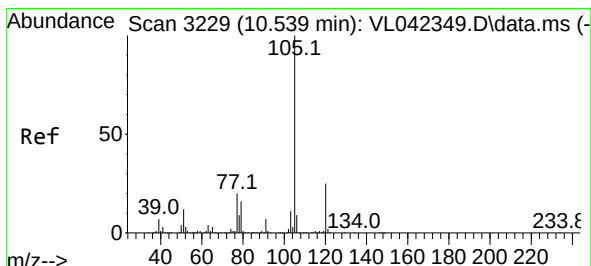
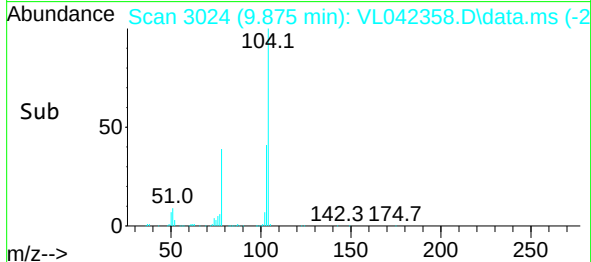
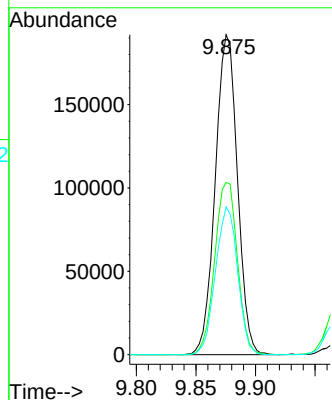
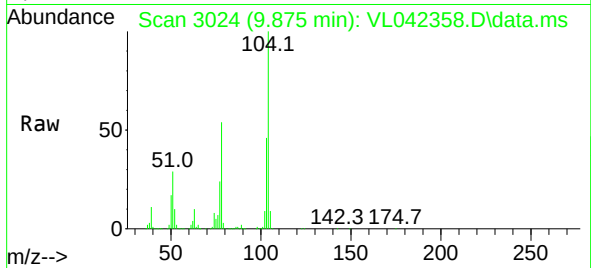
#61
Styrene
Concen: 10.055 ppbv
RT: 9.875 min Scan# 3022
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

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

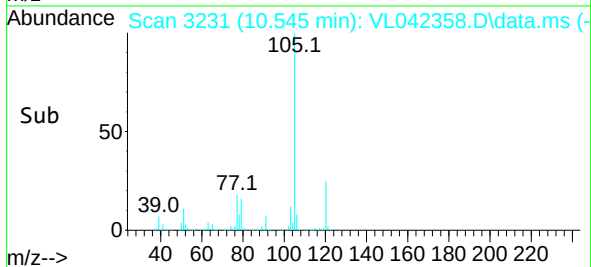
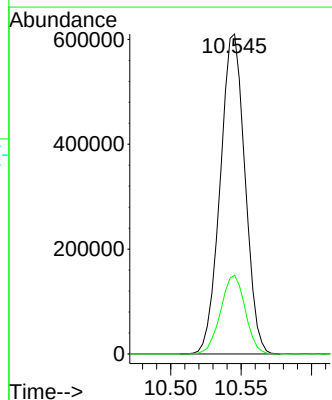
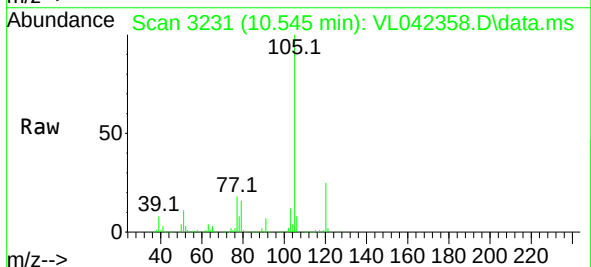
Manual Integrations
APPROVED

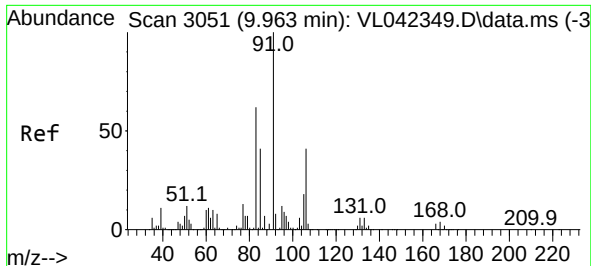
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

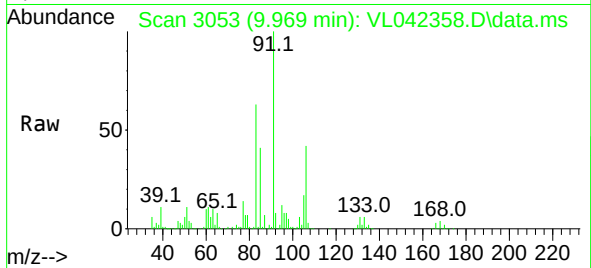
Tgt Ion:105 Resp: 745571
Ion Ratio Lower Upper
105 100
120 24.5 19.8 29.8





#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

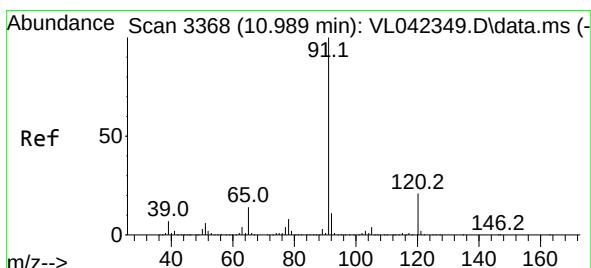
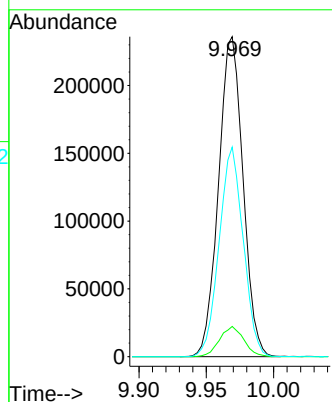
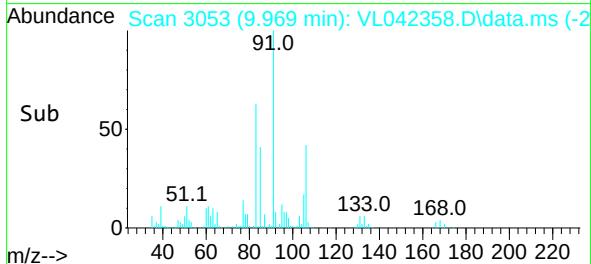
Instrument : MSVOA_1
ClientSampleId : VL0417ABS01



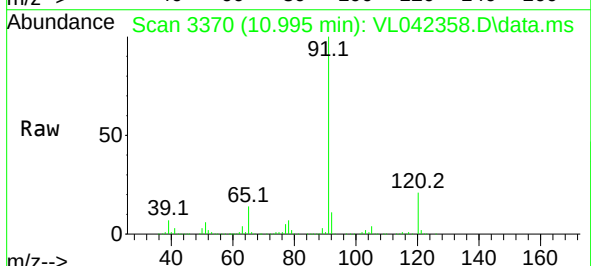
Tgt Ion: 83 Resp: 29858
Ion Ratio Lower Upper
83 100
131 9.4 4.5 13.7
85 64.5 32.4 97.0

Manual Integrations
APPROVED

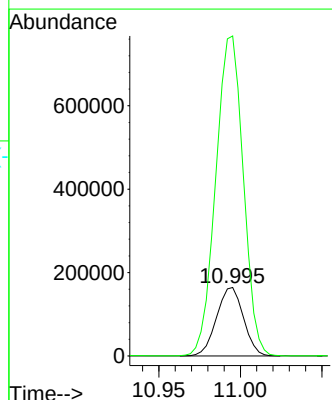
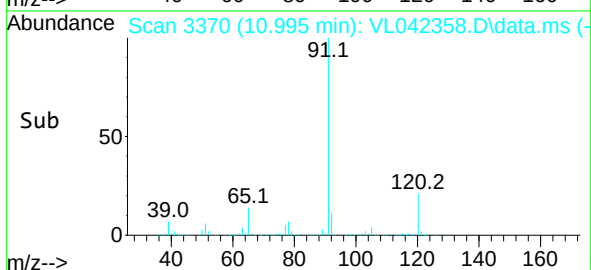
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

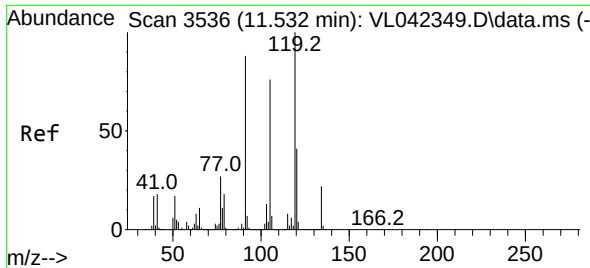


#64
n-propylbenzene
Concen: 9.875 ppbv
RT: 10.995 min Scan# 3370
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39



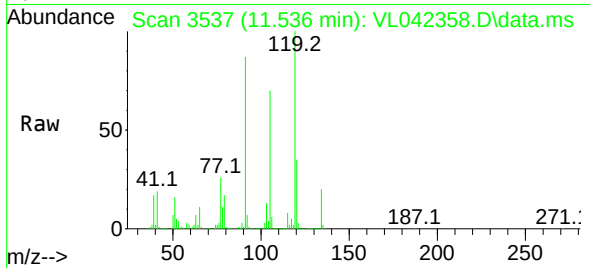
Tgt Ion:120 Resp: 188310
Ion Ratio Lower Upper
120 100
91 478.2 392.4 588.6





#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

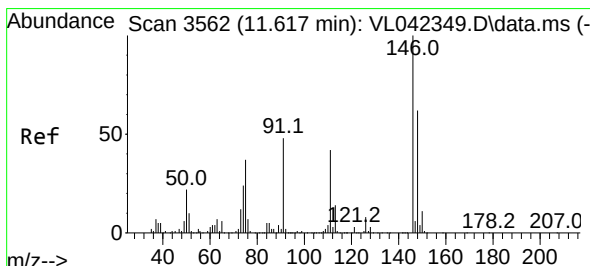
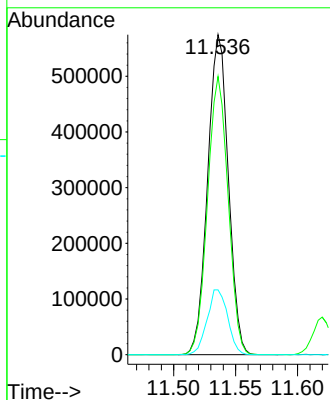
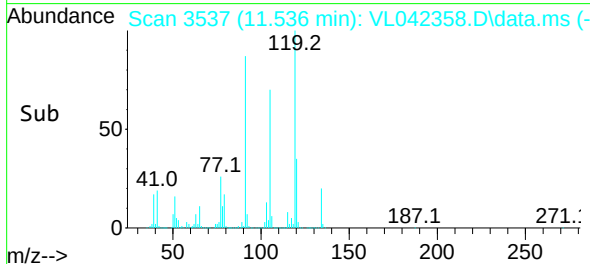
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01



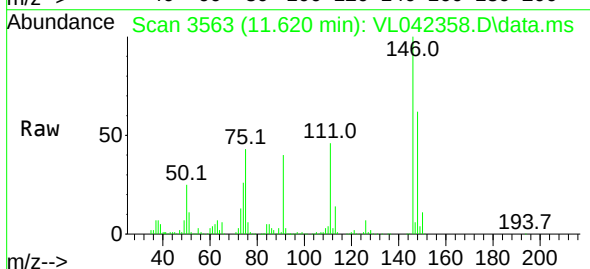
Tgt Ion:119 Resp: 66868
Ion Ratio Lower Upper
119 100
91 86.7 74.6 111.8
134 20.2 18.8 28.2

Manual Integrations
APPROVED

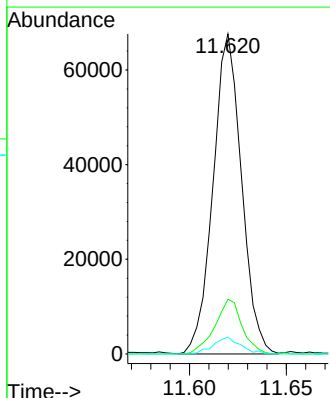
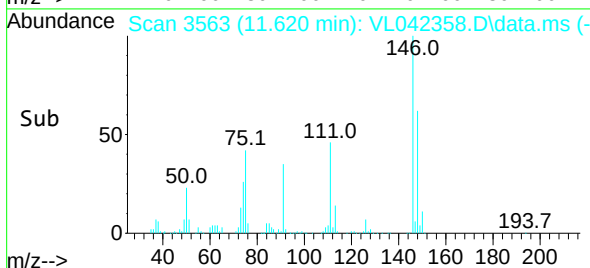
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

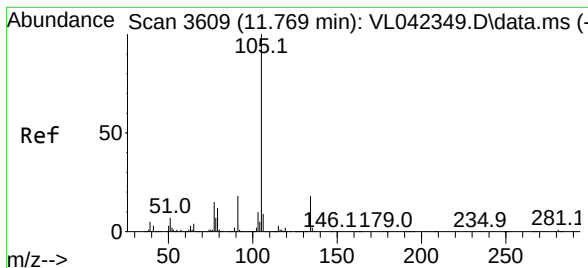


#66
Benzyl Chloride
Concen: 9.012 ppbv
RT: 11.620 min Scan# 3563
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39



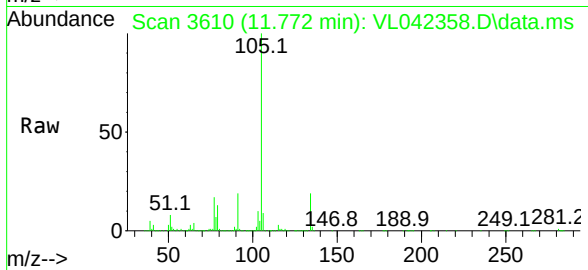
Tgt Ion: 91 Resp: 69058
Ion Ratio Lower Upper
91 100
126 16.5 11.8 17.6
128 5.0 4.5 6.7





#67
 sec-Butylbenzene
 Concen: 9.592 ppbv
 RT: 11.772 min Scan# 310
 Delta R.T. 0.003 min
 Lab File: VL042358.D
 Acq: 17 Apr 2025 15:39

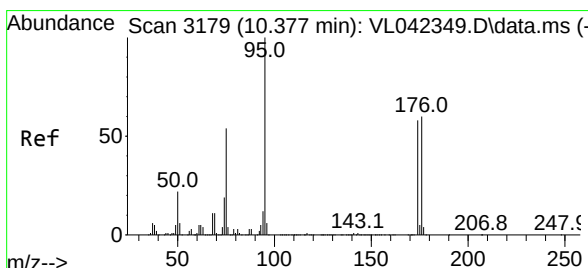
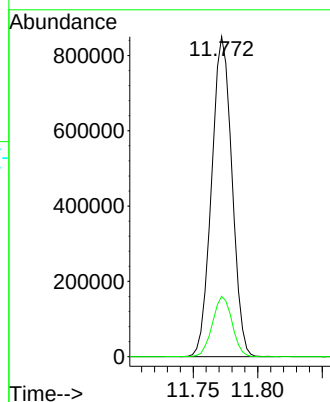
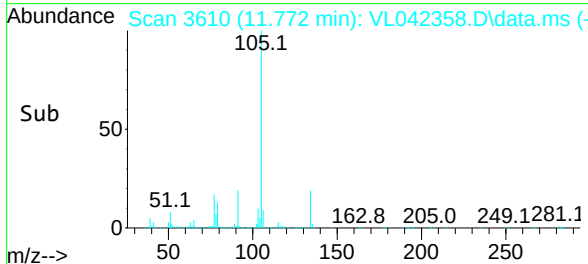
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0417ABS01



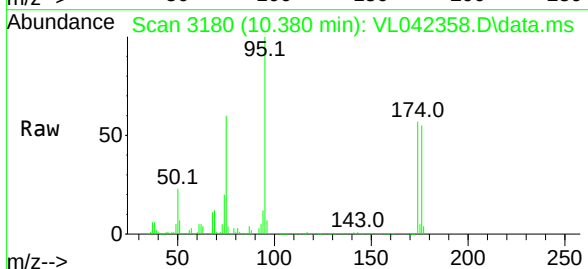
Tgt Ion:105 Resp: 930420
 Ion Ratio Lower Upper
 105 100
 134 18.3 14.6 21.8

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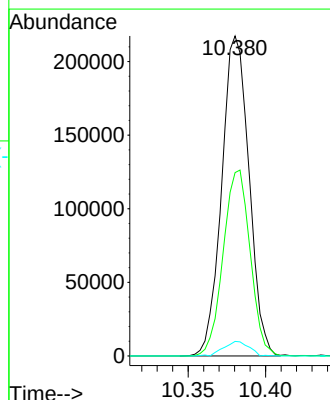
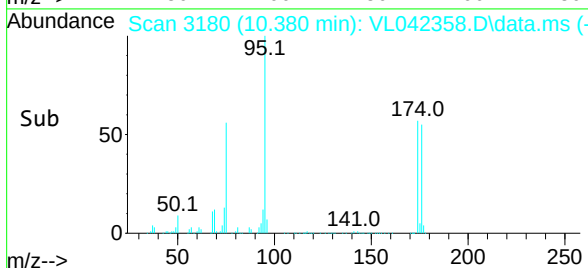
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

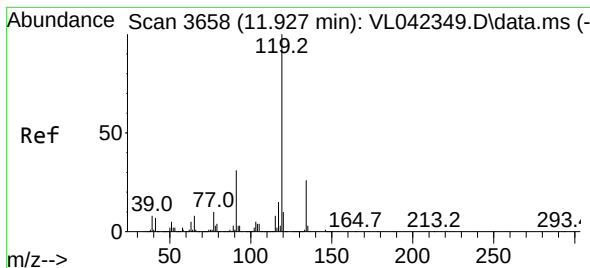


#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.096 ppbv
 RT: 10.380 min Scan# 3180
 Delta R.T. 0.003 min
 Lab File: VL042358.D
 Acq: 17 Apr 2025 15:39



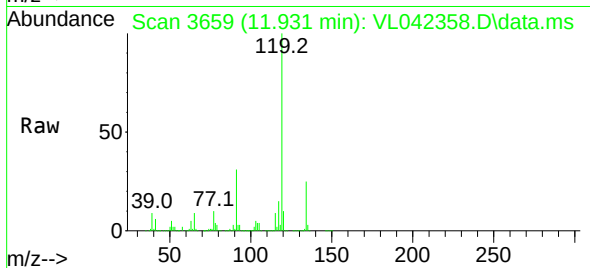
Tgt Ion: 95 Resp: 266757
 Ion Ratio Lower Upper
 95 100
 174 57.3 48.5 72.7
 175 4.3 3.7 5.5





#69
p-Isopropyltoluene
Concen: 9.441 ppbv
RT: 11.931 min Scan# 3659
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

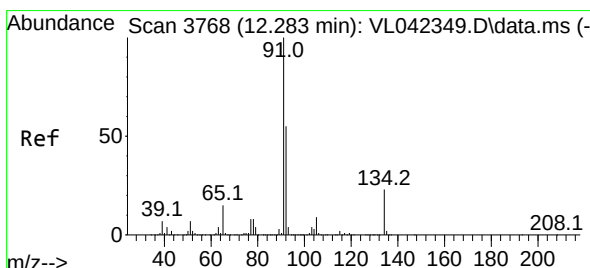
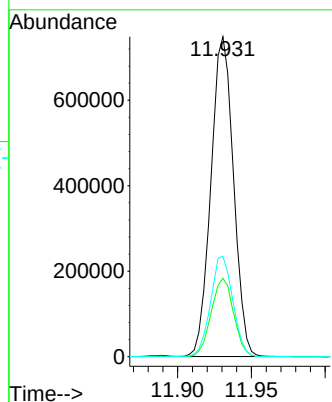
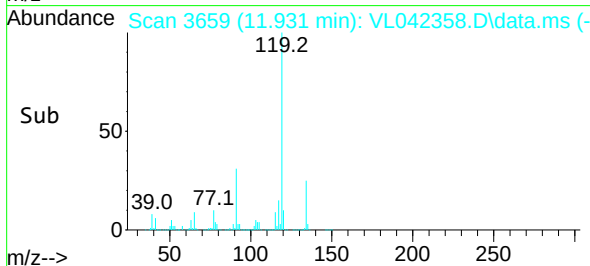
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01



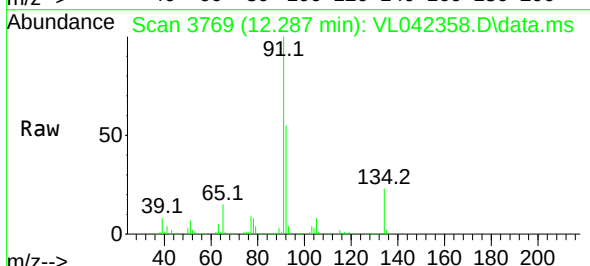
Tgt Ion: 119 Resp: 795532
Ion Ratio Lower Upper
119 100
134 24.5 20.0 30.0
91 31.2 24.4 36.6

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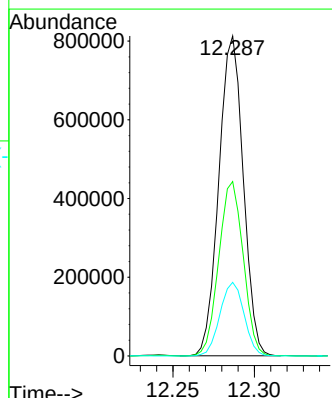
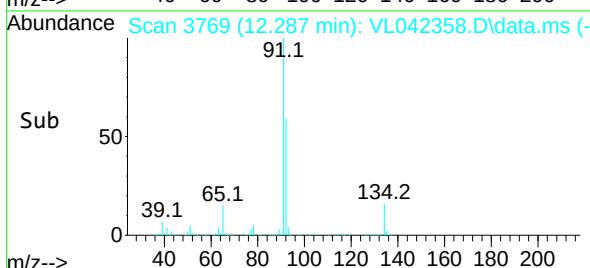
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

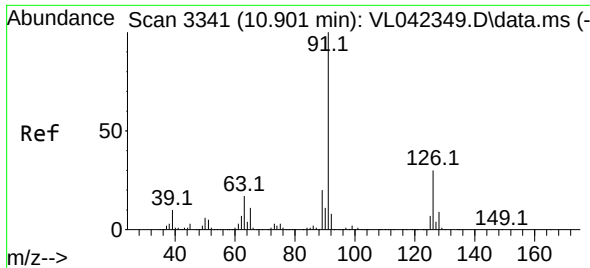


#70
n-Butylbenzene
Concen: 9.644 ppbv
RT: 12.287 min Scan# 3769
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39



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





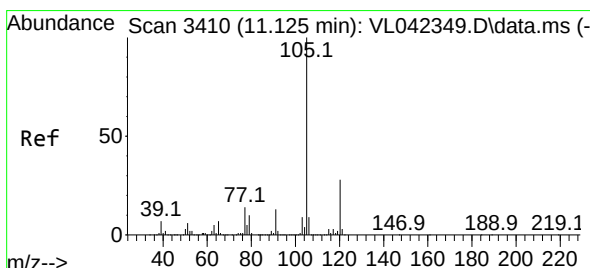
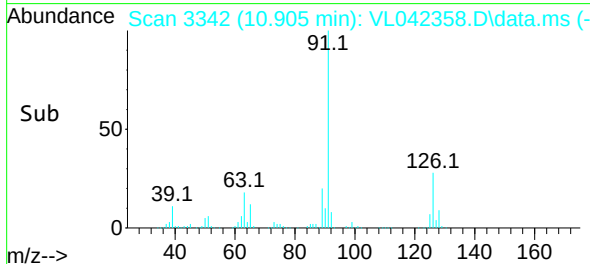
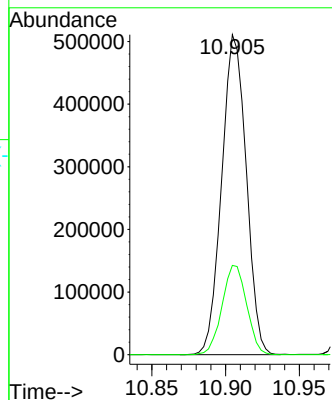
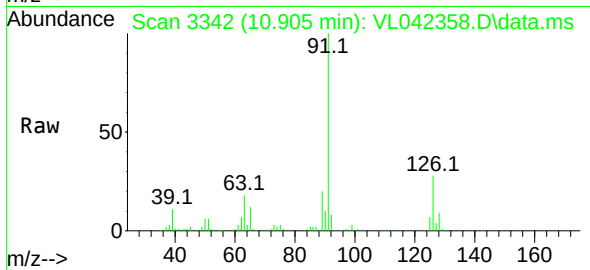
#71
2-Chlorotoluene
Concen: 9.934 ppbv
RT: 10.905 min Scan# 311
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Tgt Ion: 91 Resp: 591154
Ion Ratio Lower Upper
91 100
126 27.9 11.4 45.4

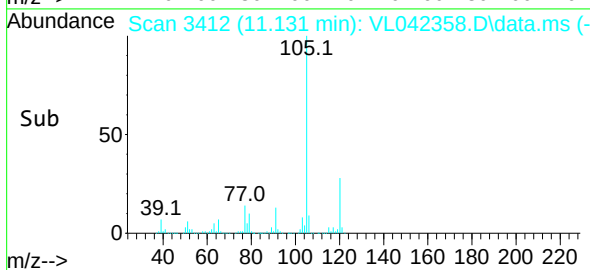
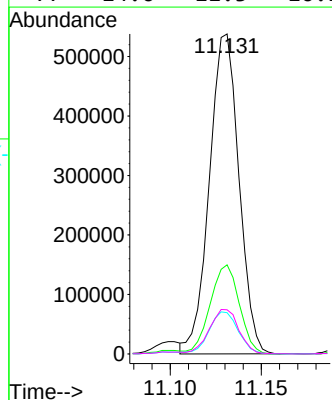
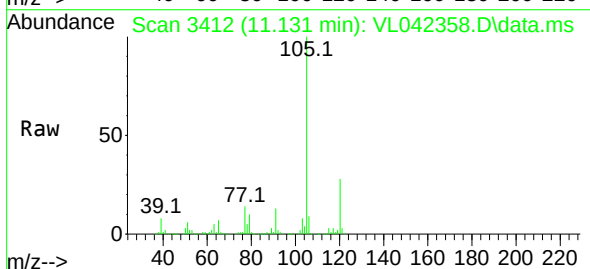
Manual Integrations
APPROVED

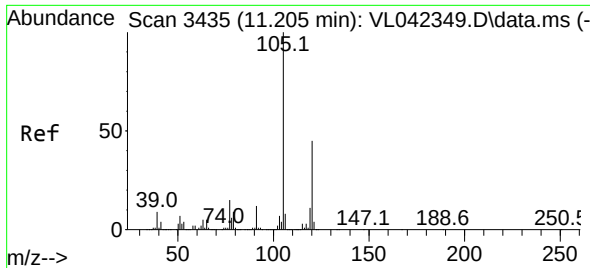
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

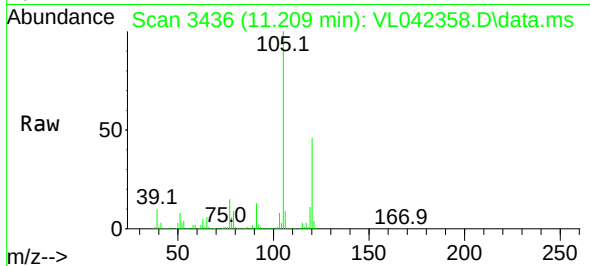
Tgt Ion:105 Resp: 606879
Ion Ratio Lower Upper
105 100
120 28.6 23.2 34.8
91 13.5 10.4 15.6
77 14.6 11.3 16.9





#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

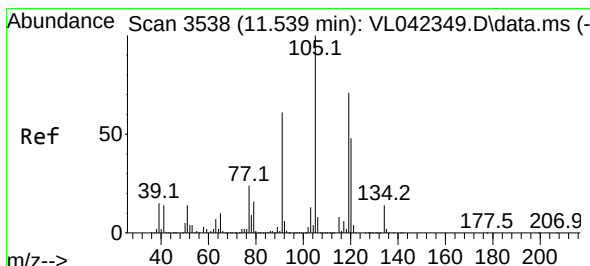
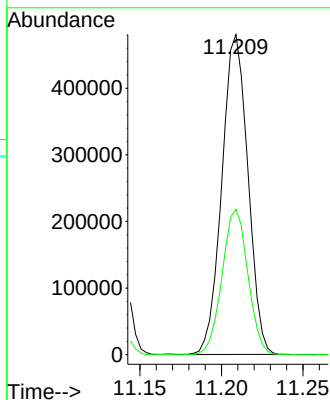
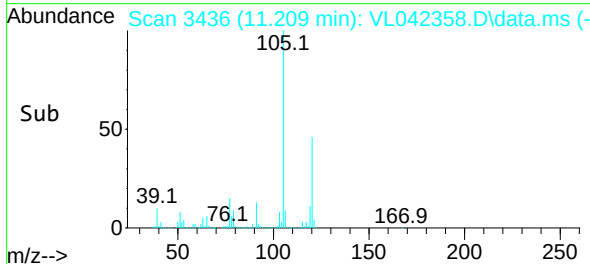
Instrument :
MSVOA_1
ClientSampleId :
VL0417ABS01



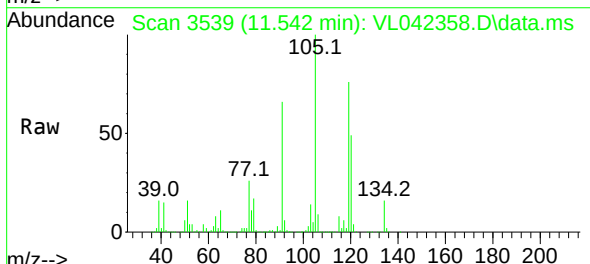
Tgt Ion:105 Resp: 533060
Ion Ratio Lower Upper
105 100
120 45.6 35.6 53.4

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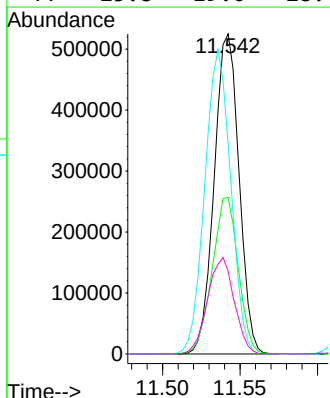
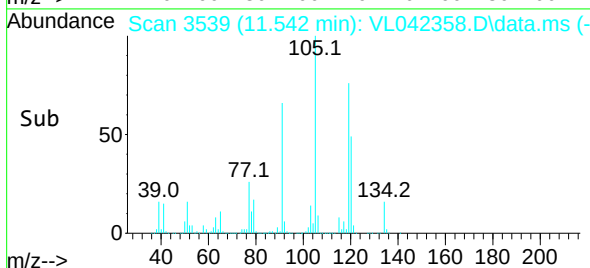
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

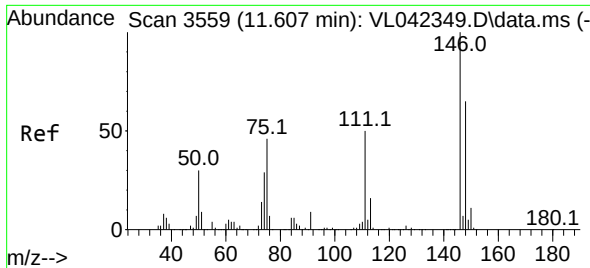


#74
1,2,4-Trimethylbenzene
Concen: 8.976 ppbv
RT: 11.542 min Scan# 3539
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39



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





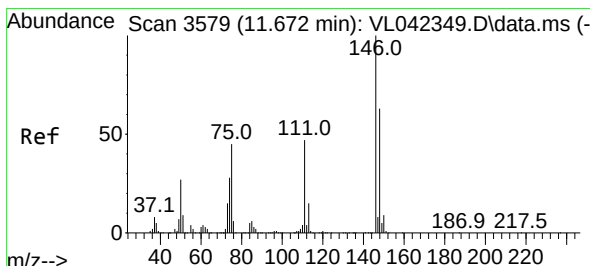
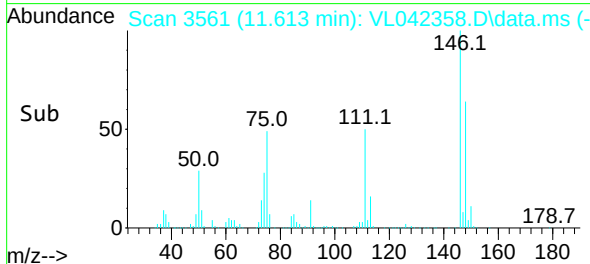
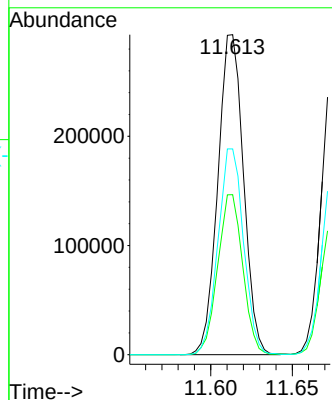
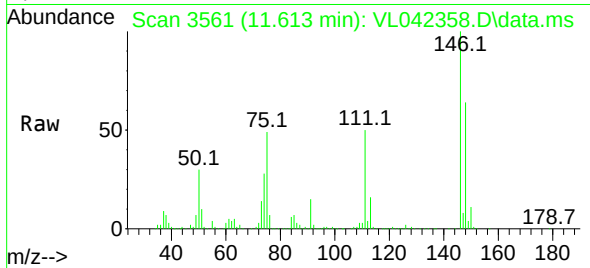
#75
1,3-Dichlorobenzene
Concen: 9.474 ppbv
RT: 11.613 min Scan# 3559
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

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

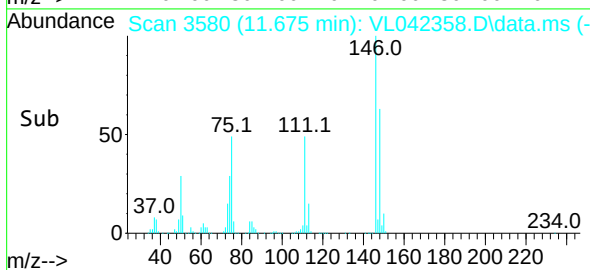
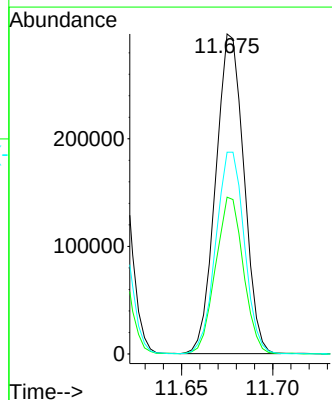
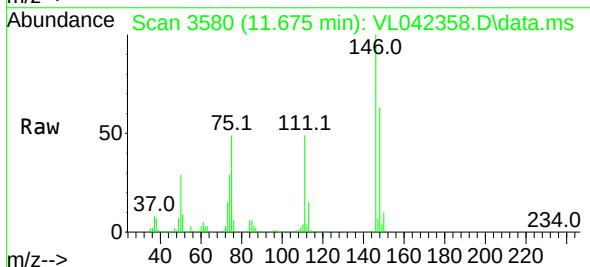
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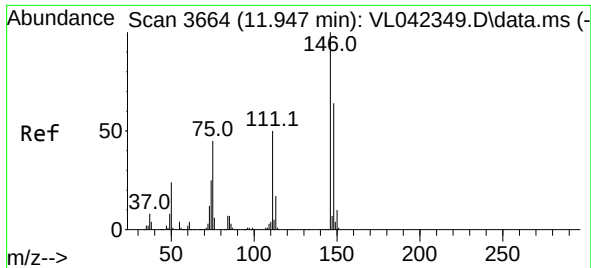
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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





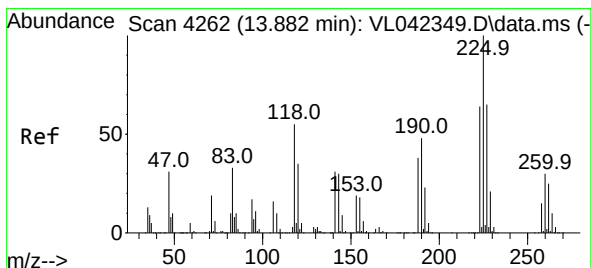
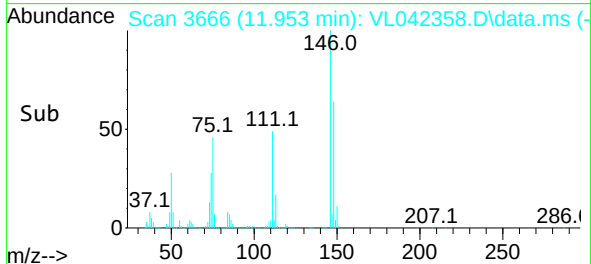
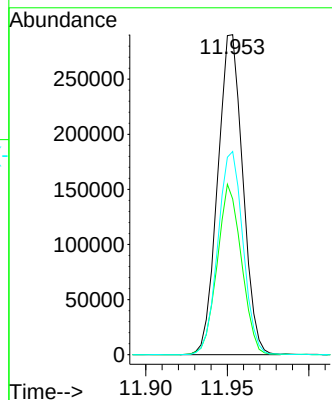
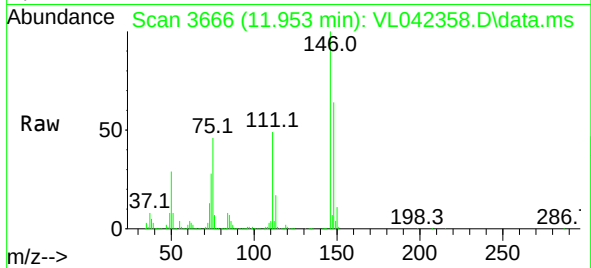
#77
1,2-Dichlorobenzene
Concen: 9.459 ppbv
RT: 11.953 min Scan# 311460
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

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

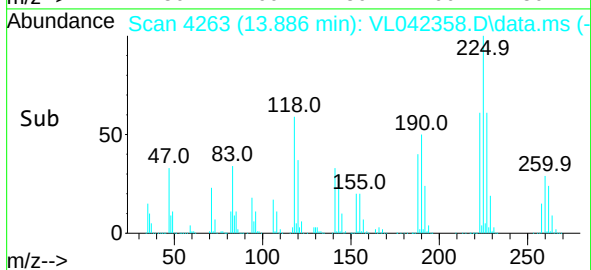
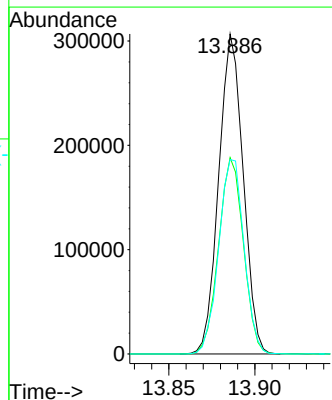
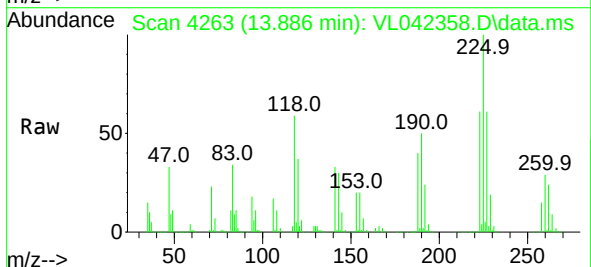
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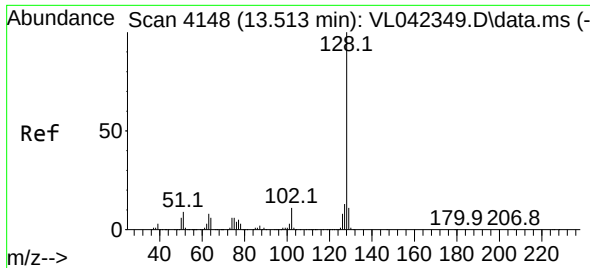
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

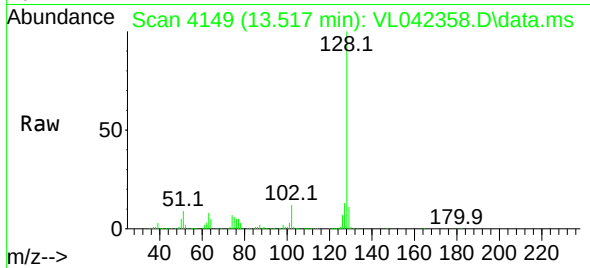
Tgt Ion:225 Resp: 303379
Ion Ratio Lower Upper
225 100
223 62.3 50.3 75.5
227 62.9 51.5 77.3





#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

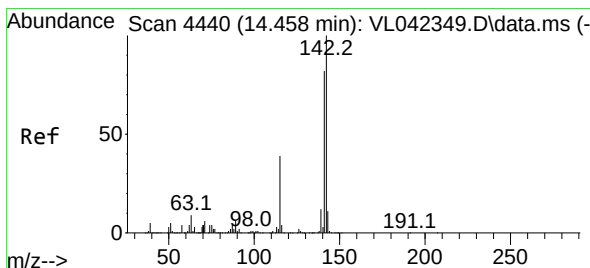
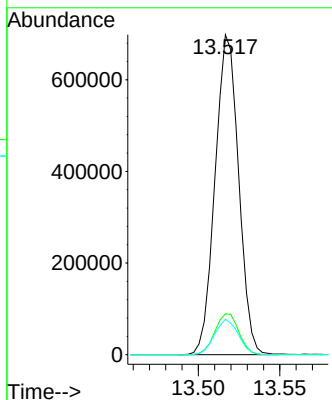
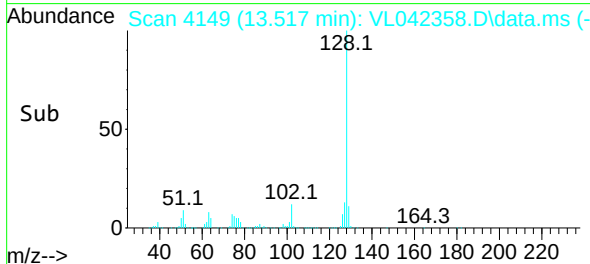
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01



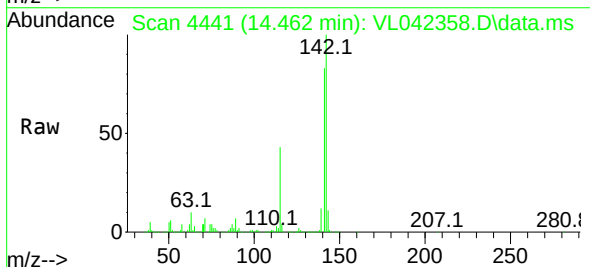
Tgt Ion:128 Resp: 701010
Ion Ratio Lower Upper
128 100
127 12.8 10.6 15.8
129 11.1 8.6 12.8

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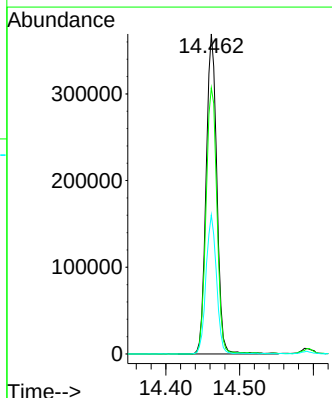
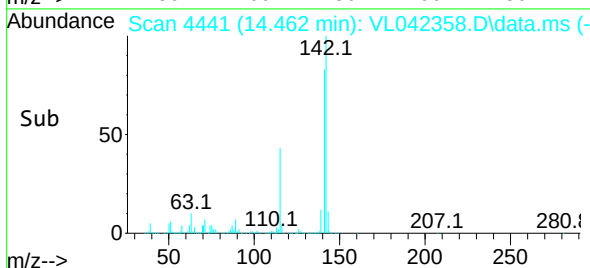
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

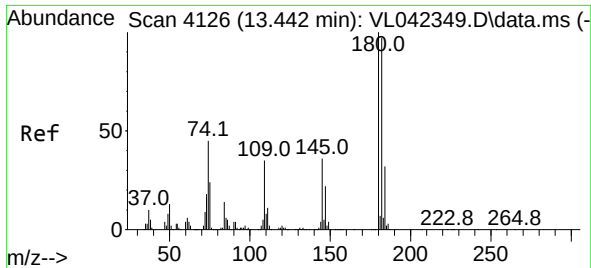


#80
Naphthalene,2-methyl-
Concen: 8.331 ppbv
RT: 14.462 min Scan# 4441
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39



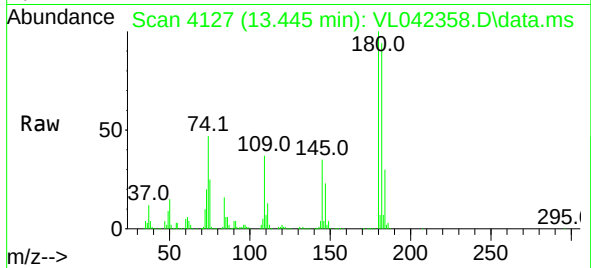
Tgt Ion:142 Resp: 369891
Ion Ratio Lower Upper
142 100
141 85.0 66.8 100.2
115 42.8 33.4 50.2





#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

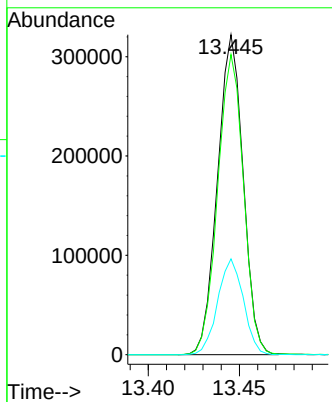
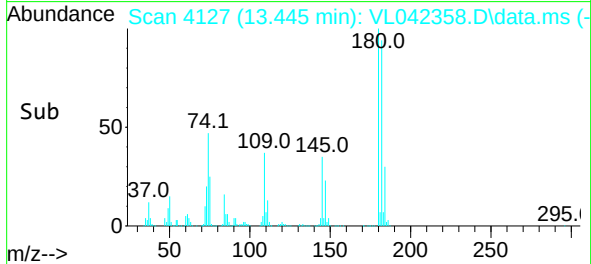
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0417ABS01



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



Manual Integration Report

Sequence:	VL032725	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICCC010	VL042172.D	m/p-Xylene	SAM	3/31/2025 11:24:55 AM	MMDadoda	4/3/2025 8:05:09 AM	Peak Integrated by Software
VSTDICCC002	VL042173.D	1,4-Dioxane	SAM	3/31/2025 11:25:00 AM	MMDadoda	4/3/2025 8:05:13 AM	Peak Integrated by Software
VSTDICCC002	VL042173.D	Ethanol	SAM	3/31/2025 11:25:00 AM	MMDadoda	4/3/2025 8:05:13 AM	Peak Integrated by Software
VSTDICCC002	VL042173.D	m/p-Xylene	SAM	3/31/2025 11:25:00 AM	MMDadoda	4/3/2025 8:05:13 AM	Peak Integrated by Software
VSTDICCC001	VL042174.D	1,4-Dioxane	SAM	3/31/2025 11:26:28 AM	MMDadoda	4/3/2025 8:05:22 AM	Peak Integrated by Software
VSTDICCC001	VL042174.D	4-Methyl-2-Pentanone	SAM	3/31/2025 11:26:28 AM	MMDadoda	4/3/2025 8:05:22 AM	Peak Integrated by Software
VSTDICCC001	VL042174.D	Ethanol	SAM	3/31/2025 11:26:28 AM	MMDadoda	4/3/2025 8:05:22 AM	Peak Integrated by Software
VSTDICCC001	VL042174.D	m/p-Xylene	SAM	3/31/2025 11:26:28 AM	MMDadoda	4/3/2025 8:05:22 AM	Peak Integrated by Software
VSTDICCC001	VL042174.D	Methyl Methacrylate	SAM	3/31/2025 11:26:28 AM	MMDadoda	4/3/2025 8:05:22 AM	Peak Integrated by Software
VSTDICCC001	VL042174.D	Propene	SAM	3/31/2025 11:26:28 AM	MMDadoda	4/3/2025 8:05:22 AM	Peak Integrated by Software
VSTDICCC001	VL042174.D	t-1,3-Dichloropropene	SAM	3/31/2025 11:26:28 AM	MMDadoda	4/3/2025 8:05:22 AM	Peak Integrated by Software
VSTDICCC001	VL042174.D	trans-1,2-Dichloroethene	SAM	3/31/2025 11:26:28 AM	MMDadoda	4/3/2025 8:05:22 AM	Peak Integrated by Software
VSTDICCC001	VL042174.D	Vinyl Acetate	SAM	3/31/2025 11:26:28 AM	MMDadoda	4/3/2025 8:05:22 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL032725	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC0.5	VL042175.D	1,1,2-Trichloroethane	SAM	3/31/2025 11:26:33 AM	MMDadoda	4/3/2025 8:05:37 AM	Peak Integrated by Software
VSTDICC0.5	VL042175.D	1,4-Dioxane	SAM	3/31/2025 11:26:33 AM	MMDadoda	4/3/2025 8:05:37 AM	Peak Integrated by Software
VSTDICC0.5	VL042175.D	cis-1,3-Dichloropropene	SAM	3/31/2025 11:26:33 AM	MMDadoda	4/3/2025 8:05:37 AM	Peak Integrated by Software
VSTDICC0.5	VL042175.D	Cyclohexane	SAM	3/31/2025 11:26:33 AM	MMDadoda	4/3/2025 8:05:37 AM	Peak Integrated by Software
VSTDICC0.5	VL042175.D	m/p-Xylene	SAM	3/31/2025 11:26:33 AM	MMDadoda	4/3/2025 8:05:37 AM	Peak Integrated by Software
VSTDICC0.5	VL042175.D	Methyl Methacrylate	SAM	3/31/2025 11:26:33 AM	MMDadoda	4/3/2025 8:05:37 AM	Peak Integrated by Software
VSTDICC0.5	VL042175.D	Propene	SAM	3/31/2025 11:26:33 AM	MMDadoda	4/3/2025 8:05:37 AM	Peak Integrated by Software
VSTDICC0.5	VL042175.D	Tetrahydrofuran	SAM	3/31/2025 11:26:33 AM	MMDadoda	4/3/2025 8:05:37 AM	Peak Integrated by Software
VSTDICC0.5	VL042175.D	Trichloroethene	SAM	3/31/2025 11:26:33 AM	MMDadoda	4/3/2025 8:05:37 AM	Peak Integrated by Software
VSTDICC0.1	VL042176.D	1,1,1-Trichloroethane	SAM	3/31/2025 11:25:04 AM	MMDadoda	4/3/2025 8:05:45 AM	Peak Integrated by Software
VSTDICC0.1	VL042176.D	1,1,2,2-Tetrachloroethane	SAM	3/31/2025 11:25:04 AM	MMDadoda	4/3/2025 8:05:45 AM	Peak Integrated by Software
VSTDICC0.1	VL042176.D	1,2-Dibromoethane	SAM	3/31/2025 11:25:04 AM	MMDadoda	4/3/2025 8:05:45 AM	Peak Integrated by Software
VSTDICC0.1	VL042176.D	Carbon Tetrachloride	SAM	3/31/2025 11:25:04 AM	MMDadoda	4/3/2025 8:05:45 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	vl032725	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC0.1	VL042176.D	Trichloroethene	SAM	3/31/2025 11:25:04 AM	MMDadoda	4/3/2025 8:05:45 AM	Peak Integrated by Software
VSTDICC0.03	VL042177.D	1,1,1-Trichloroethane	SAM	3/31/2025 11:26:39 AM	MMDadoda	4/3/2025 8:05:59 AM	Peak Integrated by Software
VSTDICC0.03	VL042177.D	1,1,2,2-Tetrachloroethane	SAM	3/31/2025 11:26:39 AM	MMDadoda	4/3/2025 8:05:59 AM	Peak Integrated by Software
VSTDICC0.03	VL042177.D	Carbon Tetrachloride	SAM	3/31/2025 11:26:39 AM	MMDadoda	4/3/2025 8:05:59 AM	Peak Integrated by Software
VSTDICC0.03	VL042177.D	Tetrachloroethene	SAM	3/31/2025 11:26:39 AM	MMDadoda	4/3/2025 8:05:59 AM	Peak Integrated by Software
VSTDICC0.03	VL042177.D	Trichloroethene	SAM	3/31/2025 11:26:39 AM	MMDadoda	4/3/2025 8:05:59 AM	Peak Integrated by Software
VSTDICC0.03	VL042177.D	Vinyl Chloride	SAM	3/31/2025 11:26:39 AM	MMDadoda	4/3/2025 8:05:59 AM	Peak Integrated by Software
VSTDICC015	VL042178.D	m/p-Xylene	SAM	3/31/2025 11:25:14 AM	MMDadoda	4/3/2025 8:06:09 AM	Peak Integrated by Software
VSTDICV010	VL042179.D	m/p-Xylene	SAM	3/31/2025 11:28:50 AM	MMDadoda	4/3/2025 8:06:14 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL040925	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC010	VL042286.D	m/p-Xylene	SAM	4/10/2025 12:04:04 PM	MMDadoda	4/10/2025 3:39:20 PM	Peak Integrated by Software
VL0409ABS02	VL042289.D	m/p-Xylene	SAM	4/10/2025 12:04:58 PM	MMDadoda	4/10/2025 7:20:47 PM	Peak Integrated by Software
Q1665-01	VL042290.D	Benzene	SAM	4/10/2025 12:05:04 PM	MMDadoda	4/10/2025 7:20:50 PM	Peak Integrated by Software
Q1665-01	VL042290.D	Carbon Tetrachloride	SAM	4/10/2025 12:05:04 PM	MMDadoda	4/10/2025 7:20:50 PM	Peak Integrated by Software
Q1665-01	VL042290.D	Chlorodifluoromethane	SAM	4/10/2025 12:05:04 PM	MMDadoda	4/10/2025 7:20:50 PM	Peak Integrated by Software
Q1665-01	VL042290.D	Heptane	SAM	4/10/2025 12:05:04 PM	MMDadoda	4/10/2025 7:20:50 PM	Peak Integrated by Software
Q1665-01	VL042290.D	m/p-Xylene	SAM	4/10/2025 12:05:04 PM	MMDadoda	4/10/2025 7:20:50 PM	Peak Integrated by Software
Q1665-01	VL042290.D	Toluene	SAM	4/10/2025 12:05:04 PM	MMDadoda	4/10/2025 7:20:50 PM	Peak Integrated by Software
Q1665-01DUP	VL042291.D	Carbon Tetrachloride	SAM	4/10/2025 12:05:09 PM	MMDadoda	4/10/2025 7:20:53 PM	Peak Integrated by Software
Q1665-01DUP	VL042291.D	Chlorodifluoromethane	SAM	4/10/2025 12:05:09 PM	MMDadoda	4/10/2025 7:20:53 PM	Peak Integrated by Software
Q1665-01DUP	VL042291.D	Heptane	SAM	4/10/2025 12:05:09 PM	MMDadoda	4/10/2025 7:20:53 PM	Peak Integrated by Software
Q1665-01DUP	VL042291.D	m/p-Xylene	SAM	4/10/2025 12:05:09 PM	MMDadoda	4/10/2025 7:20:53 PM	Peak Integrated by Software
Q1665-01DUP	VL042291.D	Trichlorofluoromethane	SAM	4/10/2025 12:05:09 PM	MMDadoda	4/10/2025 7:20:53 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	vl040925	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1665-04	VL042292.D	Chlorodifluoromethane	SAM	4/10/2025 12:05:14 PM	MMDadoda	4/10/2025 7:20:55 PM	Peak Integrated by Software
Q1665-04	VL042292.D	m/p-Xylene	SAM	4/10/2025 12:05:14 PM	MMDadoda	4/10/2025 7:20:55 PM	Peak Integrated by Software
Q1665-04	VL042292.D	Toluene	SAM	4/10/2025 12:05:14 PM	MMDadoda	4/10/2025 7:20:55 PM	Peak Integrated by Software
Q1665-06	VL042293.D	Carbon Tetrachloride	SAM	4/10/2025 12:04:30 PM	MMDadoda	4/10/2025 7:20:58 PM	Peak Integrated by Software
Q1665-06	VL042293.D	Chlorodifluoromethane	SAM	4/10/2025 12:04:30 PM	MMDadoda	4/10/2025 7:20:58 PM	Peak Integrated by Software
Q1665-06	VL042293.D	Heptane	SAM	4/10/2025 12:04:30 PM	MMDadoda	4/10/2025 7:20:58 PM	Peak Integrated by Software
Q1665-06	VL042293.D	Propene	SAM	4/10/2025 12:04:30 PM	MMDadoda	4/10/2025 7:20:58 PM	Peak Integrated by Software
Q1665-06	VL042293.D	Tetrahydrofuran	SAM	4/10/2025 12:04:30 PM	MMDadoda	4/10/2025 7:20:58 PM	Peak Integrated by Software
Q1665-08	VL042294.D	Benzene	SAM	4/10/2025 12:04:43 PM	MMDadoda	4/10/2025 7:21:00 PM	Peak Integrated by Software
Q1665-08	VL042294.D	Carbon Tetrachloride	SAM	4/10/2025 12:04:43 PM	MMDadoda	4/10/2025 7:21:00 PM	Peak Integrated by Software
Q1665-08	VL042294.D	Chlorodifluoromethane	SAM	4/10/2025 12:04:43 PM	MMDadoda	4/10/2025 7:21:00 PM	Peak Integrated by Software
Q1665-08	VL042294.D	Propene	SAM	4/10/2025 12:04:43 PM	MMDadoda	4/10/2025 7:21:00 PM	Peak Integrated by Software
Q1665-08	VL042294.D	tert-Butyl alcohol	SAM	4/10/2025 12:04:43 PM	MMDadoda	4/10/2025 7:21:00 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	vl040925	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1665-09	VL042295.D	Carbon Tetrachloride	SAM	4/10/2025 12:04:26 PM	MMDadoda	4/10/2025 7:21:01 PM	Peak Integrated by Software
Q1665-09	VL042295.D	Chlorodifluoromethane	SAM	4/10/2025 12:04:26 PM	MMDadoda	4/10/2025 7:21:01 PM	Peak Integrated by Software
Q1665-09	VL042295.D	Heptane	SAM	4/10/2025 12:04:26 PM	MMDadoda	4/10/2025 7:21:01 PM	Peak Integrated by Software
Q1665-09	VL042295.D	m/p-Xylene	SAM	4/10/2025 12:04:26 PM	MMDadoda	4/10/2025 7:21:01 PM	Peak Integrated by Software
Q1665-09	VL042295.D	Propene	SAM	4/10/2025 12:04:26 PM	MMDadoda	4/10/2025 7:21:01 PM	Peak Integrated by Software
Q1665-20	VL042296.D	Chlorobenzene	SAM	4/10/2025 12:05:20 PM	MMDadoda	4/10/2025 7:21:06 PM	Peak Integrated by Software
Q1665-20	VL042296.D	Chlorodifluoromethane	SAM	4/10/2025 12:05:20 PM	MMDadoda	4/10/2025 7:21:06 PM	Peak Integrated by Software
Q1665-20	VL042296.D	Heptane	SAM	4/10/2025 12:05:20 PM	MMDadoda	4/10/2025 7:21:06 PM	Peak Integrated by Software
Q1665-20	VL042296.D	m/p-Xylene	SAM	4/10/2025 12:05:20 PM	MMDadoda	4/10/2025 7:21:06 PM	Peak Integrated by Software
Q1665-20	VL042296.D	Propene	SAM	4/10/2025 12:05:20 PM	MMDadoda	4/10/2025 7:21:06 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL041125	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC010	VL042312.D	m/p-Xylene	SAM	4/16/2025 9:17:16 PM	MMDadoda	4/17/2025 1:40:05 PM	Peak Integrated by Software
VL0411ABS01	VL042314.D	m/p-Xylene	SAM	4/16/2025 9:17:26 PM	MMDadoda	4/17/2025 1:40:08 PM	Peak Integrated by Software
Q1665-03	VL042317.D	Carbon Tetrachloride	SAM	4/16/2025 9:17:31 PM	MMDadoda	4/17/2025 1:40:15 PM	Peak Integrated by Software
Q1665-03	VL042317.D	Heptane	SAM	4/16/2025 9:17:31 PM	MMDadoda	4/17/2025 1:40:15 PM	Peak Integrated by Software
Q1665-03	VL042317.D	m/p-Xylene	SAM	4/16/2025 9:17:31 PM	MMDadoda	4/17/2025 1:40:15 PM	Peak Integrated by Software
Q1665-03	VL042317.D	Propene	SAM	4/16/2025 9:17:31 PM	MMDadoda	4/17/2025 1:40:15 PM	Peak Integrated by Software
Q1665-03	VL042317.D	Tetrachloroethene	SAM	4/16/2025 9:17:31 PM	MMDadoda	4/17/2025 1:40:15 PM	Peak Integrated by Software
Q1665-03DUP	VL042318.D	Carbon Tetrachloride	SAM	4/16/2025 9:17:45 PM	MMDadoda	4/17/2025 1:40:17 PM	Peak Integrated by Software
Q1665-03DUP	VL042318.D	Heptane	SAM	4/16/2025 9:17:45 PM	MMDadoda	4/17/2025 1:40:17 PM	Peak Integrated by Software
Q1665-03DUP	VL042318.D	m/p-Xylene	SAM	4/16/2025 9:17:45 PM	MMDadoda	4/17/2025 1:40:17 PM	Peak Integrated by Software
Q1665-03DUP	VL042318.D	o-Xylene	SAM	4/16/2025 9:17:45 PM	MMDadoda	4/17/2025 1:40:17 PM	Peak Integrated by Software
Q1665-03DUP	VL042318.D	Propene	SAM	4/16/2025 9:17:45 PM	MMDadoda	4/17/2025 1:40:17 PM	Peak Integrated by Software
Q1665-03DUP	VL042318.D	tert-Butyl alcohol	SAM	4/16/2025 9:17:45 PM	MMDadoda	4/17/2025 1:40:17 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL041125	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1665-03DUP	VL042318.D	Tetrachloroethene	SAM	4/16/2025 9:17:45 PM	MMDadoda	4/17/2025 1:40:17 PM	Peak Integrated by Software
Q1665-03DUP	VL042318.D	Toluene	SAM	4/16/2025 9:17:45 PM	MMDadoda	4/17/2025 1:40:17 PM	Peak Integrated by Software
Q1665-10	VL042319.D	2,2,4-Trimethylpentane	SAM	4/16/2025 9:18:13 PM	MMDadoda	4/17/2025 1:40:19 PM	Peak Integrated by Software
Q1665-10	VL042319.D	Carbon Tetrachloride	SAM	4/16/2025 9:18:13 PM	MMDadoda	4/17/2025 1:40:19 PM	Peak Integrated by Software
Q1665-10	VL042319.D	Chlorodifluoromethane	SAM	4/16/2025 9:18:13 PM	MMDadoda	4/17/2025 1:40:19 PM	Peak Integrated by Software
Q1665-10	VL042319.D	Heptane	SAM	4/16/2025 9:18:13 PM	MMDadoda	4/17/2025 1:40:19 PM	Peak Integrated by Software
Q1665-10	VL042319.D	m/p-Xylene	SAM	4/16/2025 9:18:13 PM	MMDadoda	4/17/2025 1:40:19 PM	Peak Integrated by Software
Q1665-10	VL042319.D	Propene	SAM	4/16/2025 9:18:13 PM	MMDadoda	4/17/2025 1:40:19 PM	Peak Integrated by Software
Q1665-10	VL042319.D	Toluene	SAM	4/16/2025 9:18:13 PM	MMDadoda	4/17/2025 1:40:19 PM	Peak Integrated by Software
Q1665-11	VL042320.D	4-Methyl-2-Pentanone	SAM	4/16/2025 9:18:07 PM	MMDadoda	4/17/2025 1:40:21 PM	Peak Integrated by Software
Q1665-11	VL042320.D	Carbon Tetrachloride	SAM	4/16/2025 9:18:07 PM	MMDadoda	4/17/2025 1:40:21 PM	Peak Integrated by Software
Q1665-11	VL042320.D	m/p-Xylene	SAM	4/16/2025 9:18:07 PM	MMDadoda	4/17/2025 1:40:21 PM	Peak Integrated by Software
Q1665-11	VL042320.D	Propene	SAM	4/16/2025 9:18:07 PM	MMDadoda	4/17/2025 1:40:21 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL041125	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1665-11	VL042320.D	tert-Butyl alcohol	SAM	4/16/2025 9:18:07 PM	MMDadoda	4/17/2025 1:40:21 PM	Peak Integrated by Software
Q1665-11	VL042320.D	Toluene	SAM	4/16/2025 9:18:07 PM	MMDadoda	4/17/2025 1:40:21 PM	Peak Integrated by Software
Q1665-18	VL042321.D	4-Methyl-2-Pentanone	SAM	4/16/2025 9:18:36 PM	MMDadoda	4/17/2025 1:40:23 PM	Peak Integrated by Software
Q1665-18	VL042321.D	Carbon Tetrachloride	SAM	4/16/2025 9:18:36 PM	MMDadoda	4/17/2025 1:40:23 PM	Peak Integrated by Software
Q1665-18	VL042321.D	Chlorodifluoromethane	SAM	4/16/2025 9:18:36 PM	MMDadoda	4/17/2025 1:40:23 PM	Peak Integrated by Software
Q1665-18	VL042321.D	Heptane	SAM	4/16/2025 9:18:36 PM	MMDadoda	4/17/2025 1:40:23 PM	Peak Integrated by Software
Q1665-18	VL042321.D	m/p-Xylene	SAM	4/16/2025 9:18:36 PM	MMDadoda	4/17/2025 1:40:23 PM	Peak Integrated by Software
Q1665-18	VL042321.D	o-Xylene	SAM	4/16/2025 9:18:36 PM	MMDadoda	4/17/2025 1:40:23 PM	Peak Integrated by Software
Q1665-18	VL042321.D	Propene	SAM	4/16/2025 9:18:36 PM	MMDadoda	4/17/2025 1:40:23 PM	Peak Integrated by Software
Q1665-18	VL042321.D	tert-Butyl alcohol	SAM	4/16/2025 9:18:36 PM	MMDadoda	4/17/2025 1:40:23 PM	Peak Integrated by Software
Q1665-18	VL042321.D	Tetrachloroethene	SAM	4/16/2025 9:18:36 PM	MMDadoda	4/17/2025 1:40:23 PM	Peak Integrated by Software
Q1665-10DL	VL042323.D	Propene	SAM	4/16/2025 9:18:02 PM	MMDadoda	4/17/2025 1:40:25 PM	Peak Integrated by Software
Q1665-11DL	VL042324.D	Chloroform	SAM	4/16/2025 9:17:57 PM	MMDadoda	4/17/2025 1:40:26 PM	Peak Integrated by Software



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Manual Integration Report

Sequence:

VL041125

Instrument

MSVOA_I

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason

Manual Integration Report

Sequence:

vl041525

Instrument

MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC010	VL042326.D	m/p-Xylene	SAM	4/16/2025 2:13:04 PM	MMDadoda	4/16/2025 3:47:21 PM	Peak Integrated by Software
VL0415ABS01	VL042328.D	m/p-Xylene	SAM	4/16/2025 2:13:09 PM	MMDadoda	4/16/2025 3:47:23 PM	Peak Integrated by Software
Q1665-10DL2	VL042332.D	Propene	SAM	4/16/2025 2:13:14 PM	MMDadoda	4/16/2025 3:47:25 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL041725	Instrument	MSVOA_I
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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
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDIC001	VL042351.D	Ethanol	SAM	4/18/2025 4:19:17 PM	MMDadoda	4/18/2025 10:45:15 PM	Peak Integrated by Software
VSTDIC001	VL042351.D	Heptane	SAM	4/18/2025 4:19:17 PM	MMDadoda	4/18/2025 10:45:15 PM	Peak Integrated by Software
VSTDIC001	VL042351.D	m/p-Xylene	SAM	4/18/2025 4:19:17 PM	MMDadoda	4/18/2025 10:45:15 PM	Peak Integrated by Software
VSTDIC001	VL042351.D	Methyl Methacrylate	SAM	4/18/2025 4:19:17 PM	MMDadoda	4/18/2025 10:45:15 PM	Peak Integrated by Software
VSTDIC001	VL042351.D	t-1,3-Dichloropropene	SAM	4/18/2025 4:19:17 PM	MMDadoda	4/18/2025 10:45:15 PM	Peak Integrated by Software
VSTDIC0.5	VL042352.D	1,1,2-Trichloroethane	SAM	4/18/2025 4:20:33 PM	MMDadoda	4/18/2025 10:45:07 PM	Peak Integrated by Software
VSTDIC0.5	VL042352.D	1,2-Dichloropropane	SAM	4/18/2025 4:20:33 PM	MMDadoda	4/18/2025 10:45:07 PM	Peak Integrated by Software
VSTDIC0.5	VL042352.D	1,4-Dioxane	SAM	4/18/2025 4:20:33 PM	MMDadoda	4/18/2025 10:45:07 PM	Peak Integrated by Software
VSTDIC0.5	VL042352.D	4-Methyl-2-Pentanone	SAM	4/18/2025 4:20:33 PM	MMDadoda	4/18/2025 10:45:07 PM	Peak Integrated by Software
VSTDIC0.5	VL042352.D	Chlorobenzene	SAM	4/18/2025 4:20:33 PM	MMDadoda	4/18/2025 10:45:07 PM	Peak Integrated by Software
VSTDIC0.5	VL042352.D	cis-1,3-Dichloropropene	SAM	4/18/2025 4:20:33 PM	MMDadoda	4/18/2025 10:45:07 PM	Peak Integrated by Software
VSTDIC0.5	VL042352.D	Ethanol	SAM	4/18/2025 4:20:33 PM	MMDadoda	4/18/2025 10:45:07 PM	Peak Integrated by Software
VSTDIC0.5	VL042352.D	Heptane	SAM	4/18/2025 4:20:33 PM	MMDadoda	4/18/2025 10:45:07 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL041725	Instrument	MSVOA_I
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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
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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
Q1665-15	VL042359.D	1,1,1-Trichloroethane	SAM	4/18/2025 4:22:27 PM	MMDadoda	4/18/2025 10:44:53 PM	Peak Integrated by Software
Q1665-15	VL042359.D	1,4-Dioxane	SAM	4/18/2025 4:22:27 PM	MMDadoda	4/18/2025 10:44:53 PM	Peak Integrated by Software
Q1665-15	VL042359.D	2,2,4-Trimethylpentane	SAM	4/18/2025 4:22:27 PM	MMDadoda	4/18/2025 10:44:53 PM	Peak Integrated by Software
Q1665-15	VL042359.D	2-Hexanone	SAM	4/18/2025 4:22:27 PM	MMDadoda	4/18/2025 10:44:53 PM	Peak Integrated by Software
Q1665-15	VL042359.D	4-Methyl-2-Pentanone	SAM	4/18/2025 4:22:27 PM	MMDadoda	4/18/2025 10:44:53 PM	Peak Integrated by Software
Q1665-15	VL042359.D	Benzene	SAM	4/18/2025 4:22:27 PM	MMDadoda	4/18/2025 10:44:53 PM	Peak Integrated by Software
Q1665-15	VL042359.D	Carbon Tetrachloride	SAM	4/18/2025 4:22:27 PM	MMDadoda	4/18/2025 10:44:53 PM	Peak Integrated by Software
Q1665-15	VL042359.D	Chlorodifluoromethane	SAM	4/18/2025 4:22:27 PM	MMDadoda	4/18/2025 10:44:53 PM	Peak Integrated by Software
Q1665-15	VL042359.D	Heptane	SAM	4/18/2025 4:22:27 PM	MMDadoda	4/18/2025 10:44:53 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL041725	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1665-15	VL042359.D	Naphthalene,2-methyl-	SAM	4/18/2025 4:22:27 PM	MMDadoda	4/18/2025 10:44:53 PM	Peak Integrated by Software
Q1665-15DL	VL042360.D	2-Butanone	SAM	4/18/2025 4:21:44 PM	MMDadoda	4/18/2025 10:44:49 PM	Peak Integrated by Software
Q1665-15DL	VL042360.D	Ethanol	SAM	4/18/2025 4:21:44 PM	MMDadoda	4/18/2025 10:44:49 PM	Peak Integrated by Software
Q1665-15DL	VL042360.D	m/p-Xylene	SAM	4/18/2025 4:21:44 PM	MMDadoda	4/18/2025 10:44:49 PM	Peak Integrated by Software
Q1665-15DL	VL042360.D	Toluene	SAM	4/18/2025 4:21:44 PM	MMDadoda	4/18/2025 10:44:49 PM	Peak Integrated by Software

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL032725

Review By	Mahesh 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

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL040925

Review By	Semsettin Yesilyurt	Review On	4/10/2025 7:20:08 PM		
Supervise By	Mahesh Dadoda	Supervise On	4/10/2025 7:21:16 PM		
SubDirectory	VL040925	HP Acquire Method	TO15AIR.M	HP Processing Method	VL032725AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2591			
Initial Calibration Stds		AP2593,AP2595,AP2596			
CCC		AP2593			
Internal Standard/PEM		AP2591			
ICV/I.BLK		AP2594			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042285.D	09 Apr 2025 09:38	SY/MD	Ok
2	VSTDCCC010	VL042286.D	09 Apr 2025 10:20	SY/MD	Ok,M
3	VL0409ABL01	VL042287.D	09 Apr 2025 11:03	SY/MD	Ok
4	VL0409ABS01	VL042288.D	09 Apr 2025 11:46	SY/MD	Not Ok
5	VL0409ABS02	VL042289.D	09 Apr 2025 12:31	SY/MD	Ok,M
6	Q1665-01	VL042290.D	09 Apr 2025 13:25	SY/MD	Ok,M
7	Q1665-01DUP	VL042291.D	09 Apr 2025 14:02	SY/MD	Ok,M
8	Q1665-04	VL042292.D	09 Apr 2025 14:36	SY/MD	Ok,M
9	Q1665-06	VL042293.D	09 Apr 2025 15:15	SY/MD	Ok,M
10	Q1665-08	VL042294.D	09 Apr 2025 15:50	SY/MD	Ok,M
11	Q1665-09	VL042295.D	09 Apr 2025 16:23	SY/MD	Ok,M
12	Q1665-20	VL042296.D	09 Apr 2025 16:57	SY/MD	Ok,M
13	Q1757-02	VL042297.D	09 Apr 2025 17:31	SY/MD	Ok,M
14	Q1757-01	VL042298.D	10 Apr 2025 07:54	SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL041125

Review By	Semsettin Yesilyurt	Review On	4/16/2025 9:18:47 PM		
Supervise By	Maresh Dadoda	Supervise On	4/17/2025 1:40:37 PM		
SubDirectory	VL041125	HP Acquire Method	TO15AIR.M	HP Processing Method	VL032725AIR.M
STD. NAME	STD REF.#				
Tune/Reschk	AP2591				
Initial Calibration Stds	AP2593,AP2595,AP2596				
CCC	AP2593				
Internal Standard/PEM	AP2591				
ICV/I.BLK	AP2594				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042311.D	11 Apr 2025 08:18	SY/MD	Ok
2	VSTDCCC010	VL042312.D	11 Apr 2025 09:50	SY/MD	Ok,M
3	VL0411ABL01	VL042313.D	11 Apr 2025 10:36	SY/MD	Ok
4	VL0411ABS01	VL042314.D	11 Apr 2025 11:23	SY/MD	Ok,M
5	QC041025CAN 10596	VL042315.D	11 Apr 2025 12:08	SY/MD	Not Ok
6	QC041025CAN 10596	VL042316.D	11 Apr 2025 12:40	SY/MD	Ok
7	Q1665-03	VL042317.D	11 Apr 2025 13:15	SY/MD	Dilution
8	Q1665-03DUP	VL042318.D	11 Apr 2025 13:52	SY/MD	Ok,M
9	Q1665-10	VL042319.D	11 Apr 2025 14:27	SY/MD	Dilution
10	Q1665-11	VL042320.D	11 Apr 2025 15:01	SY/MD	Dilution
11	Q1665-18	VL042321.D	11 Apr 2025 15:36	SY/MD	Dilution
12	Q1665-03DL	VL042322.D	11 Apr 2025 16:08	SY/MD	Ok
13	Q1665-10DL	VL042323.D	11 Apr 2025 16:39	SY/MD	Dilution
14	Q1665-11DL	VL042324.D	11 Apr 2025 17:10	SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL041525

Review By	Semsettin Yesilyurt	Review On	4/16/2025 2:19:24 PM		
Supervise By	Maresh Dadoda	Supervise On	4/16/2025 3:47:46 PM		
SubDirectory	VL041525	HP Acquire Method	TO15AIR.M	HP Processing Method	VL032725AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2591			
Initial Calibration Stds		AP2593,AP2595,AP2596			
CCC		AP2593			
Internal Standard/PEM		AP2591			
ICV/I.BLK		AP2594			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042325.D	15 Apr 2025 07:45	SY/MD	Ok
2	VSTDCCC010	VL042326.D	15 Apr 2025 11:30	SY/MD	Ok,M
3	VL0415ABL01	VL042327.D	15 Apr 2025 12:12	SY/MD	Ok
4	VL0415ABS01	VL042328.D	15 Apr 2025 12:54	SY/MD	Ok,M
5	QC041425 CAN 10401	VL042329.D	15 Apr 2025 13:26	SY/MD	Not Ok
6	QC041425 CAN 10401	VL042330.D	15 Apr 2025 13:57	SY/MD	Ok
7	Q1665-18DL	VL042331.D	15 Apr 2025 14:29	SY/MD	Ok
8	Q1665-10DL2	VL042332.D	15 Apr 2025 15:01	SY/MD	Ok,M
9	Q1802-02	VL042333.D	15 Apr 2025 15:35	SY/MD	Ok,M
10	Q1802-02DUP	VL042334.D	15 Apr 2025 16:08	SY/MD	Ok,M
11	Q1802-03	VL042335.D	15 Apr 2025 16:42	SY/MD	Ok,M
12	Q1802-01	VL042336.D	15 Apr 2025 17:14	SY/MD	Dilution
13	Q1802-01DL	VL042337.D	15 Apr 2025 17:46	SY/MD	Not Ok
14	Q1802-01DL	VL042338.D	15 Apr 2025 18:21	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	Mahesh Dadoda	Supervise On	4/18/2025 10:46:12 PM		
SubDirectory	VL041725	HP Acquire Method	TO15AIR.M	HP Processing Method	VL041725AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2590			
Initial Calibration Stds		AP2598,AP2599,AP2600			
CCC		AP2598			
Internal Standard/PEM		AP2590			
ICV/I.BLK		AP2601			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

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 # VL032725

Review By	Mahesh 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#	Sampleld	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL042171.D	27 Mar 2025 07:44		SY/MD	Ok
2	VSTDICCC010	VSTDICCC010	VL042172.D	27 Mar 2025 08:26		SY/MD	Ok,M
3	VSTDICC002	VSTDICC002	VL042173.D	27 Mar 2025 08:59		SY/MD	Ok,M
4	VSTDICC001	VSTDICC001	VL042174.D	27 Mar 2025 09:30		SY/MD	Ok,M
5	VSTDICC0.5	VSTDICC0.5	VL042175.D	27 Mar 2025 10:01		SY/MD	Ok,M
6	VSTDICC0.1	VSTDICC0.1	VL042176.D	27 Mar 2025 10:32		SY/MD	Ok,M
7	VSTDICC0.03	VSTDICC0.03	VL042177.D	27 Mar 2025 11:03		SY/MD	Ok,M
8	VSTDICC015	VSTDICC015	VL042178.D	27 Mar 2025 11:36		SY/MD	Ok,M
9	VSTDICV010	ICVVL032725	VL042179.D	27 Mar 2025 12:23		SY/MD	Ok,M
10	VL0327ABL01	VL0327ABL01	VL042180.D	27 Mar 2025 13:50		SY/MD	Ok
11	VL0327ABS01	VL0327ABS01	VL042181.D	27 Mar 2025 14:39		SY/MD	Ok,M
12	QC032625 CAN 10448	QC032625 CAN 10448	VL042182.D	27 Mar 2025 16:41		SY/MD	Ok
13	Q1649-01	SV1	VL042183.D	27 Mar 2025 17:13	rerun 4X,not required	SY/MD	Not Ok
14	Q1649-02	SV2	VL042184.D	27 Mar 2025 17:45	rerun 4X,not required	SY/MD	Not Ok
15	Q1669-01	IA-B9-3-3262025	VL042185.D	27 Mar 2025 18:22	Need 5x	SY/MD	Dilution
16	Q1669-02	IA-B9-2-3262025	VL042186.D	27 Mar 2025 18:59		SY/MD	Ok,M
17	Q1669-03	IA-B9-1-3262025	VL042187.D	27 Mar 2025 19:36		SY/MD	Ok,M
18	Q1669-04	AA-2-3252025	VL042188.D	27 Mar 2025 20:12		SY/MD	Ok,M

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL032725

Review By	Mahesh 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					

19	Q1669-09	AA-3-3252025	VL042189.D	27 Mar 2025 20:48		SY/MD	Ok,M
20	Q1669-09DUP	AA-3-3252025DUP	VL042190.D	27 Mar 2025 21:24		SY/MD	Ok,M
21	Q1669-05	SSSG-B16-3-3262025	VL042191.D	27 Mar 2025 21:57	Need straight run	SY/MD	Not Ok
22	Q1669-07DL	SSSG-B16-1-3262025	VL042192.D	27 Mar 2025 22:29		SY/MD	Ok,M
23	Q1669-08	SSSG-B16-2-3262025	VL042193.D	27 Mar 2025 23:01	Need straight run	SY/MD	Not Ok
24	VIBLK	VIBLK	VL042194.D	27 Mar 2025 23:34		SY/MD	Ok
25	Q1669-01DL	IA-B9-3-3262025DL	VL042195.D	28 Mar 2025 00:06		SY/MD	Ok,M
26	Q1669-01DUP	IA-B9-3-3262025DUP	VL042196.D	28 Mar 2025 00:44		SY/MD	Ok,M
27	Q1669-05	SSSG-B16-3-3262025	VL042197.D	28 Mar 2025 01:20		SY/MD	Ok,M
28	Q1669-07	SSSG-B16-1-3262025	VL042198.D	28 Mar 2025 01:57	Need 10X	SY/MD	Dilution
29	Q1669-08	SSSG-B16-2-3262025	VL042199.D	28 Mar 2025 02:33		SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL040925

Review By	Semsettin Yesilyurt	Review On	4/10/2025 7:20:08 PM
Supervise By	Mahesh Dadoda	Supervise On	4/10/2025 7:21:16 PM
SubDirectory	VL040925	HP Acquire Method	TO15AIR.M
		HP Processing Method	VL032725AIR.M
STD. NAME	STD REF.#		
Tune/Reschk	AP2591		
Initial Calibration Stds	AP2593,AP2595,AP2596		
CCC	AP2593		
Internal Standard/PEM	AP2591		
ICV/I.BLK	AP2594		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL042285.D	09 Apr 2025 09:38		SY/MD	Ok
2	VSTDCCC010	VSTDCCC010	VL042286.D	09 Apr 2025 10:20		SY/MD	Ok,M
3	VL0409ABL01	VL0409ABL01	VL042287.D	09 Apr 2025 11:03		SY/MD	Ok
4	VL0409ABS01	VL0409ABS01	VL042288.D	09 Apr 2025 11:46	Recovery fail	SY/MD	Not Ok
5	VL0409ABS02	VL0409ABS02	VL042289.D	09 Apr 2025 12:31		SY/MD	Ok,M
6	Q1665-01	AA-DUP-1-3242025	VL042290.D	09 Apr 2025 13:25		SY/MD	Ok,M
7	Q1665-01DUP	AA-DUP-1-3242025DU	VL042291.D	09 Apr 2025 14:02		SY/MD	Ok,M
8	Q1665-04	AA-1-3242025	VL042292.D	09 Apr 2025 14:36		SY/MD	Ok,M
9	Q1665-06	IA-B9-1-3242025	VL042293.D	09 Apr 2025 15:15		SY/MD	Ok,M
10	Q1665-08	IA-DUP-2-3242025	VL042294.D	09 Apr 2025 15:50		SY/MD	Ok,M
11	Q1665-09	IA-B9-2-3242025	VL042295.D	09 Apr 2025 16:23		SY/MD	Ok,M
12	Q1665-20	IA-B9-3-3242025	VL042296.D	09 Apr 2025 16:57		SY/MD	Ok,M
13	Q1757-02	IA1	VL042297.D	09 Apr 2025 17:31		SY/MD	Ok,M
14	Q1757-01	SV1	VL042298.D	10 Apr 2025 07:54		SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL041125

Review By	Semsettin Yesilyurt	Review On	4/16/2025 9:18:47 PM
Supervise By	Maresh Dadoda	Supervise On	4/17/2025 1:40:37 PM
SubDirectory	VL041125	HP Acquire Method	TO15AIR.M
		HP Processing Method	VL032725AIR.M
STD. NAME	STD REF.#		
Tune/Reschk	AP2591		
Initial Calibration Stds	AP2593,AP2595,AP2596		
CCC	AP2593		
Internal Standard/PEM	AP2591		
ICV/I.BLK	AP2594		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL042311.D	11 Apr 2025 08:18		SY/MD	Ok
2	VSTDCCC010	VSTDCCC010	VL042312.D	11 Apr 2025 09:50		SY/MD	Ok,M
3	VL0411ABL01	VL0411ABL01	VL042313.D	11 Apr 2025 10:36		SY/MD	Ok
4	VL0411ABS01	VL0411ABS01	VL042314.D	11 Apr 2025 11:23		SY/MD	Ok,M
5	QC041025CAN 10596	QC041025CAN 10596	VL042315.D	11 Apr 2025 12:08	Contaminated	SY/MD	Not Ok
6	QC041025CAN 10596	QC041025CAN 10596	VL042316.D	11 Apr 2025 12:40		SY/MD	Ok
7	Q1665-03	IA-B10-2-3242025	VL042317.D	11 Apr 2025 13:15	Need 10X	SY/MD	Dilution
8	Q1665-03DUP	IA-B10-2-3242025DUP	VL042318.D	11 Apr 2025 13:52		SY/MD	Ok,M
9	Q1665-10	IA-B10-4-3242025	VL042319.D	11 Apr 2025 14:27	Need 40X	SY/MD	Dilution
10	Q1665-11	IA-B10-1-3242025	VL042320.D	11 Apr 2025 15:01	Need 10X	SY/MD	Dilution
11	Q1665-18	IA-B10-3-3242025	VL042321.D	11 Apr 2025 15:36	Need 10X	SY/MD	Dilution
12	Q1665-03DL	IA-B10-2-3242025DL	VL042322.D	11 Apr 2025 16:08		SY/MD	Ok
13	Q1665-10DL	IA-B10-4-3242025DL	VL042323.D	11 Apr 2025 16:39	Need 100X	SY/MD	Dilution
14	Q1665-11DL	IA-B10-1-3242025DL	VL042324.D	11 Apr 2025 17:10		SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL041525

Review By	Semsettin Yesilyurt	Review On	4/16/2025 2:19:24 PM
Supervise By	Mahesh Dadoda	Supervise On	4/16/2025 3:47:46 PM
SubDirectory	VL041525	HP Acquire Method	TO15AIR.M
		HP Processing Method	VL032725AIR.M
STD. NAME	STD REF.#		
Tune/Reschk	AP2591		
Initial Calibration Stds	AP2593,AP2595,AP2596		
CCC	AP2593		
Internal Standard/PEM	AP2591		
ICV/I.BLK	AP2594		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL042325.D	15 Apr 2025 07:45		SY/MD	Ok
2	VSTDCCC010	VSTDCCC010	VL042326.D	15 Apr 2025 11:30		SY/MD	Ok,M
3	VL0415ABL01	VL0415ABL01	VL042327.D	15 Apr 2025 12:12		SY/MD	Ok
4	VL0415ABS01	VL0415ABS01	VL042328.D	15 Apr 2025 12:54		SY/MD	Ok,M
5	QC041425 CAN 10401	QC041425 CAN 10401	VL042329.D	15 Apr 2025 13:26	carryover	SY/MD	Not Ok
6	QC041425 CAN 10401	QC041425 CAN 10401	VL042330.D	15 Apr 2025 13:57		SY/MD	Ok
7	Q1665-18DL	IA-B10-3-3242025DL	VL042331.D	15 Apr 2025 14:29		SY/MD	Ok
8	Q1665-10DL2	IA-B10-4-3242025DL2	VL042332.D	15 Apr 2025 15:01		SY/MD	Ok,M
9	Q1802-02	IA1	VL042333.D	15 Apr 2025 15:35		SY/MD	Ok,M
10	Q1802-02DUP	IA1DUP	VL042334.D	15 Apr 2025 16:08		SY/MD	Ok,M
11	Q1802-03	OA1	VL042335.D	15 Apr 2025 16:42		SY/MD	Ok,M
12	Q1802-01	SV1	VL042336.D	15 Apr 2025 17:14	Need 40X	SY/MD	Dilution
13	Q1802-01DL	SV1DL	VL042337.D	15 Apr 2025 17:46	Need further dilution	SY/MD	Not Ok
14	Q1802-01DL	SV1DL	VL042338.D	15 Apr 2025 18:21		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 further dilution	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 further dilution	SY/MD	Dilution
30	Q1726-02DL	IA-B2-6-03312025DL	VL042377.D	18 Apr 2025 02:01	Need further dilution	SY/MD	Dilution
31	Q1726-03DL	IA-B2-2-03312025DL	VL042378.D	18 Apr 2025 02:32	Need further dilution	SY/MD	Dilution
32	Q1726-04DL	IA-B2-5-03312025DL	VL042379.D	18 Apr 2025 03:03	Need further dilution	SY/MD	Dilution
33	Q1726-05DL	IA-B2-1-03312025DL	VL042380.D	18 Apr 2025 03:34	Need further dilution	SY/MD	Dilution
34	Q1726-06DL	IA-B2-3-03312025DL	VL042381.D	18 Apr 2025 04:05	Need further dilution	SY/MD	Dilution

M : Manual Integration

Prep Standard - Chemical Standard Summary

Order ID : Q1665

Test : TO-15

Prepbatch ID :

Sequence ID/Qc Batch ID: vl040925,VL041125,vl041525,vl041725,

Standard ID :

AP2590,AP2591,AP2593,AP2594,AP2595,AP2596,AP2598,AP2599,AP2600,AP2601,

Chemical ID :

A1117,A1135,A1136,A1137,

Air STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
47	Internal Standard/Surrogate Mix-80 ppbv	AP2590	03/21/2025	04/21/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
04/03/2025								

FROM 2.40000psi of A1135 + 27.60000psi of A1117 = Final Quantity: 30.000 psi

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
47	Internal Standard/Surrogate Mix-80 ppbv	AP2591	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

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	AP2593	03/21/2025	04/21/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
FROM 1455.00000SCCM of A1117 + 45.00000SCCM of A1136 = 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	AP2594	03/21/2025	04/21/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
FROM 1455.00000SCCM of A1117 + 45.00000SCCM of A1137 = 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	AP2595	03/25/2025	04/21/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
04/03/2025								

FROM 26.00000psi of A1117 + 4.00000psi of AP2593 = 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	AP2596	03/25/2025	04/21/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
04/03/2025								

FROM 29.00000psi of A1117 + 1.00000psi of AP2593 = 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	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

<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

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>
2668	0.5 PPBV CAL.MIX	AP2600	04/16/2025	05/17/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
04/18/2025								

FROM 29.00000psi of A1117 + 1.00000psi of AP2598 = Final Quantity: 30.000 psi

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2396	TO-15 15 PPBV CAL MIX	AP2601	04/16/2025	05/17/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
04/18/2025								

FROM 1455.00000SCCM of A1117 + 45.00000SCCM of A1137 = Final Quantity: 30.000 psi

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
AIR LIQUIDE	365A-49 / AIR, Compressed	90402401186-01	04/01/2026	04/01/2022 / apatel	04/01/2022 / SAM	A1117

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CUSTOMGAS Solutions	TB500009-110 / TO-15 Internal Standard/Surrogate Standard	BC275465	07/16/2025	07/22/2024 / SAM	07/22/2024 / SAM	A1135

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CUSTOMGAS Solutions	TO15-80-6R-07092 / TO-15 Modified (80 comp) in Nitrogen (addition of 2-methylnaphthalene)	040424-003A	07/16/2025	07/25/2024 / SAM	07/22/2024 / SAM	A1136

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CUSTOMGAS Solutions	TO15-80-6R-07092 / TO-15 Modified (80 comp) in Nitrogen (addition of 2-methylnaphthalene)	040424-003B	07/16/2025	07/25/2024 / SAM	07/22/2024 / SAM	A1137

CUSTOMGAS SOLUTIONS



1750 East Club Boulevard

Durham, NC 27704

Phone: (919) 220-2570

Fax: (919) 220-4540

Certificate of Analysis

Customer:

Chem Tech
284 Sheffield Street
Mountainside, NJ 07092

Tel: (908) 789-8900

Cylinder Number: BC275465
Cylinder Size/CGA: 170/180SS
Fill Pressure: 1815 PSIA
Gas Volume: ~170 liters
Date of Mfg: 07/16/2024
Expiration Date: 07/16/2025

Ship To : Chem Tech
284 Sheffield Street
Mountainside, NJ 07092

Customer Number	Ship VIA	Job No.	Customer PO	Mixture Type
00107092NJ	Best Way	040424-003	240404-10	Gravimetric

Component	Nominal Concentration	Actual Concentration*	Mixture Type
Bromochloromethane	1 ppm	1.014 ppm +/- 0.02 ppm	Gravimetric Master Gas
4-Bromofluorobenzene	1 ppm	1.008 ppm +/- 0.02 ppm	
Chlorobenzene-D5	1 ppm	0.993 ppm +/- 0.02 ppm	
1,4-Difluorobenzene	1 ppm	0.979 ppm +/- 0.02 ppm	
Nitrogen	balance	balance	

NOTES: Blend Tolerance: +/- 10 %

Analytical Tolerance: +/- 5 %

Traceability: NIST by weight set. NIST Traceability No MT001810.
Internal Standards by analysis

Reactive Mixtures: Analyzed twice with required agreement between analyses of 2%.
Required wait time between analyses of >7 days.

Caution: Do not use below 150 PSIG.

Analyst Name: Joseph A. Ernst

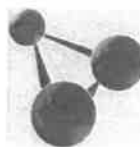
QA Signature: 

Signature: 

Date: 07/16/2024

*Every effort has been made to establish the actual concentration of the components using master gas blending technology however, Custom Gas Solutions shall have no liability in excess of the established charge for this material.

CUSTOMGAS SOLUTIONS



1750 East Club Boulevard
Durham, NC 27704
Phone: (919) 220-2570
Fax: (919) 220-4540

Certificate of Analysis

Customer:

ChemTech
284 Sheffield Street
Mountainside, NJ 07092

Cylinder Number: BC917782
Cylinder Size/CGA: 170/180
Fill Pressure: 1815 PSIA
Gas Volume: 110 liters
Date of Mfg: 07/16/2024
Expiration Date: 07/16/2025
Lot Number: 040424-003A

Ship To : Chemtech
284 Sheffield Street
Mountainside, NJ 07092

Customer Number	Ship VIA	Job No.	Customer PO	Mixture Type
00107092NJ	Best Way	040424-003	240404-10	Gravimetric

Component	Nominal Concentration	Actual Concentration*	Mixture Type
Acetone	500 ppb	517 ppb +/- 50 ppb	Gravimetric Master Gas
Acetonitrile	500 ppb	534 ppb +/- 50 ppb	
Acrolein	500 ppb	545 ppb +/- 50 ppb	
Acrylonitrile	500 ppb	539 ppb +/- 50 ppb	-
Allyl chloride	500 ppb	509 ppb +/- 50 ppb	
Benzene	500 ppb	483 ppb +/- 50 ppb	
Benzyl Chloride	500 ppb	489 ppb +/- 50 ppb	
Bromodichloromethane	500 ppb	509 ppb +/- 50 ppb	
Bromoform	500 ppb	495 ppb +/- 50 ppb	
1,3-Butadiene	500 ppb	504 ppb +/- 50 ppb	
tert-Butyl alcohol	500 ppb	532 ppb +/- 50 ppb	
n-Butyl benzene	500 ppb	529 ppb +/- 50 ppb	
sec-Butyl benzene	500 ppb	529 ppb +/- 50 ppb	
tert-Butyl benzene	500 ppb	529 ppb +/- 50 ppb	
Carbon disulfide	500 ppb	485 ppb +/- 50 ppb	
Carbon tetrachloride	500 ppb	506 ppb +/- 50 ppb	
Chlorobenzene	500 ppb	491 ppb +/- 50 ppb	
Chlorodibromomethane	500 ppb	488 ppb +/- 50 ppb	
Chloroform	500 ppb	492 ppb +/- 50 ppb	
2-Chlorotoluene	500 ppb	532 ppb +/- 50 ppb	
Cyclohexane	500 ppb	482 ppb +/- 50 ppb	
1,2-Dibromoethane	500 ppb	491 ppb +/- 50 ppb	
1,2-Dichlorobenzene	500 ppb	510 ppb +/- 50 ppb	
1,3-Dichlorobenzene	500 ppb	489 ppb +/- 50 ppb	
1,4-Dichlorobenzene	500 ppb	490 ppb +/- 50 ppb	
Dichlorodifluoromethane (R12)	500 ppb	508 ppb +/- 50 ppb	

1,1-Dichloroethane	500 ppb	492 ppb +/- 50 ppb	
1,2-Dichloroethane	500 ppb	497 ppb +/- 50 ppb	
1,1-Dichloroethylene	500 ppb	493 ppb +/- 50 ppb	
cis 1,2-Dichloroethylene	500 ppb	488 ppb +/- 50 ppb	
trans 1,2-Dichloroethylene	500 ppb	488 ppb +/- 50 ppb	
1,2-Dichloropropane	500 ppb	490 ppb +/- 50 ppb	
cis 1,3-Dichloropropylene	500 ppb	516 ppb +/- 50 ppb	
trans 1,3-Dichloropropylene	500 ppb	466 ppb +/- 50 ppb	
1,2-Dichlorotetrafluoroethane	500 ppb	505 ppb +/- 50 ppb	
1,4-Dioxane	500 ppb	484 ppb +/- 50 ppb	
Ethyl acetate	500 ppb	486 ppb +/- 50 ppb	
Ethyl Alcohol	500 ppb	555 ppb +/- 50 ppb	
Ethyl benzene	500 ppb	497 ppb +/- 50 ppb	
Ethyl Chloride	500 ppb	506 ppb +/- 50 ppb	
4-Ethyltoluene	500 ppb	485 ppb +/- 50 ppb	
n-Heptane	500 ppb	487 ppb +/- 50 ppb	
Hexachloro-1,3-butadiene	500 ppb	489 ppb +/- 50 ppb	
2-Hexanone	500 ppb	490 ppb +/- 50 ppb	
n-Hexane	500 ppb	485 ppb +/- 50 ppb	
Isopropyl alcohol	500 ppb	511 ppb +/- 50 ppb	
Isopropyl benzene	500 ppb	527 ppb +/- 50 ppb	
p-Isopropyl toluene	500 ppb	534 ppb +/- 50 ppb	
Methyl Bromide	500 ppb	505 ppb +/- 50 ppb	
Methyl Chloride	500 ppb	509 ppb +/- 50 ppb	
Methyl ethyl ketone	500 ppb	496 ppb +/- 50 ppb	
Methyl isobutyl ketone	500 ppb	493 ppb +/- 50 ppb	
Methyl methacrylate	500 ppb	532 ppb +/- 50 ppb	
Methyl tertiary butyl ether	500 ppb	483 ppb +/- 50 ppb	
Methylene chloride	500 ppb	498 ppb +/- 50 ppb	
Naphthalene	500 ppb	542 ppb +/- 50 ppb	
n-Propylbenzene	500 ppb	529 ppb +/- 50 ppb	
Propylene	500 ppb	508 ppb +/- 50 ppb	
Styrene	500 ppb	485 ppb +/- 50 ppb	
1,1,1,2-Tetrachloroethane	500 ppb	483 ppb +/- 50 ppb	
1,1,2,2-Tetrachloroethane	500 ppb	534 ppb +/- 50 ppb	
Tetrachloroethylene	500 ppb	487 ppb +/- 50 ppb	
Tetrahydrofuran	500 ppb	535 ppb +/- 50 ppb	
Toluene	500 ppb	491 ppb +/- 50 ppb	
1,2,4-Trichlorobenzene	500 ppb	494 ppb +/- 50 ppb	
1,1,1-Trichloroethane	500 ppb	494 ppb +/- 50 ppb	
1,1,2-Trichloroethane	500 ppb	494 ppb +/- 50 ppb	
Trichloroethylene	500 ppb	488 ppb +/- 50 ppb	
Trichlorofluoromethane	500 ppb	508 ppb +/- 50 ppb	
1,1,2-Trichlorotrifluoroethane	500 ppb	495 ppb +/- 50 ppb	
1,2,4-Trimethylbenzene	500 ppb	494 ppb +/- 50 ppb	
1,3,5-Trimethylbenzene	500 ppb	498 ppb +/- 50 ppb	
2,2,4-Trimethylpentane	500 ppb	489 ppb +/- 50 ppb	
Vinyl acetate	500 ppb	499 ppb +/- 50 ppb	
Vinyl bromide	500 ppb	505 ppb +/- 50 ppb	
Vinyl chloride	500 ppb	507 ppb +/- 50 ppb	
m-Xylene	500 ppb	492 ppb +/- 50 ppb	
o-Xylene	500 ppb	480 ppb +/- 50 ppb	
p-Xylene	500 ppb	486 ppb +/- 50 ppb	
2-Methyl Naphthalene	500 ppb	498 ppb +/- 50 ppb	
R-22	500 ppb	590 ppb +/- 50 ppb	
Nitrogen	balance	balance	

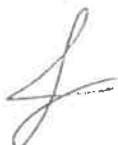
NOTES: Blend Tolerance: +/- 20 %
Analytical Tolerance: +/- 10 %
Traceability: NIST by weight set. NIST Traceability No MT001810.
Internal Standards by analysis
Reactive Mixtures: Analyzed twice with required agreement between analyses of 2%.
Required wait time between analyses of >7 days.
Caution: Do not use below 150 PSIG.

Analyst Name: Joseph A. Ernst

QA Signature: 

Signature:

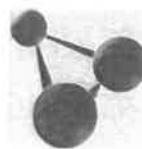
Date: 07/16/2024



*Every effort has been made to establish the actual concentration of the components using master gas blending technology however, Custom Gas Solutions shall have no liability in excess of the established charge for this material.

CUSTOMGAS

SOLUTIONS



1750 East Club Boulevard
Durham, NC 27704
Phone: (919) 220-2570
Fax: (919) 220-4540

Certificate of Analysis

Customer:

ChemTech
284 Sheffield Street
Mountainside, NJ 07092

Cylinder Number: BC169552
Cylinder Size/CGA: 170/180
Fill Pressure: 1815 PSIA
Gas Volume: 110 liters
Date of Mfg: 07/16/2024
Expiration Date: 07/16/2025
Lot Number: 040424-003B

Ship To : Chemtech
284 Sheffield Street
Mountainside, NJ 07092

Customer Number	Ship VIA	Job No.	Customer PO	Mixture Type
00107092NJ	Best Way	040424-003	240404-10	Gravimetric

Component	Nominal Concentration	Actual Concentration*	Mixture Type
Acetone	500 ppb	502 ppb +/- 50 ppb	Gravimetric Master Gas
Acetonitrile	500 ppb	530 ppb +/- 50 ppb	
Acrolein	500 ppb	540 ppb +/- 50 ppb	
Acrylonitrile	500 ppb	535 ppb +/- 50 ppb	
Allyl chloride	500 ppb	494 ppb +/- 50 ppb	
Benzene	500 ppb	470 ppb +/- 50 ppb	
Benzyl Chloride	500 ppb	476 ppb +/- 50 ppb	
Bromodichloromethane	500 ppb	495 ppb +/- 50 ppb	
Bromoform	500 ppb	481 ppb +/- 50 ppb	
1,3-Butadiene	500 ppb	490 ppb +/- 50 ppb	
tert-Butyl alcohol	500 ppb	527 ppb +/- 50 ppb	
n-Butyl benzene	500 ppb	525 ppb +/- 50 ppb	
sec-Butyl benzene	500 ppb	525 ppb +/- 50 ppb	
tert-Butyl benzene	500 ppb	525 ppb +/- 50 ppb	
Carbon disulfide	500 ppb	471 ppb +/- 50 ppb	
Carbon tetrachloride	500 ppb	492 ppb +/- 50 ppb	
Chlorobenzene	500 ppb	478 ppb +/- 50 ppb	
Chlorodibromomethane	500 ppb	474 ppb +/- 50 ppb	
Chloroform	500 ppb	478 ppb +/- 50 ppb	
2-Chlorotoluene	500 ppb	527 ppb +/- 50 ppb	
Cyclohexane	500 ppb	469 ppb +/- 50 ppb	
1,2-Dibromoethane	500 ppb	477 ppb +/- 50 ppb	
1,2-Dichlorobenzene	500 ppb	495 ppb +/- 50 ppb	
1,3-Dichlorobenzene	500 ppb	475 ppb +/- 50 ppb	
1,4-Dichlorobenzene	500 ppb	476 ppb +/- 50 ppb	
Dichlorodifluoromethane (R12)	500 ppb	494 ppb +/- 50 ppb	

1,1-Dichloroethane	500 ppb	478 ppb +/- 50 ppb	
1,2-Dichloroethane	500 ppb	483 ppb +/- 50 ppb	
1,1-Dichloroethylene	500 ppb	479 ppb +/- 50 ppb	
cis 1,2-Dichloroethylene	500 ppb	475 ppb +/- 50 ppb	
trans 1,2-Dichloroethylene	500 ppb	475 ppb +/- 50 ppb	
1,2-Dichloropropane	500 ppb	476 ppb +/- 50 ppb	
cis 1,3-Dichloropropylene	500 ppb	501 ppb +/- 50 ppb	
trans 1,3-Dichloropropylene	500 ppb	466 ppb +/- 50 ppb	
1,2-Dichlorotetrafluoroethane	500 ppb	491 ppb +/- 50 ppb	
1,4-Dioxane	500 ppb	470 ppb +/- 50 ppb	
Ethyl acetate	500 ppb	472 ppb +/- 50 ppb	
Ethyl Alcohol	500 ppb	550 ppb +/- 50 ppb	
Ethyl benzene	500 ppb	483 ppb +/- 50 ppb	
Ethyl Chloride	500 ppb	492 ppb +/- 50 ppb	
4-Ethyltoluene	500 ppb	472 ppb +/- 50 ppb	
n-Heptane	500 ppb	473 ppb +/- 50 ppb	
Hexachloro-1,3-butadiene	500 ppb	475 ppb +/- 50 ppb	
2-Hexanone	500 ppb	477 ppb +/- 50 ppb	
n-Hexane	500 ppb	471 ppb +/- 50 ppb	
Isopropyl alcohol	500 ppb	497 ppb +/- 50 ppb	
Isopropyl benzene	500 ppb	522 ppb +/- 50 ppb	
p-Isopropyl toluene	500 ppb	530 ppb +/- 50 ppb	
Methyl Bromide	500 ppb	491 ppb +/- 50 ppb	
Methyl Chloride	500 ppb	494 ppb +/- 50 ppb	
Methyl ethyl ketone	500 ppb	482 ppb +/- 50 ppb	
Methyl isobutyl ketone	500 ppb	479 ppb +/- 50 ppb	
Methyl methacrylate	500 ppb	527 ppb +/- 50 ppb	
Methyl tertiary butyl ether	500 ppb	470 ppb +/- 50 ppb	
Methylene chloride	500 ppb	484 ppb +/- 50 ppb	
Naphthalene	500 ppb	537 ppb +/- 50 ppb	
n-Propylbenzene	500 ppb	525 ppb +/- 50 ppb	
Propylene	500 ppb	494 ppb +/- 50 ppb	
Styrene	500 ppb	472 ppb +/- 50 ppb	
1,1,1,2-Tetrachloroethane	500 ppb	530 ppb +/- 50 ppb	
1,1,2,2-Tetrachloroethane	500 ppb	470 ppb +/- 50 ppb	
Tetrachloroethylene	500 ppb	473 ppb +/- 50 ppb	
Tetrahydrofuran	500 ppb	520 ppb +/- 50 ppb	
Toluene	500 ppb	477 ppb +/- 50 ppb	
1,2,4-Trichlorobenzene	500 ppb	480 ppb +/- 50 ppb	
1,1,1-Trichloroethane	500 ppb	480 ppb +/- 50 ppb	
1,1,2-Trichloroethane	500 ppb	481 ppb +/- 50 ppb	
Trichloroethylene	500 ppb	474 ppb +/- 50 ppb	
Trichlorofluoromethane	500 ppb	494 ppb +/- 50 ppb	
1,1,2-Trichlorotrifluoroethane	500 ppb	481 ppb +/- 50 ppb	
1,2,4-Trimethylbenzene	500 ppb	480 ppb +/- 50 ppb	
1,3,5-Trimethylbenzene	500 ppb	484 ppb +/- 50 ppb	
2,2,4-Trimethylpentane	500 ppb	475 ppb +/- 50 ppb	
Vinyl acetate	500 ppb	485 ppb +/- 50 ppb	
Vinyl bromide	500 ppb	491 ppb +/- 50 ppb	
Vinyl chloride	500 ppb	493 ppb +/- 50 ppb	
m-Xylene	500 ppb	479 ppb +/- 50 ppb	
o-Xylene	500 ppb	466 ppb +/- 50 ppb	
p-Xylene	500 ppb	473 ppb +/- 50 ppb	
2-Methyl Naphthalene	500 ppb	497 ppb +/- 50 ppb	
R-22	500 ppb	589 ppb +/- 50 ppb	
Nitrogen	balance	balance	

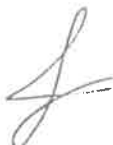
NOTES: Blend Tolerance: +/- 20 %
Analytical Tolerance: +/- 10 %
Traceability: NIST by weight set. NIST Traceability No MT001810.
Internal Standards by analysis
Reactive Mixtures: Analyzed twice with required agreement between analyses of 2%.
Required wait time between analyses of >7 days.
Caution: Do not use below 150 PSIG.

Analyst Name: Joseph A. Ernst

QA Signature: 

Signature:

Date: 07/16/2024



*Every effort has been made to establish the actual concentration of the components using master gas blending technology however, Custom Gas Solutions shall have no liability in excess of the established charge for this material.

Process Report

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

Order ID : Q1665

Date	Bottle ID	Lab Sample Number	InComing Vacuum	Canister ID	Can Size	Reg ID	Reg Size	Batch Code	Certification ID
03/31/2025	B2502051	Q1665-17	-6.7	10294	6 L	10505		C2502003	VL042078.D Seq :VL030325 TUNE : VL042074.D ICAL : VL042046.D CCAL : VL042075.D MB : VL042076.D
03/31/2025	B2502051	Q1665-05	-8.0	10281	6 L	10552		C2502002	VL042052.D Seq :vl022625 TUNE : VL042049.D ICAL : VL042046.D CCAL : VL042050.D MB : VL042051.D
03/31/2025	B2502051	Q1665-14	-7.1	10275	6 L	10482		C2502003	VL042078.D Seq :VL030325 TUNE : VL042074.D ICAL : VL042046.D CCAL : VL042075.D MB : VL042076.D
03/31/2025	B2502051	Q1665-12	-13.7	10271	6 L	10222		C2502002	VL042052.D Seq :vl022625 TUNE : VL042049.D ICAL : VL042046.D CCAL : VL042050.D MB : VL042051.D
03/31/2025	B2502051	Q1665-04	-7.1	10268	6 L	10101		C2501003	VL041954.D Seq :VL012725 TUNE : VL041943.D ICAL : VL041894.D CCAL : VL041944.D MB : VL041946.D
03/31/2025	B2502051	Q1665-15	-6.3	10266	6 L	10696		C2503003	VL042145.D Seq VL031425 TUNE VL042140.D ICAL VL042041.D CCAL VL042141.D MB VL042142.D
03/31/2025	B2502051	Q1665-06	-12.0	10198	6 L	10204		C2502002	VL042052.D Seq :vl022625 TUNE : VL042049.D ICAL : VL042046.D CCAL : VL042050.D MB : VL042051.D

Process Report

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

Order ID : Q1665

Date	Bottle ID	Lab Sample Number	InComing Vacuum	Canister ID	Can Size	Reg ID	Reg Size	Batch Code	Certification ID
03/31/2025	B2502051	Q1665-19	-8.0	10331	6 L	10206		C2502003	VL042078.D Seq : VL030325 TUNE : VL042074.D ICAL : VL042046.D CCAL : VL042075.D MB : VL042076.D
03/31/2025	B2502051	Q1665-21	-7.5	10332	6 L	10236		C2502002	VL042052.D Seq : vl022625 TUNE : VL042049.D ICAL : VL042046.D CCAL : VL042050.D MB : VL042051.D
03/31/2025	B2502051	Q1665-16	-8.0	10608	6 L	10240		C2502001	VL041974.D Seq : vl020325 TUNE : VL041957.D ICAL : VL041894.D CCAL : VL041958.D MB : VL041960.D
03/31/2025	B2502051	Q1665-09	-5.5	10599	6 L	10207		C2502001	VL041974.D Seq : vl020325 TUNE : VL041957.D ICAL : VL041894.D CCAL : VL041958.D MB : VL041960.D
03/31/2025	B2502051	Q1665-11	-6.3	10598	6 L	10515		C2502001	VL041974.D Seq : vl020325 TUNE : VL041957.D ICAL : VL041894.D CCAL : VL041958.D MB : VL041960.D
03/31/2025	B2502051	Q1665-20	-5.5	10595	6 L	10626		C2502002	VL042052.D Seq : vl022625 TUNE : VL042049.D ICAL : VL042046.D CCAL : VL042050.D MB : VL042051.D

Order ID : Q1665

Date	Bottle ID	Lab Sample Number	InComing Vacuum	Canister ID	Can Size	Reg ID	Reg Size	Batch Code	Certification ID
03/31/2025	B2502051	Q1665-07	-6.7	10592	6 L	10558		C2502002	VL042052.D Seq :vl022625 TUNE : VL042049.D ICAL : VL042046.D CCAL : VL042050.D MB : VL042051.D
03/31/2025	B2502051	Q1665-10	-7.1	10492	6 L	10172		C2503001	VL042143.D Seq :VL031425 TUNE : VL042140.D ICAL : VL042046.D CCAL : VL042141.D MB : VL042142.D
03/31/2025	B2502051	Q1665-02	-3.5	10443	6 L	10203		C2501001	VL041853.D Seq :vl010725 TUNE : VL041836.D ICAL : VL041843.D CCAL : VL041838.D MB : VL041846.D
03/31/2025	B2502051	Q1665-01	-8.8	10323	6 L	10478		C2502001	VL041974.D Seq :vl020325 TUNE : VL041957.D ICAL : VL041894.D CCAL : VL041958.D MB : VL041960.D
03/31/2025	B2502051	Q1665-13	-1.8	10315	6 L	10183		C2502003	VL042078.D Seq :VL030325 TUNE : VL042074.D ICAL : VL042046.D CCAL : VL042075.D MB : VL042076.D
03/31/2025	B2502051	Q1665-22	-7.1	10306	6 L	10713		C2502002	VL042052.D Seq :vl022625 TUNE : VL042049.D ICAL : VL042046.D CCAL : VL042050.D MB : VL042051.D
03/31/2025	B2502051	Q1665-18	-8.0	10297	6 L	10190		C2502001	VL041974.D Seq :vl020325 TUNE : VL041957.D ICAL : VL041894.D CCAL : VL041958.D MB : VL041960.D

Process Report

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

Order ID : Q1665

Date	Bottle ID	Lab Sample Number	InComing Vacuum	Canister ID	Can Size	Reg ID	Reg Size	Batch Code	Certification ID
03/31/2025	B2502051	Q1665-03	-8.4	10154	6 L	10476		C2502001	VL041974.D Seq :vl020325 TUNE : VL041957.D ICAL : VL041894.D CCAL : VL041958.D MB : VL041960.D
03/31/2025	B2502051	Q1665-08	-7.5	10053	6 L	10168		C2502001	VL041974.D Seq :vl020325 TUNE : VL041957.D ICAL : VL041894.D CCAL : VL041958.D MB : VL041960.D



Canister Cleaning

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

Canister Batch : C2502001

Type of Canister : 6 L

Cleaning Date : 02/03/2025

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
10323	-30	02/04/2025	02/04/2025	-30	02/05/2025	Q1665-01	10599	VL041974.D
10607	-30	02/04/2025	02/04/2025	-30	02/05/2025	Q1669-05	10599	VL041974.D
10599	-30	02/04/2025	02/04/2025	-30	02/05/2025	Q1665-09	10599	VL041974.D
10053	-30	02/04/2025	02/04/2025	-30	02/05/2025	Q1665-08	10599	VL041974.D
10598	-30	02/04/2025	02/04/2025	-30	02/05/2025	Q1665-11	10599	VL041974.D
10154	-30	02/04/2025	02/04/2025	-30	02/05/2025	Q1665-03	10599	VL041974.D
10297	-30	02/04/2025	02/04/2025	-30	02/05/2025	Q1665-18	10599	VL041974.D
10608	-30	02/04/2025	02/04/2025	-30	02/05/2025	Q1665-16	10599	VL041974.D



Canister Cleaning

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

Canister Batch : C2501003

Type of Canister : 6 L

Cleaning Date : 01/21/2025

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
10410	-30	01/22/2025	01/27/2025	-30	01/23/2025	Q1533-03	10268	VL041954.D
10303	-30	01/22/2025	01/27/2025	-30	01/23/2025	Q1532-01	10268	VL041954.D
10266	-30	01/22/2025	01/27/2025	-30	01/23/2025	Q1533-04	10268	VL041954.D
10268	-30	01/22/2025	01/27/2025	-30	01/23/2025	Q1665-04	10268	VL041954.D
10197	-30	01/22/2025	01/27/2025	-30	01/23/2025	Q1483-06	10268	VL041954.D
10258	-30	01/22/2025	01/27/2025	-30	01/23/2025	Q1649-01	10268	VL041954.D
10024	-30	01/22/2025	01/27/2025	-30	01/23/2025	Q1483-05	10268	VL041954.D
10153	-30	01/22/2025	01/27/2025	-30	01/23/2025	Q1533-05	10268	VL041954.D



Canister Cleaning

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

Canister Batch : C2502002

Type of Canister : 6 L

Cleaning Date : 02/17/2025

Analyst : SAM

Oven Temperature : 125.0 c

Canister	Vaccum After Cleaning ("Hg)	Vaccum After Cleaning Date	Analysis Date	VAC 24Hr ("Hg)	Vaccum After 24hr Date	New Sample Number	QC Canister	File
10281	-30	02/18/2025	02/26/2025	-30	02/19/2025	Q1665-05	10271	VL042052.D
10592	-30	02/18/2025	02/26/2025	-30	02/19/2025	Q1665-07	10271	VL042052.D
10306	-30	02/18/2025	02/26/2025	-30	02/19/2025	Q1665-22	10271	VL042052.D
10595	-30	02/18/2025	02/26/2025	-30	02/19/2025	Q1665-20	10271	VL042052.D
10198	-30	02/18/2025	02/26/2025	-30	02/19/2025	Q1665-06	10271	VL042052.D
10332	-30	02/18/2025	02/26/2025	-30	02/19/2025	Q1665-21	10271	VL042052.D
10269	-30	02/18/2025	02/26/2025	-30	02/19/2025	Q1668-02	10271	VL042052.D
10271	-30	02/18/2025	02/26/2025	-30	02/19/2025	Q1665-12	10271	VL042052.D

Canister 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 Batch : C2503003

Type of Canister : 6 L

Cleaning Date : 03/13/2025

Analyst : SAM

Oven Temperature : 125.0 c

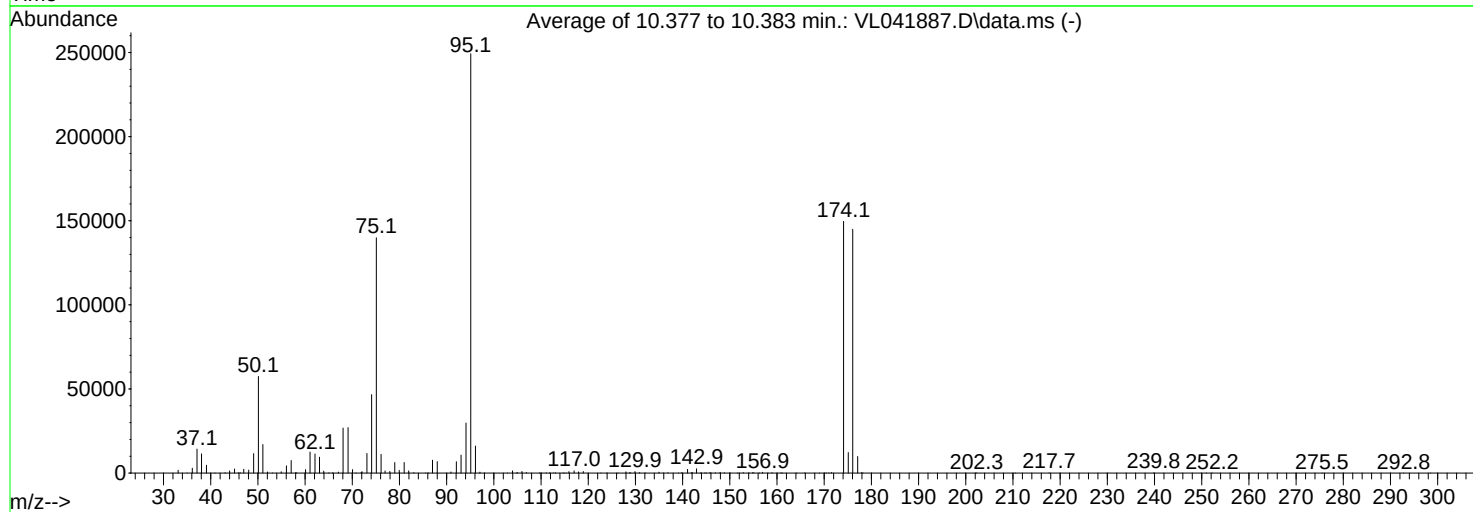
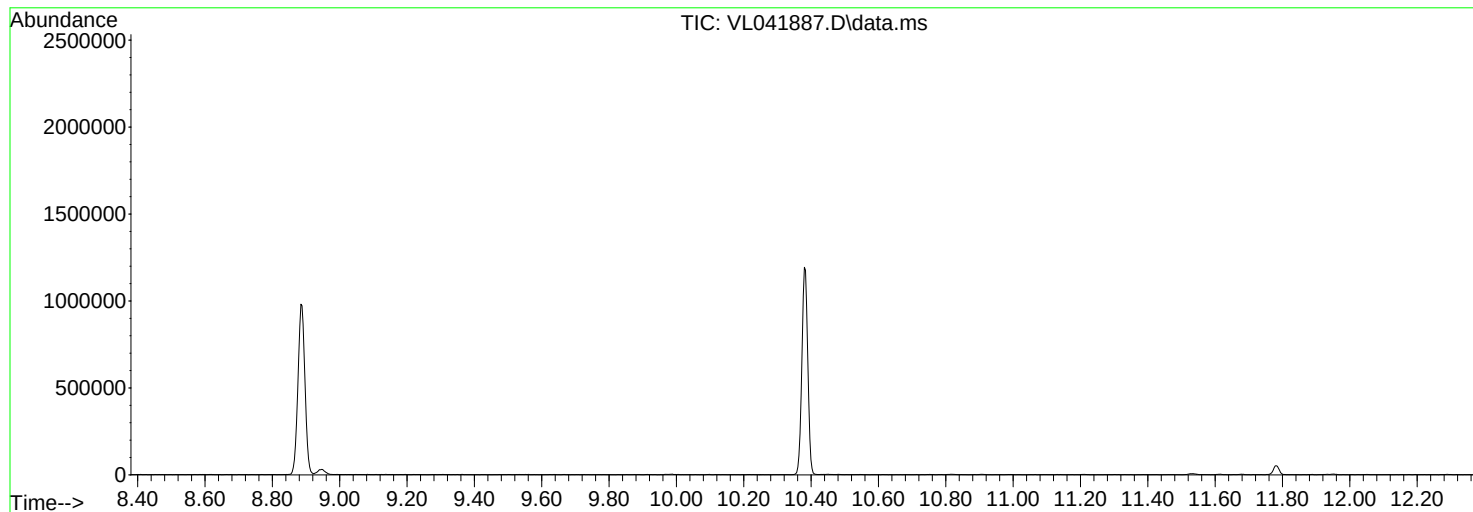
Canister	Vaccum After Cleaning ("Hg)	Vaccum After Cleaning Date	Analysis Date	VAC 24Hr ("Hg)	Vaccum After 24hr Date	New Sample Number	QC Canister	File
10153	-30	03/14/2025	03/14/2025	-30	03/17/2025	Q1725-01	10266	VL042145.D
10321	-30	03/14/2025	03/14/2025	-30	03/17/2025	Q1725-02	10266	VL042145.D
10329	-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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041887.D
Acq On : 14 Jan 2025 07:50
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Tue Jan 14 23:15:42 2025



AutoFind: Scans 3179, 3180, 3181; Background Corrected with Scan 3165

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	23.0	57448	PASS
75	95	30	66	56.1	139893	PASS
95	95	100	100	100.0	249280	PASS
96	95	5	9	6.5	16102	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	60.0	149632	PASS
175	174	4	9	8.2	12223	PASS
176	174	93	101	96.8	144917	PASS
177	176	5	9	6.8	9838	PASS

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\

Method File : VL011425AIR.M

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

Last Update : Tue Jan 14 23:15:42 2025

Response Via : Initial Calibration

Calibration Files

0.03=VL041894.D 0.1 =VL041893.D 0.5 =VL041892.D 1 =VL041891.D 2 =VL041890.D 10 =VL041889.D 15 =VL041895.D

Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD

1) I Bromochloromethane	-----ISTD-----								
2) T Dichlorodifluo...			1.450	1.406	1.359	1.300	1.295	1.362	4.93
3) Chlorodifluoro...			1.448	1.547	1.466	1.330	1.343	1.427	6.34
4) Chloromethane			0.546	0.499	0.525	0.492	0.499	0.512	4.41
5) T Vinyl Chloride	0.504	0.578	0.561	0.531	0.502	0.466	0.491	0.519	7.62
6) T Bromomethane			0.253	0.274	0.248	0.229	0.233	0.247	7.30
7) Chloroethane			0.210	0.205	0.209	0.193	0.194	0.202	4.08
8) T Dichlorotetra...			1.282	1.198	1.225	1.095	1.151	1.190	5.99
9) T Propene			0.642	0.577	0.605	0.568	0.548	0.588	6.21
10) T Heptane			1.536	1.616	1.635	1.530	1.538	1.571	3.19
11) T Trichlorofluor...			1.488	1.417	1.435	1.335	1.410	1.417	3.87
12) T 1,1,2-Trichlor...			1.098	1.137	1.166	1.057	1.095	1.110	3.78
13) Ethanol			0.065	0.043	0.051	0.027	0.029	0.043#	36.98
14) T Bromoethene			0.420	0.445	0.403	0.371	0.393	0.407	6.93
15) T Acetone			1.405	1.301	1.256	0.991	1.051	1.201	14.50
16) T 1,3-Butadiene			0.552	0.589	0.545	0.494	0.515	0.539	6.74
17) tert-Butyl alc...			1.527	1.559	1.503	1.399	1.404	1.478	4.91
18) T 1,1-Dichloroet...			0.520	0.517	0.514	0.458	0.492	0.501	5.18
19) T Isopropyl Alcohol			0.864	0.731	0.714	0.621	0.631	0.712	13.77
20) T Methylene Chlo...			0.586	0.503	0.478	0.390	0.416	0.475	16.27
21) T Allyl Chloride			0.897	0.823	0.847	0.792	0.799	0.832	5.06
22) T trans-1,2-Dich...			0.549	0.583	0.595	0.540	0.556	0.565	4.13
23) T Vinyl Acetate			0.873	0.475	0.543	0.538	0.549	0.595	26.54
24) T 1,1-Dichloroet...			1.165	1.099	1.100	1.016	1.083	1.093	4.84
25) T Ethyl Acetate			3.219	3.352	3.399	3.094	3.131	3.239	4.13
26) T Hexane			1.265	1.249	1.388	1.261	1.242	1.281	4.71
27) T Carbon Disulfide			1.210	1.256	1.304	1.258	1.311	1.268	3.22
28) T Methyl tert-Bu...			1.043	1.187	1.007	0.774	0.885	0.979	16.08
29) T Chloroform			2.101	2.060	2.105	1.911	1.947	2.025	4.45
30) T Cyclohexane			1.037	1.193	1.145	1.082	1.098	1.111	5.41
31) T cis-1,2-Dichlo...			1.406	1.397	1.390	1.272	1.279	1.349	4.98
32) T 1,1,1-Trichlor...	1.937	1.841	1.942	2.010	1.956	1.905	1.973	1.938	2.76

33) I 1,4-Difluorobenzene	-----ISTD-----								
34) T 2-Butanone			0.649	0.646	0.679	0.602	0.605	0.636	5.13
35) T Carbon Tetrach...	0.605	0.608	0.584	0.616	0.657	0.649	0.677	0.628	5.32
36) T Benzene			0.926	0.949	0.949	0.882	0.879	0.917	3.78
37) T 1,2-Dichloroet...			0.539	0.516	0.517	0.493	0.510	0.515	3.23
38) T Trichloroethene	0.286	0.427	0.381	0.374	0.373	0.354	0.353	0.364	11.62
39) T 1,2-Dichloropr...			0.349	0.321	0.329	0.305	0.304	0.322	5.81

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\											
Method File : VL011425AIR.M											
40)	T	1,4-Dioxane			0.187	0.162	0.161	0.147	0.155	0.162	9.21
41)	T	Tetrahydrofuran			0.333	0.344	0.358	0.348	0.346	0.346	2.53
42)	T	Bromodichlorom...			0.700	0.659	0.703	0.684	0.707	0.691	2.84
43)		Methyl Methacr...			0.340	0.336	0.349	0.338	0.341	0.341	1.41
44)	T	2,2,4-Trimethy...			1.450	1.501	1.566	1.457	1.444	1.484	3.45
45)	T	t-1,3-Dichloro...			0.300	0.292	0.319	0.338	0.346	0.319	7.38
46)	T	cis-1,3-Dichlo...			0.371	0.391	0.439	0.446	0.447	0.419	8.43
47)	T	1,1,2-Trichlor...			0.340	0.345	0.350	0.333	0.336	0.341	2.06
48)	T	Dibromochlorom...			0.490	0.489	0.541	0.545	0.566	0.526	6.64
49)	T	Bromoform			0.379	0.394	0.439	0.460	0.488	0.432	10.53
50)	T	4-Methyl-2-Pen...			0.892	0.870	0.899	0.833	0.846	0.868	3.29
51)	T	2-Hexanone			0.622	0.640	0.739	0.652	0.683	0.667	6.91
52)	T	Tetrachloroethene	0.320	0.348	0.317	0.329	0.330	0.292	0.291	0.318	6.46
53)	T	Toluene			0.934	0.996	1.048	1.011	1.008	0.999	4.14
54)	T	1,2-Dibromoethane		0.440	0.488	0.468	0.494	0.454	0.470	0.469	4.32
-----ISTD-----											
55)	I	Chlorobenzene-d5									
56)		1,1,1,2-Tetrac...			0.502	0.514	0.510	0.481	0.488	0.499	2.86
57)	T	Chlorobenzene			0.986	0.968	0.977	0.848	0.832	0.922	8.18
58)	T	Ethyl Benzene			1.507	1.563	1.653	1.551	1.541	1.563	3.49
59)	T	m/p-Xylene			1.186	1.265	1.355	1.223	1.234	1.253	5.10
60)	T	o-Xylene			1.179	1.241	1.348	1.224	1.224	1.243	5.06
61)	T	Styrene			0.516	0.515	0.576	0.587	0.595	0.558	7.02
62)		Isopropylbenzene			1.927	1.925	2.066	1.854	1.848	1.924	4.56
63)	T	1,1,2,2-Tetrac...		0.756	0.816	0.845	0.858	0.751	0.741	0.795	6.52
64)		n-propylbenzene			0.481	0.495	0.521	0.469	0.464	0.486	4.78
65)		tert-Butylbenzene			1.746	1.782	1.919	1.675	1.645	1.753	6.12
66)	T	Benzyl Chloride			0.102	0.093	0.113	0.115	0.119	0.109	9.71
67)		sec-Butylbenzene			2.389	2.457	2.681	2.299	2.246	2.414	7.04
68)	S	1-Bromo-4-Fluo...	0.783	0.785	0.784	0.792	0.795	0.782	0.792	0.788	0.65
69)		p-Isopropyltol...			1.852	2.013	2.256	1.927	1.892	1.988	8.11
70)		n-Butylbenzene			1.867	2.048	2.206	1.898	1.840	1.972	7.80
71)		2-Chlorotoluene			1.394	1.410	1.537	1.389	1.385	1.423	4.54
72)	T	4-Ethyltoluene			1.442	1.447	1.610	1.466	1.472	1.487	4.67
73)	T	1,3,5-Trimethy...			1.222	1.360	1.448	1.263	1.275	1.313	6.88
74)	T	1,2,4-Trimethy...			1.359	1.456	1.607	1.346	1.344	1.422	7.97
75)	T	1,3-Dichlorobe...			0.881	0.884	0.903	0.776	0.771	0.843	7.61
76)	T	1,4-Dichlorobe...			0.830	0.859	0.889	0.769	0.777	0.825	6.29
77)	T	1,2-Dichlorobe...			0.863	0.902	0.909	0.757	0.745	0.835	9.43
78)	T	Hexachloro-1,3...			0.747	0.742	0.772	0.586	0.582	0.686	13.66
79)	T	Naphthalene		0.978	1.479	1.682	1.941	1.255	1.259	1.432	24.01
80)	T	Naphthalene,2-...			0.572	0.724	1.151	0.463	0.485	0.679	41.70
81)	T	1,2,4-Trichlor...			0.745	0.738	0.819	0.598	0.596	0.699	14.10

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041889.D
 Acq On : 14 Jan 2025 12:55
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025
 Supervised By : Mahesh Dadoda 01/15/2025

Quant Time: Jan 14 21:20:11 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

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

QLast Update : Tue Jan 14 16:31:18 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.797	49	152325	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	449256	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.894	117	400269	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.390	95	313194	9.934	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.300%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	197959	9.541	ppbv	100
3) Chlorodifluoromethane	1.479	51	202651	9.323	ppbv	100
4) Chloromethane	1.538	50	74977	9.608	ppbv	100
5) Vinyl Chloride	1.583	62	71006	8.984	ppbv	100
6) Bromomethane	1.674	94	34817	9.243	ppbv	100
7) Chloroethane	1.709	64	29349	9.544	ppbv	100
8) Dichlorotetrafluoroethane	1.557	85	166754	9.196	ppbv	100
9) Propene	1.486	41	86544	9.665	ppbv	100
10) Heptane	5.001	43	233062	9.738	ppbv	100
11) Trichlorofluoromethane	1.884	101	203374	9.423	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.146	101	160993	9.517	ppbv	100
13) Ethanol	1.725	45	4155	6.335	ppbv	98
14) Bromoethene	1.787	108	56447	9.114	ppbv	100
15) Acetone	1.842	43	151022	8.255	ppbv	100
16) 1,3-Butadiene	1.612	39	75244	9.163	ppbv	100
17) tert-Butyl alcohol	2.046	59	213109	9.464	ppbv	100
18) 1,1-Dichloroethene	2.039	96	69825	9.158	ppbv	100
19) Isopropyl Alcohol	1.890	45	94532	8.714	ppbv	100
20) Methylene Chloride	2.068	84	59427	8.219	ppbv	100
21) Allyl Chloride	2.101	41	120681	9.526	ppbv	100
22) trans-1,2-Dichloroethene	2.347	96	82326	9.568	ppbv	100
23) Vinyl Acetate	2.470	43	81885	10.281	ppbv	100
24) 1,1-Dichloroethane	2.418	63	154838	9.303	ppbv	100
25) Ethyl Acetate	2.845	43	471257	9.552	ppbv	100
26) Hexane	2.835	57	192009	9.841	ppbv	100
27) Carbon Disulfide	2.156	76	191567	9.921	ppbv	99
28) Methyl tert-Butyl Ether	2.450	73	117898	7.905	ppbv	100
29) Chloroform	2.858	83	291118	9.438	ppbv	100
30) Cyclohexane	3.868	84	164788	9.737	ppbv	100
31) cis-1,2-Dichloroethene	2.729	61	193774	9.432	ppbv	100
32) 1,1,1-Trichloroethane	3.379	97	290126	9.830	ppbv	100
34) 2-Butanone	2.567	43	270263	9.459	ppbv	100
35) Carbon Tetrachloride	3.777	117	291448	10.309	ppbv	100
36) Benzene	3.671	78	396344	9.619	ppbv	100
37) 1,2-Dichloroethane	3.230	62	221352	9.565	ppbv	100
38) Trichloroethene	4.564	130	159253	9.736	ppbv	100
39) 1,2-Dichloropropane	4.331	63	137090	9.484	ppbv	100
40) 1,4-Dioxane	4.606	88	66200	9.075	ppbv #	94
41) Tetrahydrofuran	3.065	42	156141	10.023	ppbv	100
42) Bromodichloromethane	4.509	83	307176	9.900	ppbv	100
43) Methyl Methacrylate	4.897	69	152001	9.930	ppbv	100
44) 2,2,4-Trimethylpentane	4.658	57	654395	9.819	ppbv	100
45) t-1,3-Dichloropropene	6.435	75	151920	10.603	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041889.D
 Acq On : 14 Jan 2025 12:55
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Quant Time: Jan 14 21:20:11 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Tue Jan 14 16:31:18 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025
 Supervised By : Mahesh Dadoda 01/15/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.622	75	200330	10.649	ppbv	100
47) 1,1,2-Trichloroethane	6.600	97	149634	9.766	ppbv	100
48) Dibromochloromethane	7.402	129	245066	10.368	ppbv	100
49) Bromoform	9.496	173	206751	10.649	ppbv	100
50) 4-Methyl-2-Pentanone	5.778	43	374267	9.615	ppbv	100
51) 2-Hexanone	7.454	43	292941	9.775	ppbv #	100
52) Tetrachloroethene	8.241	164	131334	9.193	ppbv	100
53) Toluene	6.952	91	454085	10.116	ppbv	100
54) 1,2-Dibromoethane	7.668	107	203859	9.679	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.940	131	192449	9.637	ppbv	99
57) Chlorobenzene	8.937	112	339570	9.197	ppbv	100
58) Ethyl Benzene	9.367	91	620719	9.923	ppbv	100
59) m/p-Xylene	9.564	91	979297m	19.504	ppbv	
60) o-Xylene	9.979	91	490108	9.848	ppbv	100
61) Styrene	9.885	104	234901	10.522	ppbv	100
62) Isopropylbenzene	10.552	105	742261	9.638	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.976	83	300600	9.596	ppbv	100
64) n-propylbenzene	11.002	120	187706	9.646	ppbv	99
65) tert-Butylbenzene	11.542	119	670259	9.550	ppbv	100
66) Benzyl Chloride	11.626	91	46008	10.591	ppbv	100
67) sec-Butylbenzene	11.778	105	920046	9.521	ppbv	100
69) p-Isopropyltoluene	11.937	119	771465	9.694	ppbv	100
70) n-Butylbenzene	12.293	91	759785	9.627	ppbv	100
71) 2-Chlorotoluene	10.914	91	556170	9.763	ppbv	100
72) 4-Ethyltoluene	11.137	105	586667	9.855	ppbv	100
73) 1,3,5-Trimethylbenzene	11.215	105	505443	9.614	ppbv	100
74) 1,2,4-Trimethylbenzene	11.549	105	538665	9.461	ppbv	100
75) 1,3-Dichlorobenzene	11.620	146	310421	9.201	ppbv	100
76) 1,4-Dichlorobenzene	11.684	146	307758	9.324	ppbv	100
77) 1,2-Dichlorobenzene	11.960	146	303196	9.068	ppbv	100
78) Hexachloro-1,3-Butadiene	13.895	225	234457	8.543	ppbv	100
79) Naphthalene	13.526	128	502354	8.764	ppbv	100
80) Naphthalene,2-methyl-	14.471	142	185336	6.819	ppbv	100
81) 1,2,4-Trichlorobenzene	13.452	180	239317	8.553	ppbv	100

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

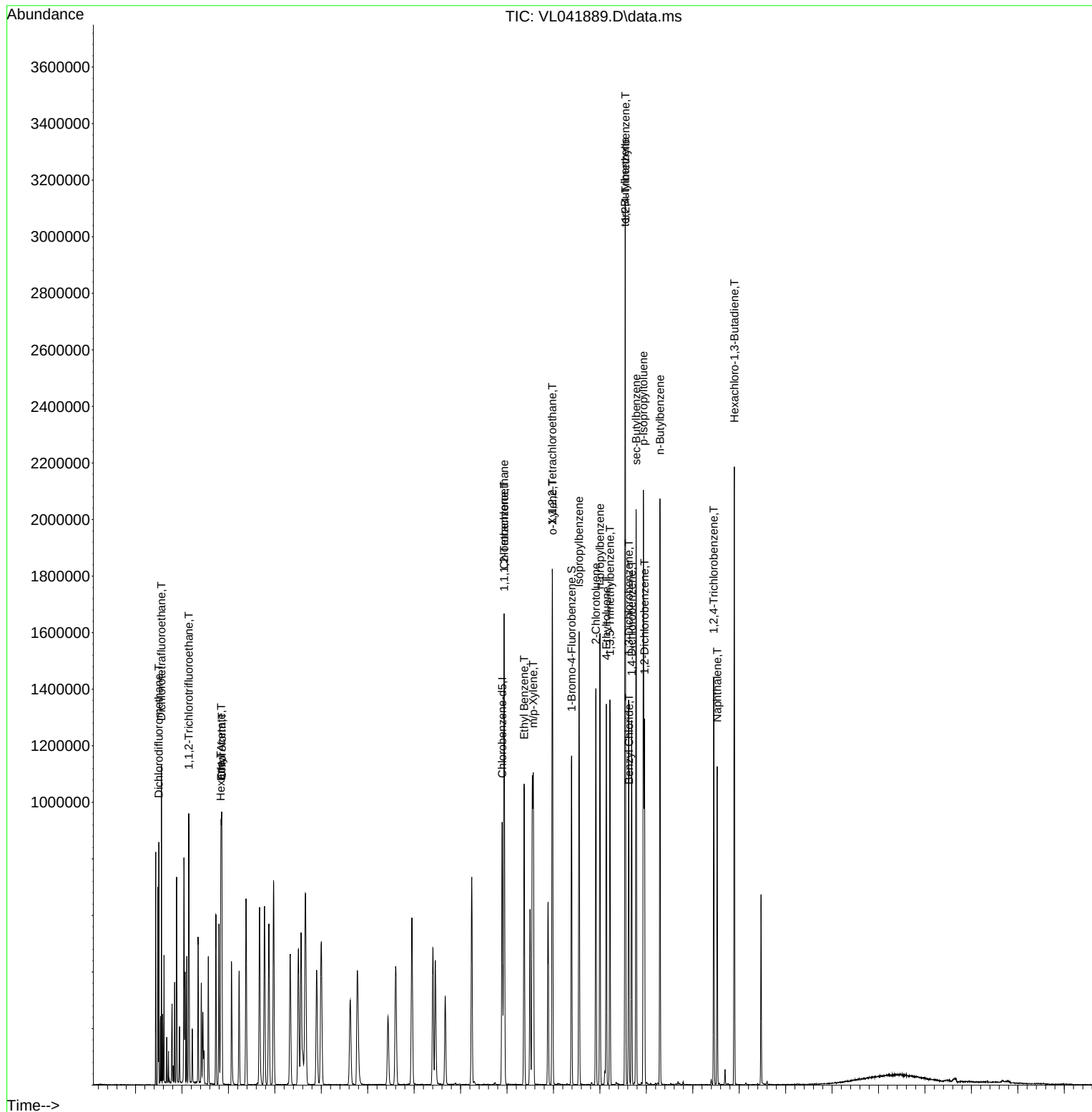
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041889.D
Acq On : 14 Jan 2025 12:55
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Quant Time: Jan 14 21:20:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041890.D
 Acq On : 14 Jan 2025 13:28
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Quant Time: Jan 14 21:20:29 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Tue Jan 14 16:31:18 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025
 Supervised By : Mahesh Dadoda 01/15/2025

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

Internal Standards						
1) Bromochloromethane	2.797	49	150761	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.971	114	452131	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.894	117	394865	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	313784	10.089	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 100.900%	

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.502	85	40991	1.996	ppbv	98
3) Chlorodifluoromethane	1.479	51	44207	2.055	ppbv	99
4) Chloromethane	1.538	50	15833	2.050	ppbv	93
5) Vinyl Chloride	1.583	62	15137	1.935	ppbv	99
6) Bromomethane	1.673	94	7486	2.008	ppbv	91
7) Chloroethane	1.709	64	6303	2.071	ppbv #	84
8) Dichlorotetrafluoroethane	1.557	85	36941	2.058	ppbv	99
9) Propene	1.486	41	18248	2.059	ppbv	95
10) Heptane	5.001	43	49302	2.081	ppbv	97
11) Trichlorofluoromethane	1.884	101	43266	2.025	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.146	101	35162	2.100	ppbv	97
13) Ethanol	1.725	45	1534	2.363	ppbv	84
14) Bromoethene	1.787	108	12163	1.984	ppbv #	95
15) Acetone	1.842	43	37867	2.091	ppbv	99
16) 1,3-Butadiene	1.612	39	16446	2.024	ppbv	100
17) tert-Butyl alcohol	2.049	59	45305	2.033	ppbv	99
18) 1,1-Dichloroethene	2.039	96	15508	2.055	ppbv	97
19) Isopropyl Alcohol	1.894	45	21530	2.005	ppbv	94
20) Methylene Chloride	2.068	84	14399	2.012	ppbv	95
21) Allyl Chloride	2.104	41	25533	2.036	ppbv	97
22) trans-1,2-Dichloroethene	2.350	96	17951	2.108	ppbv	83
23) Vinyl Acetate	2.470	43	16358	2.075	ppbv	99
24) 1,1-Dichloroethane	2.418	63	33175	2.014	ppbv	99
25) Ethyl Acetate	2.848	43	102475	2.099	ppbv	99
26) Hexane	2.835	57	41844	2.167	ppbv	99
27) Carbon Disulfide	2.156	76	39306	2.057	ppbv #	70
28) Methyl tert-Butyl Ether	2.454	73	30355	2.056	ppbv	96
29) Chloroform	2.858	83	63457	2.079	ppbv	94
30) Cyclohexane	3.874	84	34518	2.061	ppbv	97
31) cis-1,2-Dichloroethene	2.729	61	41921	2.062	ppbv	89
32) 1,1,1-Trichloroethane	3.382	97	58965	2.019	ppbv	98
34) 2-Butanone	2.570	43	61381	2.135	ppbv	99
35) Carbon Tetrachloride	3.777	117	59430	2.089	ppbv	95
36) Benzene	3.670	78	85859	2.070	ppbv	96
37) 1,2-Dichloroethane	3.230	62	46786	2.009	ppbv	100
38) Trichloroethene	4.564	130	33773	2.052	ppbv	98
39) 1,2-Dichloropropane	4.334	63	29723	2.043	ppbv	96
40) 1,4-Dioxane	4.619	88	14566m	1.984	ppbv	
41) Tetrahydrofuran	3.072	42	32358	2.064	ppbv	96
42) Bromodichloromethane	4.509	83	63611	2.037	ppbv	99
43) Methyl Methacrylate	4.900	69	31519	2.046	ppbv	99
44) 2,2,4-Trimethylpentane	4.658	57	141602	2.111	ppbv	100
45) t-1,3-Dichloropropene	6.435	75	28818	1.999	ppbv	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041890.D
 Acq On : 14 Jan 2025 13:28
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Quant Time: Jan 14 21:20:29 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Tue Jan 14 16:31:18 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025
 Supervised By : Mahesh Dadoda 01/15/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.625	75	39668	2.095	ppbv	94
47) 1,1,2-Trichloroethane	6.600	97	31694m	2.055	ppbv	
48) Dibromochloromethane	7.406	129	48894	2.055	ppbv	99
49) Bromoform	9.496	173	39710	2.032	ppbv	99
50) 4-Methyl-2-Pentanone	5.784	43	81330	2.076	ppbv	98
51) 2-Hexanone	7.457	43	66831	2.216	ppbv #	98
52) Tetrachloroethene	8.241	164	29814	2.074	ppbv	94
53) Toluene	6.952	91	94741	2.097	ppbv	98
54) 1,2-Dibromoethane	7.671	107	44636	2.106	ppbv	96
56) 1,1,1,2-Tetrachloroethane	8.940	131	40249	2.043	ppbv	93
57) Chlorobenzene	8.933	112	77180	2.119	ppbv	94
58) Ethyl Benzene	9.367	91	130554	2.116	ppbv	98
59) m/p-Xylene	9.561	91	214076m	4.322	ppbv	
60) o-Xylene	9.975	91	106458	2.168	ppbv	99
61) Styrene	9.885	104	45490	2.065	ppbv	99
62) Isopropylbenzene	10.552	105	163135	2.147	ppbv	97
63) 1,1,2,2-Tetrachloroethane	9.975	83	67775	2.193	ppbv	99
64) n-propylbenzene	11.001	120	41184	2.145	ppbv	99
65) tert-Butylbenzene	11.542	119	151534	2.189	ppbv	97
66) Benzyl Chloride	11.626	91	8925	2.083	ppbv	97
67) sec-Butylbenzene	11.778	105	211759	2.221	ppbv	99
69) p-Isopropyltoluene	11.937	119	178172	2.270	ppbv	100
70) n-Butylbenzene	12.293	91	174217	2.238	ppbv	99
71) 2-Chlorotoluene	10.914	91	121418	2.161	ppbv	100
72) 4-Ethyltoluene	11.137	105	127115	2.164	ppbv	100
73) 1,3,5-Trimethylbenzene	11.215	105	114342	2.205	ppbv	99
74) 1,2,4-Trimethylbenzene	11.548	105	126939	2.260	ppbv #	89
75) 1,3-Dichlorobenzene	11.616	146	71332	2.143	ppbv	98
76) 1,4-Dichlorobenzene	11.684	146	70219	2.156	ppbv	99
77) 1,2-Dichlorobenzene	11.960	146	71818	2.177	ppbv	100
78) Hexachloro-1,3-Butadiene	13.892	225	60984	2.253	ppbv	99
79) Naphthalene	13.526	128	153268	2.710	ppbv	98
80) Naphthalene,2-methyl-	14.471	142	90910	3.391	ppbv	99
81) 1,2,4-Trichlorobenzene	13.452	180	64653	2.342	ppbv	98

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

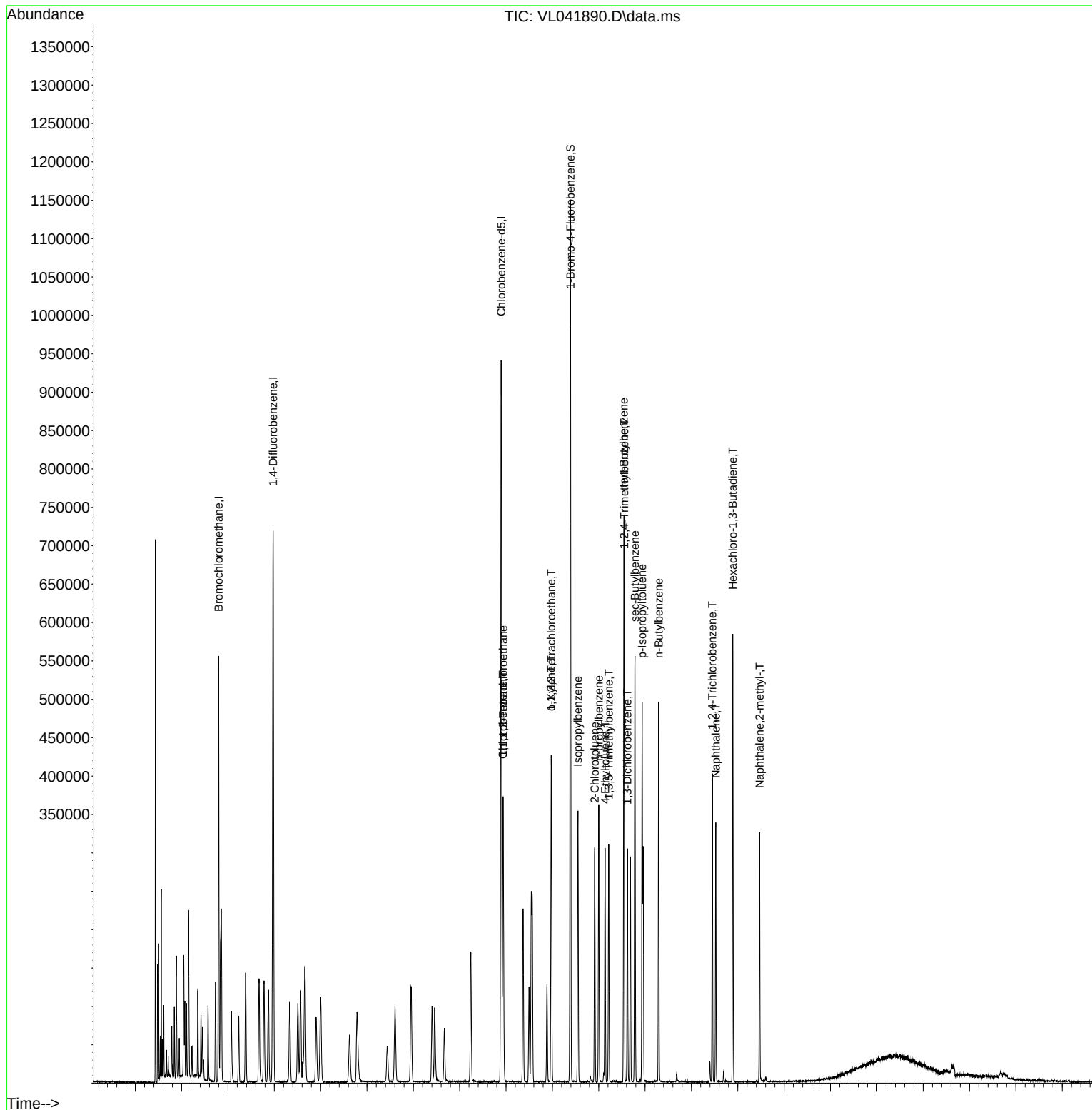
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041890.D
Acq On : 14 Jan 2025 13:28
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Quant Time: Jan 14 21:20:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041891.D
 Acq On : 14 Jan 2025 13:59
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Quant Time: Jan 14 21:20:45 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

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

QLast Update : Tue Jan 14 16:31:18 2025

Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025
 Supervised By : Mahesh Dadoda 01/15/2025

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

Internal Standards						
1) Bromochloromethane	2.797	49	151226	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.972	114	453418	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.895	117	393836	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.387	95	312013	10.058	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 100.600%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	21262	1.032	ppbv	95
3) Chlorodifluoromethane	1.479	51	23396	1.084	ppbv	100
4) Chloromethane	1.534	50	7546	0.974	ppbv	94
5) Vinyl Chloride	1.583	62	8031	1.023	ppbv	97
6) Bromomethane	1.674	94	4139	1.107	ppbv #	81
7) Chloroethane	1.709	64	3093	1.013	ppbv	92
8) Dichlorotetrafluoroethane	1.557	85	18122	1.007	ppbv	100
9) Propene	1.486	41	8719	0.981	ppbv	93
10) Heptane	5.001	43	24438	1.029	ppbv	96
11) Trichlorofluoromethane	1.884	101	21425	1.000	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.143	101	17187	1.023	ppbv	95
13) Ethanol	1.725	45	650	0.998	ppbv #	29
14) Bromoethene	1.787	108	6736	1.096	ppbv #	88
15) Acetone	1.842	43	19681	1.084	ppbv	95
16) 1,3-Butadiene	1.612	39	8901	1.092	ppbv	98
17) tert-Butyl alcohol	2.049	59	23571	1.054	ppbv	95
18) 1,1-Dichloroethene	2.039	96	7819m	1.033	ppbv	
19) Isopropyl Alcohol	1.894	45	11054	1.026	ppbv #	32
20) Methylene Chloride	2.065	84	7608	1.060	ppbv #	89
21) Allyl Chloride	2.101	41	12451	0.990	ppbv	98
22) trans-1,2-Dichloroethene	2.347	96	8819	1.032	ppbv	96
23) Vinyl Acetate	2.470	43	7181	0.908	ppbv #	93
24) 1,1-Dichloroethane	2.415	63	16623	1.006	ppbv	97
25) Ethyl Acetate	2.845	43	50690	1.035	ppbv	98
26) Hexane	2.836	57	18893	0.975	ppbv	86
27) Carbon Disulfide	2.156	76	18993	0.991	ppbv #	23
28) Methyl tert-Butyl Ether	2.450	73	17955	1.213	ppbv	98
29) Chloroform	2.858	83	31155	1.017	ppbv	97
30) Cyclohexane	3.871	84	18048	1.074	ppbv	96
31) cis-1,2-Dichloroethene	2.729	61	21124	1.036	ppbv	99
32) 1,1,1-Trichloroethane	3.383	97	30396	1.037	ppbv	98
34) 2-Butanone	2.570	43	29280	1.015	ppbv	99
35) Carbon Tetrachloride	3.774	117	27946	0.979	ppbv	96
36) Benzene	3.671	78	43023	1.035	ppbv	93
37) 1,2-Dichloroethane	3.230	62	23402	1.002	ppbv	98
38) Trichloroethene	4.564	130	16954m	1.027	ppbv	
39) 1,2-Dichloropropane	4.331	63	14570	0.999	ppbv	98
40) 1,4-Dioxane	4.613	88	7345m	0.998	ppbv	
41) Tetrahydrofuran	3.075	42	15580m	0.991	ppbv	
42) Bromodichloromethane	4.509	83	29893m	0.955	ppbv	
43) Methyl Methacrylate	4.901	69	15222	0.985	ppbv	95
44) 2,2,4-Trimethylpentane	4.661	57	68050	1.012	ppbv	98
45) t-1,3-Dichloropropene	6.438	75	13220	0.914	ppbv	92

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041891.D
 Acq On : 14 Jan 2025 13:59
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Quant Time: Jan 14 21:20:45 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

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

QLast Update : Tue Jan 14 16:31:18 2025

Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025
 Supervised By : Mahesh Dadoda 01/15/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.626	75	17749	0.935	ppbv	97
47) 1,1,2-Trichloroethane	6.603	97	15658m	1.013	ppbv	
48) Dibromochloromethane	7.402	129	22169	0.929	ppbv	100
49) Bromoform	9.497	173	17876	0.912	ppbv	100
50) 4-Methyl-2-Pentanone	5.787	43	39436m	1.004	ppbv	
51) 2-Hexanone	7.464	43	28999	0.959	ppbv #	95
52) Tetrachloroethene	8.244	164	14903	1.034	ppbv #	80
53) Toluene	6.956	91	45140m	0.996	ppbv	
54) 1,2-Dibromoethane	7.668	107	21202	0.997	ppbv	96
56) 1,1,1,2-Tetrachloroethane	8.937	131	20255	1.031	ppbv	94
57) Chlorobenzene	8.933	112	38141	1.050	ppbv	98
58) Ethyl Benzene	9.367	91	61537	1.000	ppbv	99
59) m/p-Xylene	9.561	91	99618m	2.016	ppbv	
60) o-Xylene	9.972	91	48888	0.998	ppbv	98
61) Styrene	9.882	104	20285	0.923	ppbv	99
62) Isopropylbenzene	10.549	105	75801	1.000	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.972	83	33289	1.080	ppbv	97
64) n-propylbenzene	11.002	120	19511	1.019	ppbv	99
65) tert-Butylbenzene	11.539	119	70183	1.016	ppbv	98
66) Benzyl Chloride	11.626	91	3681m	0.861	ppbv	
67) sec-Butylbenzene	11.778	105	96749	1.018	ppbv	97
69) p-Isopropyltoluene	11.937	119	79283	1.013	ppbv	98
70) n-Butylbenzene	12.290	91	80664	1.039	ppbv	99
71) 2-Chlorotoluene	10.911	91	55540	0.991	ppbv	99
72) 4-Ethyltoluene	11.134	105	56973	0.973	ppbv	97
73) 1,3,5-Trimethylbenzene	11.215	105	53550	1.035	ppbv	97
74) 1,2,4-Trimethylbenzene	11.545	105	57352	1.024	ppbv	96
75) 1,3-Dichlorobenzene	11.617	146	34810	1.049	ppbv	99
76) 1,4-Dichlorobenzene	11.681	146	33822	1.041	ppbv	97
77) 1,2-Dichlorobenzene	11.960	146	35516	1.080	ppbv	98
78) Hexachloro-1,3-Butadiene	13.892	225	29210	1.082	ppbv	99
79) Naphthalene	13.523	128	66232	1.174	ppbv	98
80) Naphthalene,2-methyl-	14.468	142	28506	1.066	ppbv	98
81) 1,2,4-Trichlorobenzene	13.452	180	29053	1.055	ppbv	99

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

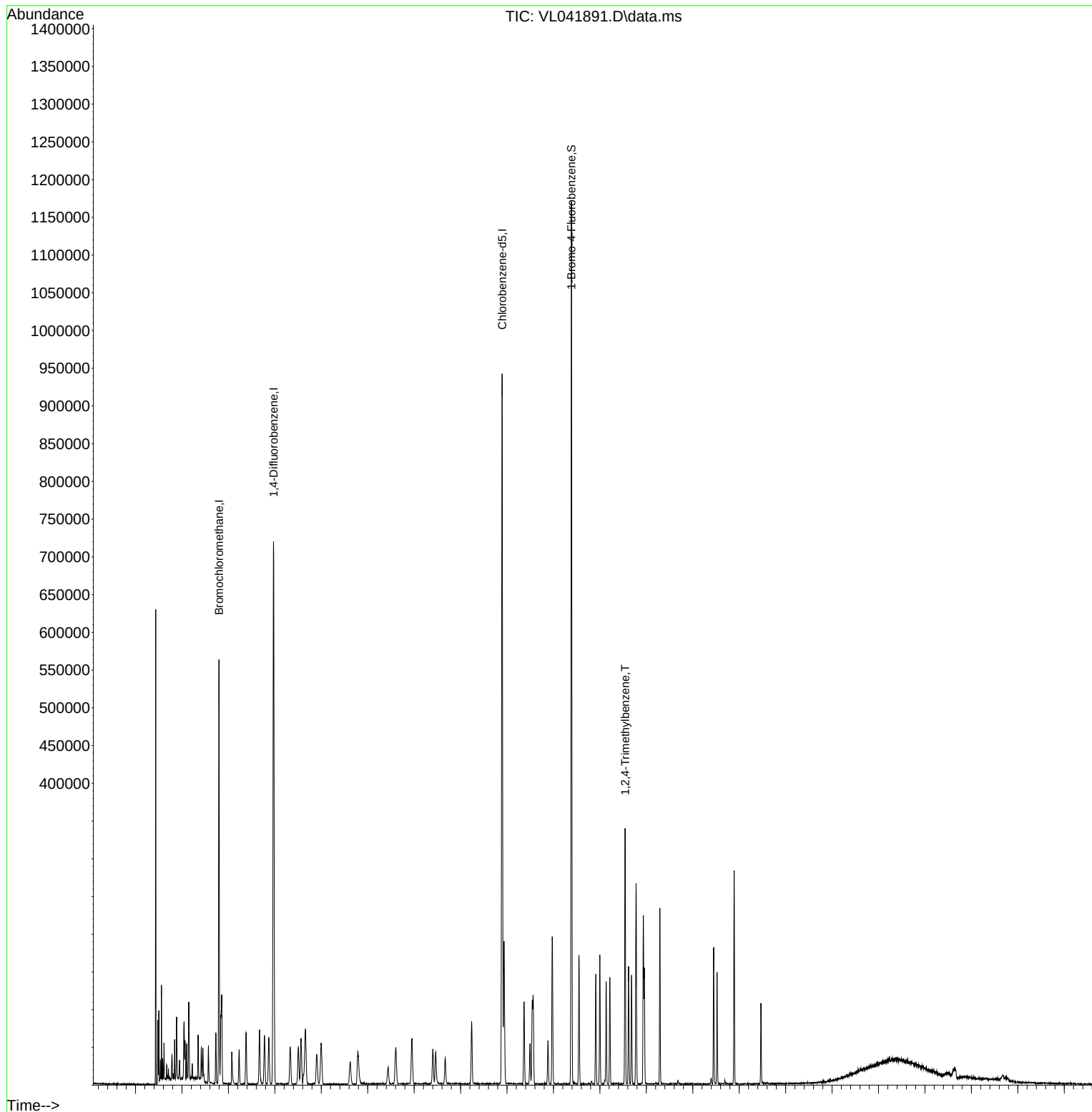
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041891.D
Acq On : 14 Jan 2025 13:59
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Quant Time: Jan 14 21:20:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025
Supervised By : Mahesh Dadoda 01/15/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041892.D
 Acq On : 14 Jan 2025 14:30
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Quant Time: Jan 14 21:21:01 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

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

QLast Update : Tue Jan 14 16:31:18 2025

Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025
 Supervised By : Mahesh Dadoda 01/15/2025

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

Internal Standards						
1) Bromochloromethane	2.790	49	146186	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	430874	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	379402	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.383	95	297462	9.954	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.500%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	10599	0.532	ppbv	99
3) Chlorodifluoromethane	1.476	51	10582	0.507	ppbv	98
4) Chloromethane	1.534	50	3990	0.533	ppbv	98
5) Vinyl Chloride	1.580	62	4097	0.540	ppbv	94
6) Bromomethane	1.670	94	1852	0.512	ppbv #	78
7) Chloroethane	1.706	64	1532	0.519	ppbv #	77
8) Dichlorotetrafluoroethane	1.557	85	9372	0.539	ppbv	95
9) Propene	1.486	41	4690	0.546	ppbv	85
10) Heptane	4.988	43	11230	0.489	ppbv	95
11) Trichlorofluoromethane	1.881	101	10873	0.525	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.143	101	8027	0.494	ppbv	90
13) Ethanol	1.725	45	478m	0.759	ppbv	
14) Bromoethene	1.784	108	3071	0.517	ppbv #	94
15) Acetone	1.839	43	10273	0.585	ppbv	99
16) 1,3-Butadiene	1.612	39	4038	0.512	ppbv	99
17) tert-Butyl alcohol	2.046	59	11158	0.516	ppbv #	94
18) 1,1-Dichloroethene	2.036	96	3803	0.520	ppbv	95
19) Isopropyl Alcohol	1.891	45	6317	0.607	ppbv #	32
20) Methylene Chloride	2.065	84	4286	0.618	ppbv	93
21) Allyl Chloride	2.101	41	6553	0.539	ppbv	96
22) trans-1,2-Dichloroethene	2.347	96	4015	0.486	ppbv	89
23) Vinyl Acetate	2.467	43	6381m	0.835	ppbv	
24) 1,1-Dichloroethane	2.415	63	8512	0.533	ppbv	97
25) Ethyl Acetate	2.845	43	23529	0.497	ppbv	97
26) Hexane	2.829	57	9246m	0.494	ppbv	
27) Carbon Disulfide	2.153	76	8847	0.477	ppbv #	1
28) Methyl tert-Butyl Ether	2.447	73	7621	0.532	ppbv	97
29) Chloroform	2.855	83	15360	0.519	ppbv	92
30) Cyclohexane	3.871	84	7579	0.467	ppbv	92
31) cis-1,2-Dichloroethene	2.726	61	10275	0.521	ppbv #	89
32) 1,1,1-Trichloroethane	3.379	97	14198	0.501	ppbv	98
34) 2-Butanone	2.567	43	13981	0.510	ppbv	94
35) Carbon Tetrachloride	3.774	117	12590	0.464	ppbv	89
36) Benzene	3.667	78	19954	0.505	ppbv	95
37) 1,2-Dichloroethane	3.227	62	11613	0.523	ppbv	97
38) Trichloroethene	4.561	130	8199	0.523	ppbv #	89
39) 1,2-Dichloropropane	4.324	63	7526m	0.543	ppbv	
40) 1,4-Dioxane	4.616	88	4031m	0.576	ppbv	
41) Tetrahydrofuran	3.072	42	7183	0.481	ppbv	94
42) Bromodichloromethane	4.499	83	15081m	0.507	ppbv	
43) Methyl Methacrylate	4.891	69	7332m	0.499	ppbv	
44) 2,2,4-Trimethylpentane	4.645	57	31243	0.489	ppbv	95
45) t-1,3-Dichloropropene	6.428	75	6465m	0.470	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041892.D
 Acq On : 14 Jan 2025 14:30
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Quant Time: Jan 14 21:21:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Tue Jan 14 16:31:18 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025
 Supervised By : Mahesh Dadoda 01/15/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.609	75	7986m	0.443	ppbv	
47) 1,1,2-Trichloroethane	6.597	97	7324	0.498	ppbv #	84
48) Dibromochloromethane	7.393	129	10548m	0.465	ppbv	
49) Bromoform	9.493	173	8162	0.438	ppbv	97
50) 4-Methyl-2-Pentanone	5.794	43	19221m	0.515	ppbv	
51) 2-Hexanone	7.454	43	13390	0.466	ppbv #	97
52) Tetrachloroethene	8.238	164	6821m	0.498	ppbv	
53) Toluene	6.946	91	20118	0.467	ppbv	96
54) 1,2-Dibromoethane	7.665	107	10511	0.520	ppbv	89
56) 1,1,1,2-Tetrachloroethane	8.930	131	9524	0.503	ppbv #	1
57) Chlorobenzene	8.930	112	18701	0.534	ppbv #	90
58) Ethyl Benzene	9.364	91	28584	0.482	ppbv #	88
59) m/p-Xylene	9.558	91	45003m	0.946	ppbv	
60) o-Xylene	9.972	91	22370	0.474	ppbv	97
61) Styrene	9.879	104	9788	0.463	ppbv	99
62) Isopropylbenzene	10.545	105	36561	0.501	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.969	83	15485	0.521	ppbv	98
64) n-propylbenzene	10.995	120	9128	0.495	ppbv	93
65) tert-Butylbenzene	11.536	119	33122	0.498	ppbv	98
66) Benzyl Chloride	11.620	91	1935	0.470	ppbv	99
67) sec-Butylbenzene	11.775	105	45326	0.495	ppbv	98
69) p-Isopropyltoluene	11.931	119	35136	0.466	ppbv	98
70) n-Butylbenzene	12.287	91	35409	0.473	ppbv	96
71) 2-Chlorotoluene	10.908	91	26436	0.490	ppbv	99
72) 4-Ethyltoluene	11.131	105	27363	0.485	ppbv	97
73) 1,3,5-Trimethylbenzene	11.209	105	23183	0.465	ppbv	93
74) 1,2,4-Trimethylbenzene	11.545	105	25777	0.478	ppbv	89
75) 1,3-Dichlorobenzene	11.610	146	16708	0.522	ppbv	100
76) 1,4-Dichlorobenzene	11.678	146	15738	0.503	ppbv	96
77) 1,2-Dichlorobenzene	11.953	146	16364	0.516	ppbv	93
78) Hexachloro-1,3-Butadiene	13.892	225	14162	0.544	ppbv	96
79) Naphthalene	13.520	128	28052	0.516	ppbv	98
80) Naphthalene,2-methyl-	14.468	142	10859	0.422	ppbv	97
81) 1,2,4-Trichlorobenzene	13.445	180	14136	0.533	ppbv	95

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

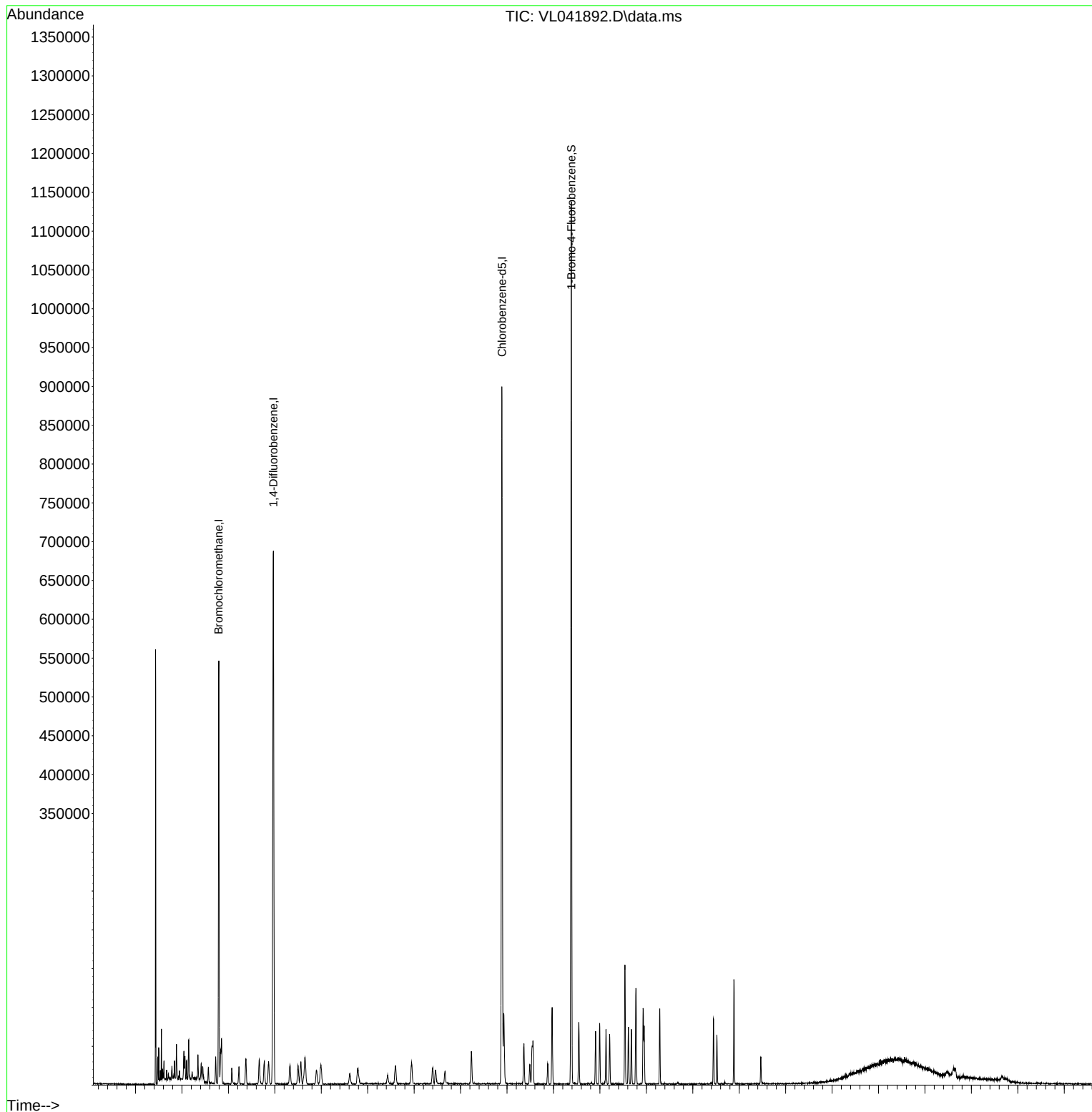
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041892.D
Acq On : 14 Jan 2025 14:30
Operator : SY/MD
Sample : VSTDIC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Quant Time: Jan 14 21:21:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025
Supervised By : Mahesh Dadoda 01/15/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041893.D
 Acq On : 14 Jan 2025 15:01
 Operator : SY/MD
 Sample : VSTDICC0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.1

Quant Time: Jan 14 22:42:51 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Tue Jan 14 16:31:18 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025
 Supervised By : Mahesh Dadoda 01/15/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.793	49	143362	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	425675	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	372545	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	292283	9.961	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.600%
Target Compounds						
					Qvalue	
5) Vinyl Chloride	1.583	62	828	0.111	ppbv	96
32) 1,1,1-Trichloroethane	3.383	97	2640m	0.095	ppbv	
35) Carbon Tetrachloride	3.768	117	2587m	0.097	ppbv	
38) Trichloroethene	4.557	130	1816m	0.117	ppbv	
52) Tetrachloroethene	8.234	164	1480m	0.109	ppbv	
54) 1,2-Dibromoethane	7.668	107	1872m	0.094	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.976	83	2816	0.097	ppbv	95
79) Naphthalene	13.520	128	3643	0.068	ppbv #	96

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

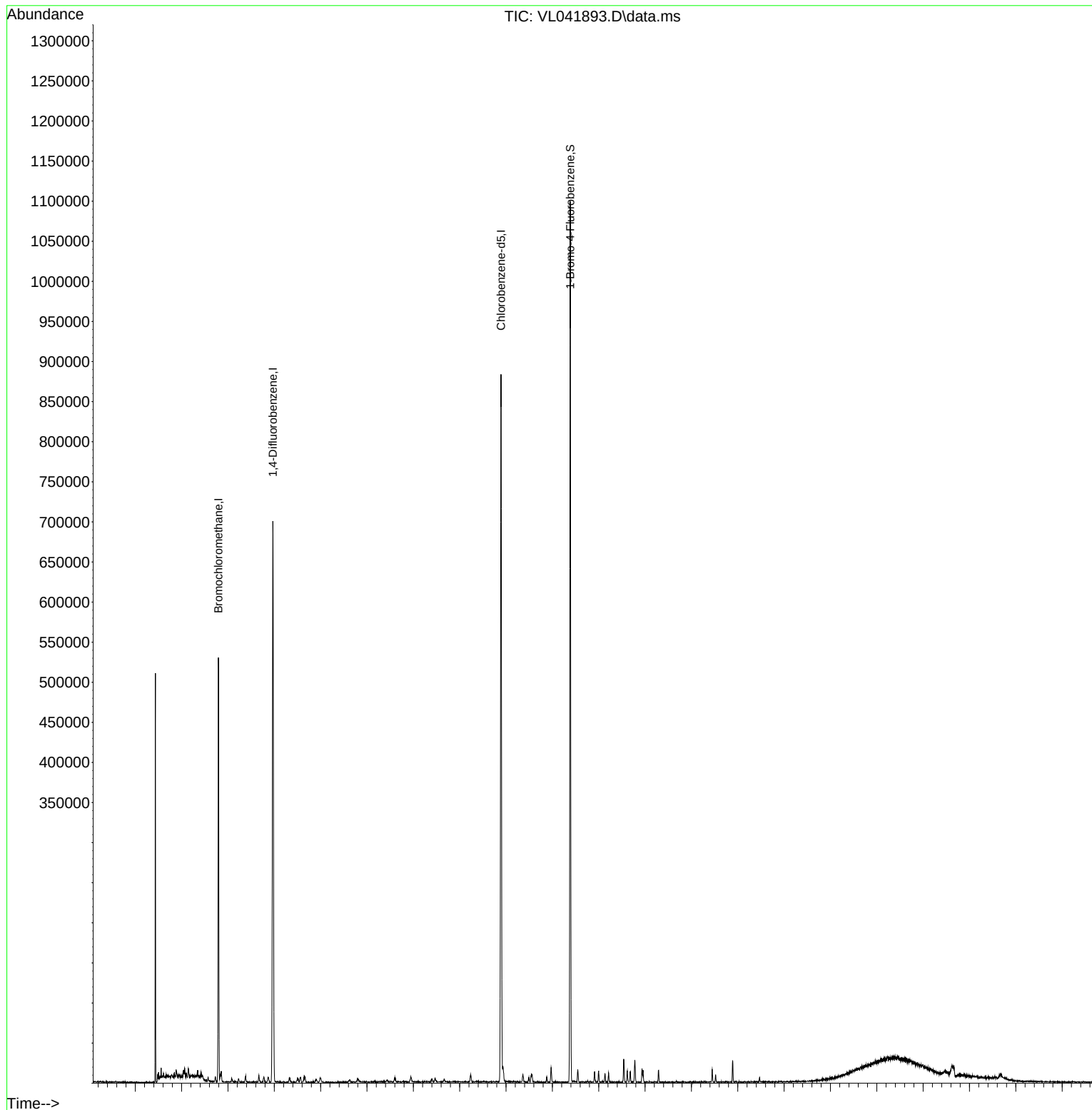
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041893.D
Acq On : 14 Jan 2025 15:01
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Quant Time: Jan 14 22:42:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025
Supervised By : Mahesh Dadoda 01/15/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041894.D
Acq On : 14 Jan 2025 15:32
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Quant Time: Jan 14 21:21:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.793	49	141659	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.972	114	424686	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	367402	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	287792	9.945	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.500%
Target Compounds						
5) Vinyl Chloride	1.586	62	214m	0.029	ppbv	Qvalue
32) 1,1,1-Trichloroethane	3.379	97	823	0.030	ppbv	85
35) Carbon Tetrachloride	3.774	117	771	0.029	ppbv #	56
38) Trichloroethene	4.557	130	364m	0.024	ppbv	
52) Tetrachloroethene	8.250	164	408m	0.030	ppbv	

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

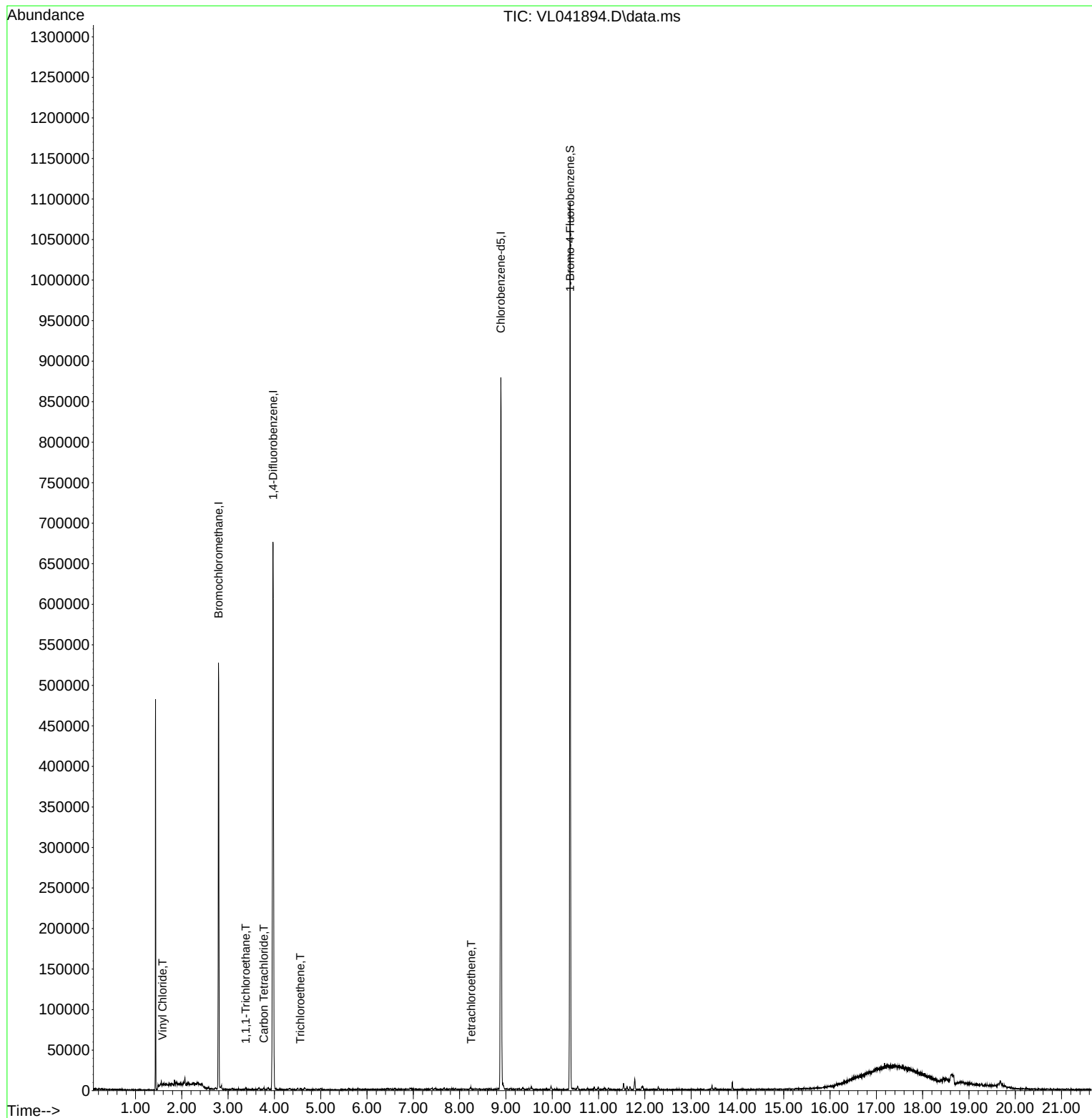
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041894.D
Acq On : 14 Jan 2025 15:32
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Quant Time: Jan 14 21:21:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025
Supervised By : Mahesh Dadoda 01/15/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041895.D
 Acq On : 14 Jan 2025 16:05
 Operator : SY/MD
 Sample : VSTDICC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC015

Manual Integrations

APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025
 Supervised By : Mahesh Dadoda 01/15/2025

Quant Time: Jan 14 21:21:42 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

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

QLast Update : Tue Jan 14 16:31:18 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.793	49	141652	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	419859	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.895	117	383799	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.387	95	304042	10.058	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 100.600%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	275248	14.266	ppbv	100
3) Chlorodifluoromethane	1.479	51	285437	14.121	ppbv	98
4) Chloromethane	1.534	50	106071	14.617	ppbv	98
5) Vinyl Chloride	1.583	62	104404	14.204	ppbv	98
6) Bromomethane	1.670	94	49415	14.106	ppbv	91
7) Chloroethane	1.709	64	41130	14.383	ppbv	100
8) Dichlorotetrafluoroethane	1.557	85	244666	14.510	ppbv	100
9) Propene	1.486	41	116343	13.972	ppbv	99
10) Heptane	4.998	43	326897	14.688	ppbv	98
11) Trichlorofluoromethane	1.881	101	299656	14.930	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.143	101	232607	14.787	ppbv	100
13) Ethanol	1.725	45	6109	10.016	ppbv	83
14) Bromoethene	1.784	108	83586	14.513	ppbv	98
15) Acetone	1.839	43	223353	13.128	ppbv	99
16) 1,3-Butadiene	1.612	39	109420	14.329	ppbv	99
17) tert-Butyl alcohol	2.046	59	298424	14.252	ppbv	99
18) 1,1-Dichloroethene	2.039	96	104645	14.759	ppbv	92
19) Isopropyl Alcohol	1.890	45	134050	13.288	ppbv	98
20) Methylene Chloride	2.065	84	88425	13.151	ppbv	98
21) Allyl Chloride	2.101	41	169875	14.419	ppbv	96
22) trans-1,2-Dichloroethene	2.347	96	118169	14.768	ppbv	97
23) Vinyl Acetate	2.470	43	116632	15.747	ppbv	98
24) 1,1-Dichloroethane	2.415	63	230015	14.862	ppbv	99
25) Ethyl Acetate	2.842	43	665170	14.499	ppbv	100
26) Hexane	2.836	57	263948	14.547	ppbv	97
27) Carbon Disulfide	2.156	76	278476	15.509	ppbv	99
28) Methyl tert-Butyl Ether	2.447	73	187986	13.555	ppbv	98
29) Chloroform	2.858	83	413733	14.424	ppbv	98
30) Cyclohexane	3.868	84	233398	14.830	ppbv	99
31) cis-1,2-Dichloroethene	2.729	61	271739	14.223	ppbv	94
32) 1,1,1-Trichloroethane	3.379	97	419117	15.271	ppbv	99
34) 2-Butanone	2.564	43	380813	14.262	ppbv	99
35) Carbon Tetrachloride	3.774	117	426619	16.146	ppbv	97
36) Benzene	3.667	78	553665	14.378	ppbv	100
37) 1,2-Dichloroethane	3.227	62	321362	14.859	ppbv	99
38) Trichloroethene	4.564	130	222328	14.543	ppbv	98
39) 1,2-Dichloropropane	4.328	63	191532	14.179	ppbv	98
40) 1,4-Dioxane	4.596	88	97521	14.305	ppbv #	93
41) Tetrahydrofuran	3.062	42	217707	14.953	ppbv	99
42) Bromodichloromethane	4.502	83	445130	15.351	ppbv	95
43) Methyl Methacrylate	4.894	69	214564	14.999	ppbv	99
44) 2,2,4-Trimethylpentane	4.655	57	909437	14.601	ppbv	100
45) t-1,3-Dichloropropene	6.435	75	218001	16.281	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041895.D
 Acq On : 14 Jan 2025 16:05
 Operator : SY/MD
 Sample : VSTDICC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC015

Quant Time: Jan 14 21:21:42 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Tue Jan 14 16:31:18 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025
 Supervised By : Mahesh Dadoda 01/15/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.619	75	281492	16.011	ppbv	98
47) 1,1,2-Trichloroethane	6.597	97	211658	14.782	ppbv	95
48) Dibromochloromethane	7.402	129	356392	16.134	ppbv	100
49) Bromoform	9.493	173	307617	16.953	ppbv	99
50) 4-Methyl-2-Pentanone	5.774	43	533053	14.653	ppbv	99
51) 2-Hexanone	7.451	43	430297	15.363	ppbv #	97
52) Tetrachloroethene	8.237	164	183208	13.721	ppbv	96
53) Toluene	6.949	91	634515	15.126	ppbv	99
54) 1,2-Dibromoethane	7.665	107	295967	15.036	ppbv	93
56) 1,1,1,2-Tetrachloroethane	8.937	131	280809	14.665	ppbv	98
57) Chlorobenzene	8.933	112	479092	13.533	ppbv	99
58) Ethyl Benzene	9.367	91	887072	14.789	ppbv	100
59) m/p-Xylene	9.565	91	1420585m	29.506	ppbv	
60) o-Xylene	9.976	91	704577	14.765	ppbv	100
61) Styrene	9.882	104	342490	15.999	ppbv	99
62) Isopropylbenzene	10.548	105	1063809	14.406	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.976	83	426347	14.194	ppbv	100
64) n-propylbenzene	10.998	120	266972	14.308	ppbv	100
65) tert-Butylbenzene	11.542	119	947297	14.077	ppbv	98
66) Benzyl Chloride	11.626	91	68623	16.475	ppbv	98
67) sec-Butylbenzene	11.778	105	1292858	13.952	ppbv	100
69) p-Isopropyltoluene	11.937	119	1089109	14.273	ppbv	99
70) n-Butylbenzene	12.290	91	1059002	13.994	ppbv	99
71) 2-Chlorotoluene	10.911	91	797555	14.601	ppbv	100
72) 4-Ethyltoluene	11.134	105	847451	14.846	ppbv	99
73) 1,3,5-Trimethylbenzene	11.215	105	733759	14.556	ppbv	96
74) 1,2,4-Trimethylbenzene	11.549	105	773569	14.170	ppbv	92
75) 1,3-Dichlorobenzene	11.620	146	443828	13.720	ppbv	99
76) 1,4-Dichlorobenzene	11.681	146	447164	14.129	ppbv	99
77) 1,2-Dichlorobenzene	11.956	146	429118	13.385	ppbv	99
78) Hexachloro-1,3-Butadiene	13.892	225	335016	12.731	ppbv	100
79) Naphthalene	13.523	128	724573	13.183	ppbv	99
80) Naphthalene,2-methyl-	14.468	142	278955	10.704	ppbv	99
81) 1,2,4-Trichlorobenzene	13.452	180	342977	12.784	ppbv	98

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

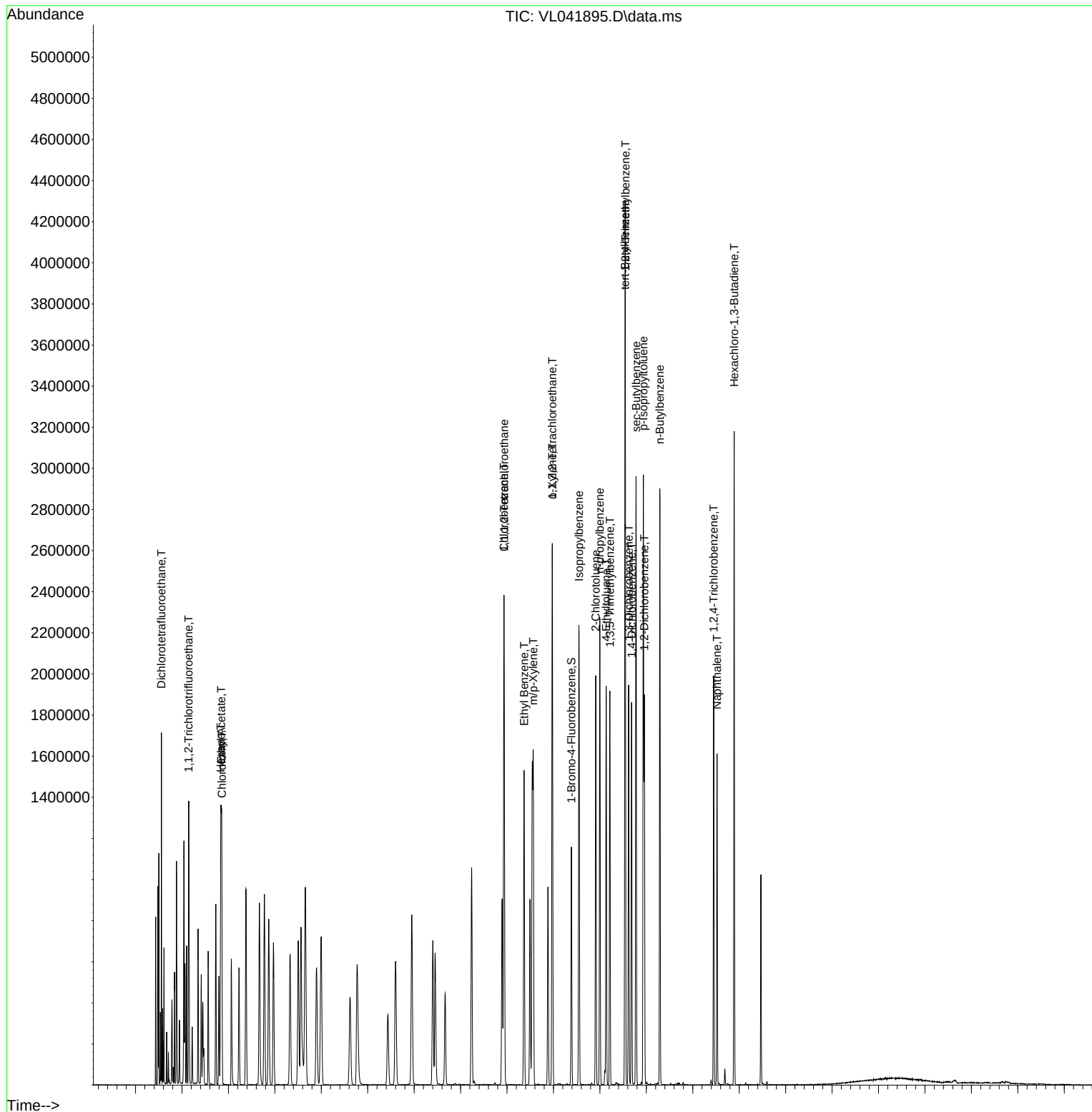
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041895.D
Acq On : 14 Jan 2025 16:05
Operator : SY/MD
Sample : VSTDIC015
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 14 21:21:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041896.D
 Acq On : 14 Jan 2025 17:33
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :

MSVOA_L

ClientSampleId :

ICVVL011425

Manual Integrations

APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025
 Supervised By : Mahesh Dadoda 01/15/2025

Quant Time: Jan 15 03:23:15 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

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

QLast Update : Tue Jan 14 23:15:42 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.793	49	141664	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	417936	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	373391	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.387	95	298000	10.133	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 101.300%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	190925	9.894	ppbv	97
3) Chlorodifluoromethane	1.479	51	200455	9.916	ppbv	100
4) Chloromethane	1.534	50	71767	9.889	ppbv	95
5) Vinyl Chloride	1.583	62	71974	9.791	ppbv	94
6) Bromomethane	1.670	94	33594	9.589	ppbv	96
7) Chloroethane	1.706	64	29553	10.333	ppbv	100
8) Dichlorotetrafluoroethane	1.557	85	163783	9.712	ppbv	99
9) Propene	1.486	41	82320	9.886	ppbv	99
10) Heptane	4.998	43	225230	10.119	ppbv	99
11) Trichlorofluoromethane	1.881	101	198523	9.890	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.143	101	159862	10.162	ppbv	100
13) Ethanol	1.725	45	3780	6.197	ppbv	97
14) Bromoethene	1.784	108	57260	9.941	ppbv	98
15) Acetone	1.839	43	150112	8.822	ppbv	98
16) 1,3-Butadiene	1.612	39	73640	9.643	ppbv	100
17) tert-Butyl alcohol	2.046	59	204358	9.758	ppbv	98
18) 1,1-Dichloroethene	2.039	96	71011	10.015	ppbv	96
19) Isopropyl Alcohol	1.890	45	93592	9.277	ppbv	97
20) Methylene Chloride	2.065	84	60115	8.940	ppbv	97
21) Allyl Chloride	2.101	41	118907	10.092	ppbv	97
22) trans-1,2-Dichloroethene	2.347	96	77379	9.669	ppbv	96
23) Vinyl Acetate	2.470	43	80428	9.536	ppbv #	95
24) 1,1-Dichloroethane	2.415	63	155440	10.042	ppbv	98
25) Ethyl Acetate	2.842	43	458484	9.993	ppbv	100
26) Hexane	2.832	57	184436	10.164	ppbv	99
27) Carbon Disulfide	2.156	76	186668	10.395	ppbv	98
28) Methyl tert-Butyl Ether	2.447	73	112489	8.110	ppbv	99
29) Chloroform	2.855	83	282467	9.847	ppbv	99
30) Cyclohexane	3.865	84	159296	10.120	ppbv	99
31) cis-1,2-Dichloroethene	2.729	61	187012	9.787	ppbv	97
32) 1,1,1-Trichloroethane	3.376	97	284661	10.371	ppbv	99
34) 2-Butanone	2.564	43	261536	9.840	ppbv	99
35) Carbon Tetrachloride	3.771	117	285391	10.871	ppbv	96
36) Benzene	3.667	78	374271	9.764	ppbv	99
37) 1,2-Dichloroethane	3.227	62	214545	9.966	ppbv	100
38) Trichloroethene	4.564	130	153255	10.075	ppbv	95
39) 1,2-Dichloropropane	4.324	63	130483	9.704	ppbv	97
40) 1,4-Dioxane	4.599	88	63736	9.386	ppbv #	99
41) Tetrahydrofuran	3.062	42	148132	10.255	ppbv	98
42) Bromodichloromethane	4.506	83	299656	10.381	ppbv	96
43) Methyl Methacrylate	4.894	69	145663	10.229	ppbv	100
44) 2,2,4-Trimethylpentane	4.654	57	619804	9.997	ppbv	100
45) t-1,3-Dichloropropene	6.428	75	145145	10.889	ppbv	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041896.D
 Acq On : 14 Jan 2025 17:33
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL011425

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
 Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 15 03:23:15 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

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

QLast Update : Tue Jan 14 23:15:42 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.616	75	186898	10.680	ppbv	98
47) 1,1,2-Trichloroethane	6.596	97	140891	9.886	ppbv	97
48) Dibromochloromethane	7.399	129	238244	10.835	ppbv	100
49) Bromoform	9.493	173	201141	11.136	ppbv	99
50) 4-Methyl-2-Pentanone	5.771	43	363675	10.023	ppbv	99
51) 2-Hexanone	7.451	43	284058	10.189	ppbv #	99
52) Tetrachloroethene	8.237	164	127806	9.616	ppbv	98
53) Toluene	6.949	91	427033	10.227	ppbv	99
54) 1,2-Dibromoethane	7.665	107	199339	10.175	ppbv	95
56) 1,1,1,2-Tetrachloroethane	8.937	131	188209	10.103	ppbv	99
57) Chlorobenzene	8.933	112	329025	9.553	ppbv	99
58) Ethyl Benzene	9.364	91	601857	10.314	ppbv	99
59) m/p-Xylene	9.561	91	964838m	20.628	ppbv	
60) o-Xylene	9.972	91	480442	10.348	ppbv	100
61) Styrene	9.878	104	229797	11.034	ppbv	99
62) Isopropylbenzene	10.548	105	728189	10.136	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.972	83	290998	9.809	ppbv	100
64) n-propylbenzene	10.998	120	182397	10.048	ppbv	98
65) tert-Butylbenzene	11.539	119	657521	10.043	ppbv	100
66) Benzyl Chloride	11.623	91	42509	10.490	ppbv #	97
67) sec-Butylbenzene	11.778	105	901260	9.997	ppbv	98
69) p-Isopropyltoluene	11.934	119	745566	10.043	ppbv	99
70) n-Butylbenzene	12.290	91	733637	9.965	ppbv	99
71) 2-Chlorotoluene	10.911	91	543858	10.234	ppbv	100
72) 4-Ethyltoluene	11.134	105	568921	10.245	ppbv	99
73) 1,3,5-Trimethylbenzene	11.212	105	493388	10.061	ppbv	99
74) 1,2,4-Trimethylbenzene	11.545	105	528225	9.946	ppbv	98
75) 1,3-Dichlorobenzene	11.617	146	304133	9.664	ppbv	99
76) 1,4-Dichlorobenzene	11.681	146	297765	9.670	ppbv	99
77) 1,2-Dichlorobenzene	11.956	146	298039	9.555	ppbv	99
78) Hexachloro-1,3-Butadiene	13.889	225	228592	8.929	ppbv	99
79) Naphthalene	13.523	128	497063	9.295	ppbv	99
80) Naphthalene,2-methyl-	14.468	142	187571	7.398	ppbv	98
81) 1,2,4-Trichlorobenzene	13.448	180	236181	9.049	ppbv	99

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

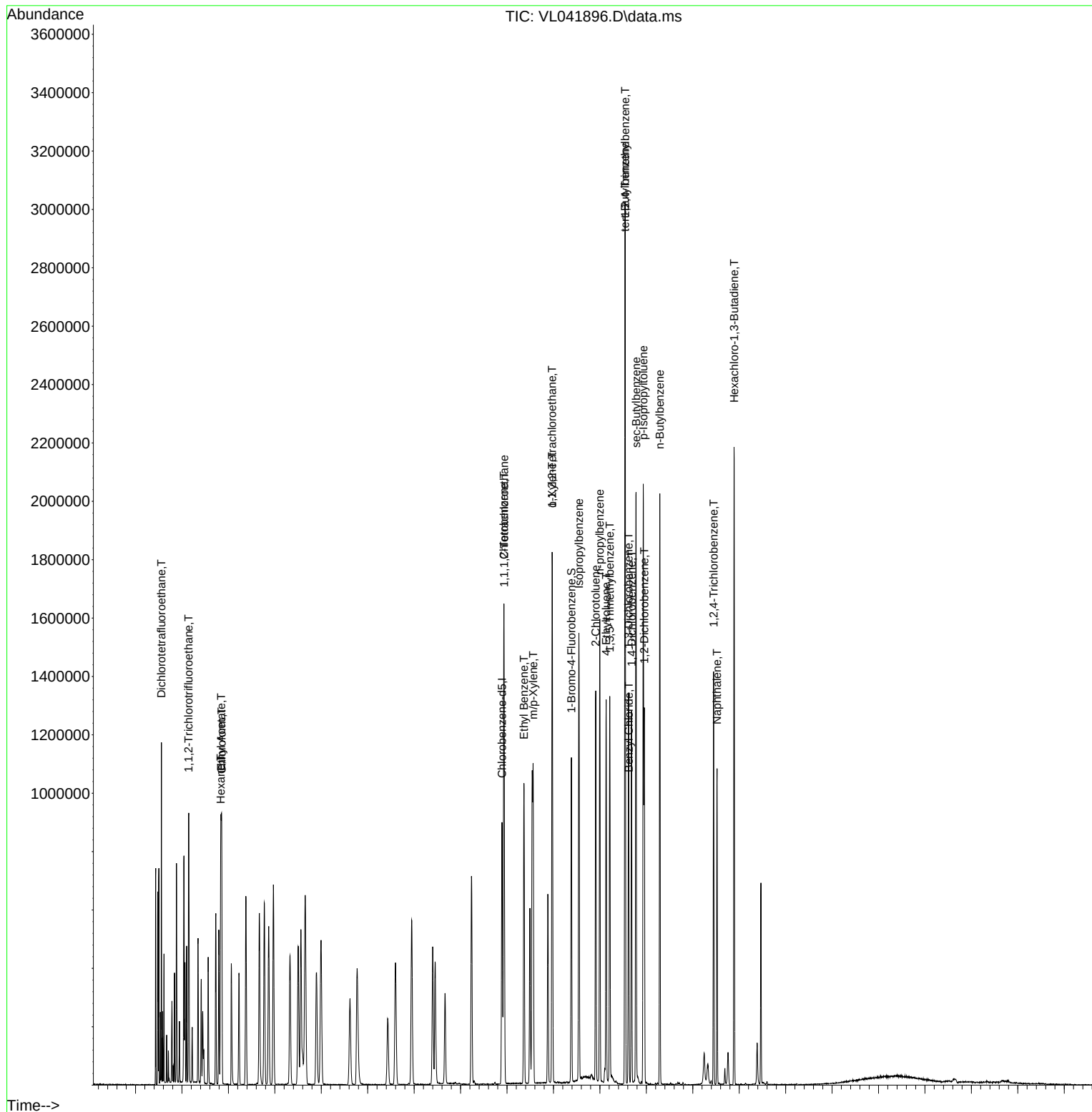
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041896.D
Acq On : 14 Jan 2025 17:33
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL011425

Quant Time: Jan 15 03:23:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041896.D
Acq On : 14 Jan 2025 17:33
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL011425

Quant Time: Jan 15 03:23:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	1.000	1.000	0.0	93	0.00
2 T	Dichlorodifluoromethane	1.362	1.348	1.0	96	0.00
3	Chlorodifluoromethane	1.427	1.415	0.8	99	0.00
4	Chloromethane	0.512	0.507	1.0	96	0.00
5 T	Vinyl Chloride	0.519	0.508	2.1	101	0.00
6 T	Bromomethane	0.247	0.237	4.0	96	0.00
7	Chloroethane	0.202	0.209	-3.5	101	0.00
8 T	Dichlorotetrafluoroethane	1.190	1.156	2.9	98	0.00
9 T	Propene	0.588	0.581	1.2	95	0.00
10 T	Heptane	1.571	1.590	-1.2	97	0.00
11 T	Trichlorofluoromethane	1.417	1.401	1.1	98	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.110	1.128	-1.6	99	0.00
13	Ethanol	0.043	0.027#	37.2#	91	0.00
14 T	Bromoethene	0.407	0.404	0.7	101	0.00
15 T	Acetone	1.201	1.060	11.7	99	0.00
16 T	1,3-Butadiene	0.539	0.520	3.5	98	0.00
17	tert-Butyl alcohol	1.478	1.443	2.4	96	0.00
18 T	1,1-Dichloroethene	0.501	0.501	0.0	102	0.00
19 T	Isopropyl Alcohol	0.712	0.661	7.2	99	0.00
20 T	Methylene Chloride	0.475	0.424	10.7	101	0.00
21 T	Allyl Chloride	0.832	0.839	-0.8	99	0.00
22 T	trans-1,2-Dichloroethene	0.565	0.546	3.4	94	0.00
23 T	Vinyl Acetate	0.595	0.568	4.5	98	0.00
24 T	1,1-Dichloroethane	1.093	1.097	-0.4	100	0.00
25 T	Ethyl Acetate	3.239	3.236	0.1	97	0.00
26 T	Hexane	1.281	1.302	-1.6	96	0.00
27 T	Carbon Disulfide	1.268	1.318	-3.9	97	0.00
28 T	Methyl tert-Butyl Ether	0.979	0.794	18.9	95	0.00
29 T	Chloroform	2.025	1.994	1.5	97	0.00
30 T	Cyclohexane	1.111	1.124	-1.2	97	0.00
31 T	cis-1,2-Dichloroethene	1.349	1.320	2.1	97	0.00
32 T	1,1,1-Trichloroethane	1.938	2.009	-3.7	98	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	93	0.00
34 T	2-Butanone	0.636	0.626	1.6	97	0.00
35 T	Carbon Tetrachloride	0.628	0.683	-8.8	98	0.00
36 T	Benzene	0.917	0.896	2.3	94	0.00
37 T	1,2-Dichloroethane	0.515	0.513	0.4	97	0.00
38 T	Trichloroethene	0.364	0.367	-0.8	96	0.00
39 T	1,2-Dichloropropane	0.322	0.312	3.1	95	0.00
40 T	1,4-Dioxane	0.162	0.153	5.6	96	0.00
41 T	Tetrahydrofuran	0.346	0.354	-2.3	95	0.00
42 T	Bromodichloromethane	0.691	0.717	-3.8	98	0.00
43	Methyl Methacrylate	0.341	0.349	-2.3	96	0.00
44 T	2,2,4-Trimethylpentane	1.484	1.483	0.1	95	0.00
45 T	t-1,3-Dichloropropene	0.319	0.347	-8.8	96	0.00
46 T	cis-1,3-Dichloropropene	0.419	0.447	-6.7	93	0.00
47 T	1,1,2-Trichloroethane	0.341	0.337	1.2	94	0.00
48 T	Dibromochloromethane	0.526	0.570	-8.4	97	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041896.D
 Acq On : 14 Jan 2025 17:33
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL011425

Quant Time: Jan 15 03:23:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Jan 14 23:15:42 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	Bromoform	0.432	0.481	-11.3	97	0.00
50 T	4-Methyl-2-Pentanone	0.868	0.870	-0.2	97	0.00
51 T	2-Hexanone	0.667	0.680	-1.9	97	0.00
52 T	Tetrachloroethene	0.318	0.306	3.8	97	0.00
53 T	Toluene	0.999	1.022	-2.3	94	0.00
54 T	1,2-Dibromoethane	0.469	0.477	-1.7	98	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	93	0.00
56	1,1,1,2-Tetrachloroethane	0.499	0.504	-1.0	98	0.00
57 T	Chlorobenzene	0.922	0.881	4.4	97	0.00
58 T	Ethyl Benzene	1.563	1.612	-3.1	97	0.00
59 T	m/p-Xylene	1.253	1.292	-3.1	99	0.00
60 T	o-Xylene	1.243	1.287	-3.5	98	0.00
61 T	Styrene	0.558	0.615	-10.2	98	0.00
62	Isopropylbenzene	1.924	1.950	-1.4	98	0.00
63 T	1,1,2,2-Tetrachloroethane	0.795	0.779	2.0	97	0.00
64	n-propylbenzene	0.486	0.488	-0.4	97	0.00
65	tert-Butylbenzene	1.753	1.761	-0.5	98	0.00
66 T	Benzyl Chloride	0.109	0.114	-4.6	92	0.00
67	sec-Butylbenzene	2.414	2.414	0.0	98	0.00
68 S	1-Bromo-4-Fluorobenzene	0.788	0.798	-1.3	95	0.00
69	p-Isopropyltoluene	1.988	1.997	-0.5	97	0.00
70	n-Butylbenzene	1.972	1.965	0.4	97	0.00
71	2-Chlorotoluene	1.423	1.457	-2.4	98	0.00
72 T	4-Ethyltoluene	1.487	1.524	-2.5	97	0.00
73 T	1,3,5-Trimethylbenzene	1.313	1.321	-0.6	98	0.00
74 T	1,2,4-Trimethylbenzene	1.422	1.415	0.5	98	0.00
75 T	1,3-Dichlorobenzene	0.843	0.815	3.3	98	0.00
76 T	1,4-Dichlorobenzene	0.825	0.797	3.4	97	0.00
77 T	1,2-Dichlorobenzene	0.835	0.798	4.4	98	0.00
78 T	Hexachloro-1,3-Butadiene	0.686	0.612	10.8	97	0.00
79 T	Naphthalene	1.432	1.331	7.1	99	0.00
80 T	Naphthalene,2-methyl-	0.679	0.502	26.1	101	0.00
81 T	1,2,4-Trichlorobenzene	0.699	0.633	9.4	99	0.00

(#) = Out of Range

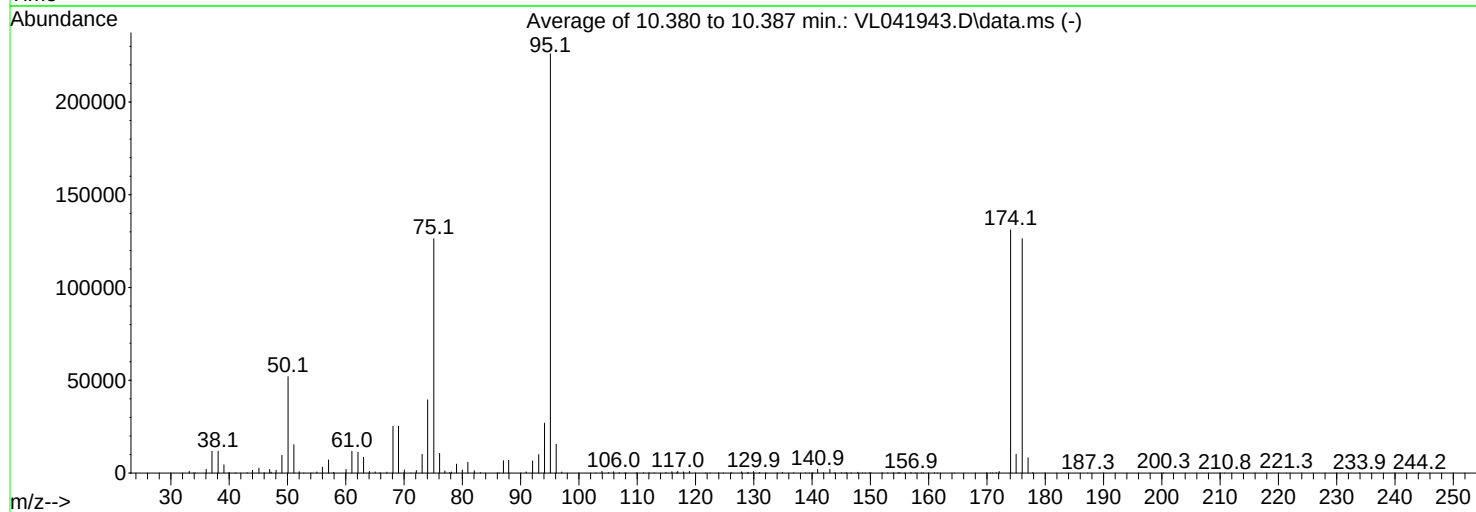
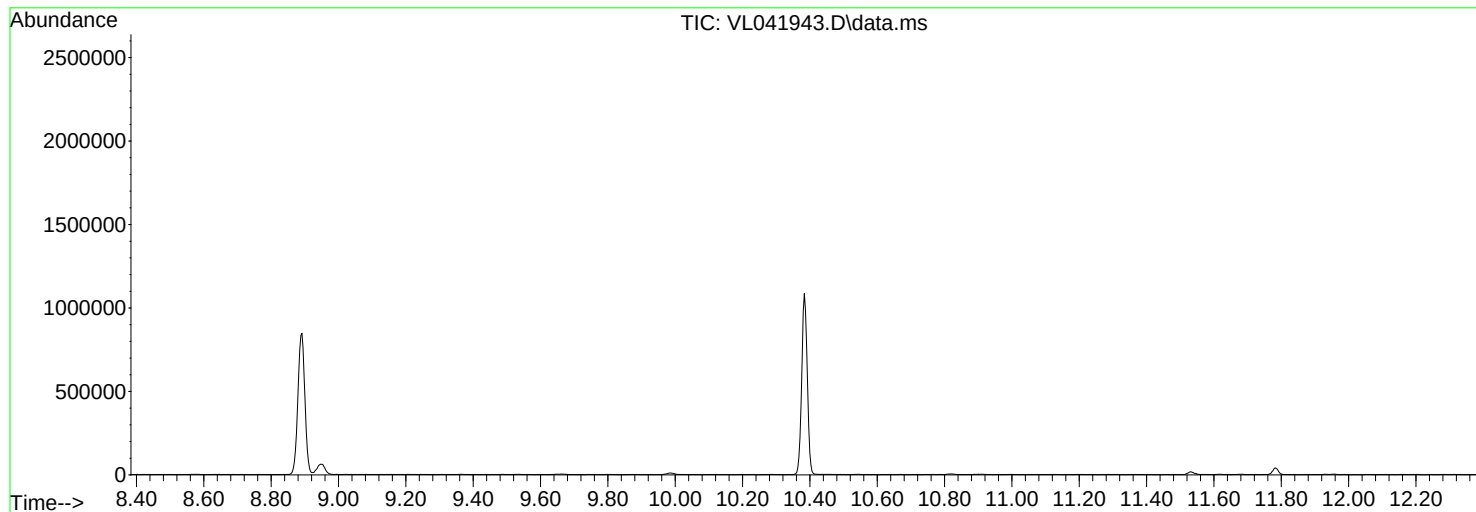
SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012725\
Data File : VL041943.D
Acq On : 27 Jan 2025 09:02
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Tue Jan 14 23:15:42 2025



AutoFind: Scans 3180, 3181, 3182; Background Corrected with Scan 3165

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	23.0	51995	PASS
75	95	30	66	55.9	126285	PASS
95	95	100	100	100.0	226027	PASS
96	95	5	9	6.9	15556	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	58.0	131061	PASS
175	174	4	9	7.8	10200	PASS
176	174	93	101	96.4	126352	PASS
177	176	5	9	6.5	8251	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012725\
 Data File : VL041944.D
 Acq On : 27 Jan 2025 10:05
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Quant Time: Jan 28 02:32:47 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Tue Jan 14 23:15:42 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 01/30/2025
 Supervised By : Mahesh Dadoda 01/30/2025

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

Internal Standards						
1) Bromochloromethane	2.793	49	149075	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.972	114	415161	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	364534	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	290387	10.114	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.100%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	213119	10.496	ppbv	98
3) Chlorodifluoromethane	1.479	51	227003	10.671	ppbv	100
4) Chloromethane	1.534	50	82387	10.788	ppbv	98
5) Vinyl Chloride	1.583	62	78132	10.101	ppbv	97
6) Bromomethane	1.670	94	37894	10.279	ppbv	98
7) Chloroethane	1.706	64	33025	10.973	ppbv	97
8) Dichlorotetrafluoroethane	1.557	85	184435	10.393	ppbv	98
9) Propene	1.486	41	90955	10.380	ppbv	95
10) Heptane	4.994	43	258967	11.056	ppbv	98
11) Trichlorofluoromethane	1.881	101	205801	9.743	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.146	101	170817	10.318	ppbv	99
13) Ethanol	1.725	45	4415	6.878	ppbv	94
14) Bromoethene	1.787	108	58083	9.583	ppbv	96
15) Acetone	1.839	43	169478	9.465	ppbv	99
16) 1,3-Butadiene	1.612	39	84348	10.496	ppbv	100
17) tert-Butyl alcohol	2.046	59	207930	9.435	ppbv	98
18) 1,1-Dichloroethene	2.039	96	75629	10.136	ppbv	99
19) Isopropyl Alcohol	1.890	45	96486	9.088	ppbv	95
20) Methylene Chloride	2.065	84	64225	9.076	ppbv	98
21) Allyl Chloride	2.101	41	129597	10.453	ppbv	98
22) trans-1,2-Dichloroethene	2.347	96	87196	10.355	ppbv	97
23) Vinyl Acetate	2.470	43	73473	8.278	ppbv #	95
24) 1,1-Dichloroethane	2.415	63	168681	10.356	ppbv	99
25) Ethyl Acetate	2.845	43	533237	11.044	ppbv	99
26) Hexane	2.832	57	211315	11.066	ppbv	97
27) Carbon Disulfide	2.156	76	205971	10.900	ppbv	97
28) Methyl tert-Butyl Ether	2.447	73	111584	7.645	ppbv	100
29) Chloroform	2.858	83	326439	10.814	ppbv	99
30) Cyclohexane	3.871	84	176628	10.664	ppbv	100
31) cis-1,2-Dichloroethene	2.729	61	205197	10.205	ppbv	93
32) 1,1,1-Trichloroethane	3.379	97	312255	10.810	ppbv	99
34) 2-Butanone	2.564	43	303997	11.514	ppbv	99
35) Carbon Tetrachloride	3.774	117	316836	12.150	ppbv	99
36) Benzene	3.667	78	432961	11.370	ppbv	97
37) 1,2-Dichloroethane	3.227	62	240456	11.244	ppbv	99
38) Trichloroethene	4.564	130	167416	11.079	ppbv	97
39) 1,2-Dichloropropane	4.324	63	148143	11.091	ppbv	98
40) 1,4-Dioxane	4.596	88	69928	10.367	ppbv #	99
41) Tetrahydrofuran	3.065	42	170732	11.899	ppbv	99
42) Bromodichloromethane	4.502	83	334591	11.669	ppbv	96
43) Methyl Methacrylate	4.897	69	156013	11.029	ppbv	98
44) 2,2,4-Trimethylpentane	4.655	57	717998	11.658	ppbv	99
45) t-1,3-Dichloropropene	6.435	75	147450	11.136	ppbv	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012725\
 Data File : VL041944.D
 Acq On : 27 Jan 2025 10:05
 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 01/30/2025
 Supervised By :Mahesh Dadoda 01/30/2025

Quant Time: Jan 28 02:32:47 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

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

QLast Update : Tue Jan 14 23:15:42 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.619	75	202424	11.644	ppbv	99
47) 1,1,2-Trichloroethane	6.597	97	164305	11.606	ppbv	97
48) Dibromochloromethane	7.399	129	262942	12.038	ppbv	100
49) Bromoform	9.493	173	216634	12.074	ppbv	99
50) 4-Methyl-2-Pentanone	5.771	43	410655	11.394	ppbv	100
51) 2-Hexanone	7.451	43	319063	11.521	ppbv #	98
52) Tetrachloroethene	8.238	164	137364	10.404	ppbv	98
53) Toluene	6.946	91	475146	11.456	ppbv	99
54) 1,2-Dibromoethane	7.668	107	224086	11.514	ppbv	94
56) 1,1,1,2-Tetrachloroethane	8.937	131	211703	11.640	ppbv	99
57) Chlorobenzene	8.933	112	376929	11.210	ppbv	97
58) Ethyl Benzene	9.364	91	655579	11.507	ppbv	99
59) m/p-Xylene	9.561	91	1069261m	23.416	ppbv	
60) o-Xylene	9.972	91	536013	11.826	ppbv	99
61) Styrene	9.882	104	240993	11.853	ppbv	100
62) Isopropylbenzene	10.548	105	806301	11.496	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.972	83	339396	11.718	ppbv	99
64) n-propylbenzene	10.998	120	209670	11.831	ppbv	98
65) tert-Butylbenzene	11.542	119	733219	11.472	ppbv	100
66) Benzyl Chloride	11.626	91	42157	10.656	ppbv	97
67) sec-Butylbenzene	11.778	105	1007276	11.445	ppbv	100
69) p-Isopropyltoluene	11.937	119	838003	11.563	ppbv	99
70) n-Butylbenzene	12.290	91	822628	11.445	ppbv	100
71) 2-Chlorotoluene	10.911	91	593791	11.445	ppbv	100
72) 4-Ethyltoluene	11.134	105	639849	11.802	ppbv	99
73) 1,3,5-Trimethylbenzene	11.212	105	552715	11.544	ppbv	94
74) 1,2,4-Trimethylbenzene	11.545	105	595508	11.485	ppbv	96
75) 1,3-Dichlorobenzene	11.617	146	342543	11.149	ppbv	99
76) 1,4-Dichlorobenzene	11.681	146	337079	11.213	ppbv	99
77) 1,2-Dichlorobenzene	11.956	146	339752	11.157	ppbv	99
78) Hexachloro-1,3-Butadiene	13.892	225	238004	9.523	ppbv	99
79) Naphthalene	13.523	128	531745	10.186	ppbv	99
80) Naphthalene,2-methyl-	14.468	142	172526	6.970	ppbv	99
81) 1,2,4-Trichlorobenzene	13.452	180	242148	9.503	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012725\
Data File : VL041944.D
Acq On : 27 Jan 2025 10:05
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
LabSampleId :
VSTDCCC010

Quant Time: Jan 28 02:32:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	1.000	1.000	0.0	98	0.00
2 T	Dichlorodifluoromethane	1.362	1.430	-5.0	108	0.00
3	Chlorodifluoromethane	1.427	1.523	-6.7	112	0.00
4	Chloromethane	0.512	0.553	-8.0	110	0.00
5 T	Vinyl Chloride	0.519	0.524	-1.0	110	0.00
6 T	Bromomethane	0.247	0.254	-2.8	109	0.00
7	Chloroethane	0.202	0.222	-9.9	113	0.00
8 T	Dichlorotetrafluoroethane	1.190	1.237	-3.9	111	0.00
9 T	Propene	0.588	0.610	-3.7	105	0.00
10 T	Heptane	1.571	1.737	-10.6	111	0.00
11 T	Trichlorofluoromethane	1.417	1.381	2.5	101	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.110	1.146	-3.2	106	0.00
13	Ethanol	0.043	0.030#	30.2#	106	0.00
14 T	Bromoethene	0.407	0.390	4.2	103	0.00
15 T	Acetone	1.201	1.137	5.3	112	0.00
16 T	1,3-Butadiene	0.539	0.566	-5.0	112	0.00
17	tert-Butyl alcohol	1.478	1.395	5.6	98	0.00
18 T	1,1-Dichloroethene	0.501	0.507	-1.2	108	0.00
19 T	Isopropyl Alcohol	0.712	0.647	9.1	102	0.00
20 T	Methylene Chloride	0.475	0.431	9.3	108	0.00
21 T	Allyl Chloride	0.832	0.869	-4.4	107	0.00
22 T	trans-1,2-Dichloroethene	0.565	0.585	-3.5	106	0.00
23 T	Vinyl Acetate	0.595	0.493	17.1	90	0.00
24 T	1,1-Dichloroethane	1.093	1.132	-3.6	109	0.00
25 T	Ethyl Acetate	3.239	3.577	-10.4	113	0.00
26 T	Hexane	1.281	1.418	-10.7	110	0.00
27 T	Carbon Disulfide	1.268	1.382	-9.0	108	0.00
28 T	Methyl tert-Butyl Ether	0.979	0.749	23.5	95	0.00
29 T	Chloroform	2.025	2.190	-8.1	112	0.00
30 T	Cyclohexane	1.111	1.185	-6.7	107	0.00
31 T	cis-1,2-Dichloroethene	1.349	1.376	-2.0	106	0.00
32 T	1,1,1-Trichloroethane	1.938	2.095	-8.1	108	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	92	0.00
34 T	2-Butanone	0.636	0.732	-15.1	112	0.00
35 T	Carbon Tetrachloride	0.628	0.763	-21.5	109	0.00
36 T	Benzene	0.917	1.043	-13.7	109	0.00
37 T	1,2-Dichloroethane	0.515	0.579	-12.4	109	0.00
38 T	Trichloroethene	0.364	0.403	-10.7	105	0.00
39 T	1,2-Dichloropropane	0.322	0.357	-10.9	108	0.00
40 T	1,4-Dioxane	0.162	0.168	-3.7	106	0.00
41 T	Tetrahydrofuran	0.346	0.411	-18.8	109	0.00
42 T	Bromodichloromethane	0.691	0.806	-16.6	109	0.00
43	Methyl Methacrylate	0.341	0.376	-10.3	103	0.00
44 T	2,2,4-Trimethylpentane	1.484	1.729	-16.5	110	0.00
45 T	t-1,3-Dichloropropene	0.319	0.355	-11.3	97	0.00
46 T	cis-1,3-Dichloropropene	0.419	0.488	-16.5	101	0.00
47 T	1,1,2-Trichloroethane	0.341	0.396	-16.1	110	0.00
48 T	Dibromochloromethane	0.526	0.633	-20.3	107	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012725\
Data File : VL041944.D
Acq On : 27 Jan 2025 10:05
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
LabSampleId :
VSTDCCC010

Quant Time: Jan 28 02:32:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	Bromoform	0.432	0.522	-20.8	105	0.00
50 T	4-Methyl-2-Pentanone	0.868	0.989	-13.9	110	0.00
51 T	2-Hexanone	0.667	0.769	-15.3	109	0.00
52 T	Tetrachloroethene	0.318	0.331	-4.1	105	0.00
53 T	Toluene	0.999	1.144	-14.5	105	0.00
54 T	1,2-Dibromoethane	0.469	0.540	-15.1	110	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	91	0.00
56	1,1,1,2-Tetrachloroethane	0.499	0.581	-16.4	110	0.00
57 T	Chlorobenzene	0.922	1.034	-12.1	111	0.00
58 T	Ethyl Benzene	1.563	1.798	-15.0	106	0.00
59 T	m/p-Xylene	1.253	1.467	-17.1	109	0.00
60 T	o-Xylene	1.243	1.470	-18.3	109	0.00
61 T	Styrene	0.558	0.661	-18.5	103	0.00
62	Isopropylbenzene	1.924	2.212	-15.0	109	0.00
63 T	1,1,2,2-Tetrachloroethane	0.795	0.931	-17.1	113	0.00
64	n-propylbenzene	0.486	0.575	-18.3	112	0.00
65	tert-Butylbenzene	1.753	2.011	-14.7	109	0.00
66 T	Benzyl Chloride	0.109	0.116	-6.4	92	0.00
67	sec-Butylbenzene	2.414	2.763	-14.5	109	0.00
68 S	1-Bromo-4-Fluorobenzene	0.788	0.797	-1.1	93	0.00
69	p-Isopropyltoluene	1.988	2.299	-15.6	109	0.00
70	n-Butylbenzene	1.972	2.257	-14.5	108	0.00
71	2-Chlorotoluene	1.423	1.629	-14.5	107	0.00
72 T	4-Ethyltoluene	1.487	1.755	-18.0	109	0.00
73 T	1,3,5-Trimethylbenzene	1.313	1.516	-15.5	109	0.00
74 T	1,2,4-Trimethylbenzene	1.422	1.634	-14.9	111	0.00
75 T	1,3-Dichlorobenzene	0.843	0.940	-11.5	110	0.00
76 T	1,4-Dichlorobenzene	0.825	0.925	-12.1	110	0.00
77 T	1,2-Dichlorobenzene	0.835	0.932	-11.6	112	0.00
78 T	Hexachloro-1,3-Butadiene	0.686	0.653	4.8	102	0.00
79 T	Naphthalene	1.432	1.459	-1.9	106	0.00
80 T	Naphthalene,2-methyl-	0.679	0.473	30.3#	93	0.00
81 T	1,2,4-Trichlorobenzene	0.699	0.664	5.0	101	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012725\
Data File : VL041946.D
Acq On : 27 Jan 2025 11:17
Operator : SY/MD
Sample : VL0127ABL02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0127ABL02

Quant Time: Jan 28 02:34:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.794	49	142661	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	386765	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	337301	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	257049	9.675	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.800%

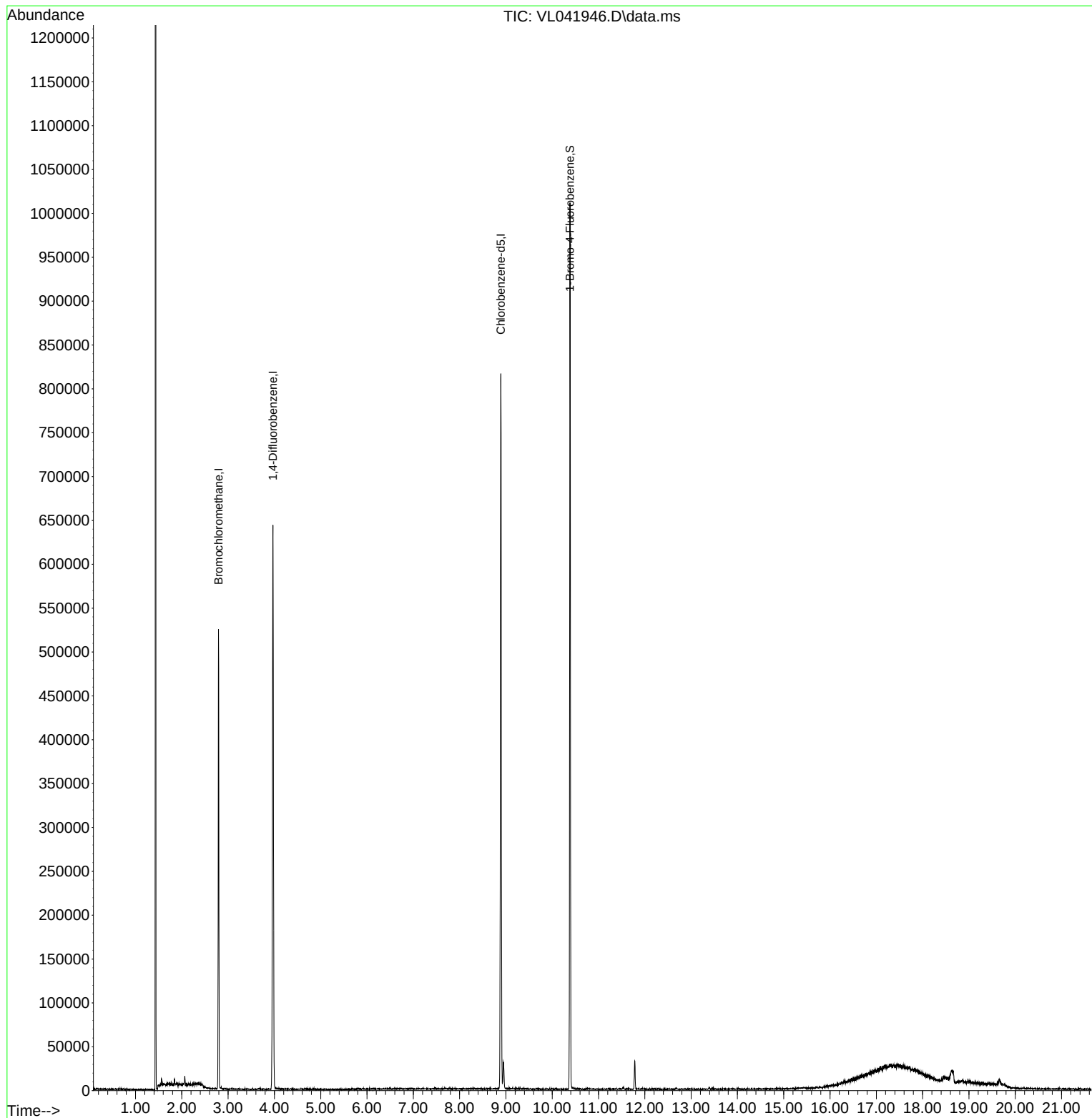
Target Compounds	Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012725\
Data File : VL041946.D
Acq On : 27 Jan 2025 11:17
Operator : SY/MD
Sample : VL0127ABL02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0127ABL02

Quant Time: Jan 28 02:34:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012725\
 Data File : VL041947.D
 Acq On : 27 Jan 2025 12:19
 Operator : SY/MD
 Sample : VL0127ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0127ABS01

Quant Time: Jan 28 02:34:21 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

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

QLast Update : Tue Jan 14 23:15:42 2025

Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 01/30/2025
 Supervised By : Mahesh Dadoda 01/30/2025

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

Internal Standards						
1) Bromochloromethane	2.797	49	143025	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	399567	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.895	117	348759	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.390 95 276515 10.066 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.700%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	206901	10.620	ppbv	99
3) Chlorodifluoromethane	1.480	51	214338	10.502	ppbv	99
4) Chloromethane	1.538	50	76820	10.485	ppbv	96
5) Vinyl Chloride	1.583	62	76382	10.292	ppbv	97
6) Bromomethane	1.671	94	35162	9.941	ppbv	96
7) Chloroethane	1.709	64	30210	10.463	ppbv	98
8) Dichlorotetrafluoroethane	1.557	85	172692	10.143	ppbv	100
9) Propene	1.486	41	86511	10.290	ppbv	97
10) Heptane	4.998	43	253457	11.279	ppbv	98
11) Trichlorofluoromethane	1.884	101	197641	9.753	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.146	101	156498	9.853	ppbv	98
13) Ethanol	1.729	45	4346	7.057	ppbv	90
14) Bromoethene	1.787	108	57049	9.810	ppbv	99
15) Acetone	1.842	43	158965	9.254	ppbv	99
16) 1,3-Butadiene	1.612	39	83092	10.777	ppbv	97
17) tert-Butyl alcohol	2.049	59	194278	9.189	ppbv	98
18) 1,1-Dichloroethene	2.040	96	69693	9.736	ppbv	96
19) Isopropyl Alcohol	1.894	45	92836	9.115	ppbv	94
20) Methylene Chloride	2.069	84	60388	8.895	ppbv	95
21) Allyl Chloride	2.104	41	116571	9.800	ppbv	99
22) trans-1,2-Dichloroethene	2.347	96	81007	10.027	ppbv	97
23) Vinyl Acetate	2.470	43	79222	9.304	ppbv #	96
24) 1,1-Dichloroethane	2.418	63	162663	10.409	ppbv	99
25) Ethyl Acetate	2.849	43	513887	11.094	ppbv	99
26) Hexane	2.836	57	200961	10.969	ppbv	95
27) Carbon Disulfide	2.156	76	192704	10.629	ppbv	99
28) Methyl tert-Butyl Ether	2.451	73	124946	8.923	ppbv	99
29) Chloroform	2.858	83	315137	10.881	ppbv	97
30) Cyclohexane	3.872	84	171665	10.802	ppbv	100
31) cis-1,2-Dichloroethene	2.732	61	198570	10.293	ppbv	92
32) 1,1,1-Trichloroethane	3.380	97	299609	10.811	ppbv	99
34) 2-Butanone	2.567	43	290154	11.419	ppbv	99
35) Carbon Tetrachloride	3.778	117	308983	12.311	ppbv	98
36) Benzene	3.671	78	414621	11.314	ppbv	99
37) 1,2-Dichloroethane	3.231	62	230482	11.198	ppbv	99
38) Trichloroethene	4.567	130	164755	11.329	ppbv	95
39) 1,2-Dichloropropane	4.334	63	143940	11.197	ppbv	97
40) 1,4-Dioxane	4.606	88	69223	10.663	ppbv #	97
41) Tetrahydrofuran	3.069	42	160711	11.637	ppbv	99
42) Bromodichloromethane	4.509	83	328091	11.889	ppbv	95
43) Methyl Methacrylate	4.901	69	156642	11.506	ppbv	99
44) 2,2,4-Trimethylpentane	4.661	57	691648	11.668	ppbv	99
45) t-1,3-Dichloropropene	6.435	75	146256	11.477	ppbv	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012725\
 Data File : VL041947.D
 Acq On : 27 Jan 2025 12:19
 Operator : SY/MD
 Sample : VL0127ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0127ABS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 01/30/2025
 Supervised By :Mahesh Dadoda 01/30/2025

Quant Time: Jan 28 02:34:21 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

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

QLast Update : Tue Jan 14 23:15:42 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.626	75	197114	11.781	ppbv	100
47) 1,1,2-Trichloroethane	6.607	97	162420	11.921	ppbv	96
48) Dibromochloromethane	7.406	129	248197	11.806	ppbv	99
49) Bromoform	9.497	173	205170	11.881	ppbv	99
50) 4-Methyl-2-Pentanone	5.778	43	396687	11.436	ppbv	100
51) 2-Hexanone	7.461	43	320223	12.014	ppbv #	97
52) Tetrachloroethene	8.238	164	137187	10.796	ppbv	95
53) Toluene	6.953	91	467674	11.715	ppbv	100
54) 1,2-Dibromoethane	7.671	107	215083	11.483	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.940	131	206531	11.870	ppbv	100
57) Chlorobenzene	8.937	112	373904	11.623	ppbv	97
58) Ethyl Benzene	9.371	91	647487	11.880	ppbv	96
59) m/p-Xylene	9.545	91	1065769m	24.395	ppbv	
60) o-Xylene	9.979	91	529149	12.203	ppbv	99
61) Styrene	9.885	104	243068	12.495	ppbv	99
62) Isopropylbenzene	10.552	105	793281	11.822	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.976	83	323789	11.685	ppbv	99
64) n-propylbenzene	11.002	120	206392	12.173	ppbv	99
65) tert-Butylbenzene	11.542	119	702412	11.487	ppbv	99
66) Benzyl Chloride	11.627	91	39829	10.523	ppbv	99
67) sec-Butylbenzene	11.779	105	980787	11.648	ppbv	100
69) p-Isopropyltoluene	11.937	119	813693	11.735	ppbv	100
70) n-Butylbenzene	12.293	91	802930	11.677	ppbv	99
71) 2-Chlorotoluene	10.914	91	587822	11.843	ppbv	100
72) 4-Ethyltoluene	11.138	105	644084	12.417	ppbv	99
73) 1,3,5-Trimethylbenzene	11.215	105	543491	11.865	ppbv	96
74) 1,2,4-Trimethylbenzene	11.549	105	591073	11.915	ppbv	95
75) 1,3-Dichlorobenzene	11.620	146	342442	11.649	ppbv	99
76) 1,4-Dichlorobenzene	11.682	146	338784	11.780	ppbv	99
77) 1,2-Dichlorobenzene	11.960	146	327583	11.244	ppbv	100
78) Hexachloro-1,3-Butadiene	13.895	225	217546	9.098	ppbv	99
79) Naphthalene	13.526	128	498588	9.982	ppbv	99
80) Naphthalene,2-methyl-	14.472	142	203477	8.593	ppbv	97
81) 1,2,4-Trichlorobenzene	13.452	180	220567	9.047	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012725\
Data File : VL041954.D
Acq On : 27 Jan 2025 16:11
Operator : SY/MD
Sample : QC012125 CAN 10268
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
QC012125 CAN 10268

Quant Time: Jan 28 02:39:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.800	49	136962	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.982	114	367356	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.901	117	317099	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.393	95	238739	9.559	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.600%

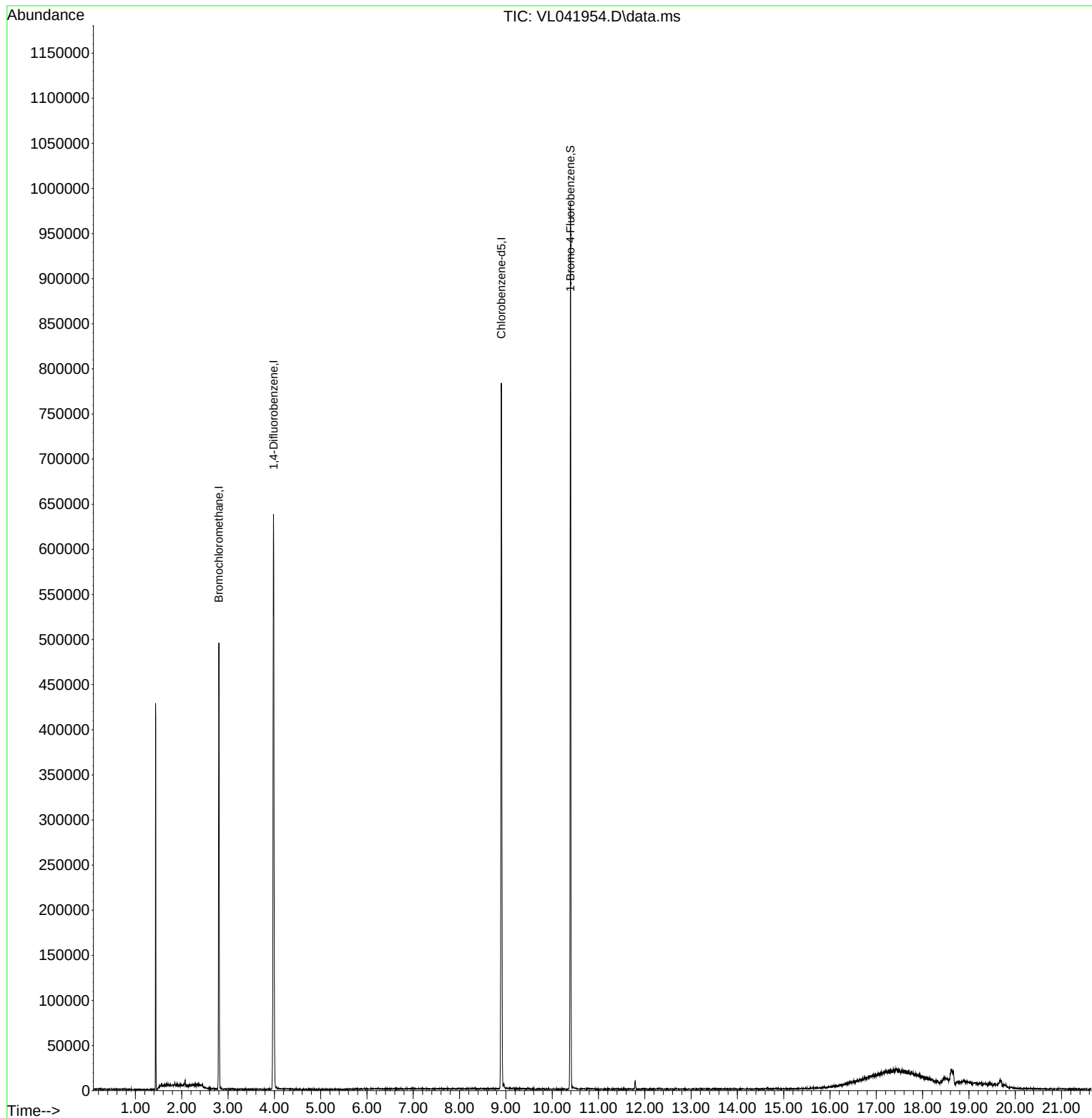
Target Compounds	Qvalue
------------------	--------

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012725\
Data File : VL041954.D
Acq On : 27 Jan 2025 16:11
Operator : SY/MD
Sample : QC012125 CAN 10268
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
QC012125 CAN 10268

Quant Time: Jan 28 02:39:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

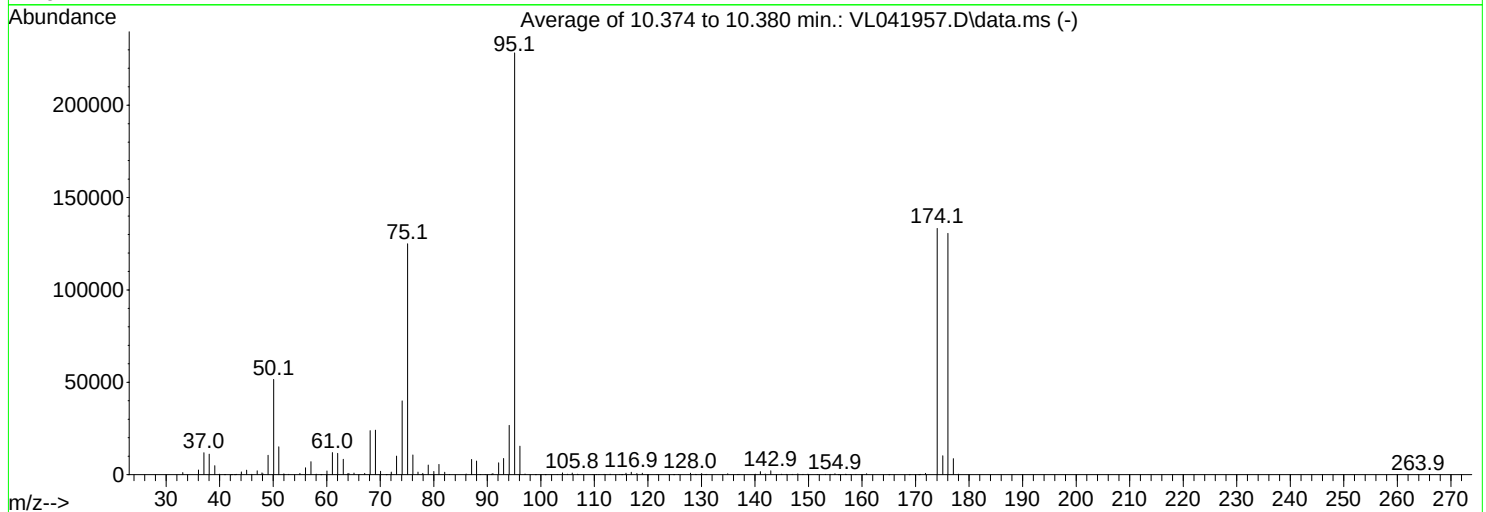
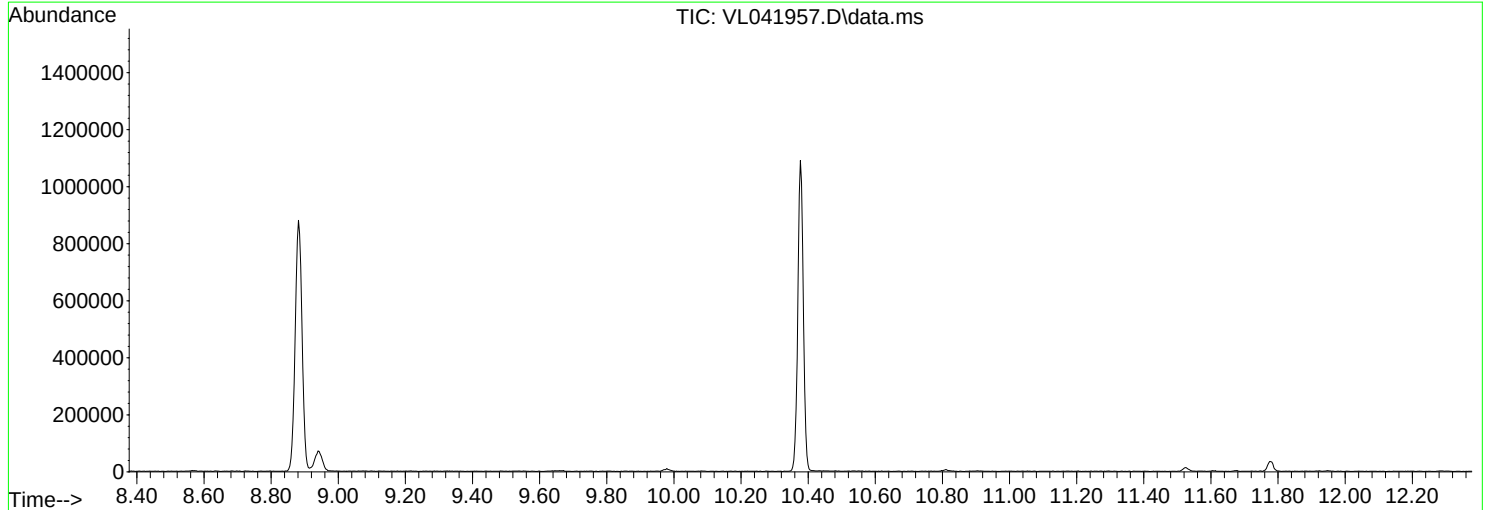


Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
Data File : VL041957.D
Acq On : 03 Feb 2025 09:47
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Tue Jan 14 23:15:42 2025



AutoFind: Scans 3178, 3179, 3180; Background Corrected with Scan 3165

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	8	40	22.6	51539	PASS
75	95	30	66	54.7	125019	PASS
95	95	100	100	100.0	228352	PASS
96	95	5	9	6.8	15439	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	58.4	133352	PASS
175	174	4	9	7.7	10244	PASS
176	174	93	101	98.0	130661	PASS
177	176	5	9	6.6	8641	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
 Data File : VL041958.D
 Acq On : 03 Feb 2025 10:48
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Quant Time: Feb 04 02:30:31 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

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

QLast Update : Tue Jan 14 23:15:42 2025

Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 02/04/2025
 Supervised By : Mahesh Dadoda 02/04/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.791	49	157470	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	429487	10.000	ppbv	-0.01
55) Chlorobenzene-d5	8.885	117	371333	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.381	95	289698	9.905	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.100%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	218366	10.181	ppbv	100
3) Chlorodifluoromethane	1.477	51	231387	10.298	ppbv	99
4) Chloromethane	1.535	50	86482	10.721	ppbv	97
5) Vinyl Chloride	1.580	62	83248	10.188	ppbv	98
6) Bromomethane	1.667	94	38248	9.822	ppbv	99
7) Chloroethane	1.706	64	34164	10.747	ppbv	99
8) Dichlorotetrafluoroethane	1.554	85	186350	9.941	ppbv	99
9) Propene	1.483	41	95902	10.361	ppbv	98
10) Heptane	4.985	43	266975	10.790	ppbv	97
11) Trichlorofluoromethane	1.878	101	212261	9.513	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.140	101	162930	9.317	ppbv	99
13) Ethanol	1.722	45	4416	6.513	ppbv	99
14) Bromoethene	1.784	108	60620	9.468	ppbv	100
15) Acetone	1.836	43	176459	9.330	ppbv	99
16) 1,3-Butadiene	1.609	39	86792	10.224	ppbv	99
17) tert-Butyl alcohol	2.043	59	206522	8.872	ppbv	99
18) 1,1-Dichloroethene	2.036	96	74437	9.444	ppbv	93
19) Isopropyl Alcohol	1.888	45	101008	9.007	ppbv	94
20) Methylene Chloride	2.062	84	62977	8.426	ppbv	95
21) Allyl Chloride	2.098	41	126741	9.677	ppbv	98
22) trans-1,2-Dichloroethene	2.344	96	86281	9.700	ppbv	97
23) Vinyl Acetate	2.467	43	84390	9.001	ppbv #	98
24) 1,1-Dichloroethane	2.412	63	171515	9.969	ppbv	100
25) Ethyl Acetate	2.839	43	552271	10.829	ppbv	100
26) Hexane	2.829	57	216097	10.713	ppbv	95
27) Carbon Disulfide	2.153	76	200432	10.041	ppbv	99
28) Methyl tert-Butyl Ether	2.444	73	149839	9.719	ppbv	100
29) Chloroform	2.852	83	333879	10.471	ppbv	100
30) Cyclohexane	3.862	84	183180	10.470	ppbv	98
31) cis-1,2-Dichloroethene	2.723	61	208686	9.825	ppbv	95
32) 1,1,1-Trichloroethane	3.370	97	318650	10.444	ppbv	99
34) 2-Butanone	2.561	43	312946	11.458	ppbv	99
35) Carbon Tetrachloride	3.765	117	320703	11.888	ppbv	99
36) Benzene	3.661	78	444350	11.280	ppbv	97
37) 1,2-Dichloroethane	3.221	62	241263	10.905	ppbv	99
38) Trichloroethene	4.551	130	175365	11.218	ppbv	90
39) 1,2-Dichloropropane	4.322	63	155514	11.255	ppbv	98
40) 1,4-Dioxane	4.590	88	74675	10.701	ppbv #	97
41) Tetrahydrofuran	3.059	42	174208	11.736	ppbv	98
42) Bromodichloromethane	4.496	83	344670	11.620	ppbv	96
43) Methyl Methacrylate	4.888	69	156216	10.675	ppbv	95
44) 2,2,4-Trimethylpentane	4.645	57	751181	11.790	ppbv	99
45) t-1,3-Dichloropropene	6.425	75	148089	10.811	ppbv	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
 Data File : VL041958.D
 Acq On : 03 Feb 2025 10:48
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 02/04/2025
 Supervised By : Mahesh Dadoda 02/04/2025

Quant Time: Feb 04 02:30:31 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

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

QLast Update : Tue Jan 14 23:15:42 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.610	75	202762	11.274	ppbv	99
47) 1,1,2-Trichloroethane	6.590	97	167097	11.410	ppbv	98
48) Dibromochloromethane	7.393	129	269437	11.924	ppbv	99
49) Bromoform	9.487	173	225054	12.125	ppbv	100
50) 4-Methyl-2-Pentanone	5.762	43	428753	11.499	ppbv	98
51) 2-Hexanone	7.445	43	336693	11.752	ppbv #	96
52) Tetrachloroethene	8.231	164	139466	10.211	ppbv	95
53) Toluene	6.940	91	483814	11.275	ppbv	100
54) 1,2-Dibromoethane	7.659	107	229203	11.384	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.931	131	220185	11.885	ppbv	99
57) Chlorobenzene	8.927	112	386374	11.280	ppbv	98
58) Ethyl Benzene	9.358	91	669174	11.531	ppbv	97
59) m/p-Xylene	9.555	91	1106231m	23.782	ppbv	
60) o-Xylene	9.969	91	555194	12.025	ppbv	98
61) Styrene	9.876	104	246355	11.895	ppbv	99
62) Isopropylbenzene	10.542	105	834260	11.677	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.966	83	362310	12.280	ppbv	99
64) n-propylbenzene	10.992	120	215585	11.942	ppbv	98
65) tert-Butylbenzene	11.536	119	746398	11.464	ppbv	99
66) Benzyl Chloride	11.620	91	44973	11.160	ppbv	98
67) sec-Butylbenzene	11.772	105	1044912	11.655	ppbv	100
69) p-Isopropyltoluene	11.931	119	867909	11.756	ppbv	99
70) n-Butylbenzene	12.284	91	848499	11.589	ppbv	100
71) 2-Chlorotoluene	10.905	91	615388	11.644	ppbv	98
72) 4-Ethyltoluene	11.128	105	658660	11.926	ppbv	100
73) 1,3,5-Trimethylbenzene	11.209	105	566361	11.613	ppbv	96
74) 1,2,4-Trimethylbenzene	11.542	105	616177	11.666	ppbv	90
75) 1,3-Dichlorobenzene	11.614	146	357966	11.437	ppbv	99
76) 1,4-Dichlorobenzene	11.675	146	352145	11.500	ppbv	100
77) 1,2-Dichlorobenzene	11.950	146	355386	11.457	ppbv	100
78) Hexachloro-1,3-Butadiene	13.886	225	247691	9.729	ppbv	99
79) Naphthalene	13.517	128	553420	10.407	ppbv	99
80) Naphthalene,2-methyl-	14.465	142	173813	6.894	ppbv	97
81) 1,2,4-Trichlorobenzene	13.446	180	251038	9.671	ppbv	98

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
Data File : VL041958.D
Acq On : 03 Feb 2025 10:48
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
LabSampleId :
VSTDCCC010

Quant Time: Feb 04 02:30:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	1.000	1.000	0.0	103	0.00
2 T	Dichlorodifluoromethane	1.362	1.387	-1.8	110	0.00
3	Chlorodifluoromethane	1.427	1.469	-2.9	114	0.00
4	Chloromethane	0.512	0.549	-7.2	115	0.00
5 T	Vinyl Chloride	0.519	0.529	-1.9	117	0.00
6 T	Bromomethane	0.247	0.243	1.6	110	0.00
7	Chloroethane	0.202	0.217	-7.4	116	0.00
8 T	Dichlorotetrafluoroethane	1.190	1.183	0.6	112	0.00
9 T	Propene	0.588	0.609	-3.6	111	0.00
10 T	Heptane	1.571	1.695	-7.9	115	-0.02
11 T	Trichlorofluoromethane	1.417	1.348	4.9	104	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.110	1.035	6.8	101	0.00
13	Ethanol	0.043	0.028#	34.9#	106	0.00
14 T	Bromoethene	0.407	0.385	5.4	107	0.00
15 T	Acetone	1.201	1.121	6.7	117	0.00
16 T	1,3-Butadiene	0.539	0.551	-2.2	115	0.00
17	tert-Butyl alcohol	1.478	1.312	11.2	97	0.00
18 T	1,1-Dichloroethene	0.501	0.473	5.6	107	0.00
19 T	Isopropyl Alcohol	0.712	0.641	10.0	107	0.00
20 T	Methylene Chloride	0.475	0.400	15.8	106	0.00
21 T	Allyl Chloride	0.832	0.805	3.2	105	0.00
22 T	trans-1,2-Dichloroethene	0.565	0.548	3.0	105	0.00
23 T	Vinyl Acetate	0.595	0.536	9.9	103	0.00
24 T	1,1-Dichloroethane	1.093	1.089	0.4	111	0.00
25 T	Ethyl Acetate	3.239	3.507	-8.3	117	0.00
26 T	Hexane	1.281	1.372	-7.1	113	0.00
27 T	Carbon Disulfide	1.268	1.273	-0.4	105	0.00
28 T	Methyl tert-Butyl Ether	0.979	0.952	2.8	127	0.00
29 T	Chloroform	2.025	2.120	-4.7	115	0.00
30 T	Cyclohexane	1.111	1.163	-4.7	111	0.00
31 T	cis-1,2-Dichloroethene	1.349	1.325	1.8	108	0.00
32 T	1,1,1-Trichloroethane	1.938	2.024	-4.4	110	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	96	-0.01
34 T	2-Butanone	0.636	0.729	-14.6	116	0.00
35 T	Carbon Tetrachloride	0.628	0.747	-18.9	110	-0.01
36 T	Benzene	0.917	1.035	-12.9	112	0.00
37 T	1,2-Dichloroethane	0.515	0.562	-9.1	109	0.00
38 T	Trichloroethene	0.364	0.408	-12.1	110	-0.01
39 T	1,2-Dichloropropane	0.322	0.362	-12.4	113	0.00
40 T	1,4-Dioxane	0.162	0.174	-7.4	113	-0.02
41 T	Tetrahydrofuran	0.346	0.406	-17.3	112	0.00
42 T	Bromodichloromethane	0.691	0.803	-16.2	112	-0.01
43	Methyl Methacrylate	0.341	0.364	-6.7	103	0.00
44 T	2,2,4-Trimethylpentane	1.484	1.749	-17.9	115	-0.01
45 T	t-1,3-Dichloropropene	0.319	0.345	-8.2	97	0.00
46 T	cis-1,3-Dichloropropene	0.419	0.472	-12.6	101	-0.01
47 T	1,1,2-Trichloroethane	0.341	0.389	-14.1	112	0.00
48 T	Dibromochloromethane	0.526	0.627	-19.2	110	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
Data File : VL041958.D
Acq On : 03 Feb 2025 10:48
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
LabSampleId :
VSTDCCC010

Quant Time: Feb 04 02:30:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	Bromoform	0.432	0.524	-21.3	109	0.00
50 T	4-Methyl-2-Pentanone	0.868	0.998	-15.0	115	-0.02
51 T	2-Hexanone	0.667	0.784	-17.5	115	0.00
52 T	Tetrachloroethene	0.318	0.325	-2.2	106	0.00
53 T	Toluene	0.999	1.126	-12.7	107	-0.01
54 T	1,2-Dibromoethane	0.469	0.534	-13.9	112	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	93	0.00
56	1,1,1,2-Tetrachloroethane	0.499	0.593	-18.8	114	0.00
57 T	Chlorobenzene	0.922	1.041	-12.9	114	0.00
58 T	Ethyl Benzene	1.563	1.802	-15.3	108	0.00
59 T	m/p-Xylene	1.253	1.490	-18.9	113	0.00
60 T	o-Xylene	1.243	1.495	-20.3	113	0.00
61 T	Styrene	0.558	0.663	-18.8	105	0.00
62	Isopropylbenzene	1.924	2.247	-16.8	112	0.00
63 T	1,1,2,2-Tetrachloroethane	0.795	0.976	-22.8	121	0.00
64	n-propylbenzene	0.486	0.581	-19.5	115	0.00
65	tert-Butylbenzene	1.753	2.010	-14.7	111	0.00
66 T	Benzyl Chloride	0.109	0.121	-11.0	98	0.00
67	sec-Butylbenzene	2.414	2.814	-16.6	114	0.00
68 S	1-Bromo-4-Fluorobenzene	0.788	0.780	1.0	92	0.00
69	p-Isopropyltoluene	1.988	2.337	-17.6	113	0.00
70	n-Butylbenzene	1.972	2.285	-15.9	112	0.00
71	2-Chlorotoluene	1.423	1.657	-16.4	111	0.00
72 T	4-Ethyltoluene	1.487	1.774	-19.3	112	0.00
73 T	1,3,5-Trimethylbenzene	1.313	1.525	-16.1	112	0.00
74 T	1,2,4-Trimethylbenzene	1.422	1.659	-16.7	114	0.00
75 T	1,3-Dichlorobenzene	0.843	0.964	-14.4	115	0.00
76 T	1,4-Dichlorobenzene	0.825	0.948	-14.9	114	0.00
77 T	1,2-Dichlorobenzene	0.835	0.957	-14.6	117	0.00
78 T	Hexachloro-1,3-Butadiene	0.686	0.667	2.8	106	0.00
79 T	Naphthalene	1.432	1.490	-4.1	110	0.00
80 T	Naphthalene,2-methyl-	0.679	0.468	31.1#	94	0.00
81 T	1,2,4-Trichlorobenzene	0.699	0.676	3.3	105	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
Data File : VL041960.D
Acq On : 03 Feb 2025 12:05
Operator : SY/MD
Sample : VL0203ABL02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0203ABL02

Quant Time: Feb 04 02:33:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	151198	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	407814	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	347345	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	262058	9.579	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.800%

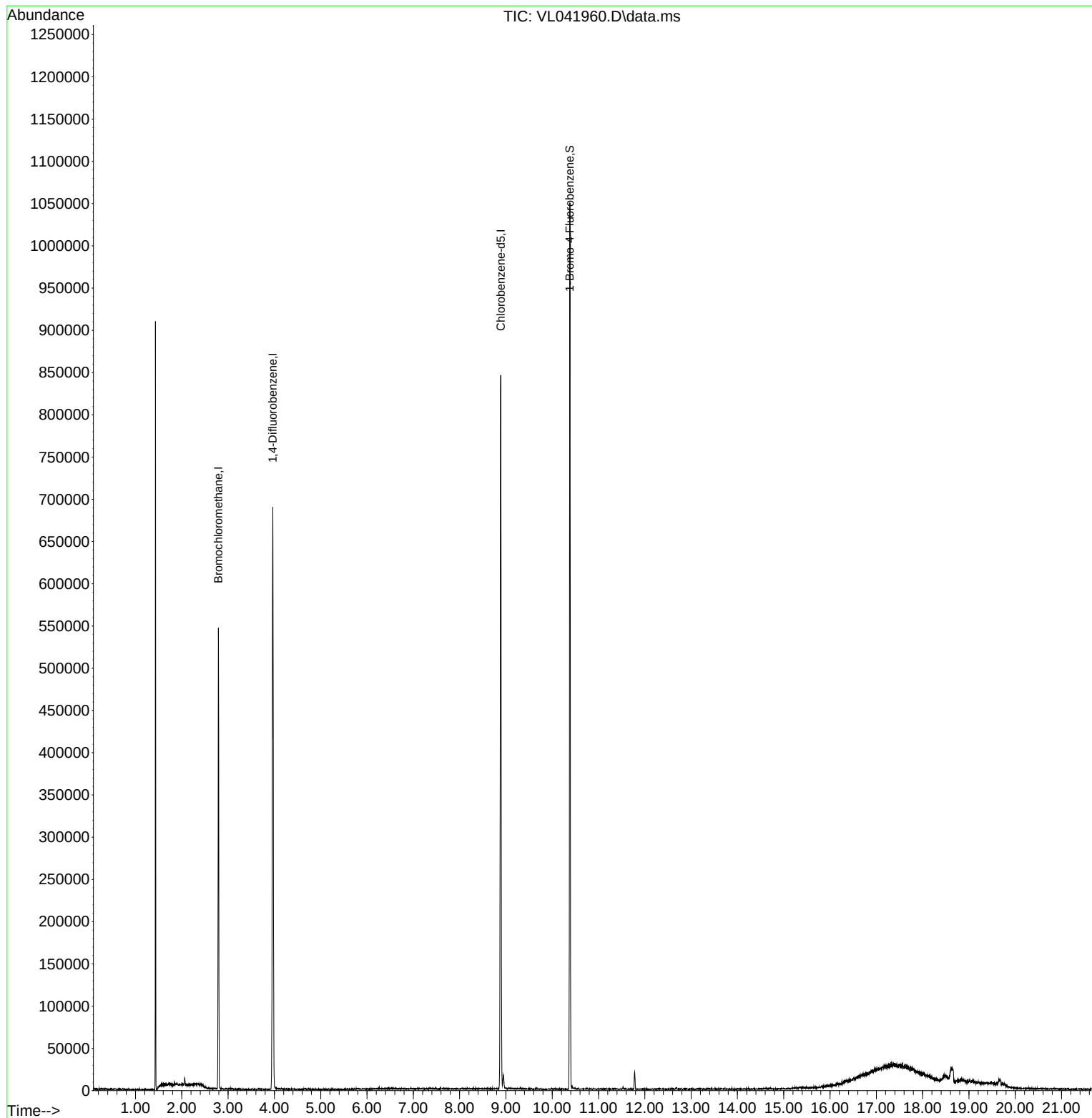
Target Compounds	Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
Data File : VL041960.D
Acq On : 03 Feb 2025 12:05
Operator : SY/MD
Sample : VL0203ABL02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0203ABL02

Quant Time: Feb 04 02:33:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
 Data File : VL041961.D
 Acq On : 03 Feb 2025 12:57
 Operator : SY/MD
 Sample : VL0203ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0203ABS01

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 02/04/2025
 Supervised By : Mahesh Dadoda 02/04/2025

Quant Time: Feb 04 02:34:05 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

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

QLast Update : Tue Jan 14 23:15:42 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.790	49	152847	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	418895	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	367437	10.000	ppbv	-0.01
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	287209	9.924	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.200%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	203280	9.764	ppbv	99
3) Chlorodifluoromethane	1.476	51	225433	10.336	ppbv	99
4) Chloromethane	1.535	50	81880	10.457	ppbv	94
5) Vinyl Chloride	1.583	62	77713	9.799	ppbv	98
6) Bromomethane	1.670	94	36640	9.694	ppbv	88
7) Chloroethane	1.706	64	31280	10.137	ppbv	94
8) Dichlorotetrafluoroethane	1.557	85	179670	9.875	ppbv	98
9) Propene	1.486	41	91411	10.174	ppbv	99
10) Heptane	4.985	43	161638	6.731	ppbv	99
11) Trichlorofluoromethane	1.881	101	201683	9.312	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.143	101	164938	9.717	ppbv	98
13) Ethanol	1.722	45	4592	6.978	ppbv	91
14) Bromoethene	1.784	108	57833	9.306	ppbv	99
15) Acetone	1.839	43	165826	9.033	ppbv	98
16) 1,3-Butadiene	1.609	39	83163	10.093	ppbv	98
17) tert-Butyl alcohol	2.043	59	198776	8.797	ppbv	98
18) 1,1-Dichloroethene	2.036	96	70323	9.192	ppbv	97
19) Isopropyl Alcohol	1.891	45	99004	9.096	ppbv	95
20) Methylene Chloride	2.065	84	62278	8.584	ppbv	99
21) Allyl Chloride	2.098	41	122853	9.664	ppbv	98
22) trans-1,2-Dichloroethene	2.344	96	85089	9.855	ppbv	98
23) Vinyl Acetate	2.467	43	86919	9.552	ppbv #	96
24) 1,1-Dichloroethane	2.412	63	166034	9.942	ppbv	99
25) Ethyl Acetate	2.842	43	536156	10.831	ppbv	100
26) Hexane	2.832	57	210051	10.728	ppbv	95
27) Carbon Disulfide	2.153	76	198444	10.242	ppbv	99
28) Methyl tert-Butyl Ether	2.444	73	110198	7.364	ppbv	99
29) Chloroform	2.855	83	325966	10.532	ppbv	96
30) Cyclohexane	3.865	84	173840	10.236	ppbv	98
31) cis-1,2-Dichloroethene	2.726	61	204611	9.925	ppbv	95
32) 1,1,1-Trichloroethane	3.376	97	305623	10.320	ppbv	99
34) 2-Butanone	2.564	43	302190	11.344	ppbv	99
35) Carbon Tetrachloride	3.768	117	309917	11.778	ppbv	97
36) Benzene	3.664	78	426241	11.094	ppbv	99
37) 1,2-Dichloroethane	3.224	62	235620	10.920	ppbv	99
38) Trichloroethene	4.554	130	167629	10.995	ppbv	97
39) 1,2-Dichloropropane	4.318	63	151232	11.221	ppbv	97
40) 1,4-Dioxane	4.590	88	74021	10.876	ppbv #	100
41) Tetrahydrofuran	3.062	42	169798	11.728	ppbv	98
42) Bromodichloromethane	4.496	83	335595	11.600	ppbv	98
43) Methyl Methacrylate	4.884	69	102724	7.197	ppbv	96
44) 2,2,4-Trimethylpentane	4.648	57	725196	11.670	ppbv	99
45) t-1,3-Dichloropropene	6.422	75	145441	10.886	ppbv	94

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
 Data File : VL041961.D
 Acq On : 03 Feb 2025 12:57
 Operator : SY/MD
 Sample : VL0203ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0203ABS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/04/2025
 Supervised By :Mahesh Dadoda 02/04/2025

Quant Time: Feb 04 02:34:05 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

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

QLast Update : Tue Jan 14 23:15:42 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.609	75	122518	6.985	ppbv	98
47) 1,1,2-Trichloroethane	6.590	97	167038	11.694	ppbv	95
48) Dibromochloromethane	7.390	129	260120	11.803	ppbv	100
49) Bromoform	9.487	173	217089	11.991	ppbv	99
50) 4-Methyl-2-Pentanone	5.765	43	267280	7.350	ppbv	98
51) 2-Hexanone	7.445	43	328817	11.767	ppbv #	96
52) Tetrachloroethene	8.225	164	136143	10.220	ppbv	97
53) Toluene	6.936	91	469033	11.207	ppbv	99
54) 1,2-Dibromoethane	7.655	107	222983	11.356	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.927	131	214758	11.715	ppbv	99
57) Chlorobenzene	8.924	112	382465	11.284	ppbv	99
58) Ethyl Benzene	9.357	91	646825	11.264	ppbv	98
59) m/p-Xylene	9.555	91	1068374m	23.212	ppbv	
60) o-Xylene	9.966	91	537558	11.766	ppbv	98
61) Styrene	9.872	104	239767	11.699	ppbv	98
62) Isopropylbenzene	10.542	105	802003	11.345	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.966	83	357905	12.260	ppbv	100
64) n-propylbenzene	10.992	120	208748	11.686	ppbv	99
65) tert-Butylbenzene	11.536	119	731901	11.360	ppbv	99
66) Benzyl Chloride	11.620	91	41013	10.285	ppbv	97
67) sec-Butylbenzene	11.772	105	1015579	11.448	ppbv	99
69) p-Isopropyltoluene	11.931	119	836492	11.451	ppbv	98
70) n-Butylbenzene	12.290	91	824000	11.374	ppbv	100
71) 2-Chlorotoluene	10.905	91	592446	11.329	ppbv	99
72) 4-Ethyltoluene	11.131	105	634050	11.602	ppbv	99
73) 1,3,5-Trimethylbenzene	11.209	105	551677	11.432	ppbv	97
74) 1,2,4-Trimethylbenzene	11.542	105	602744	11.533	ppbv	96
75) 1,3-Dichlorobenzene	11.613	146	348392	11.249	ppbv	99
76) 1,4-Dichlorobenzene	11.678	146	344428	11.367	ppbv	99
77) 1,2-Dichlorobenzene	11.953	146	350456	11.418	ppbv	98
78) Hexachloro-1,3-Butadiene	13.892	225	239328	9.500	ppbv	99
79) Naphthalene	13.523	128	539332	10.249	ppbv	98
80) Naphthalene,2-methyl-	14.468	142	172189	6.902	ppbv	97
81) 1,2,4-Trichlorobenzene	13.452	180	244059	9.502	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
Data File : VL041974.D
Acq On : 04 Feb 2025 08:03
Operator : SY/MD
Sample : QC020325 CAN 10599
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
QC020325 CAN 10599

Quant Time: Feb 04 08:27:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.797	49	148524	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	371804	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	315945	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.390	95	232316	9.336	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.400%

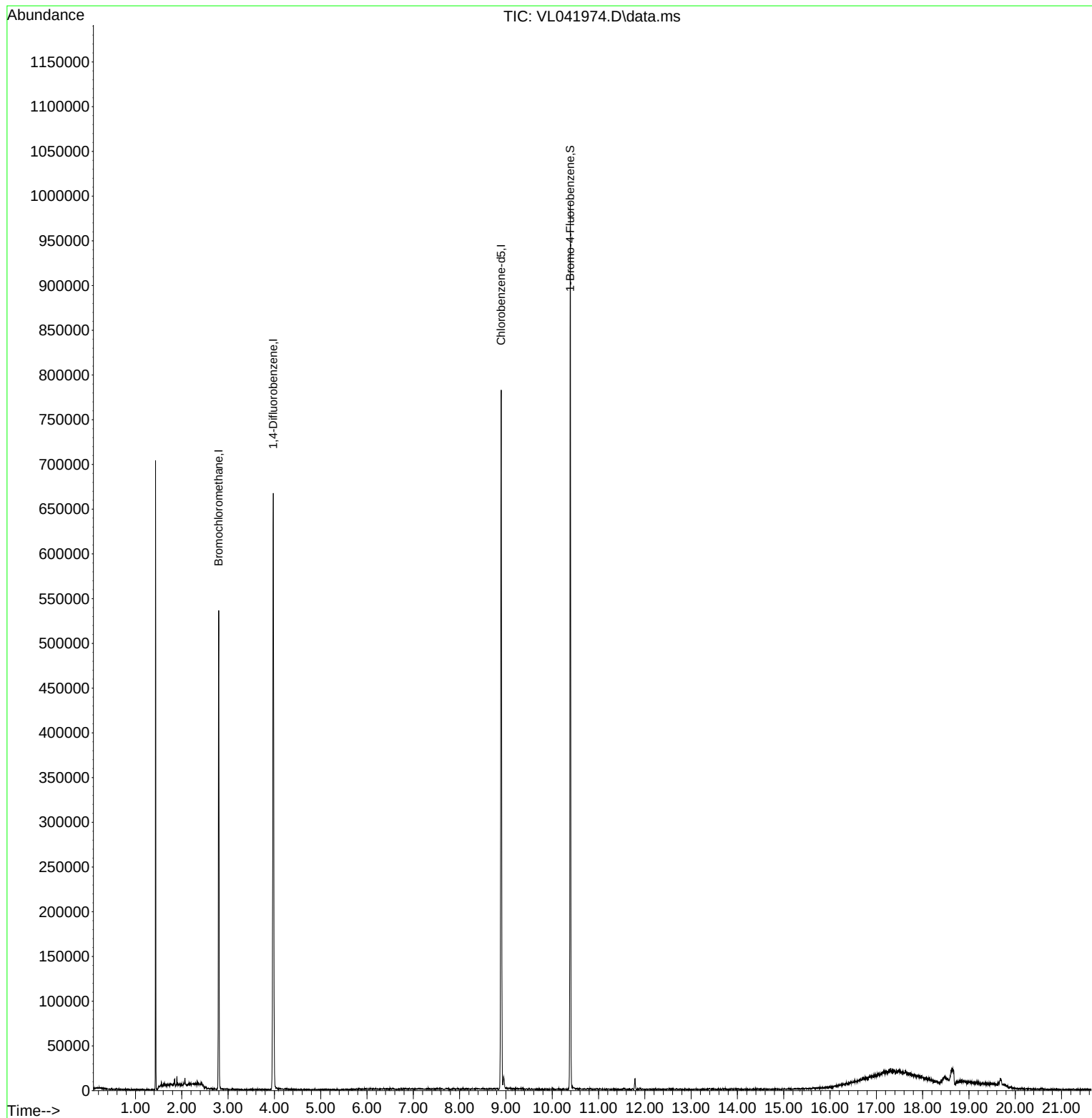
Target Compounds	Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
Data File : VL041974.D
Acq On : 04 Feb 2025 08:03
Operator : SY/MD
Sample : QC020325 CAN 10599
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
QC020325 CAN 10599

Quant Time: Feb 04 08:27:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

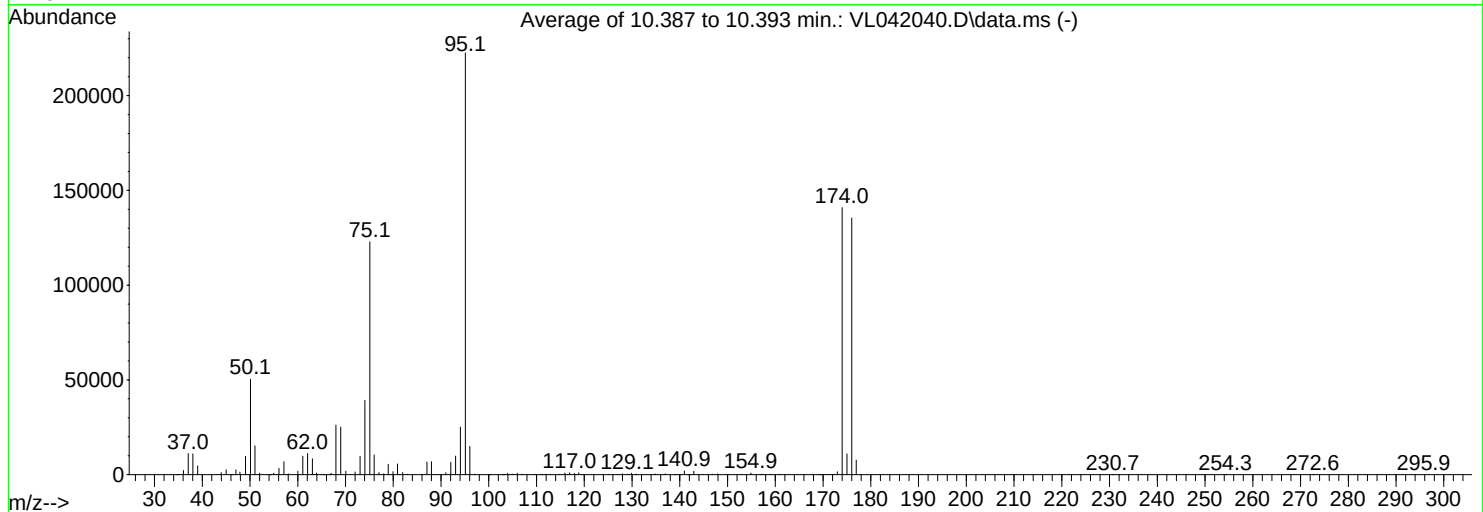
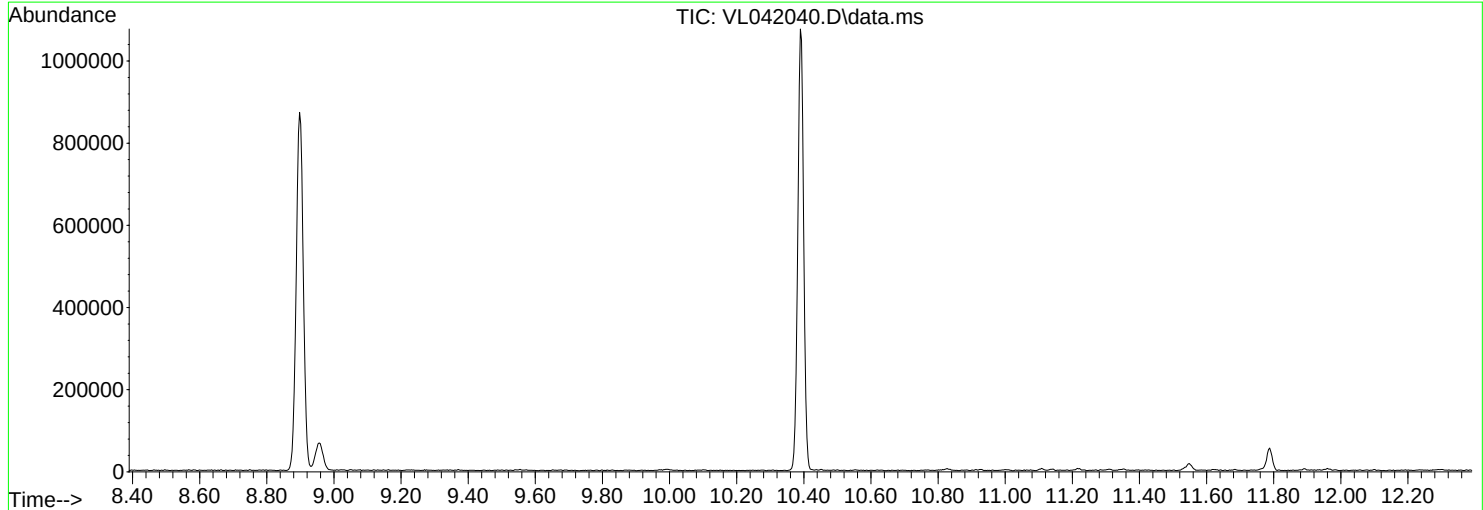


Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042040.D
Acq On : 25 Feb 2025 07:56
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Wed Feb 26 01:08:36 2025



AutoFind: Scans 3182, 3183, 3184; Background Corrected with Scan 3168

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	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

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_L Fri Aug 2

QLast Update : Tue Feb 18 00:13:37 2025

Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Mahesh Dadoda 03/06/2025
 Supervised By : Semsettin Yesilyurt 03/06/2025

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

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_L Fri Aug 2

QLast Update : Tue Feb 18 00:13:37 2025

Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 03/06/2025
 Supervised By :Semsettin Yesilyurt 03/06/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.629	75	218294	7.809	ppbv	99
47) 1,1,2-Trichloroethane	6.610	97	152556	7.723	ppbv	97
48) Dibromochloromethane	7.412	129	251213	7.593	ppbv	99
49) Bromoform	9.503	173	222057	8.183	ppbv	98
50) 4-Methyl-2-Pentanone	5.787	43	428434	7.666	ppbv	100
51) 2-Hexanone	7.464	43	352331	7.709	ppbv #	96
52) Tetrachloroethene	8.244	164	138263	7.743	ppbv	94
53) Toluene	6.959	91	460041	7.541	ppbv	97
54) 1,2-Dibromoethane	7.678	107	211395	7.772	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.943	131	188811	7.049	ppbv	97
57) Chlorobenzene	8.940	112	340525	7.735	ppbv	97
58) Ethyl Benzene	9.374	91	633939	7.739	ppbv	98
59) m/p-Xylene	9.552	91	995259m	15.427	ppbv	
60) o-Xylene	9.982	91	493069	7.557	ppbv	97
61) Styrene	9.888	104	246161	7.912	ppbv	98
62) Isopropylbenzene	10.555	105	736884	7.522	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.979	83	317313	7.538	ppbv	100
64) n-propylbenzene	11.005	120	196044	8.145	ppbv	90
65) tert-Butylbenzene	11.545	119	648698	7.596	ppbv	97
66) Benzyl Chloride	11.630	91	57345	6.699	ppbv #	97
67) sec-Butylbenzene	11.782	105	928863	7.744	ppbv	99
69) p-Isopropyltoluene	11.940	119	756264	7.702	ppbv	98
70) n-Butylbenzene	12.296	91	774646	8.009	ppbv	99
71) 2-Chlorotoluene	10.918	91	566619	7.681	ppbv	97
72) 4-Ethyltoluene	11.141	105	606538	7.934	ppbv	98
73) 1,3,5-Trimethylbenzene	11.219	105	516875	7.838	ppbv	100
74) 1,2,4-Trimethylbenzene	11.552	105	550412	7.777	ppbv	98
75) 1,3-Dichlorobenzene	11.623	146	325160	8.535	ppbv	97
76) 1,4-Dichlorobenzene	11.685	146	322404	8.678	ppbv	97
77) 1,2-Dichlorobenzene	11.963	146	312942	8.593	ppbv	96
78) Hexachloro-1,3-Butadiene	13.895	225	238217	7.907	ppbv	100
79) Naphthalene	13.526	128	513192	7.372	ppbv	99
80) Naphthalene,2-methyl-	14.471	142	210405	6.676	ppbv	95
81) 1,2,4-Trichlorobenzene	13.455	180	241031	8.517	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042042.D
 Acq On : 25 Feb 2025 09:29
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Quant Time: Feb 25 10:12:18 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

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

QLast Update : Tue Feb 18 00:13:37 2025

Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 02/26/2025
 Supervised By : Mahesh Dadoda 02/26/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.800	49	160999	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.981	114	427051	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.901	117	377910	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.393	95	289049	9.273	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.700%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.505	85	35122	1.267	ppbv	95
3) Chlorodifluoromethane	1.483	51	49423	1.613	ppbv	94
4) Chloromethane	1.538	50	12833	1.192	ppbv #	87
5) Vinyl Chloride	1.586	62	11611	0.902	ppbv	97
6) Bromomethane	1.674	94	5996	1.201	ppbv	97
7) Chloroethane	1.712	64	5014	1.195	ppbv	90
8) Dichlorotetrafluoroethane	1.560	85	29028	1.191	ppbv	99
9) Propene	1.489	41	20484	1.551	ppbv	95
10) Heptane	5.004	43	63098	1.720	ppbv	94
11) Trichlorofluoromethane	1.884	101	36041	1.292	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.149	101	27846	1.280	ppbv	90
13) Ethanol	1.729	45	1291	0.866	ppbv	91
14) Bromoethene	1.790	108	9642	1.187	ppbv	93
15) Acetone	1.842	43	30058	1.131	ppbv	100
16) 1,3-Butadiene	1.615	39	13471	1.069	ppbv	100
17) tert-Butyl alcohol	2.052	59	38684	1.176	ppbv	96
18) 1,1-Dichloroethene	2.043	96	12417	1.195	ppbv	93
19) Isopropyl Alcohol	1.894	45	17927	1.203	ppbv	96
20) Methylene Chloride	2.072	84	10587	1.058	ppbv #	80
21) Allyl Chloride	2.107	41	20564	1.069	ppbv	96
22) trans-1,2-Dichloroethene	2.350	96	14475	1.283	ppbv	81
23) Vinyl Acetate	2.473	43	22394	1.556	ppbv #	94
24) 1,1-Dichloroethane	2.421	63	27804	1.214	ppbv	99
25) Ethyl Acetate	2.852	43	121593	1.667	ppbv	100
26) Hexane	2.839	57	48912	1.671	ppbv	98
27) Carbon Disulfide	2.159	76	33222	1.207	ppbv #	57
28) Methyl tert-Butyl Ether	2.457	73	26968	1.507	ppbv	100
29) Chloroform	2.865	83	63463	1.497	ppbv	92
30) Cyclohexane	3.878	84	40420	1.702	ppbv	98
31) cis-1,2-Dichloroethene	2.732	61	46690	1.614	ppbv	96
32) 1,1,1-Trichloroethane	3.386	97	62586	1.331	ppbv	97
34) 2-Butanone	2.573	43	69370	1.888	ppbv	96
35) Carbon Tetrachloride	3.784	117	61895	1.493	ppbv	97
36) Benzene	3.677	78	94277	1.822	ppbv	98
37) 1,2-Dichloroethane	3.237	62	51050	1.734	ppbv	99
38) Trichloroethene	4.574	130	38184	1.817	ppbv	99
39) 1,2-Dichloropropane	4.341	63	35396	1.866	ppbv	95
40) 1,4-Dioxane	4.622	88	15442	1.565	ppbv #	28
41) Tetrahydrofuran	3.075	42	40365	1.922	ppbv	96
42) Bromodichloromethane	4.512	83	69154	1.733	ppbv	94
43) Methyl Methacrylate	4.910	69	36393	1.543	ppbv	94
44) 2,2,4-Trimethylpentane	4.664	57	166945	1.901	ppbv	97
45) t-1,3-Dichloropropene	6.448	75	35707	1.604	ppbv	93

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042042.D
 Acq On : 25 Feb 2025 09:29
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Quant Time: Feb 25 10:12:18 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

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

QLast Update : Tue Feb 18 00:13:37 2025

Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 02/26/2025
 Supervised By : Mahesh Dadoda 02/26/2025

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

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

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

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 02/26/2025
 Supervised By : Mahesh Dadoda 02/26/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.800	49	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

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

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)
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 : VL042044.D
 Acq On : 25 Feb 2025 10:31
 Operator : SY/MD
 Sample : VSTDIC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Quant Time: Feb 25 10:56:41 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

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

QLast Update : Tue Feb 25 10:31:48 2025

Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 02/26/2025
 Supervised By : Mahesh Dadoda 02/26/2025

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

Internal Standards						
1) Bromochloromethane	2.797	49	159644	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	421340	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	365954	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.390 95 281042 9.310 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 93.100%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	8852	0.322	ppbv	98
3) Chlorodifluoromethane	1.479	51	11921	0.392	ppbv	94
4) Chloromethane	1.537	50	3497	0.327	ppbv #	88
5) Vinyl Chloride	1.583	62	3005	0.235	ppbv	98
6) Bromomethane	1.673	94	1359	0.275	ppbv	92
7) Chloroethane	1.709	64	1205	0.290	ppbv	89
8) Dichlorotetrafluoroethane	1.557	85	7123	0.295	ppbv	99
9) Propene	1.486	41	4904	0.374	ppbv	94
10) Heptane	5.004	43	15731	0.432	ppbv	98
11) Trichlorofluoromethane	1.884	101	8429	0.305	ppbv	92
12) 1,1,2-Trichlorotrifluo...	2.146	101	7336	0.340	ppbv	98
13) Ethanol	1.725	45	426	0.288	ppbv	75
14) Bromoethene	1.787	108	2598	0.323	ppbv #	89
15) Acetone	1.842	43	8655	0.328	ppbv	96
16) 1,3-Butadiene	1.615	39	3803	0.304	ppbv	97
17) tert-Butyl alcohol	2.049	59	9447	0.290	ppbv #	90
18) 1,1-Dichloroethene	2.039	96	3173	0.308	ppbv	94
19) Isopropyl Alcohol	1.894	45	4481	0.303	ppbv #	32
20) Methylene Chloride	2.068	84	3423	0.345	ppbv	97
21) Allyl Chloride	2.104	41	5640	0.296	ppbv	100
22) trans-1,2-Dichloroethene	2.347	96	3838m	0.343	ppbv	
23) Vinyl Acetate	2.473	43	5499	0.385	ppbv #	86
24) 1,1-Dichloroethane	2.418	63	7396	0.326	ppbv #	88
25) Ethyl Acetate	2.848	43	30593	0.423	ppbv	98
26) Hexane	2.832	57	12739	0.439	ppbv	98
27) Carbon Disulfide	2.159	76	8316	0.305	ppbv #	15
28) Methyl tert-Butyl Ether	2.450	73	5185	0.292	ppbv #	80
29) Chloroform	2.858	83	17278	0.411	ppbv	93
30) Cyclohexane	3.874	84	9209	0.391	ppbv	88
31) cis-1,2-Dichloroethene	2.729	61	11344	0.395	ppbv	97
32) 1,1,1-Trichloroethane	3.382	97	15027	0.322	ppbv	93
34) 2-Butanone	2.570	43	17555	0.484	ppbv	99
35) Carbon Tetrachloride	3.780	117	14223	0.348	ppbv	90
36) Benzene	3.670	78	22728	0.445	ppbv	95
37) 1,2-Dichloroethane	3.230	62	13141	0.452	ppbv	100
38) Trichloroethene	4.570	130	9115	0.440	ppbv #	87
39) 1,2-Dichloropropane	4.331	63	8877m	0.474	ppbv	
40) 1,4-Dioxane	4.622	88	4046m	0.416	ppbv	
41) Tetrahydrofuran	3.078	42	9880	0.477	ppbv	98
42) Bromodichloromethane	4.505	83	16973	0.431	ppbv #	96
43) Methyl Methacrylate	4.904	69	8428	0.362	ppbv	93
44) 2,2,4-Trimethylpentane	4.661	57	40623	0.469	ppbv	98
45) t-1,3-Dichloropropene	6.441	75	8720m	0.397	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042044.D
 Acq On : 25 Feb 2025 10:31
 Operator : SY/MD
 Sample : VSTDIC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

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)
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 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	2.803	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

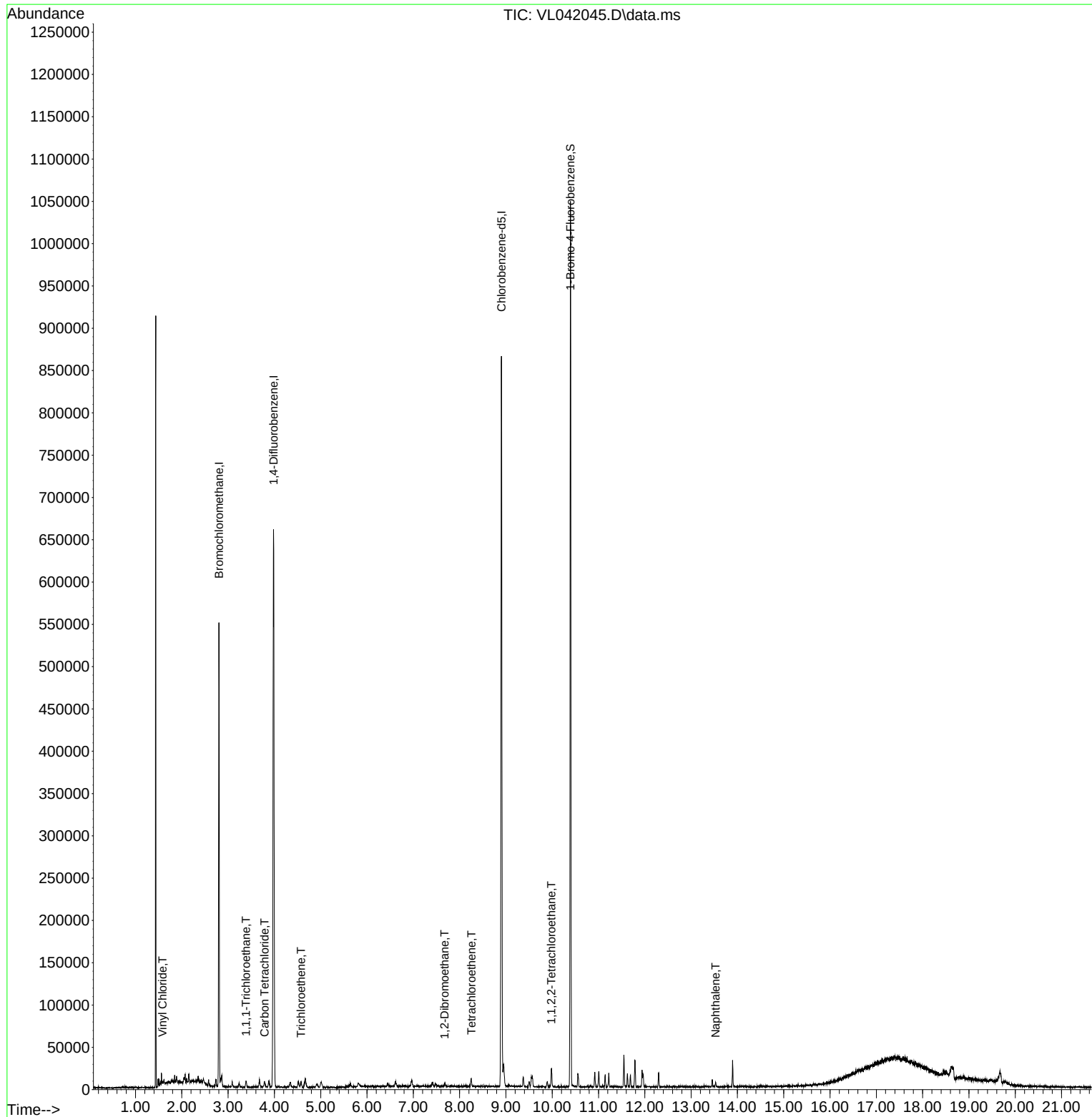
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042045.D
Acq On : 25 Feb 2025 11:03
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

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

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 : VL042046.D
Acq On : 25 Feb 2025 11:34
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

Quant Time: Feb 25 12:34:19 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

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

QLast Update : Tue Feb 25 10:31:48 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.797	49	160156	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	410900	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	353154	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	272906	9.368	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.700%
Target Compounds						
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

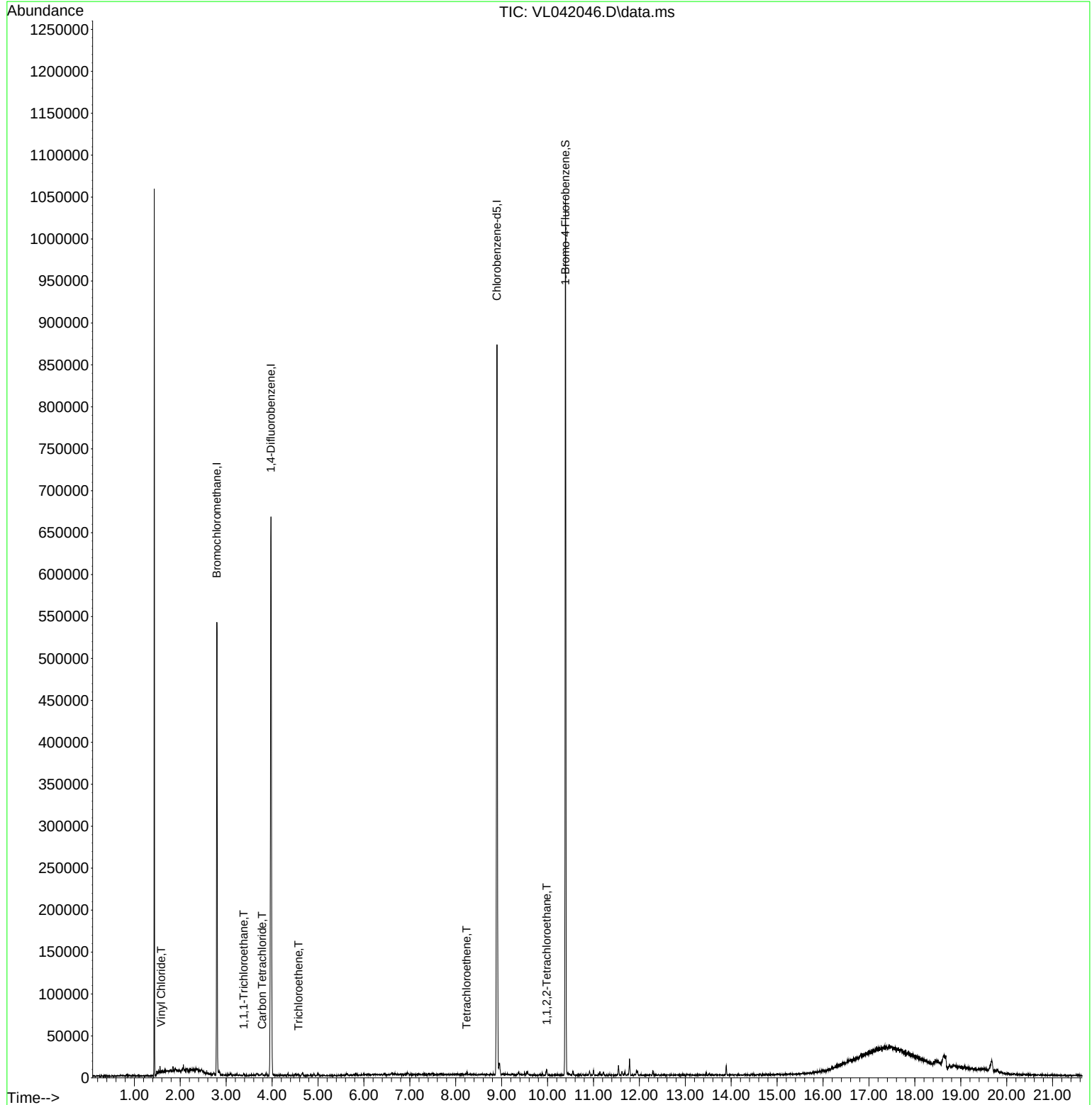
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042046.D
Acq On : 25 Feb 2025 11:34
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

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

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

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 02/26/2025
 Supervised By : Mahesh Dadoda 02/26/2025

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

Internal Standards						
1) Bromochloromethane	2.800	49	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

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

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)
46) cis-1,3-Dichloropropene	5.635	75	317266	11.935	ppbv	98
47) 1,1,2-Trichloroethane	6.609	97	226021	12.032	ppbv	95
48) Dibromochloromethane	7.412	129	369666	11.750	ppbv	99
49) Bromoform	9.503	173	317322	12.297	ppbv	99
50) 4-Methyl-2-Pentanone	5.787	43	650307	12.237	ppbv	99
51) 2-Hexanone	7.461	43	530165	12.198	ppbv #	100
52) Tetrachloroethene	8.247	164	203233	11.968	ppbv	94
53) Toluene	6.959	91	673822	11.615	ppbv	99
54) 1,2-Dibromoethane	7.677	107	309982	11.985	ppbv	95
56) 1,1,1,2-Tetrachloroethane	8.946	131	276326	10.979	ppbv	99
57) Chlorobenzene	8.943	112	494606	11.957	ppbv	98
58) Ethyl Benzene	9.373	91	922265	11.984	ppbv	100
59) m/p-Xylene	9.571	91	1456036m	24.020	ppbv	
60) o-Xylene	9.982	91	712735	11.626	ppbv	99
61) Styrene	9.888	104	363855	12.446	ppbv	99
62) Isopropylbenzene	10.558	105	1068777	11.612	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.982	83	459839	11.626	ppbv	100
64) n-propylbenzene	11.005	120	282364	12.486	ppbv	99
65) tert-Butylbenzene	11.548	119	924810	11.526	ppbv	99
66) Benzyl Chloride	11.633	91	78975	9.819	ppbv	98
67) sec-Butylbenzene	11.785	105	1315730	11.674	ppbv	99
69) p-Isopropyltoluene	11.940	119	1084253	11.752	ppbv	99
70) n-Butylbenzene	12.296	91	1118373	12.306	ppbv	99
71) 2-Chlorotoluene	10.917	91	818204	11.804	ppbv	100
72) 4-Ethyltoluene	11.141	105	880883	12.264	ppbv	99
73) 1,3,5-Trimethylbenzene	11.218	105	738619	11.921	ppbv	98
74) 1,2,4-Trimethylbenzene	11.552	105	784701	11.801	ppbv	91
75) 1,3-Dichlorobenzene	11.623	146	465436	13.003	ppbv	98
76) 1,4-Dichlorobenzene	11.688	146	467249	13.386	ppbv	99
77) 1,2-Dichlorobenzene	11.963	146	449222	13.129	ppbv	98
78) Hexachloro-1,3-Butadiene	13.895	225	351085	12.403	ppbv	100
79) Naphthalene	13.526	128	764990	11.696	ppbv	99
80) Naphthalene,2-methyl-	14.471	142	324431	10.956	ppbv	99
81) 1,2,4-Trichlorobenzene	13.455	180	354990	13.351	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042048.D
 Acq On : 25 Feb 2025 13:15
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL022525

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

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 02/26/2025
 Supervised By : Mahesh Dadoda 02/26/2025

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

Internal Standards						
1) Bromochloromethane	2.800	49	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

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

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)
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

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

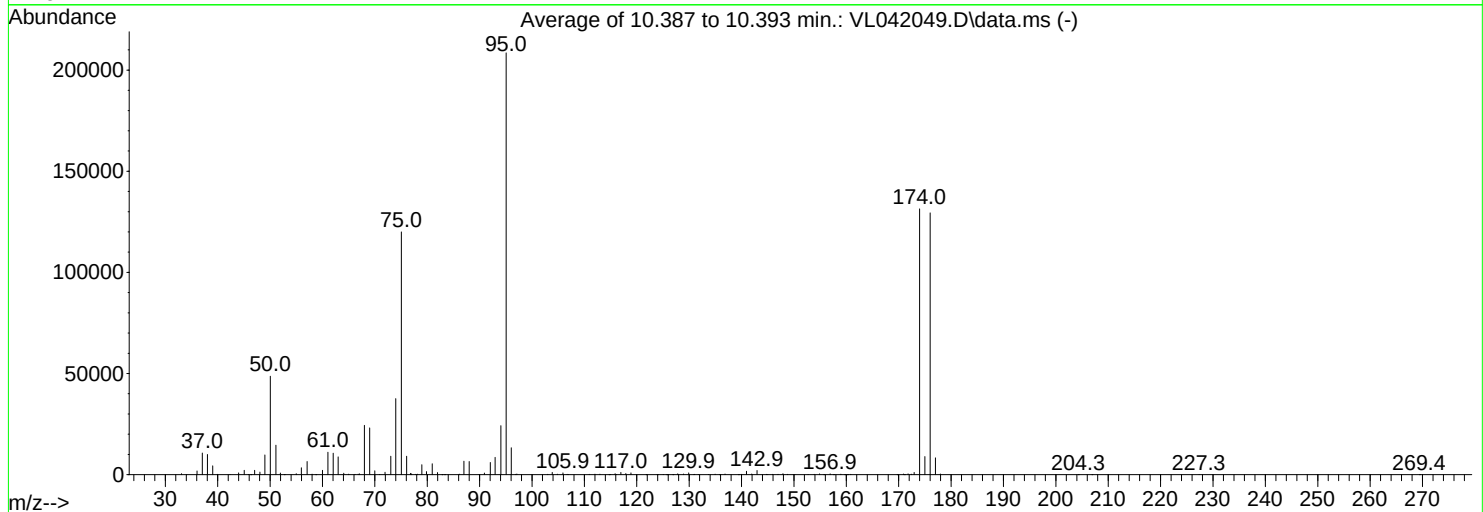
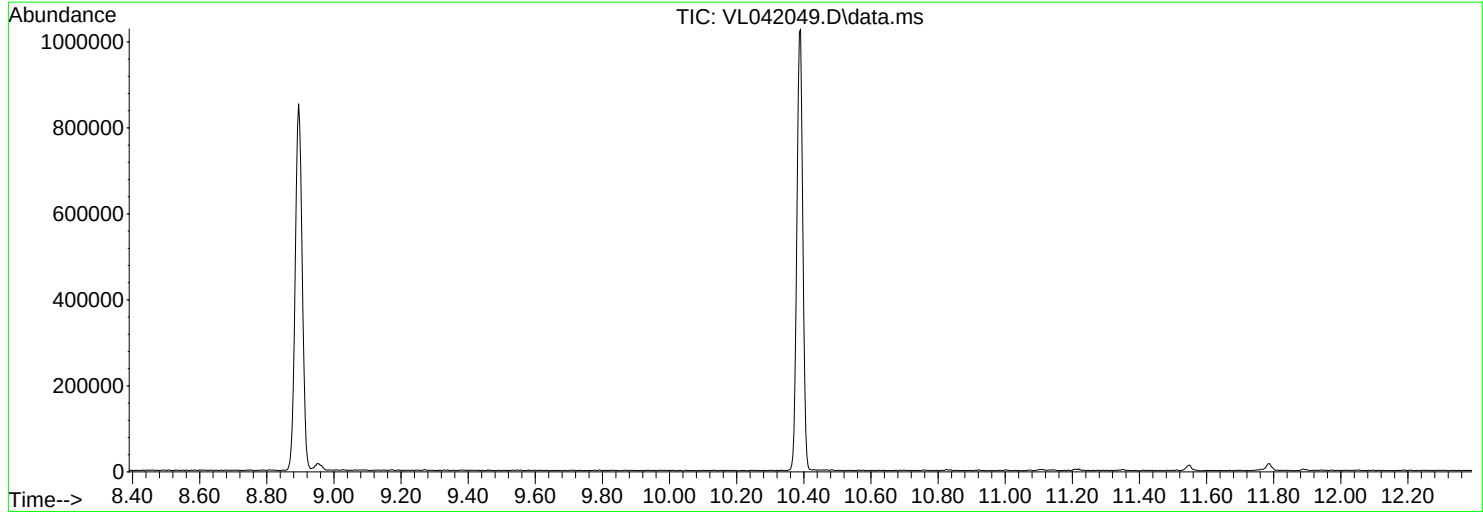
SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
Data File : VL042049.D
Acq On : 26 Feb 2025 07:46
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Wed Feb 26 01:08:36 2025



AutoFind: Scans 3182, 3183, 3184; Background Corrected with Scan 3165

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	8	40	23.3	48688	PASS
75	95	30	66	57.6	120021	PASS
95	95	100	100	100.0	208533	PASS
96	95	5	9	6.4	13271	PASS
173	174	0.00	2	0.8	1077	PASS
174	95	50	120	63.0	131429	PASS
175	174	4	9	6.8	8951	PASS
176	174	93	101	98.5	129411	PASS
177	176	5	9	6.4	8302	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
 Data File : VL042050.D
 Acq On : 26 Feb 2025 08:38
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Quant Time: Feb 27 00:24:17 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

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

QLast Update : Wed Feb 26 01:08:36 2025

Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 02/27/2025
 Supervised By : Mahesh Dadoda 02/27/2025

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

Internal Standards						
1) Bromochloromethane	2.797	49	157492	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	387144	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	336136	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.390 95 264623 10.233 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 102.300%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	159125	9.716	ppbv	96
3) Chlorodifluoromethane	1.479	51	217238	9.491	ppbv	99
4) Chloromethane	1.538	50	54275	8.962	ppbv	97
5) Vinyl Chloride	1.583	62	53871	9.404	ppbv	99
6) Bromomethane	1.670	94	25674	9.412	ppbv	100
7) Chloroethane	1.709	64	22033	9.466	ppbv	89
8) Dichlorotetrafluoroethane	1.557	85	129383	9.610	ppbv	99
9) Propene	1.486	41	87439	9.377	ppbv	97
10) Heptane	5.001	43	268030	9.231	ppbv	99
11) Trichlorofluoromethane	1.884	101	155832	9.496	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.146	101	114341	8.735	ppbv	99
13) Ethanol	1.725	45	2918	4.929	ppbv	98
14) Bromoethene	1.787	108	44414	9.608	ppbv	95
15) Acetone	1.842	43	116372	8.367	ppbv	98
16) 1,3-Butadiene	1.612	39	59133	9.136	ppbv	99
17) tert-Butyl alcohol	2.046	59	153167	8.802	ppbv	96
18) 1,1-Dichloroethene	2.039	96	51101	8.640	ppbv	93
19) Isopropyl Alcohol	1.890	45	69014	8.638	ppbv	98
20) Methylene Chloride	2.068	84	42907	8.156	ppbv	98
21) Allyl Chloride	2.101	41	86423	8.600	ppbv	99
22) trans-1,2-Dichloroethene	2.347	96	61551	8.927	ppbv	98
23) Vinyl Acetate	2.470	43	84867	8.678	ppbv	98
24) 1,1-Dichloroethane	2.418	63	118286	9.220	ppbv	99
25) Ethyl Acetate	2.848	43	521677	9.371	ppbv	99
26) Hexane	2.835	57	207168	9.205	ppbv	98
27) Carbon Disulfide	2.156	76	138544	9.081	ppbv	95
28) Methyl tert-Butyl Ether	2.447	73	88652	7.912	ppbv	97
29) Chloroform	2.858	83	273992	9.045	ppbv	98
30) Cyclohexane	3.871	84	167364	9.162	ppbv	94
31) cis-1,2-Dichloroethene	2.732	61	197466	9.268	ppbv	97
32) 1,1,1-Trichloroethane	3.379	97	275336	9.370	ppbv	97
34) 2-Butanone	2.567	43	298594	9.900	ppbv	97
35) Carbon Tetrachloride	3.777	117	272097	10.192	ppbv	97
36) Benzene	3.670	78	394494	9.734	ppbv	97
37) 1,2-Dichloroethane	3.230	62	224585	9.995	ppbv	99
38) Trichloroethene	4.567	130	149021	9.005	ppbv	97
39) 1,2-Dichloropropane	4.331	63	151626	9.857	ppbv	95
40) 1,4-Dioxane	4.606	88	68639	9.775	ppbv #	98
41) Tetrahydrofuran	3.065	42	178871	10.037	ppbv	97
42) Bromodichloromethane	4.509	83	306517	10.124	ppbv	98
43) Methyl Methacrylate	4.900	69	156460	9.885	ppbv	96
44) 2,2,4-Trimethylpentane	4.658	57	703370	9.834	ppbv	99
45) t-1,3-Dichloropropene	6.438	75	155197	9.870	ppbv	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
 Data File : VL042050.D
 Acq On : 26 Feb 2025 08:38
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Quant Time: Feb 27 00:24:17 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

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

QLast Update : Wed Feb 26 01:08:36 2025

Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 02/27/2025
 Supervised By : Mahesh Dadoda 02/27/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.622	75	205249	10.087	ppbv	99
47) 1,1,2-Trichloroethane	6.603	97	148058	9.481	ppbv	96
48) Dibromochloromethane	7.409	129	240304	9.825	ppbv	100
49) Bromoform	9.496	173	205649	9.682	ppbv	98
50) 4-Methyl-2-Pentanone	5.778	43	423271	10.851	ppbv	97
51) 2-Hexanone	7.454	43	345562	12.872	ppbv #	100
52) Tetrachloroethene	8.237	164	131164	9.454	ppbv	97
53) Toluene	6.952	91	439634	9.706	ppbv	98
54) 1,2-Dibromoethane	7.671	107	200726	9.507	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.940	131	178871	9.415	ppbv	100
57) Chlorobenzene	8.937	112	326805	9.377	ppbv	99
58) Ethyl Benzene	9.367	91	598242	9.664	ppbv	99
59) m/p-Xylene	9.564	91	957021m	19.427	ppbv	
60) o-Xylene	9.979	91	475848	9.608	ppbv	100
61) Styrene	9.885	104	231133	9.927	ppbv	99
62) Isopropylbenzene	10.552	105	718826	9.692	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.975	83	312195	9.572	ppbv	98
64) n-propylbenzene	11.001	120	185068	9.513	ppbv	95
65) tert-Butylbenzene	11.542	119	618290	9.160	ppbv	98
66) Benzyl Chloride	11.629	91	49850	9.678	ppbv	98
67) sec-Butylbenzene	11.778	105	890927	9.229	ppbv	100
69) p-Isopropyltoluene	11.937	119	724678	9.435	ppbv	100
70) n-Butylbenzene	12.293	91	756366	9.648	ppbv	99
71) 2-Chlorotoluene	10.914	91	545538	9.541	ppbv	99
72) 4-Ethyltoluene	11.137	105	574661	9.504	ppbv	99
73) 1,3,5-Trimethylbenzene	11.215	105	484912	9.245	ppbv	98
74) 1,2,4-Trimethylbenzene	11.548	105	527932	8.938	ppbv	96
75) 1,3-Dichlorobenzene	11.620	146	309408	9.102	ppbv	99
76) 1,4-Dichlorobenzene	11.684	146	309423	9.168	ppbv	99
77) 1,2-Dichlorobenzene	11.960	146	302720	9.177	ppbv	99
78) Hexachloro-1,3-Butadiene	13.892	225	229379	8.937	ppbv	100
79) Naphthalene	13.523	128	493813	12.193	ppbv	99
80) Naphthalene,2-methyl-	14.468	142	190978	17.232	ppbv	99
81) 1,2,4-Trichlorobenzene	13.452	180	226561	10.038	ppbv	98

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
Data File : VL042050.D
Acq On : 26 Feb 2025 08:38
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
LabSampleId :
VSTDCCC010

Quant Time: Feb 27 00:24:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	1.000	1.000	0.0	98	0.00
2 T	Dichlorodifluoromethane	1.040	1.010	2.9	105	0.00
3	Chlorodifluoromethane	1.453	1.379	5.1	103	0.00
4	Chloromethane	0.385	0.345	10.4	98	0.00
5 T	Vinyl Chloride	0.364	0.342	6.0	99	0.00
6 T	Bromomethane	0.173	0.163	5.8	99	0.00
7	Chloroethane	0.148	0.140	5.4	101	0.00
8 T	Dichlorotetrafluoroethane	0.855	0.822	3.9	103	0.00
9 T	Propene	0.592	0.555	6.2	104	0.00
10 T	Heptane	1.844	1.702	7.7	100	0.00
11 T	Trichlorofluoromethane	1.042	0.989	5.1	102	0.00
12 T	1,1,2-Trichlorotrifluoroeth	0.831	0.726	12.6	102	0.00
13	Ethanol	0.038	0.019#	50.0#	92	0.00
14 T	Bromoethene	0.293	0.282	3.8	105	0.00
15 T	Acetone	0.883	0.739	16.3	101	0.00
16 T	1,3-Butadiene	0.411	0.375	8.8	102	0.00
17	tert-Butyl alcohol	1.105	0.973	11.9	100	0.00
18 T	1,1-Dichloroethene	0.376	0.324	13.8	99	0.00
19 T	Isopropyl Alcohol	0.507	0.438	13.6	102	0.00
20 T	Methylene Chloride	0.334	0.272	18.6	102	0.00
21 T	Allyl Chloride	0.638	0.549	13.9	100	0.00
22 T	trans-1,2-Dichloroethene	0.438	0.391	10.7	107	0.00
23 T	Vinyl Acetate	0.621	0.539	13.2	101	0.00
24 T	1,1-Dichloroethane	0.815	0.751	7.9	110	0.00
25 T	Ethyl Acetate	3.535	3.312	6.3	102	0.00
26 T	Hexane	1.429	1.315	8.0	100	0.00
27 T	Carbon Disulfide	0.969	0.880	9.2	100	0.00
28 T	Methyl tert-Butyl Ether	0.711	0.563	20.8	105	0.00
29 T	Chloroform	1.923	1.740	9.5	99	0.00
30 T	Cyclohexane	1.160	1.063	8.4	97	0.00
31 T	cis-1,2-Dichloroethene	1.353	1.254	7.3	99	0.00
32 T	1,1,1-Trichloroethane	1.866	1.748	6.3	96	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	92	0.00
34 T	2-Butanone	0.779	0.771	1.0	102	0.00
35 T	Carbon Tetrachloride	0.690	0.703	-1.9	98	0.00
36 T	Benzene	1.047	1.019	2.7	96	0.00
37 T	1,2-Dichloroethane	0.580	0.580	0.0	102	0.00
38 T	Trichloroethene	0.427	0.385	9.8	93	0.00
39 T	1,2-Dichloropropane	0.397	0.392	1.3	100	0.00
40 T	1,4-Dioxane	0.181	0.177	2.2	99	0.00
41 T	Tetrahydrofuran	0.460	0.462	-0.4	101	0.00
42 T	Bromodichloromethane	0.782	0.792	-1.3	98	0.00
43	Methyl Methacrylate	0.409	0.404	1.2	95	0.00
44 T	2,2,4-Trimethylpentane	1.848	1.817	1.7	100	0.00
45 T	t-1,3-Dichloropropene	0.406	0.401	1.2	93	0.00
46 T	cis-1,3-Dichloropropene	0.526	0.530	-0.8	94	0.00
47 T	1,1,2-Trichloroethane	0.403	0.382	5.2	97	0.00
48 T	Dibromochloromethane	0.632	0.621	1.7	96	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
Data File : VL042050.D
Acq On : 26 Feb 2025 08:38
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
LabSampleId :
VSTDCCC010

Quant Time: Feb 27 00:24:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD 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	0.531	3.3	93	0.00
50 T	4-Methyl-2-Pentanone	1.008	1.093	-8.4	99	0.00
51 T	2-Hexanone	0.693	0.893	-28.9	98	0.00
52 T	Tetrachloroethene	0.358	0.339	5.3	95	0.00
53 T	Toluene	1.170	1.136	2.9	96	0.00
54 T	1,2-Dibromoethane	0.545	0.518	5.0	95	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	90	0.00
56	1,1,1,2-Tetrachloroethane	0.565	0.532	5.8	95	0.00
57 T	Chlorobenzene	1.037	0.972	6.3	96	0.00
58 T	Ethyl Benzene	1.842	1.780	3.4	94	0.00
59 T	m/p-Xylene	1.466	1.424	2.9	96	0.01
60 T	o-Xylene	1.473	1.416	3.9	97	0.00
61 T	Styrene	0.693	0.688	0.7	94	0.00
62	Isopropylbenzene	2.207	2.138	3.1	98	0.00
63 T	1,1,2,2-Tetrachloroethane	0.970	0.929	4.2	98	0.00
64	n-propylbenzene	0.579	0.551	4.8	94	0.00
65	tert-Butylbenzene	2.008	1.839	8.4	95	0.00
66 T	Benzyl Chloride	0.153	0.148	3.3	87	0.00
67	sec-Butylbenzene	2.872	2.650	7.7	96	0.00
68 S	1-Bromo-4-Fluorobenzene	0.769	0.787	-2.3	93	0.00
69	p-Isopropyltoluene	2.285	2.156	5.6	96	0.00
70	n-Butylbenzene	2.332	2.250	3.5	98	0.00
71	2-Chlorotoluene	1.701	1.623	4.6	96	0.00
72 T	4-Ethyltoluene	1.799	1.710	4.9	95	0.00
73 T	1,3,5-Trimethylbenzene	1.560	1.443	7.5	94	0.00
74 T	1,2,4-Trimethylbenzene	1.757	1.571	10.6	96	0.00
75 T	1,3-Dichlorobenzene	1.011	0.920	9.0	95	0.00
76 T	1,4-Dichlorobenzene	1.004	0.921	8.3	96	0.00
77 T	1,2-Dichlorobenzene	0.981	0.901	8.2	97	0.00
78 T	Hexachloro-1,3-Butadiene	0.764	0.682	10.7	96	0.00
79 T	Naphthalene	1.205	1.469	-21.9	96	0.00
80 T	Naphthalene,2-methyl-	0.330	0.568	-72.1#	91	0.00
81 T	1,2,4-Trichlorobenzene	0.671	0.674	-0.4	94	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
Data File : VL042051.D
Acq On : 26 Feb 2025 09:20
Operator : SY/MD
Sample : VL0226ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0226ABL01

Quant Time: Feb 27 00:25:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD 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	2.797	49	157395	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	386755	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	331916	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	257988	10.103	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.000%

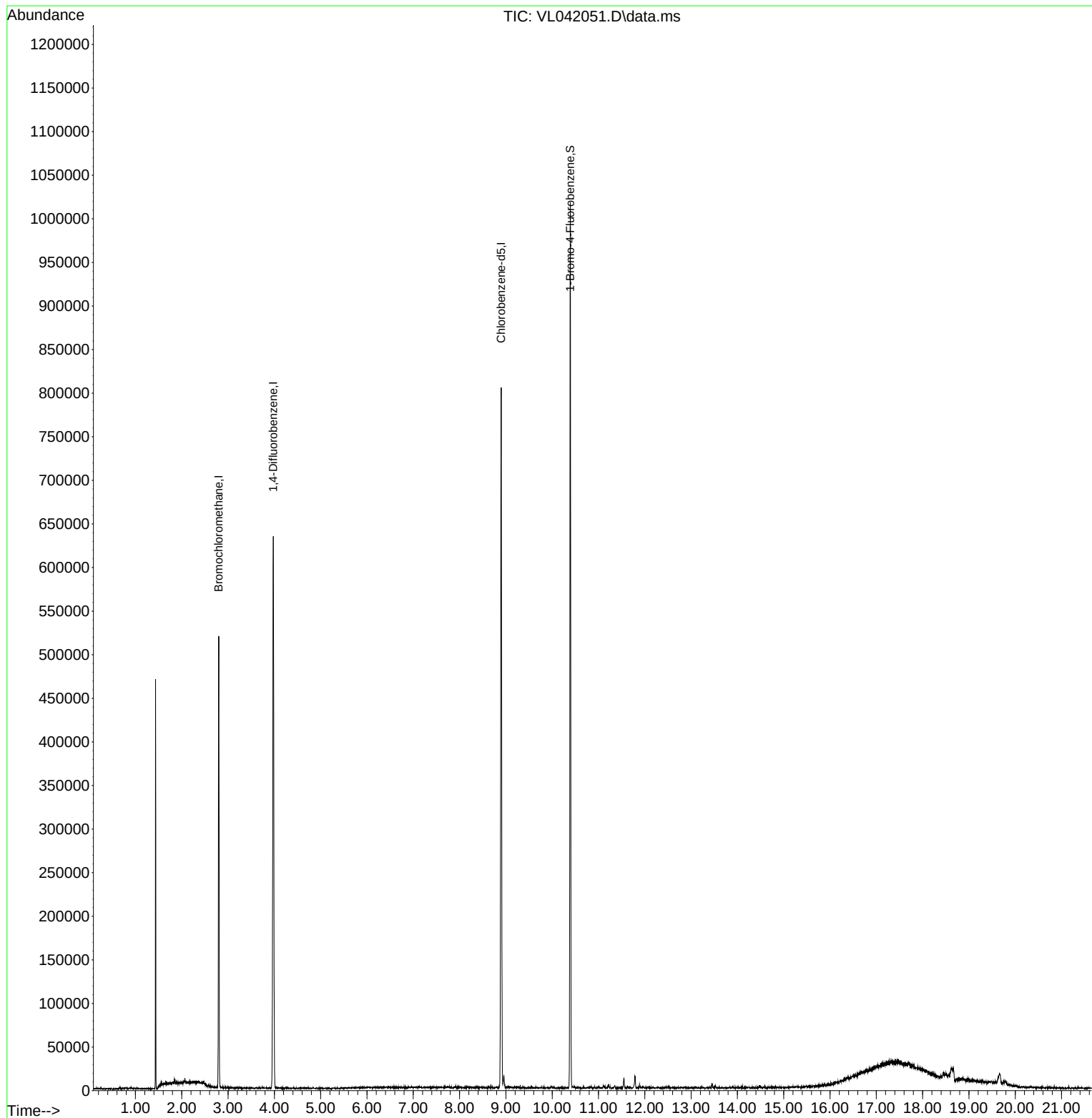
Target Compounds	Qvalue
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
Data File : VL042051.D
Acq On : 26 Feb 2025 09:20
Operator : SY/MD
Sample : VL0226ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0226ABL01

Quant Time: Feb 27 00:25:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
Data File : VL042052.D
Acq On : 26 Feb 2025 10:04
Operator : SY/MD
Sample : QC021725 CAN 10271
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
QC021725 CAN 10271

Quant Time: Feb 27 00:25:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.794	49	152414	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.969	114	364923	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	316584	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.384	95	246219	10.109	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.100%

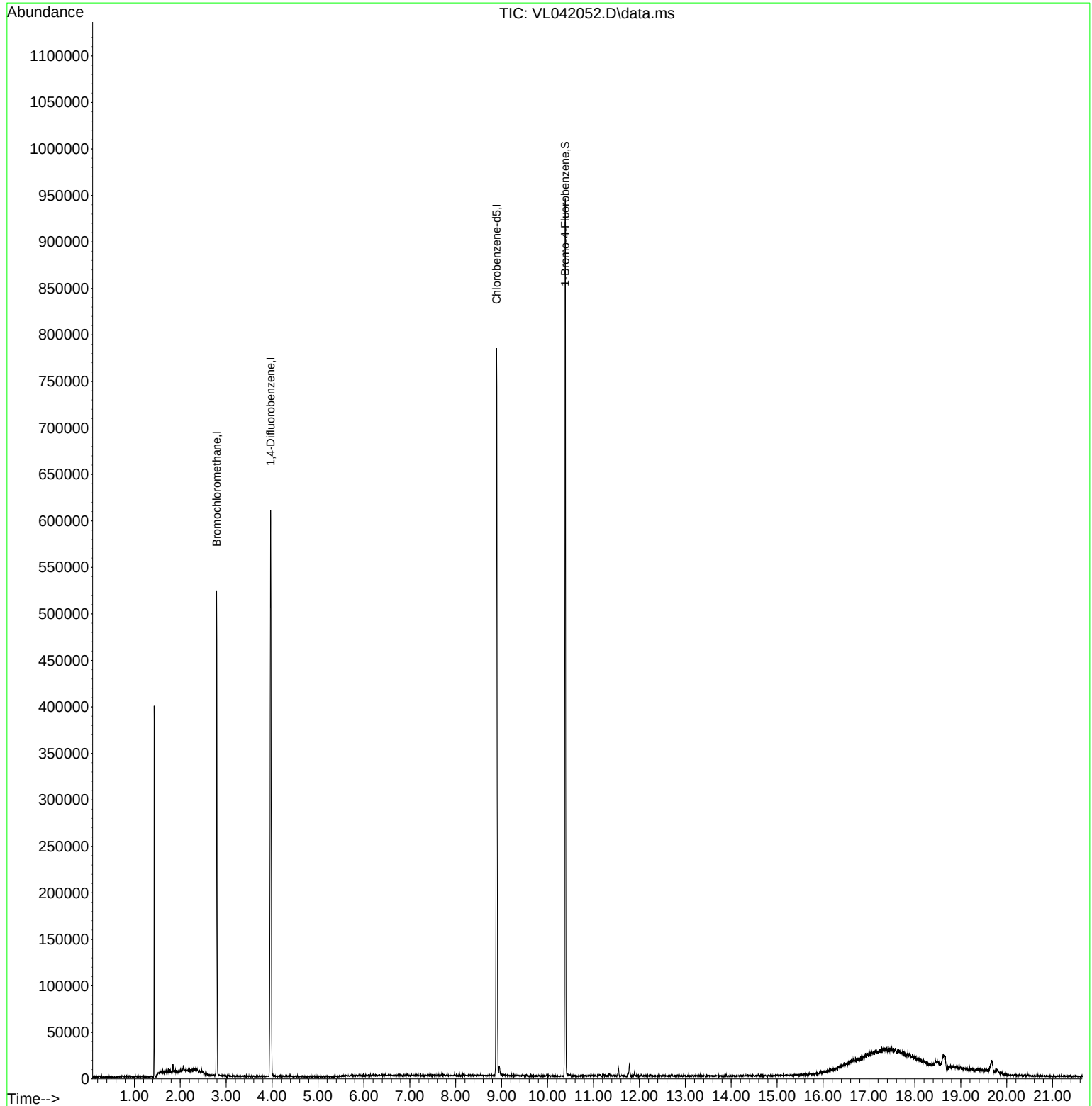
Target Compounds	Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
Data File : VL042052.D
Acq On : 26 Feb 2025 10:04
Operator : SY/MD
Sample : QC021725 CAN 10271
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
QC021725 CAN 10271

Quant Time: Feb 27 00:25:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
 Data File : VL042054.D
 Acq On : 26 Feb 2025 11:07
 Operator : SY/MD
 Sample : VL0226ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0226ABS01

Quant Time: Feb 27 00:26:21 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

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

QLast Update : Wed Feb 26 01:08:36 2025

Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 02/27/2025
 Supervised By : Mahesh Dadoda 02/27/2025

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

Internal Standards						
1) Bromochloromethane	2.797	49	153181	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.972	114	369057	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.895	117	318885	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	257152	10.482	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.800%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.502	85	154942	9.727	ppbv	100
3) Chlorodifluoromethane	1.480	51	208345	9.358	ppbv	100
4) Chloromethane	1.538	50	53585	9.097	ppbv	99
5) Vinyl Chloride	1.583	62	54944	9.861	ppbv	96
6) Bromomethane	1.674	94	25364	9.560	ppbv	96
7) Chloroethane	1.709	64	21007	9.279	ppbv	88
8) Dichlorotetrafluoroethane	1.557	85	125091	9.553	ppbv	98
9) Propene	1.486	41	83500	9.206	ppbv	99
10) Heptane	5.001	43	256046	9.067	ppbv	99
11) Trichlorofluoromethane	1.884	101	154527	9.682	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.146	101	124837	9.805	ppbv	96
13) Ethanol	1.726	45	3000	5.211	ppbv	92
14) Bromoethene	1.787	108	43051	9.576	ppbv	99
15) Acetone	1.842	43	116404	8.605	ppbv	100
16) 1,3-Butadiene	1.612	39	57319	9.105	ppbv	99
17) tert-Butyl alcohol	2.049	59	156939	9.273	ppbv	99
18) 1,1-Dichloroethene	2.039	96	53389	9.281	ppbv	86
19) Isopropyl Alcohol	1.891	45	68899	8.867	ppbv	100
20) Methylene Chloride	2.069	84	46174	9.024	ppbv	93
21) Allyl Chloride	2.101	41	92702	9.484	ppbv	99
22) trans-1,2-Dichloroethene	2.347	96	61477	9.167	ppbv	99
23) Vinyl Acetate	2.470	43	80476	8.461	ppbv	98
24) 1,1-Dichloroethane	2.415	63	119185	9.551	ppbv	99
25) Ethyl Acetate	2.845	43	509260	9.405	ppbv	100
26) Hexane	2.836	57	194754	8.897	ppbv	94
27) Carbon Disulfide	2.156	76	144095	9.711	ppbv #	91
28) Methyl tert-Butyl Ether	2.451	73	106845	9.804	ppbv	99
29) Chloroform	2.858	83	266332	9.040	ppbv	98
30) Cyclohexane	3.871	84	158311	8.910	ppbv	94
31) cis-1,2-Dichloroethene	2.729	61	193240	9.325	ppbv	94
32) 1,1,1-Trichloroethane	3.379	97	262261	9.177	ppbv	96
34) 2-Butanone	2.567	43	292802	10.184	ppbv	97
35) Carbon Tetrachloride	3.778	117	262129	10.300	ppbv	95
36) Benzene	3.671	78	375533	9.720	ppbv	95
37) 1,2-Dichloroethane	3.231	62	218716	10.211	ppbv	98
38) Trichloroethene	4.567	130	143714	9.110	ppbv	95
39) 1,2-Dichloropropane	4.331	63	146117	9.964	ppbv	99
40) 1,4-Dioxane	4.603	88	65661	9.809	ppbv #	96
41) Tetrahydrofuran	3.066	42	172429	10.150	ppbv	98
42) Bromodichloromethane	4.506	83	289453	10.029	ppbv	100
43) Methyl Methacrylate	4.904	69	151059	10.012	ppbv	95
44) 2,2,4-Trimethylpentane	4.658	57	684336	10.036	ppbv	99
45) t-1,3-Dichloropropene	6.441	75	147062	9.811	ppbv	94

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
 Data File : VL042054.D
 Acq On : 26 Feb 2025 11:07
 Operator : SY/MD
 Sample : VL0226ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0226ABS01

Quant Time: Feb 27 00:26:21 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

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

QLast Update : Wed Feb 26 01:08:36 2025

Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 02/27/2025
 Supervised By : Mahesh Dadoda 02/27/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.626	75	191420	9.868	ppbv	98
47) 1,1,2-Trichloroethane	6.603	97	139001	9.337	ppbv	97
48) Dibromochloromethane	7.406	129	228694	9.808	ppbv	100
49) Bromoform	9.497	173	194002	9.581	ppbv	99
50) 4-Methyl-2-Pentanone	5.775	43	407870	10.969	ppbv	98
51) 2-Hexanone	7.454	43	327784	12.808	ppbv #	99
52) Tetrachloroethene	8.241	164	123860	9.365	ppbv	95
53) Toluene	6.953	91	418086	9.683	ppbv	98
54) 1,2-Dibromoethane	7.671	107	190454	9.462	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.940	131	171980	9.542	ppbv	100
57) Chlorobenzene	8.937	112	313487	9.482	ppbv	98
58) Ethyl Benzene	9.370	91	575798	9.805	ppbv	99
59) m/p-Xylene	9.565	91	909392m	19.459	ppbv	
60) o-Xylene	9.976	91	450481	9.588	ppbv	100
61) Styrene	9.882	104	218205	9.879	ppbv	100
62) Isopropylbenzene	10.552	105	678100	9.637	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.976	83	295251	9.543	ppbv	99
64) n-propylbenzene	10.999	120	178544	9.674	ppbv	95
65) tert-Butylbenzene	11.542	119	599970	9.369	ppbv	98
66) Benzyl Chloride	11.630	91	44022	9.009	ppbv	97
67) sec-Butylbenzene	11.779	105	863022	9.423	ppbv	99
69) p-Isopropyltoluene	11.937	119	715231	9.816	ppbv	99
70) n-Butylbenzene	12.293	91	744799	10.014	ppbv	99
71) 2-Chlorotoluene	10.914	91	520897	9.603	ppbv	99
72) 4-Ethyltoluene	11.138	105	558376	9.734	ppbv	99
73) 1,3,5-Trimethylbenzene	11.215	105	475566	9.557	ppbv	98
74) 1,2,4-Trimethylbenzene	11.549	105	520419	9.288	ppbv	99
75) 1,3-Dichlorobenzene	11.620	146	302808	9.390	ppbv	98
76) 1,4-Dichlorobenzene	11.685	146	298128	9.311	ppbv	99
77) 1,2-Dichlorobenzene	11.960	146	293043	9.364	ppbv	99
78) Hexachloro-1,3-Butadiene	13.892	225	216968	8.911	ppbv	99
79) Naphthalene	13.523	128	476359	12.399	ppbv	99
80) Naphthalene,2-methyl-	14.468	142	187061	17.792	ppbv	98
81) 1,2,4-Trichlorobenzene	13.452	180	218258	10.194	ppbv	99

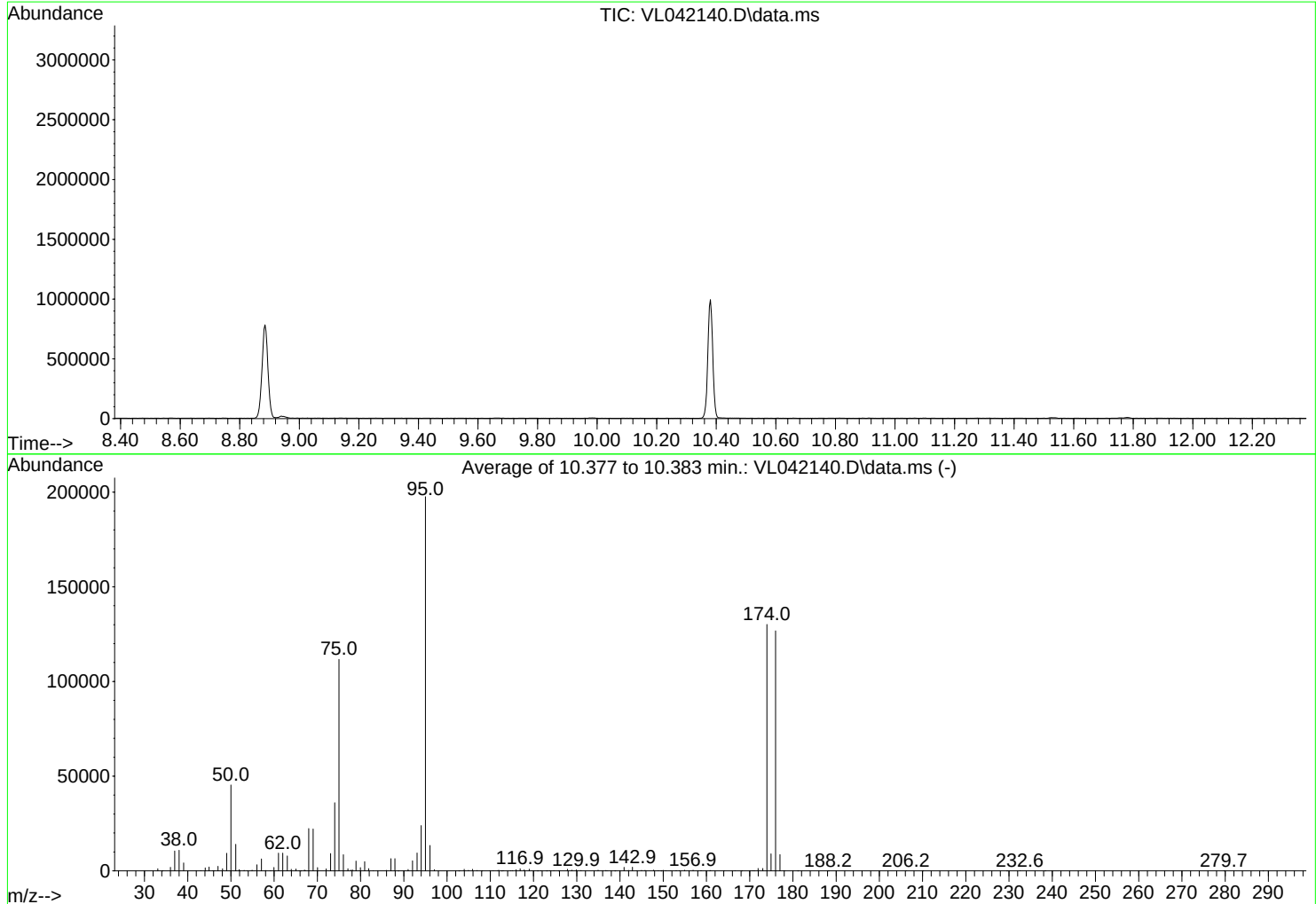
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031425\
Data File : VL042140.D
Acq On : 14 Mar 2025 07:56
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Wed Feb 26 01:08:36 2025



AutoFind: Scans 3179, 3180, 3181; Background Corrected with Scan 3165

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	8	40	22.9	45333	PASS
75	95	30	66	56.5	111685	PASS
95	95	100	100	100.0	197589	PASS
96	95	5	9	6.8	13388	PASS
173	174	0.00	2	1.0	1315	PASS
174	95	50	120	65.9	130120	PASS
175	174	4	9	6.9	8967	PASS
176	174	93	101	97.4	126715	PASS
177	176	5	9	6.8	8618	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031425\
 Data File : VL042141.D
 Acq On : 14 Mar 2025 08:39
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

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

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 03/17/2025
 Supervised By : Mahesh Dadoda 03/17/2025

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

Internal Standards						
1) Bromochloromethane	2.784	49	175939	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	3.959	114	420429	10.000	ppbv	-0.02
55) Chlorobenzene-d5	8.882	117	358414	10.000	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.377 95 293332 10.638 ppbv -0.02
 Spiked Amount 10.000 Range 65 - 135 Recovery = 106.400%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	191974	10.493	ppbv	100
3) Chlorodifluoromethane	1.476	51	228149	8.922	ppbv	100
4) Chloromethane	1.532	50	72618	10.733	ppbv	97
5) Vinyl Chloride	1.580	62	70955	11.087	ppbv	96
6) Bromomethane	1.667	94	34387	11.284	ppbv	97
7) Chloroethane	1.703	64	27399	10.537	ppbv	94
8) Dichlorotetrafluoroethane	1.554	85	161623	10.746	ppbv	98
9) Propene	1.483	41	95933	9.209	ppbv	98
10) Heptane	4.979	43	269945	8.323	ppbv	98
11) Trichlorofluoromethane	1.875	101	202929	11.070	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.137	101	150319	10.280	ppbv	96
13) Ethanol	1.719	45	5940	8.982	ppbv	91
14) Bromoethene	1.781	108	55223	10.694	ppbv	99
15) Acetone	1.836	43	157921	10.164	ppbv	98
16) 1,3-Butadiene	1.609	39	76015	10.513	ppbv	99
17) tert-Butyl alcohol	2.040	59	177586	9.136	ppbv	100
18) 1,1-Dichloroethene	2.033	96	64716	9.795	ppbv	92
19) Isopropyl Alcohol	1.884	45	90039	10.088	ppbv	96
20) Methylene Chloride	2.059	84	64336	10.947	ppbv	97
21) Allyl Chloride	2.095	41	113949	10.150	ppbv	97
22) trans-1,2-Dichloroethene	2.341	96	80485	10.449	ppbv	90
23) Vinyl Acetate	2.460	43	94433	8.644	ppbv	99
24) 1,1-Dichloroethane	2.409	63	154561	10.784	ppbv	99
25) Ethyl Acetate	2.836	43	552236	8.880	ppbv	99
26) Hexane	2.823	57	224625	8.934	ppbv	98
27) Carbon Disulfide	2.150	76	186073	10.918	ppbv	99
28) Methyl tert-Butyl Ether	2.438	73	106326	8.494	ppbv	99
29) Chloroform	2.849	83	296552	8.764	ppbv	99
30) Cyclohexane	3.855	84	163459	8.010	ppbv	95
31) cis-1,2-Dichloroethene	2.719	61	193004	8.109	ppbv	98
32) 1,1,1-Trichloroethane	3.367	97	268630	8.184	ppbv	95
34) 2-Butanone	2.558	43	305355	9.323	ppbv	96
35) Carbon Tetrachloride	3.762	117	279849	9.653	ppbv	99
36) Benzene	3.655	78	399974	9.088	ppbv	95
37) 1,2-Dichloroethane	3.218	62	217321	8.906	ppbv	100
38) Trichloroethene	4.548	130	152158	8.466	ppbv	96
39) 1,2-Dichloropropane	4.315	63	150906	9.033	ppbv	96
40) 1,4-Dioxane	4.580	88	67340	8.830	ppbv #	99
41) Tetrahydrofuran	3.056	42	174452	9.014	ppbv	98
42) Bromodichloromethane	4.487	83	307764	9.361	ppbv	93
43) Methyl Methacrylate	4.881	69	145265	8.451	ppbv	96
44) 2,2,4-Trimethylpentane	4.635	57	717940	9.243	ppbv	98
45) t-1,3-Dichloropropene	6.412	75	135149	7.914	ppbv	95

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031425\
 Data File : VL042141.D
 Acq On : 14 Mar 2025 08:39
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/17/2025
 Supervised By :Mahesh Dadoda 03/17/2025

Quant Time: Mar 14 23:16:35 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

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

QLast Update : Wed Feb 26 01:08:36 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.603	75	183303	8.295	ppbv	98
47) 1,1,2-Trichloroethane	6.581	97	154904	9.134	ppbv	96
48) Dibromochloromethane	7.387	129	239456	9.015	ppbv	98
49) Bromoform	9.484	173	213827	9.270	ppbv	99
50) 4-Methyl-2-Pentanone	5.755	43	408504	9.644	ppbv	96
51) 2-Hexanone	7.438	43	316988	10.872	ppbv #	98
52) Tetrachloroethene	8.225	164	129959	8.625	ppbv	98
53) Toluene	6.933	91	423735	8.614	ppbv	98
54) 1,2-Dibromoethane	7.652	107	201881	8.805	ppbv	90
56) 1,1,1,2-Tetrachloroethane	8.924	131	192287	9.492	ppbv	100
57) Chlorobenzene	8.921	112	344848	9.280	ppbv	99
58) Ethyl Benzene	9.354	91	572580	8.675	ppbv	100
59) m/p-Xylene	9.552	91	960961m	18.294	ppbv	
60) o-Xylene	9.963	91	485048	9.185	ppbv	99
61) Styrene	9.872	104	211885	8.535	ppbv	99
62) Isopropylbenzene	10.539	105	718498	9.085	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.963	83	341487	9.820	ppbv	100
64) n-propylbenzene	10.989	120	196285	9.462	ppbv	100
65) tert-Butylbenzene	11.533	119	655886	9.113	ppbv	98
66) Benzyl Chloride	11.617	91	45818	8.342	ppbv	97
67) sec-Butylbenzene	11.769	105	924266	8.979	ppbv	98
69) p-Isopropyltoluene	11.928	119	753153	9.197	ppbv	99
70) n-Butylbenzene	12.280	91	771737	9.232	ppbv	100
71) 2-Chlorotoluene	10.902	91	537863	8.822	ppbv	100
72) 4-Ethyltoluene	11.125	105	585082	9.074	ppbv	99
73) 1,3,5-Trimethylbenzene	11.203	105	494157	8.836	ppbv	98
74) 1,2,4-Trimethylbenzene	11.536	105	560827	8.905	ppbv	92
75) 1,3-Dichlorobenzene	11.607	146	336601	9.287	ppbv	98
76) 1,4-Dichlorobenzene	11.672	146	327927	9.113	ppbv	99
77) 1,2-Dichlorobenzene	11.947	146	330229	9.389	ppbv	99
78) Hexachloro-1,3-Butadiene	13.883	225	230108	8.408	ppbv	99
79) Naphthalene	13.514	128	481899	11.160	ppbv	100
80) Naphthalene,2-methyl-	14.459	142	151227	12.797	ppbv	99
81) 1,2,4-Trichlorobenzene	13.439	180	219258	9.111	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031425\
 Data File : VL042141.D
 Acq On : 14 Mar 2025 08:39
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Mar 14 23:16:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	1.000	1.000	0.0	109	-0.02
2 T	Dichlorodifluoromethane	1.040	1.091	-4.9	126	0.00
3	Chlorodifluoromethane	1.453	1.297	10.7	108	0.00
4	Chloromethane	0.385	0.413	-7.3	131	0.00
5 T	Vinyl Chloride	0.364	0.403	-10.7	131	0.00
6 T	Bromomethane	0.173	0.195	-12.7	133	0.00
7	Chloroethane	0.148	0.156	-5.4	126	0.00
8 T	Dichlorotetrafluoroethane	0.855	0.919	-7.5	129	0.00
9 T	Propene	0.592	0.545	7.9	114	0.00
10 T	Heptane	1.844	1.534	16.8	101	-0.03
11 T	Trichlorofluoromethane	1.042	1.153	-10.7	133	0.00
12 T	1,1,2-Trichlorotrifluoroeth	0.831	0.854	-2.8	134	0.00
13	Ethanol	0.038	0.034#	10.5	187#	0.00
14 T	Bromoethene	0.293	0.314	-7.2	130	0.00
15 T	Acetone	0.883	0.898	-1.7	137	0.00
16 T	1,3-Butadiene	0.411	0.432	-5.1	132	0.00
17	tert-Butyl alcohol	1.105	1.009	8.7	116	0.00
18 T	1,1-Dichloroethene	0.376	0.368	2.1	126	0.00
19 T	Isopropyl Alcohol	0.507	0.512	-1.0	133	0.00
20 T	Methylene Chloride	0.334	0.366	-9.6	153#	0.00
21 T	Allyl Chloride	0.638	0.648	-1.6	131	0.00
22 T	trans-1,2-Dichloroethene	0.438	0.457	-4.3	140	0.00
23 T	Vinyl Acetate	0.621	0.537	13.5	113	-0.01
24 T	1,1-Dichloroethane	0.815	0.878	-7.7	143	0.00
25 T	Ethyl Acetate	3.535	3.139	11.2	108	-0.02
26 T	Hexane	1.429	1.277	10.6	109	-0.02
27 T	Carbon Disulfide	0.969	1.058	-9.2	135	0.00
28 T	Methyl tert-Butyl Ether	0.711	0.604	15.0	126	-0.01
29 T	Chloroform	1.923	1.686	12.3	107	-0.01
30 T	Cyclohexane	1.160	0.929	19.9	94	-0.02
31 T	cis-1,2-Dichloroethene	1.353	1.097	18.9	97	-0.01
32 T	1,1,1-Trichloroethane	1.866	1.527	18.2	94	-0.02
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	99	-0.02
34 T	2-Butanone	0.779	0.726	6.8	104	-0.01
35 T	Carbon Tetrachloride	0.690	0.666	3.5	101	-0.02
36 T	Benzene	1.047	0.951	9.2	98	-0.02
37 T	1,2-Dichloroethane	0.580	0.517	10.9	99	-0.02
38 T	Trichloroethene	0.427	0.362	15.2	95	-0.02
39 T	1,2-Dichloropropane	0.397	0.359	9.6	100	-0.02
40 T	1,4-Dioxane	0.181	0.160	11.6	97	-0.03
41 T	Tetrahydrofuran	0.460	0.415	9.8	99	-0.02
42 T	Bromodichloromethane	0.782	0.732	6.4	99	-0.03
43	Methyl Methacrylate	0.409	0.346	15.4	88	-0.03
44 T	2,2,4-Trimethylpentane	1.848	1.708	7.6	102	-0.03
45 T	t-1,3-Dichloropropene	0.406	0.321	20.9	81	-0.03
46 T	cis-1,3-Dichloropropene	0.526	0.436	17.1	84	-0.03
47 T	1,1,2-Trichloroethane	0.403	0.368	8.7	102	-0.03
48 T	Dibromochloromethane	0.632	0.570	9.8	95	-0.03

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031425\
 Data File : VL042141.D
 Acq On : 14 Mar 2025 08:39
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Mar 14 23:16:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD 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	0.509	7.3	96	-0.02
50 T	4-Methyl-2-Pentanone	1.008	0.972	3.6	95	-0.03
51 T	2-Hexanone	0.693	0.754	-8.8	90	-0.03
52 T	Tetrachloroethene	0.358	0.309	13.7	94	-0.02
53 T	Toluene	1.170	1.008	13.8	92	-0.03
54 T	1,2-Dibromoethane	0.545	0.480	11.9	95	-0.03
55 I	Chlorobenzene-d5	1.000	1.000	0.0	96	-0.02
56	1,1,1,2-Tetrachloroethane	0.565	0.536	5.1	102	-0.02
57 T	Chlorobenzene	1.037	0.962	7.2	101	-0.02
58 T	Ethyl Benzene	1.842	1.598	13.2	90	-0.02
59 T	m/p-Xylene	1.466	1.341	8.5	97	0.00
60 T	o-Xylene	1.473	1.353	8.1	98	-0.02
61 T	Styrene	0.693	0.591	14.7	86	-0.02
62	Isopropylbenzene	2.207	2.005	9.2	98	-0.02
63 T	1,1,2,2-Tetrachloroethane	0.970	0.953	1.8	108	-0.02
64	n-propylbenzene	0.579	0.548	5.4	100	-0.02
65	tert-Butylbenzene	2.008	1.830	8.9	101	-0.01
66 T	Benzyl Chloride	0.153	0.128	16.3	80	-0.01
67	sec-Butylbenzene	2.872	2.579	10.2	100	-0.01
68 S	1-Bromo-4-Fluorobenzene	0.769	0.818	-6.4	103	-0.02
69	p-Isopropyltoluene	2.285	2.101	8.1	100	-0.01
70	n-Butylbenzene	2.332	2.153	7.7	100	-0.02
71	2-Chlorotoluene	1.701	1.501	11.8	95	-0.02
72 T	4-Ethyltoluene	1.799	1.632	9.3	96	-0.02
73 T	1,3,5-Trimethylbenzene	1.560	1.379	11.6	96	-0.02
74 T	1,2,4-Trimethylbenzene	1.757	1.565	10.9	102	-0.02
75 T	1,3-Dichlorobenzene	1.011	0.939	7.1	104	-0.02
76 T	1,4-Dichlorobenzene	1.004	0.915	8.9	102	-0.01
77 T	1,2-Dichlorobenzene	0.981	0.921	6.1	106	-0.02
78 T	Hexachloro-1,3-Butadiene	0.764	0.642	16.0	97	-0.01
79 T	Naphthalene	1.205	1.345	-11.6	94	-0.01
80 T	Naphthalene,2-methyl-	0.330	0.422	-27.9	72	-0.01
81 T	1,2,4-Trichlorobenzene	0.671	0.612	8.8	91	-0.02

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031425\
Data File : VL042142.D
Acq On : 14 Mar 2025 09:23
Operator : SY/MD
Sample : VL0314ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0314ABL01

Quant Time: Mar 14 23:17:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	167826	10.000	ppbv	-0.01
33) 1,4-Difluorobenzene	3.958	114	392046	10.000	ppbv	-0.02
55) Chlorobenzene-d5	8.881	117	329113	10.000	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	250856	9.907	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.100%

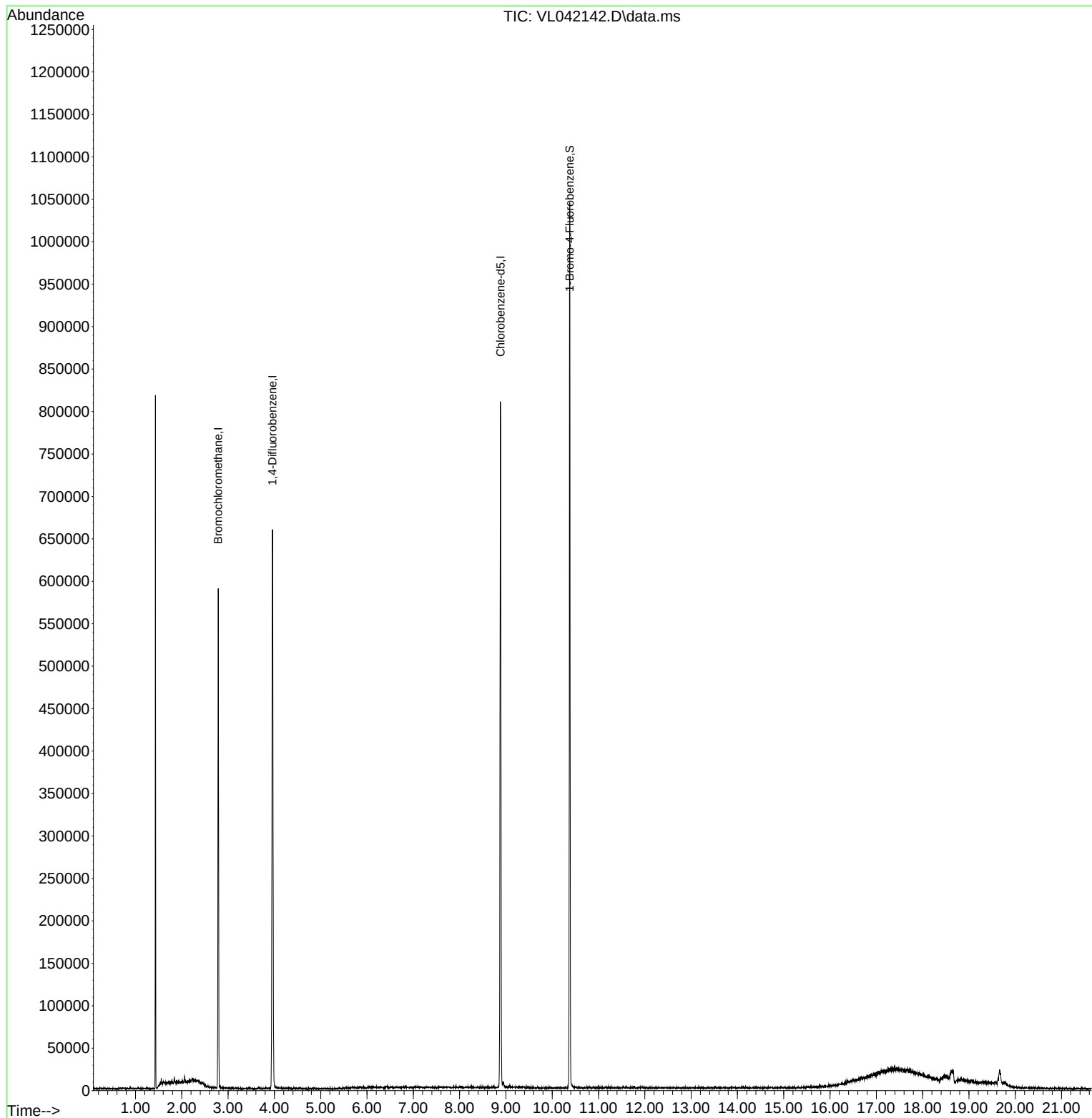
Target Compounds	Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031425\
Data File : VL042142.D
Acq On : 14 Mar 2025 09:23
Operator : SY/MD
Sample : VL0314ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0314ABL01

Quant Time: Mar 14 23:17:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031425\
Data File : VL042143.D
Acq On : 14 Mar 2025 10:09
Operator : SY/MD
Sample : QC031025 CAN 10267
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
QC031025 CAN 10267

Quant Time: Mar 14 23:17:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	165110	10.000	ppbv	-0.01
33) 1,4-Difluorobenzene	3.958	114	377773	10.000	ppbv	-0.02
55) Chlorobenzene-d5	8.881	117	315162	10.000	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.377	95	245153	10.111	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.100%

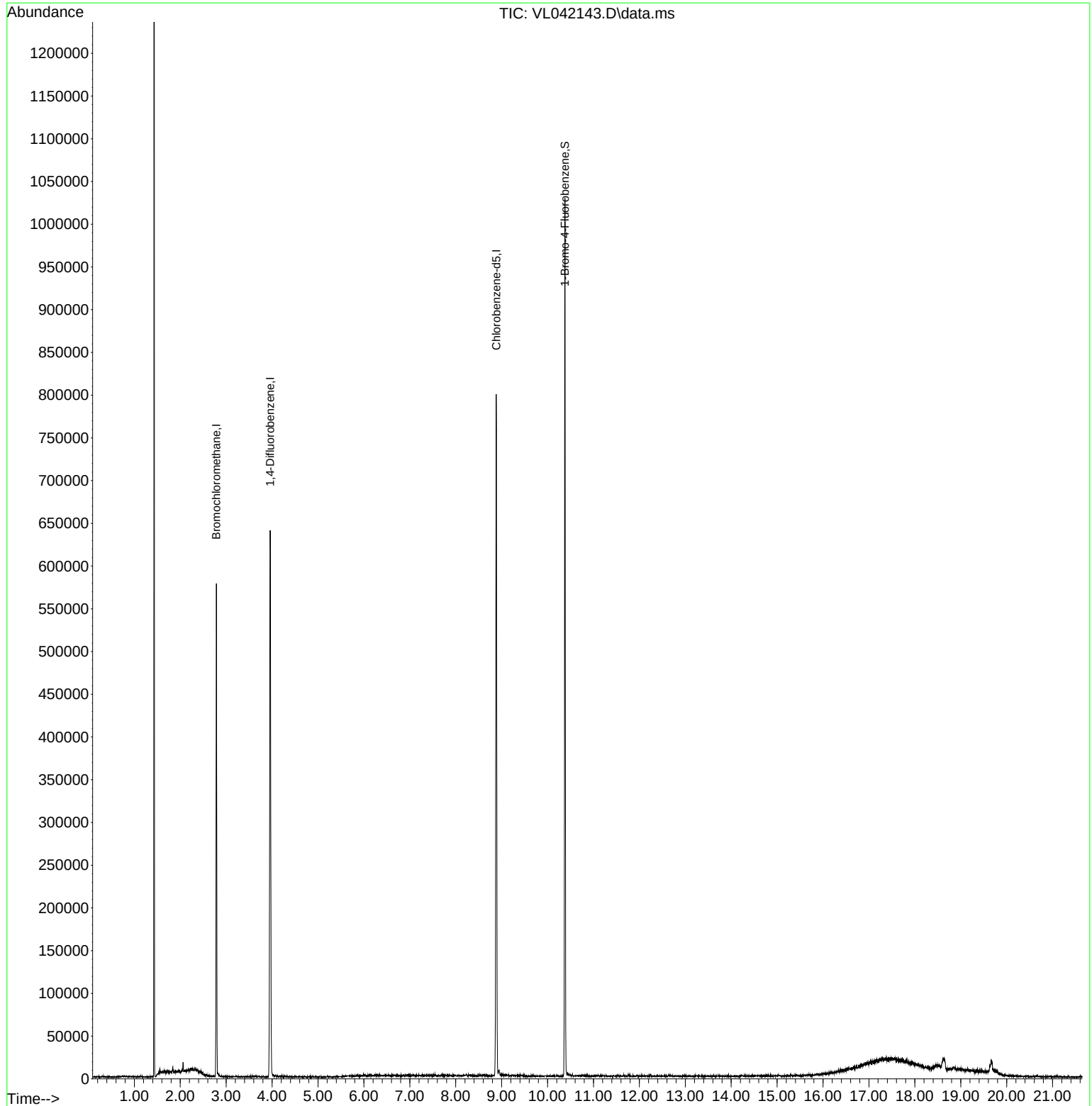
Target Compounds	Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031425\
Data File : VL042143.D
Acq On : 14 Mar 2025 10:09
Operator : SY/MD
Sample : QC031025 CAN 10267
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
QC031025 CAN 10267

Quant Time: Mar 14 23:17:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031425\
Data File : 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%

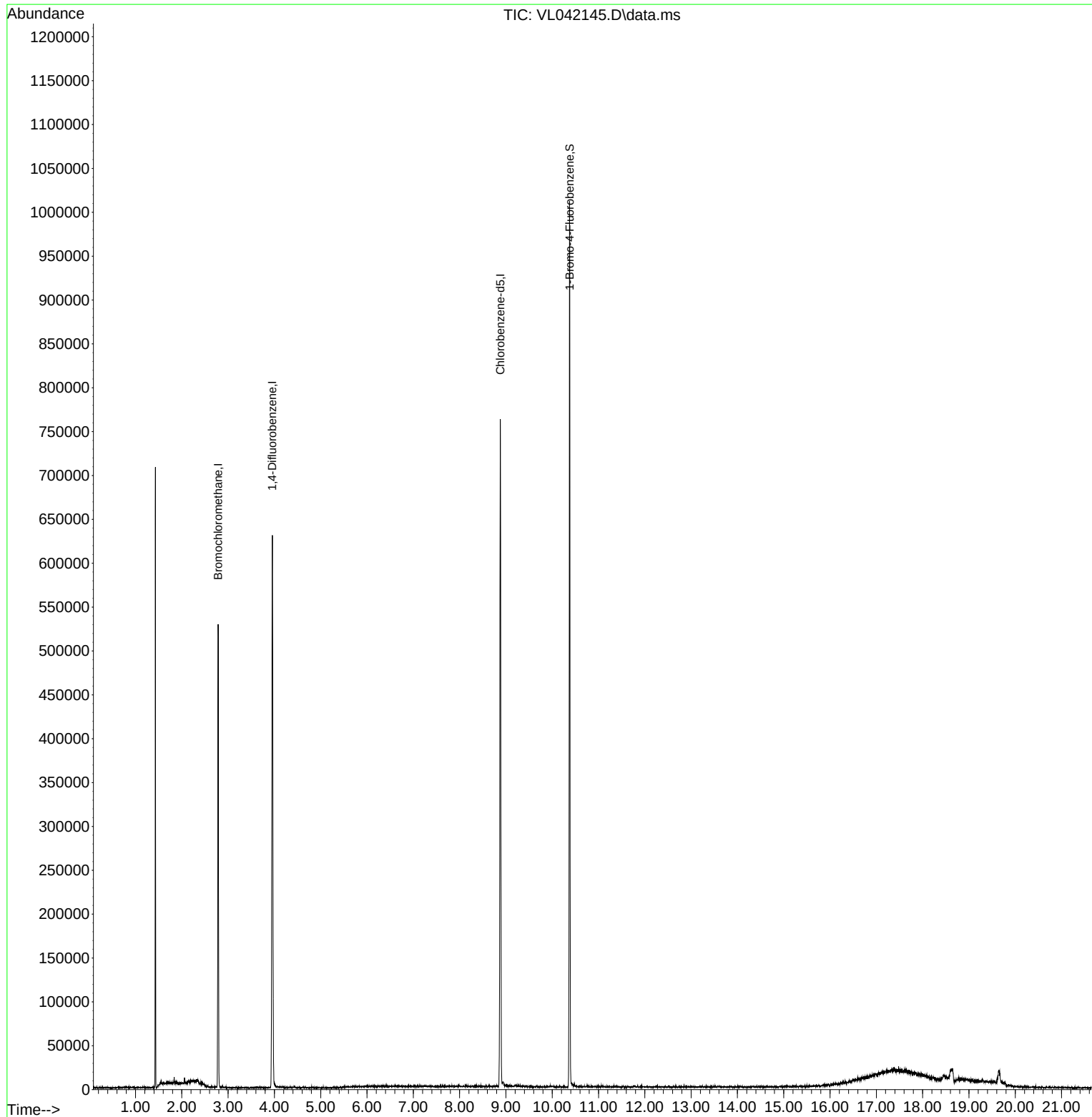
Target Compounds	Qvalue

(#) = 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

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

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 03/17/2025
 Supervised By : Mahesh Dadoda 03/17/2025

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

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

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 03/17/2025
 Supervised By : Mahesh Dadoda 03/17/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.606	75	173008	8.620	ppbv	98
47) 1,1,2-Trichloroethane	6.590	97	148902	9.667	ppbv	96
48) Dibromochloromethane	7.393	129	230834	9.569	ppbv	98
49) Bromoform	9.487	173	207997	9.928	ppbv	98
50) 4-Methyl-2-Pentanone	5.761	43	388572	10.100	ppbv	95
51) 2-Hexanone	7.444	43	302871	11.438	ppbv #	97
52) Tetrachloroethene	8.228	164	123920	9.056	ppbv	98
53) Toluene	6.940	91	392631	8.789	ppbv	98
54) 1,2-Dibromoethane	7.655	107	196312	9.427	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.930	131	188895	10.258	ppbv	99
57) Chlorobenzene	8.924	112	335300	9.927	ppbv	98
58) Ethyl Benzene	9.357	91	553145	9.220	ppbv	99
59) m/p-Xylene	9.555	91	938027m	19.646	ppbv	
60) o-Xylene	9.966	91	472738	9.849	ppbv	99
61) Styrene	9.875	104	200572	8.888	ppbv	99
62) Isopropylbenzene	10.542	105	698706	9.720	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.966	83	335051	10.599	ppbv	99
64) n-propylbenzene	10.992	120	189167	10.032	ppbv	99
65) tert-Butylbenzene	11.536	119	645167	9.861	ppbv	99
66) Benzyl Chloride	11.620	91	46836	9.382	ppbv	97
67) sec-Butylbenzene	11.772	105	930077	9.940	ppbv	99
69) p-Isopropyltoluene	11.930	119	755360	10.147	ppbv	99
70) n-Butylbenzene	12.283	91	760425	10.007	ppbv	100
71) 2-Chlorotoluene	10.904	91	519669	9.378	ppbv	99
72) 4-Ethyltoluene	11.128	105	580446	9.904	ppbv	99
73) 1,3,5-Trimethylbenzene	11.209	105	489177	9.623	ppbv	99
74) 1,2,4-Trimethylbenzene	11.542	105	558174	9.751	ppbv	94
75) 1,3-Dichlorobenzene	11.610	146	329807	10.011	ppbv	100
76) 1,4-Dichlorobenzene	11.675	146	327949	10.026	ppbv	100
77) 1,2-Dichlorobenzene	11.950	146	329758	10.314	ppbv	100
78) Hexachloro-1,3-Butadiene	13.885	225	227664	9.152	ppbv	99
79) Naphthalene	13.516	128	477761	12.172	ppbv	99
80) Naphthalene,2-methyl-	14.461	142	148881	13.860	ppbv	100
81) 1,2,4-Trichlorobenzene	13.445	180	217204	9.930	ppbv	100

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

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL011425

Review By	Mahesh Dadoda	Review On	1/15/2025 12:59:33 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	1/15/2025 1:00:29 PM		
SubDirectory	VL011425	HP Acquire Method	TO15AIR.M	HP Processing Method	VL011425AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2569			
Initial Calibration Stds		AP2571,AP2572,AP2573			
CCC		AP2571			
Internal Standard/PEM		AP2569			
ICV/I.BLK		AP2574,MDL,AP2572,AP2573			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL041887.D	14 Jan 2025 07:50	SY/MD	Ok
2	VSTDIC0.5	VL041888.D	14 Jan 2025 11:40	SY/MD	Not Ok
3	VSTDICCC010	VL041889.D	14 Jan 2025 12:55	SY/MD	Ok,M
4	VSTDIC002	VL041890.D	14 Jan 2025 13:28	SY/MD	Ok,M
5	VSTDIC001	VL041891.D	14 Jan 2025 13:59	SY/MD	Ok,M
6	VSTDIC0.5	VL041892.D	14 Jan 2025 14:30	SY/MD	Ok,M
7	VSTDIC0.1	VL041893.D	14 Jan 2025 15:01	SY/MD	Ok,M
8	VSTDIC0.03	VL041894.D	14 Jan 2025 15:32	SY/MD	Ok,M
9	VSTDIC015	VL041895.D	14 Jan 2025 16:05	SY/MD	Ok,M
10	VSTDICV010	VL041896.D	14 Jan 2025 17:33	SY/MD	Ok,M
11	VL0114ABL01	VL041897.D	14 Jan 2025 18:34	SY/MD	Ok
12	VL0114ABL02	VL041898.D	14 Jan 2025 19:05	SY/MD	Ok
13	VL0114ABS01	VL041899.D	14 Jan 2025 19:36	SY/MD	Ok,M
14	VIBLK	VL041900.D	14 Jan 2025 20:07	SY/MD	Ok
15	Q1073-04	VL041901.D	14 Jan 2025 20:40	SY/MD	Ok,M
16	Q1073-04DUP	VL041902.D	14 Jan 2025 21:14	SY/MD	Ok,M
17	Q1073-05	VL041903.D	14 Jan 2025 21:47	SY/MD	Ok,M
18	Q1073-06	VL041904.D	14 Jan 2025 22:21	SY/MD	Ok,M
19	Q1073-01	VL041905.D	14 Jan 2025 22:51	SY/MD	Ok,M
20	Q1073-02	VL041906.D	14 Jan 2025 23:22	SY/MD	Ok,M
21	Q1073-03	VL041907.D	14 Jan 2025 23:52	SY/MD	Ok,M

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL011425

Review By	Mahesh Dadoda	Review On	1/15/2025 12:59:33 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	1/15/2025 1:00:29 PM		
SubDirectory	VL011425	HP Acquire Method	TO15AIR.M	HP Processing Method	VL011425AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2569			
Initial Calibration Stds		AP2571,AP2572,AP2573			
CCC		AP2571			
Internal Standard/PEM		AP2569			
ICV/I.BLK		AP2574,MDL,AP2572,AP2573			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	VIBLK	VL041908.D	15 Jan 2025 00:22	SY/MD	Ok
23	MDL 0.4	VL041909.D	15 Jan 2025 00:52	SY/MD	Ok,M
24	MDL 0.4	VL041910.D	15 Jan 2025 01:23	SY/MD	Ok,M
25	MDL 0.1	VL041911.D	15 Jan 2025 01:53	SY/MD	Ok,M
26	MDL 0.1	VL041912.D	15 Jan 2025 02:23	SY/MD	Ok,M
27	MDL 0.03	VL041913.D	15 Jan 2025 02:53	SY/MD	Ok,M
28	MDL 0.03	VL041914.D	15 Jan 2025 03:23	SY/MD	Ok,M
29	VSTDCCC010	VL041915.D	15 Jan 2025 08:37	SY/MD	Not Ok

M : Manual Integration

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL012725

Review By	Semsettin Yesilyurt	Review On	1/30/2025 10:54:41 AM		
Supervise By	Mahesh Dadoda	Supervise On	1/30/2025 11:53:52 AM		
SubDirectory	VL012725	HP Acquire Method	TO15AIR.M	HP Processing Method	VL011425AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2569			
Initial Calibration Stds		AP2571,AP2572,AP2573			
CCC		AP2571			
Internal Standard/PEM		AP2569			
ICV/I.BLK		AP2574			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL041943.D	27 Jan 2025 09:02	SY/MD	Ok
2	VSTDCCC010	VL041944.D	27 Jan 2025 10:05	SY/MD	Ok,M
3	VL0127ABL01	VL041945.D	27 Jan 2025 10:47	SY/MD	Ok
4	VL0127ABL02	VL041946.D	27 Jan 2025 11:17	SY/MD	Ok
5	VL0127ABS01	VL041947.D	27 Jan 2025 12:19	SY/MD	Ok,M
6	Q1168-14 0.5	VL041948.D	27 Jan 2025 13:05	SY/MD	Ok,M
7	Q1168-13 0.45	VL041949.D	27 Jan 2025 13:36	SY/MD	Ok,M
8	Q1168-13 0.40	VL041950.D	27 Jan 2025 14:06	SY/MD	Ok,M
9	Q1168-13 0.1	VL041951.D	27 Jan 2025 14:37	SY/MD	Ok,M
10	Q1168-13 0.03	VL041952.D	27 Jan 2025 15:09	SY/MD	Not Ok
11	Q1168-14 0.03	VL041953.D	27 Jan 2025 15:40	SY/MD	Not Ok
12	QC012125 CAN 10268	VL041954.D	27 Jan 2025 16:11	SY/MD	Ok
13	QC012125 CAN 10268	VL041955.D	27 Jan 2025 16:42	SY/MD	Not Ok
14	VSTDCCC010	VL041956.D	27 Jan 2025 17:13	SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL020325

Review By	Semsettin Yesilyurt	Review On	2/4/2025 9:24:56 AM		
Supervise By	Maresh Dadoda	Supervise On	2/4/2025 3:44:53 PM		
SubDirectory	VL020325	HP Acquire Method	TO15AIR.M	HP Processing Method	VL011425AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2569			
Initial Calibration Stds		AP2571,AP2572,AP2573			
CCC		AP2571			
Internal Standard/PEM		AP2569			
ICV/I.BLK		AP2574			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL041957.D	03 Feb 2025 09:47	SY/MD	Ok
2	VSTDCCC010	VL041958.D	03 Feb 2025 10:48	SY/MD	Ok,M
3	VL0203ABL01	VL041959.D	03 Feb 2025 11:34	SY/MD	Ok
4	VL0203ABL02	VL041960.D	03 Feb 2025 12:05	SY/MD	Ok
5	VL0203ABS01	VL041961.D	03 Feb 2025 12:57	SY/MD	Ok,M
6	Q1222-01	VL041962.D	03 Feb 2025 13:57	SY/MD	Ok,M
7	Q1222-01DL	VL041963.D	03 Feb 2025 14:28	SY/MD	Not Ok
8	Q1256-01	VL041964.D	03 Feb 2025 14:59	SY/MD	Ok,M
9	Q1256-01DL	VL041965.D	03 Feb 2025 15:30	SY/MD	Not Ok
10	QC012825 CAN 10439	VL041966.D	03 Feb 2025 16:02	SY/MD	Ok
11	Q1222-02	VL041967.D	03 Feb 2025 16:35	SY/MD	Ok,M
12	Q1222-02DUP	VL041968.D	03 Feb 2025 17:08	SY/MD	Ok,M
13	Q1222-03	VL041969.D	03 Feb 2025 17:41	SY/MD	Ok,M
14	Q1256-02	VL041970.D	03 Feb 2025 18:15	SY/MD	Ok,M
15	Q1168-14 0.03	VL041971.D	03 Feb 2025 21:01	SY/MD	Not Ok
16	Q1168-13 0.03	VL041972.D	03 Feb 2025 21:32	SY/MD	Ok,M
17	Q1168-14 0.03	VL041973.D	03 Feb 2025 22:13	SY/MD	Ok,M
18	QC020325 CAN 10599	VL041974.D	04 Feb 2025 08:03	SY/MD	Ok
19	VSTDCCC010	VL041975.D	04 Feb 2025 08:34	SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL022525

Review By	Semsettin Yesilyurt	Review On	2/26/2025 8:27:25 AM		
Supervise By	Maresh Dadoda	Supervise On	2/26/2025 1:45:21 PM		
SubDirectory	VL022525	HP Acquire Method	TO15AIR.M	HP Processing Method	VL022525AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2576			
Initial Calibration Stds		AP2582,AP2584,AP2585			
CCC		AP2582			
Internal Standard/PEM		AP2576			
ICV/I.BLK		AP2586			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	Sampled	Data File Name	Date-Time	Operator	Status
1	BFB	VL042040.D	25 Feb 2025 07:56	SY/MD	Ok
2	VSTDIC010	VL042041.D	25 Feb 2025 08:56	SY/MD	Ok,M
3	VSTDIC002	VL042042.D	25 Feb 2025 09:29	SY/MD	Ok,M
4	VSTDIC001	VL042043.D	25 Feb 2025 10:00	SY/MD	Ok,M
5	VSTDIC0.5	VL042044.D	25 Feb 2025 10:31	SY/MD	Ok,M
6	VSTDIC0.1	VL042045.D	25 Feb 2025 11:03	SY/MD	Ok,M
7	VSTDIC0.03	VL042046.D	25 Feb 2025 11:34	SY/MD	Ok,M
8	VSTDIC015	VL042047.D	25 Feb 2025 12:07	SY/MD	Ok,M
9	VSTDICV010	VL042048.D	25 Feb 2025 13:15	SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL022625

Review By	Semsettin Yesilyurt	Review On	2/27/2025 10:12:04 AM		
Supervise By	Maresh Dadoda	Supervise On	2/27/2025 12:13:24 PM		
SubDirectory	VL022625	HP Acquire Method	TO15AIR.M	HP Processing Method	VL022525AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2576			
Initial Calibration Stds		AP2582,AP2584,AP2585			
CCC		AP2582			
Internal Standard/PEM		AP2576			
ICV/I.BLK		AP2586			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042049.D	26 Feb 2025 07:46	SY/MD	Ok
2	VSTDCCC010	VL042050.D	26 Feb 2025 08:38	SY/MD	Ok,M
3	VL0226ABL01	VL042051.D	26 Feb 2025 09:20	SY/MD	Ok
4	QC021725 CAN 10271	VL042052.D	26 Feb 2025 10:04	SY/MD	Ok
5	QC022525 CAN 10795	VL042053.D	26 Feb 2025 10:36	SY/MD	Ok
6	VL0226ABS01	VL042054.D	26 Feb 2025 11:07	SY/MD	Ok,M
7	Q1419-02	VL042055.D	26 Feb 2025 11:40	SY/MD	Ok,M
8	Q1430-05	VL042056.D	26 Feb 2025 12:14	SY/MD	Ok,M
9	Q1430-05DUP	VL042057.D	26 Feb 2025 12:48	SY/MD	Ok,M
10	Q1430-06	VL042058.D	26 Feb 2025 13:21	SY/MD	Ok,M
11	Q1430-06DL	VL042059.D	26 Feb 2025 13:52	SY/MD	Not Ok
12	Q1419-01	VL042060.D	26 Feb 2025 14:24	SY/MD	Dilution
13	Q1419-01DL	VL042061.D	26 Feb 2025 14:55	SY/MD	Not Ok
14	Q1419-01DL	VL042062.D	26 Feb 2025 15:27	SY/MD	Ok,M
15	Q1419-01DL2	VL042063.D	26 Feb 2025 15:58	SY/MD	Not Ok
16	VSTDCCC010	VL042064.D	26 Feb 2025 16:29	SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QCBatch ID # VL031425

Review By	Semsettin Yesilyurt	Review On	3/17/2025 8:36:35 AM		
Supervise By	Maresh Dadoda	Supervise On	3/17/2025 1:46:41 PM		
SubDirectory	VL031425	HP Acquire Method	TO15AIR.M	HP Processing Method	VL022525AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2588			
Initial Calibration Stds		AP2582,AP2584,AP2585			
CCC		AP2582			
Internal Standard/PEM		AP2588			
ICV/I.BLK		AP2586			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042140.D	14 Mar 2025 07:56	SY/MD	Ok
2	VSTDCCC010	VL042141.D	14 Mar 2025 08:39	SY/MD	Ok,M
3	VL0314ABL01	VL042142.D	14 Mar 2025 09:23	SY/MD	Ok
4	QC031025 CAN 10267	VL042143.D	14 Mar 2025 10:09	SY/MD	Ok
5	QC031225 CAN 10300	VL042144.D	14 Mar 2025 10:40	SY/MD	Not Ok
6	QC031325 CAN 10266	VL042145.D	14 Mar 2025 11:11	SY/MD	Ok
7	VL0314ABS01	VL042146.D	14 Mar 2025 12:27	SY/MD	Ok,M
8	QC031225 CAN 10300	VL042147.D	14 Mar 2025 15:56	SY/MD	Ok
9	QC031225 CAN 10300	VL042148.D	14 Mar 2025 16:29	SY/MD	Not Ok

M : Manual Integration

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\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 26 06:05:16 2022

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	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

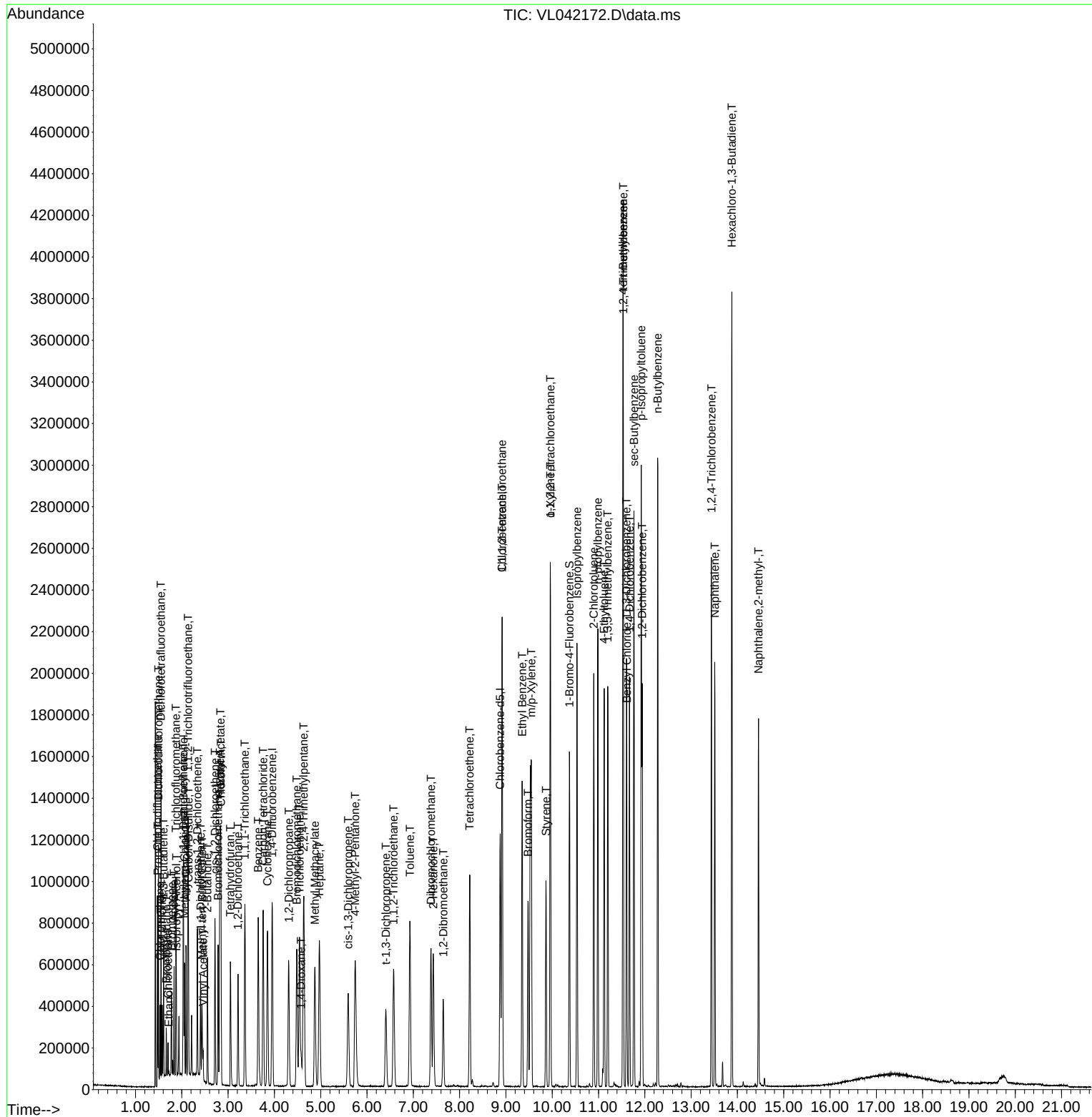
Quant Time: Mar 28 01:31:57 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 01:31:23 2025
 Response via : Initial Calibration

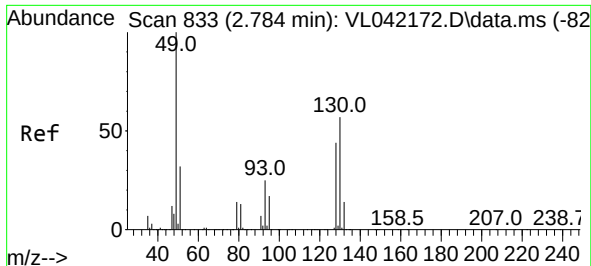
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	300021	9.973	ppbv	100
47) 1,1,2-Trichloroethane	6.574	97	198176	9.526	ppbv	100
48) Dibromochloromethane	7.380	129	346499	9.828	ppbv	100
49) Bromoform	9.477	173	317189	10.021	ppbv	100
50) 4-Methyl-2-Pentanone	5.745	43	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	595445	8.071	ppbv #	9
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

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_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration

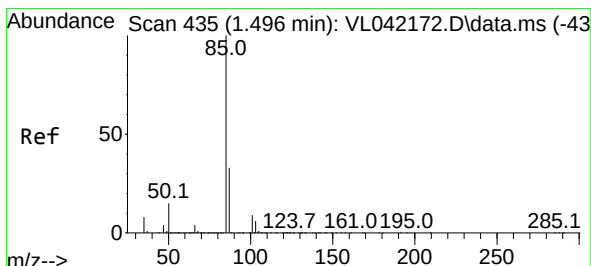
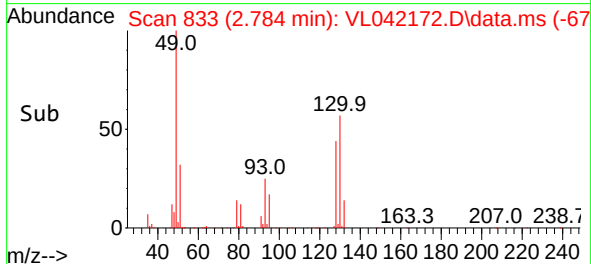
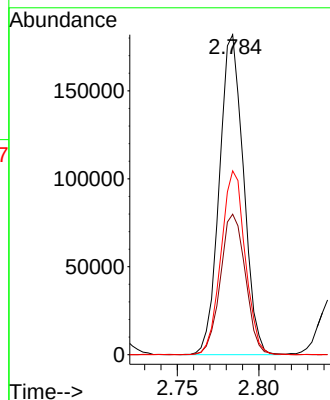
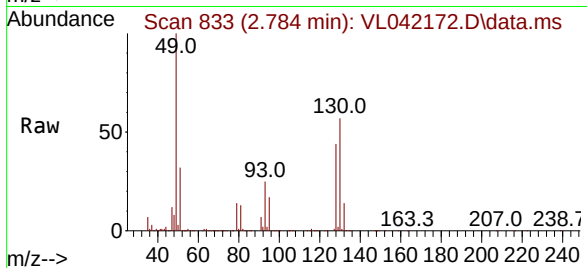




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. -0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

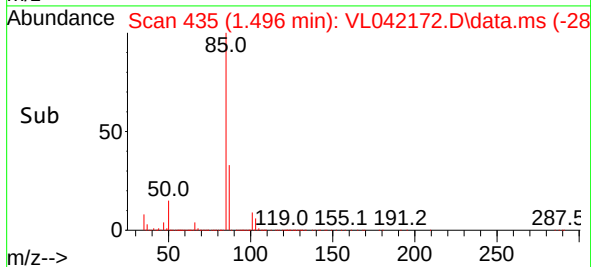
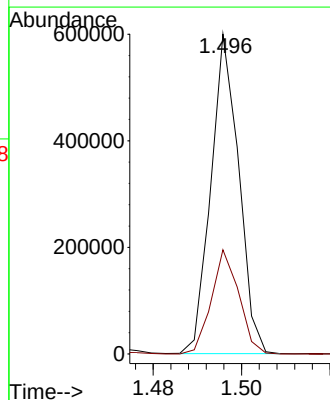
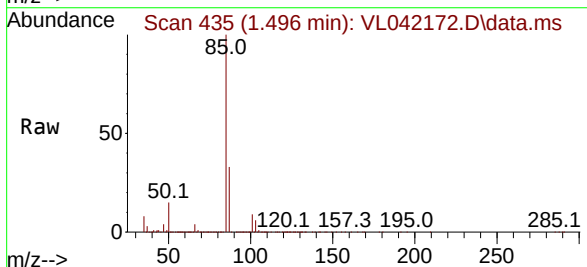
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MSVOA_1
ClientSampleId :
VSTDICCC010

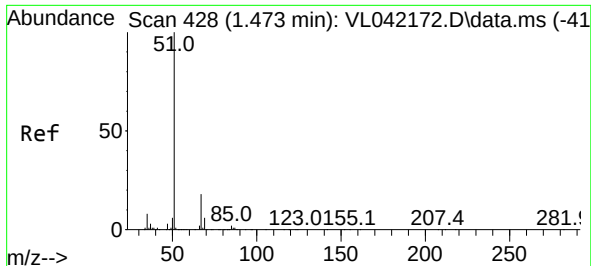
Tgt Ion: 49 Resp: 187002
Ion Ratio Lower Upper
49 100
128 45.7 22.9 68.5
130 57.6 28.8 86.4



#2
Dichlorodifluoromethane
Concen: 9.507 ppbv
RT: 1.496 min Scan# 435
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 85 Resp: 262496
Ion Ratio Lower Upper
85 100
87 32.6 26.1 39.1

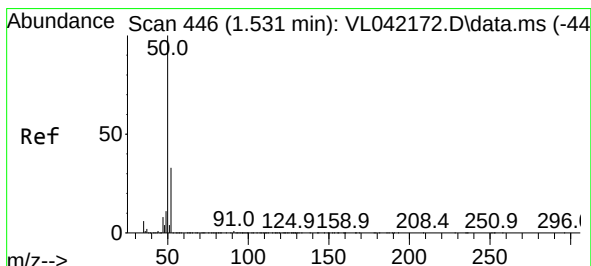
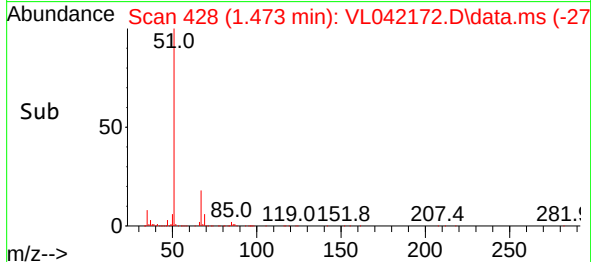
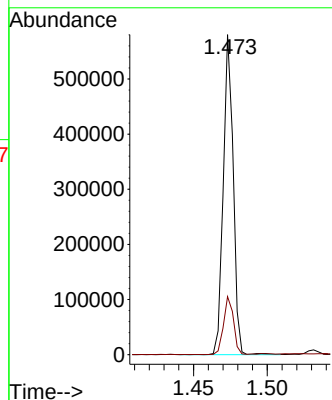
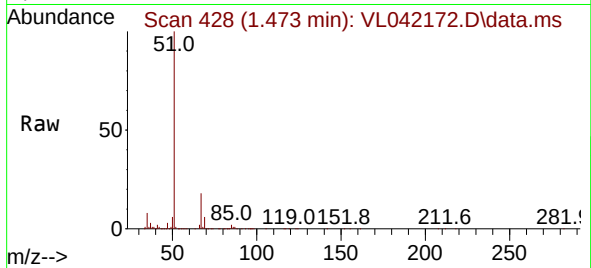




#3
Chlorodifluoromethane
Concen: 9.662 ppbv
RT: 1.473 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

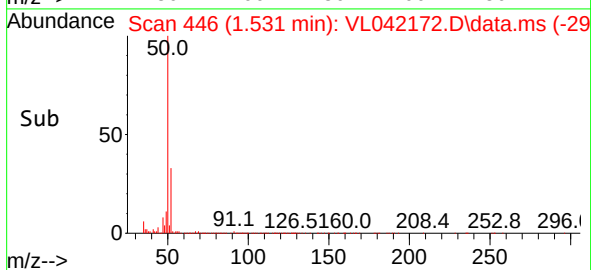
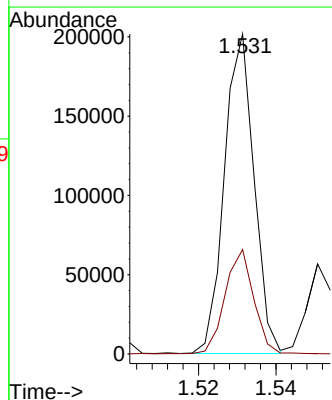
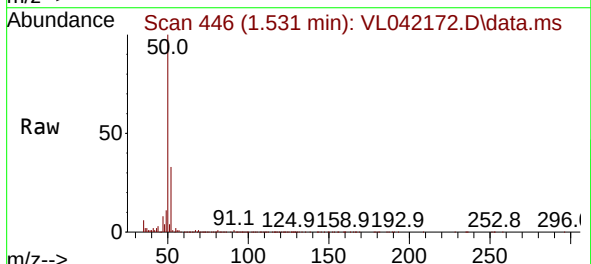
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

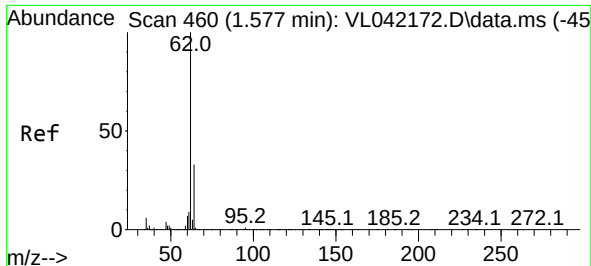
Tgt Ion: 51 Resp: 272522
Ion Ratio Lower Upper
51 100
67 18.8 15.0 22.6



#4
Chloromethane
Concen: 9.491 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 50 Resp: 107099
Ion Ratio Lower Upper
50 100
52 32.6 26.1 39.1

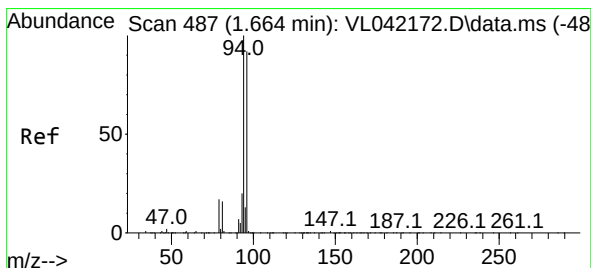
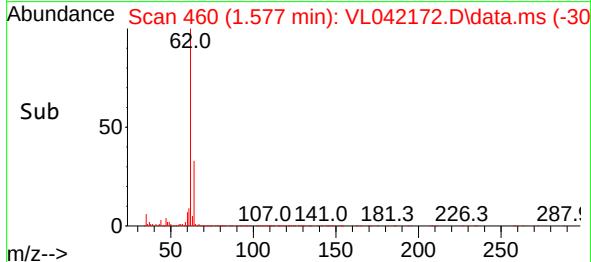
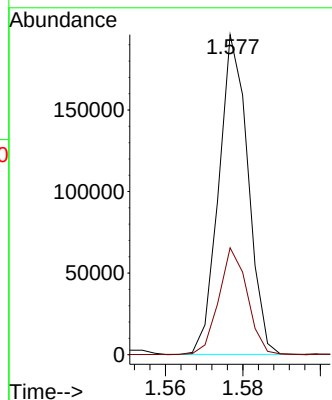
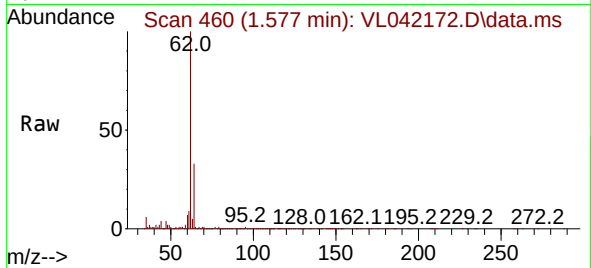




#5
 Vinyl Chloride
 Concen: 8.925 ppbv
 RT: 1.577 min Scan# 460
 Delta R.T. 0.000 min
 Lab File: VL042172.D
 Acq: 27 Mar 2025 08:26

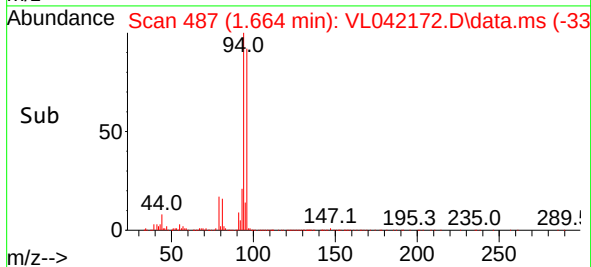
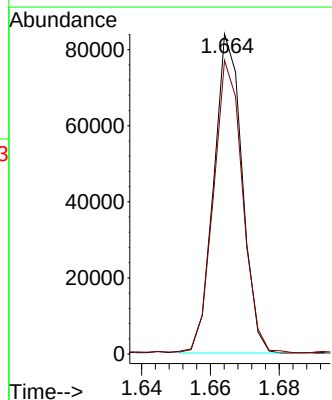
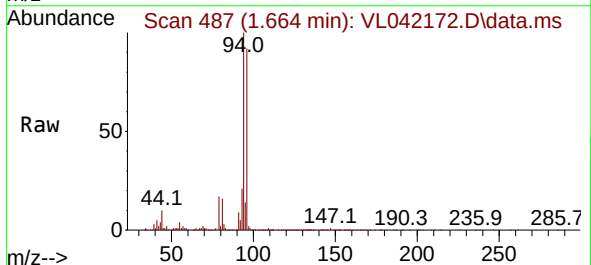
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

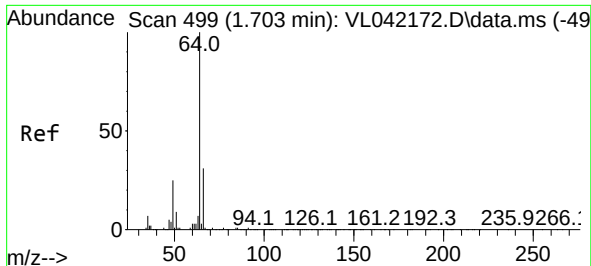
Tgt Ion: 62 Resp: 102699
 Ion Ratio Lower Upper
 62 100
 64 33.3 26.6 40.0



#6
 Bromomethane
 Concen: 9.377 ppbv
 RT: 1.664 min Scan# 487
 Delta R.T. 0.000 min
 Lab File: VL042172.D
 Acq: 27 Mar 2025 08:26

Tgt Ion: 94 Resp: 47950
 Ion Ratio Lower Upper
 94 100
 96 91.4 73.1 109.7

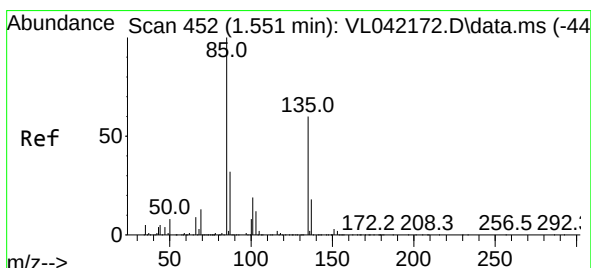
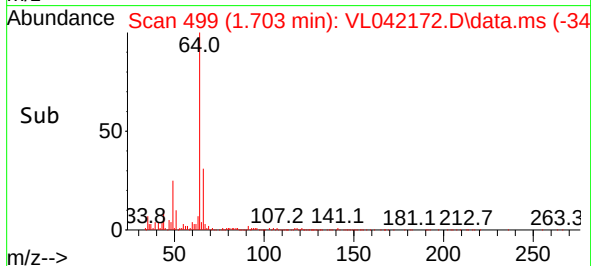
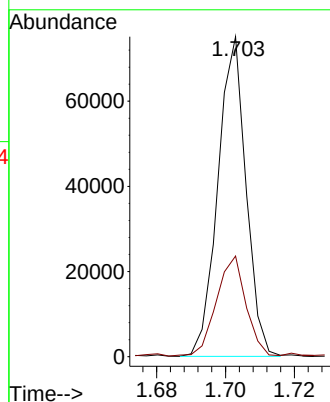
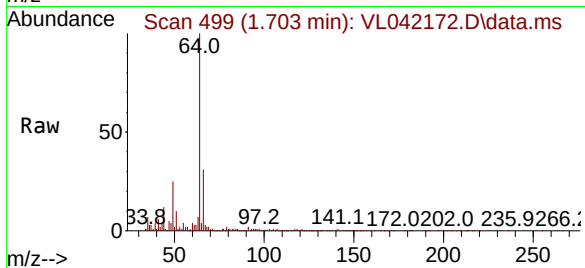




#7
Chloroethane
Concen: 9.387 ppbv
RT: 1.703 min Scan# 499
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

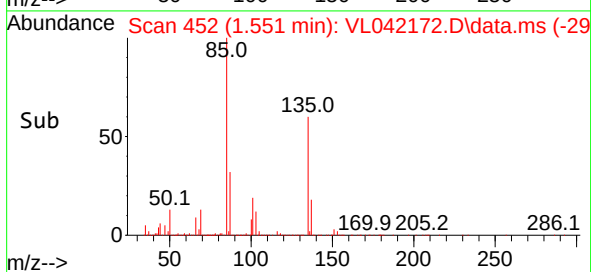
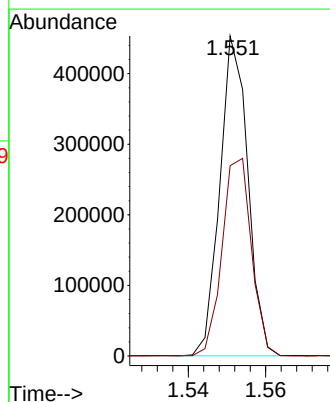
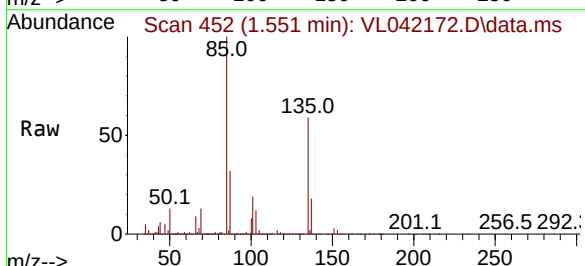
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

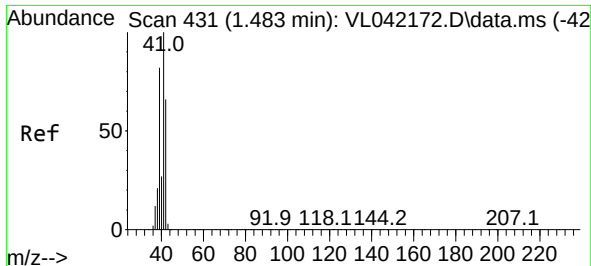
Tgt Ion: 64 Resp: 42516
Ion Ratio Lower Upper
64 100
66 31.5 25.2 37.8



#8
Dichlorotetrafluoroethane
Concen: 9.656 ppbv
RT: 1.551 min Scan# 452
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 85 Resp: 227041
Ion Ratio Lower Upper
85 100
135 65.5 52.4 78.6

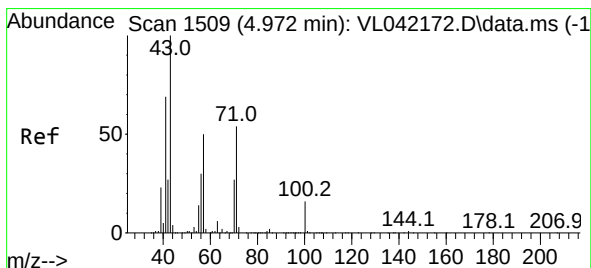
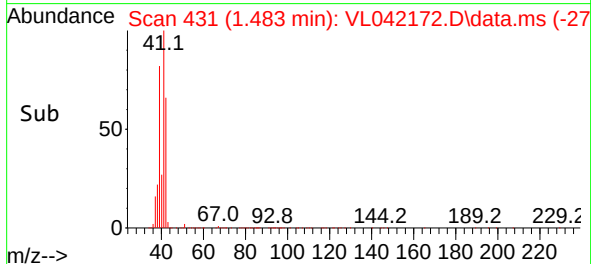
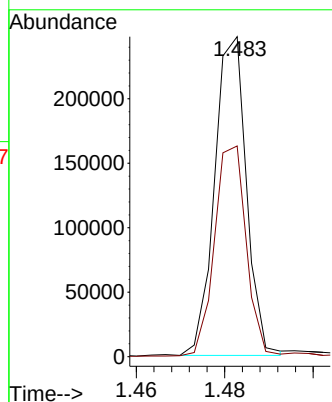
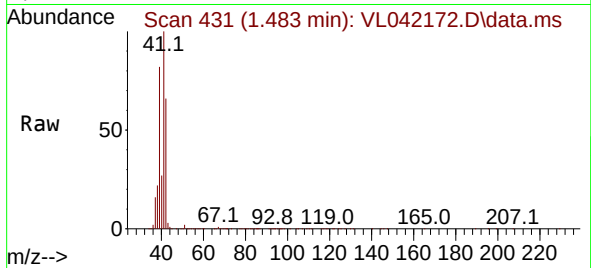




#9
 Propene
 Concen: 9.709 ppbv
 RT: 1.483 min Scan# 41
 Delta R.T. 0.000 min
 Lab File: VL042172.D
 Acq: 27 Mar 2025 08:26

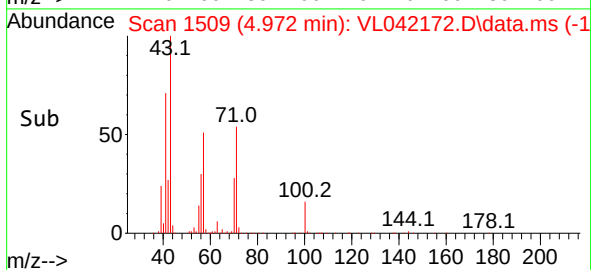
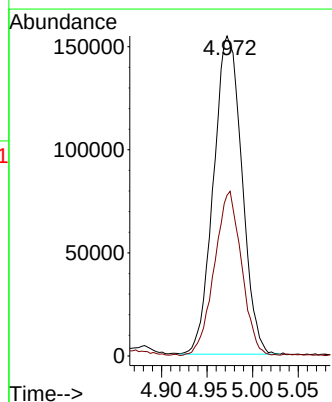
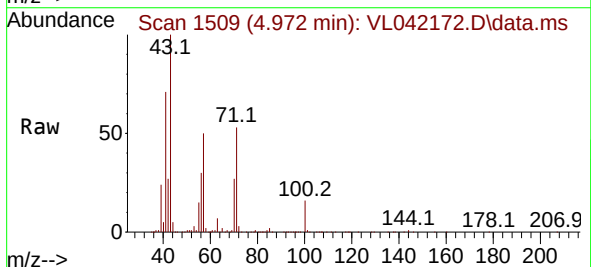
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

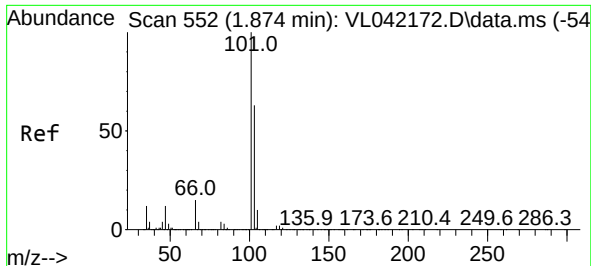
Tgt Ion: 41 Resp: 123386
 Ion Ratio Lower Upper
 41 100
 42 69.3 55.4 83.2



#10
 Heptane
 Concen: 9.744 ppbv
 RT: 4.972 min Scan# 1509
 Delta R.T. 0.000 min
 Lab File: VL042172.D
 Acq: 27 Mar 2025 08:26

Tgt Ion: 43 Resp: 335086
 Ion Ratio Lower Upper
 43 100
 57 49.3 39.4 59.2

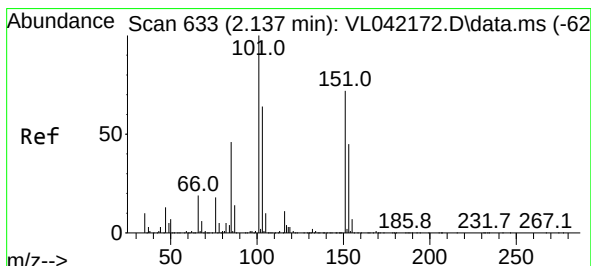
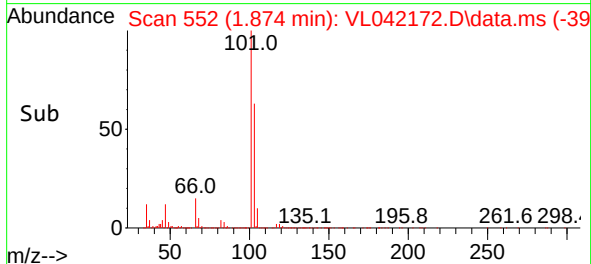
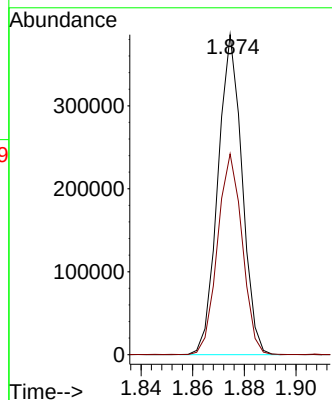
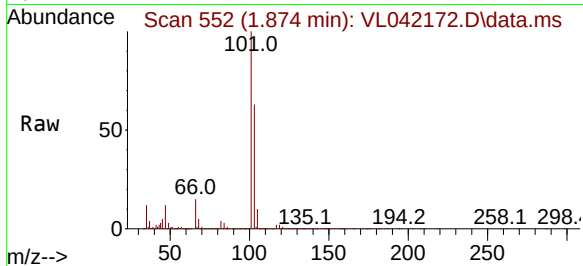




#11
 Trichlorofluoromethane
 Concen: 9.318 ppbv
 RT: 1.874 min Scan# 511
 Delta R.T. 0.000 min
 Lab File: VL042172.D
 Acq: 27 Mar 2025 08:26

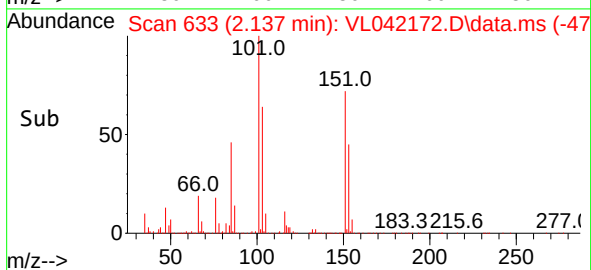
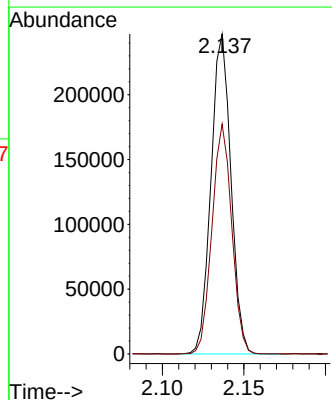
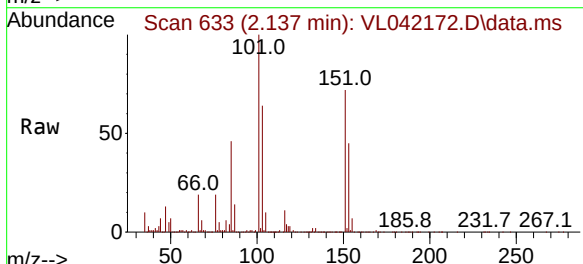
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

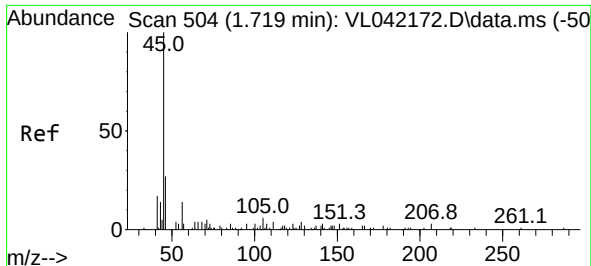
Tgt Ion:101 Resp: 250349
 Ion Ratio Lower Upper
 101 100
 103 62.7 50.2 75.2



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.481 ppbv
 RT: 2.137 min Scan# 633
 Delta R.T. 0.000 min
 Lab File: VL042172.D
 Acq: 27 Mar 2025 08:26

Tgt Ion:101 Resp: 209365
 Ion Ratio Lower Upper
 101 100
 151 71.4 57.1 85.7

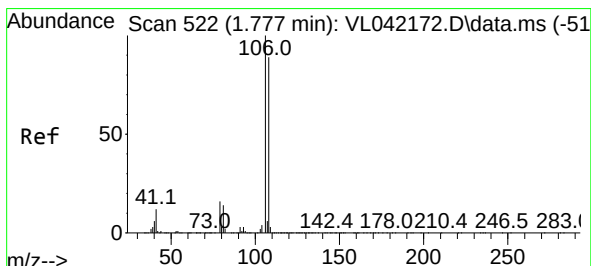
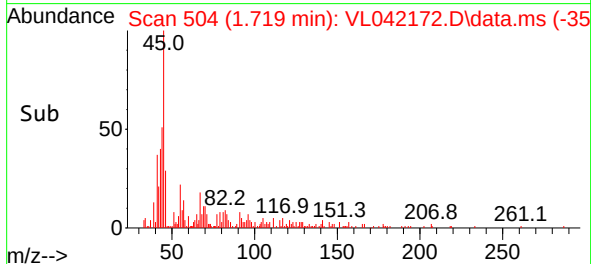
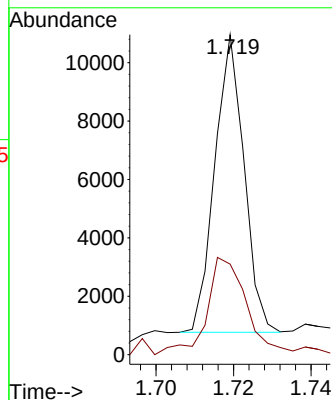
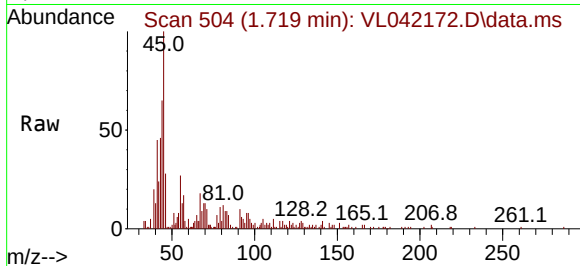




#13
Ethanol
Concen: 5.364 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

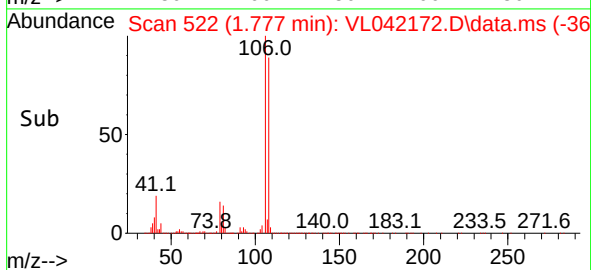
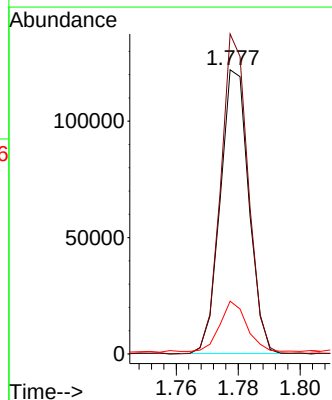
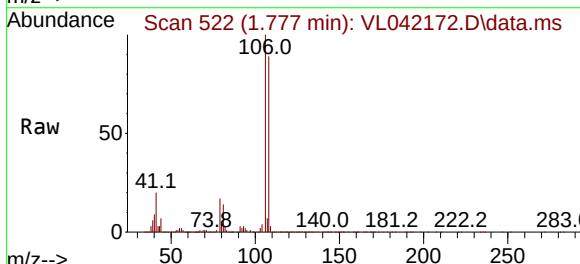
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

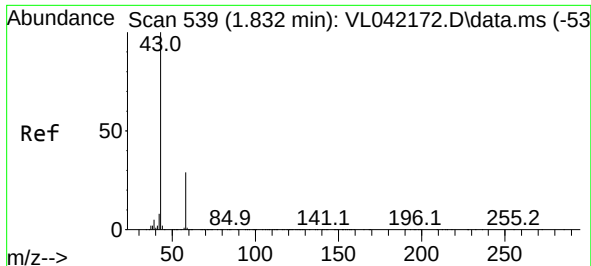
Tgt Ion: 45 Resp: 5338
Ion Ratio Lower Upper
45 100
46 50.5 20.2 80.8



#14
Bromoethene
Concen: 9.220 ppbv
RT: 1.777 min Scan# 522
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 108 Resp: 77999
Ion Ratio Lower Upper
108 100
106 108.5 86.8 130.2
79 18.8 15.0 22.6

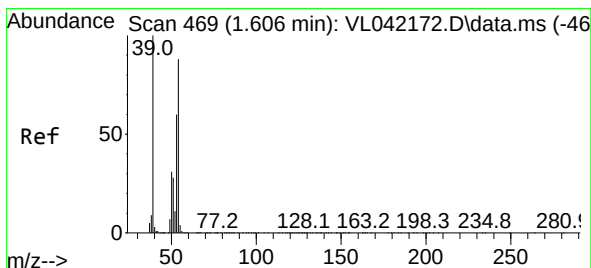
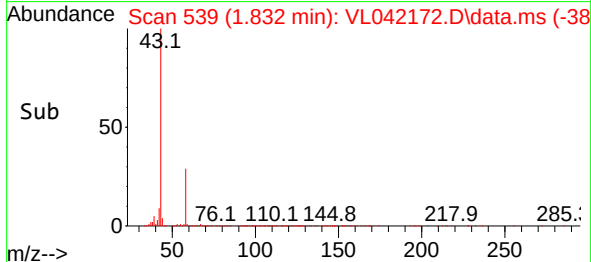
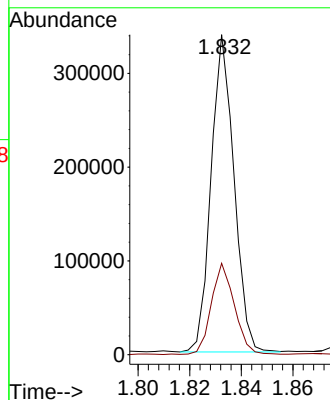
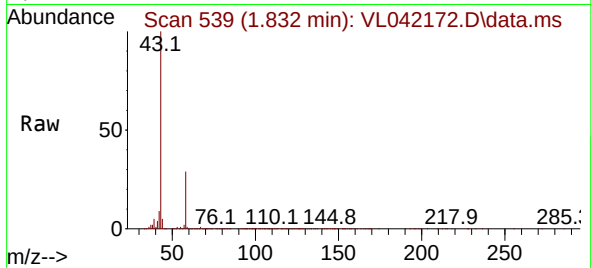




#15
Acetone
Concen: 7.955 ppbv
RT: 1.832 min Scan# 51
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

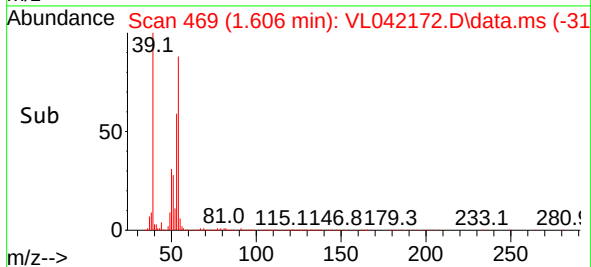
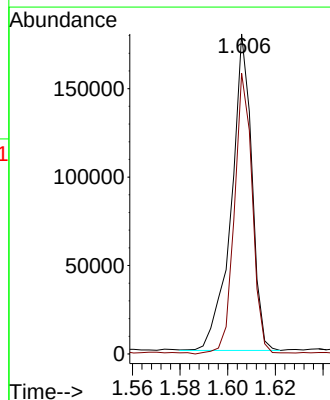
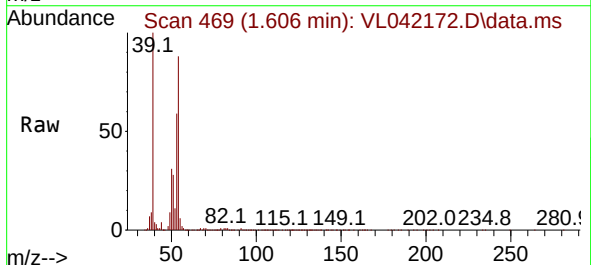
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

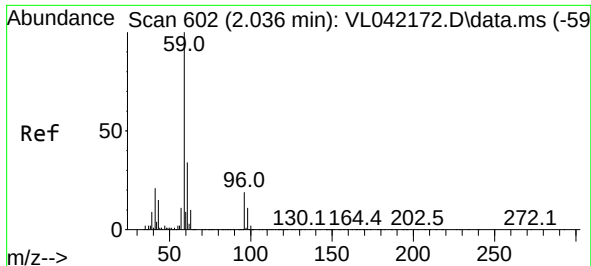
Tgt Ion: 43 Resp: 208061
Ion Ratio Lower Upper
43 100
58 29.0 23.2 34.8



#16
1,3-Butadiene
Concen: 9.105 ppbv
RT: 1.606 min Scan# 469
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 39 Resp: 107104
Ion Ratio Lower Upper
39 100
54 75.9 60.7 91.1





#17

tert-Butyl alcohol

Concen: 9.290 ppbv

RT: 2.036 min Scan# 602

Delta R.T. 0.000 min

Lab File: VL042172.D

Acq: 27 Mar 2025 08:26

Instrument :

MSVOA_1

ClientSampleId :

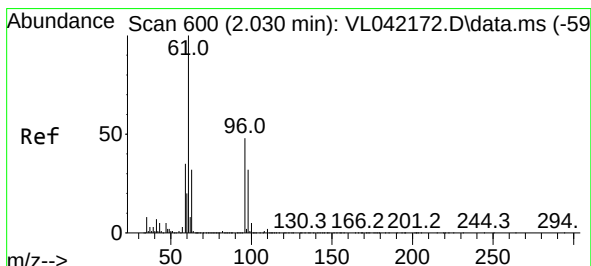
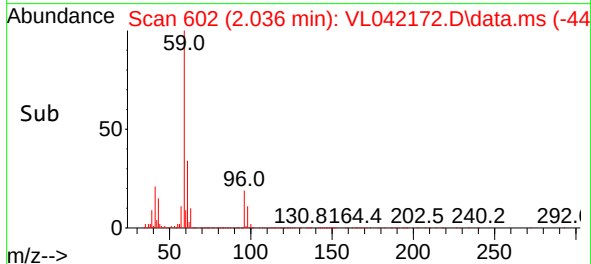
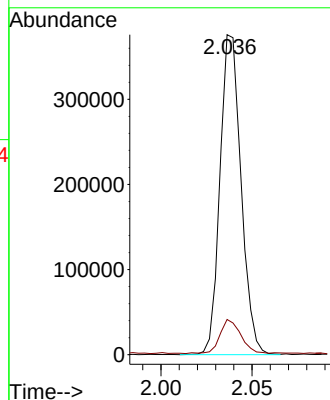
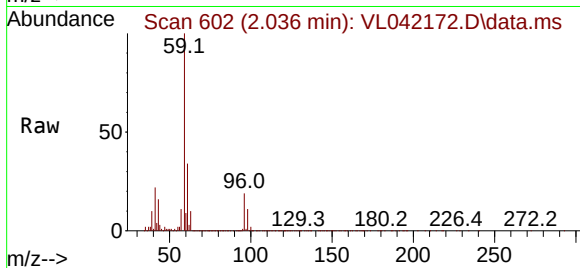
VSTDICCC010

Tgt Ion: 59 Resp: 302616

Ion Ratio Lower Upper

59 100

57 11.1 8.9 13.3



#18

1,1-Dichloroethene

Concen: 9.128 ppbv

RT: 2.030 min Scan# 600

Delta R.T. 0.000 min

Lab File: VL042172.D

Acq: 27 Mar 2025 08:26

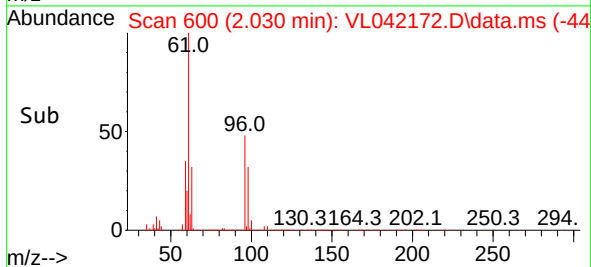
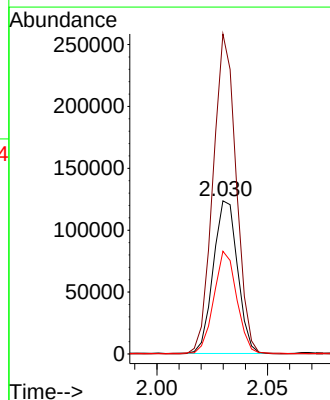
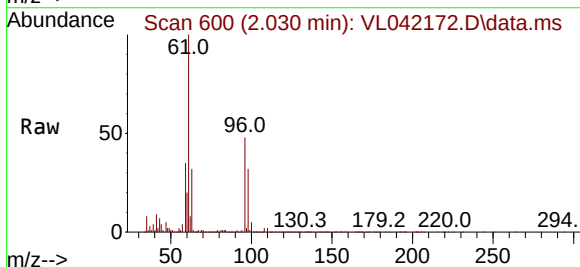
Tgt Ion: 96 Resp: 94236

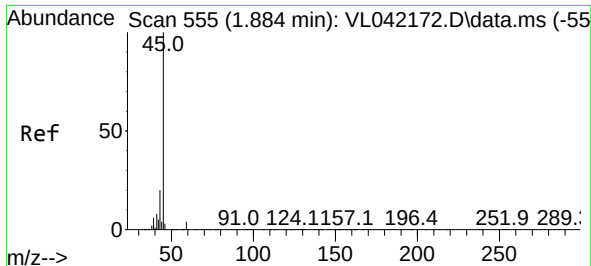
Ion Ratio Lower Upper

96 100

61 209.5 167.6 251.4

98 66.9 53.5 80.3

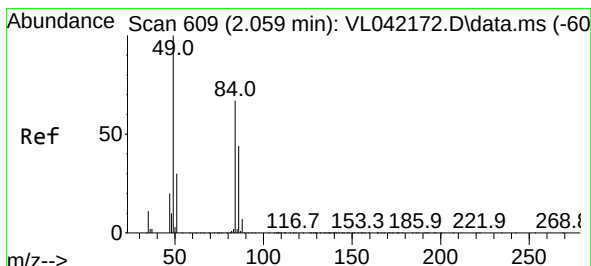
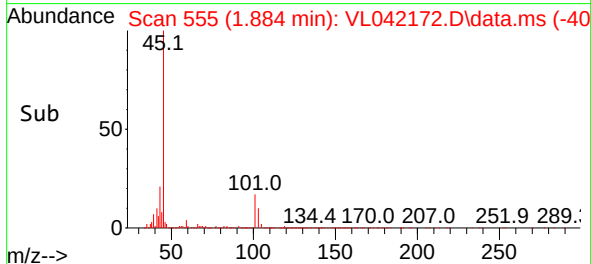
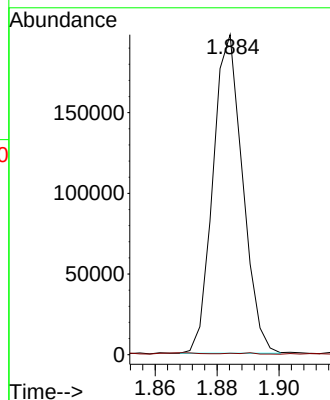
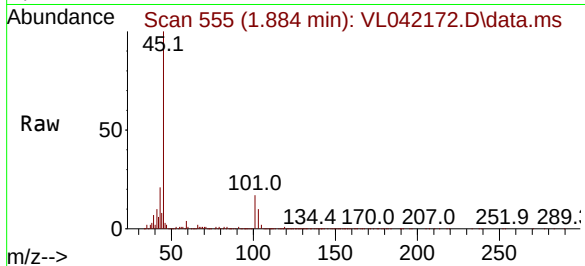




#19
Isopropyl Alcohol
Concen: 8.902 ppbv
RT: 1.884 min Scan# 511
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

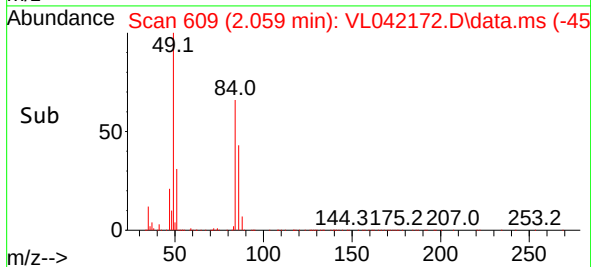
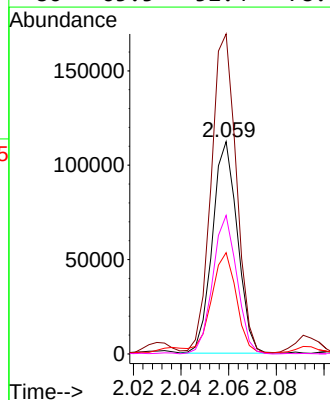
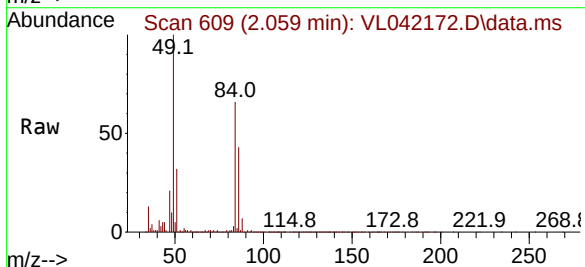
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

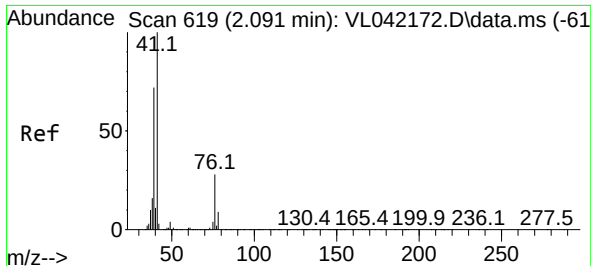
Tgt Ion: 45 Resp: 131359
Ion Ratio Lower Upper
45 100
58 46.1 36.9 55.3



#20
Methylene Chloride
Concen: 8.401 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 84 Resp: 81828
Ion Ratio Lower Upper
84 100
49 150.3 120.2 180.4
51 46.7 37.4 56.0
86 65.5 52.4 78.6

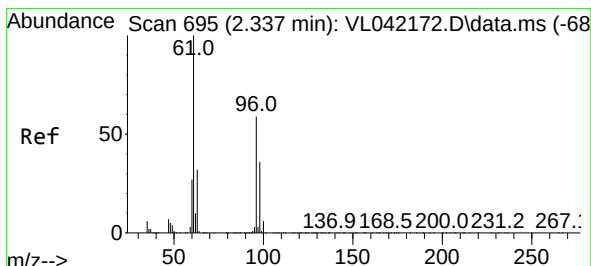
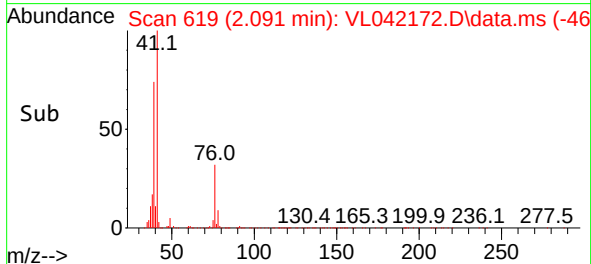
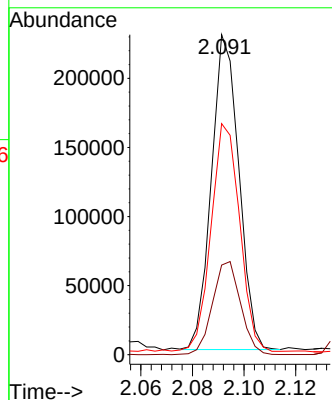
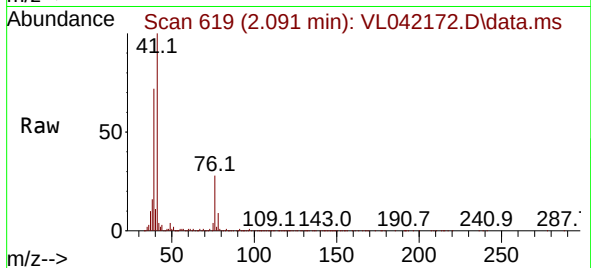




#21
 Allyl Chloride
 Concen: 9.141 ppbv
 RT: 2.091 min Scan# 619
 Delta R.T. 0.000 min
 Lab File: VL042172.D
 Acq: 27 Mar 2025 08:26

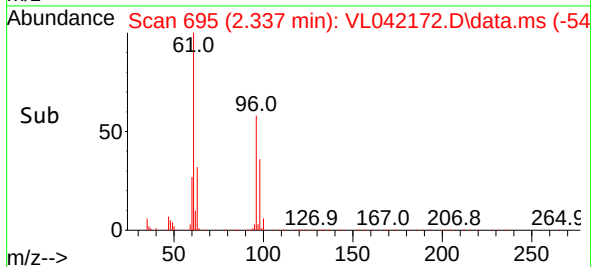
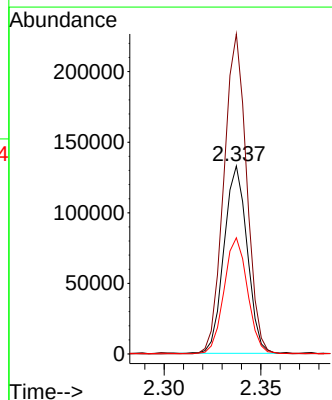
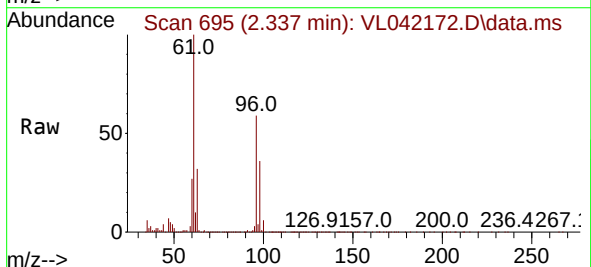
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

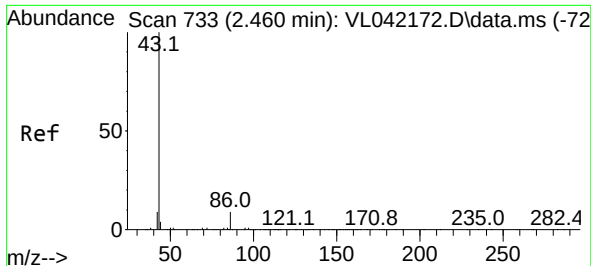
Tgt Ion: 41 Resp: 168602
 Ion Ratio Lower Upper
 41 100
 76 30.1 24.1 36.1
 39 76.4 61.1 91.7



#22
 trans-1,2-Dichloroethene
 Concen: 9.149 ppbv
 RT: 2.337 min Scan# 695
 Delta R.T. 0.000 min
 Lab File: VL042172.D
 Acq: 27 Mar 2025 08:26

Tgt Ion: 96 Resp: 110371
 Ion Ratio Lower Upper
 96 100
 61 170.7 136.6 204.8
 98 61.8 49.4 74.2

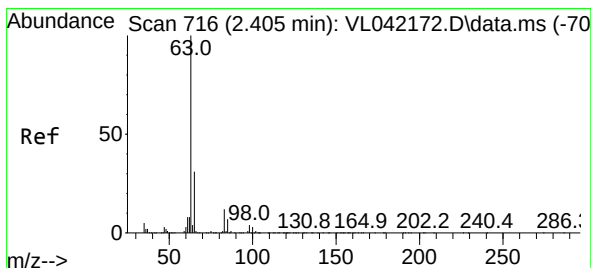
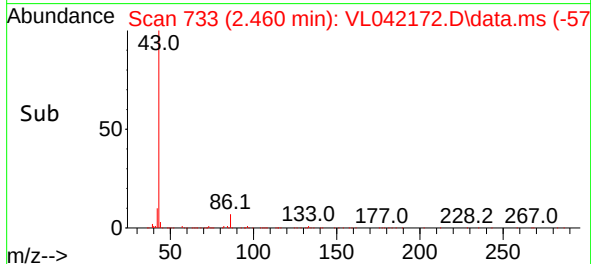
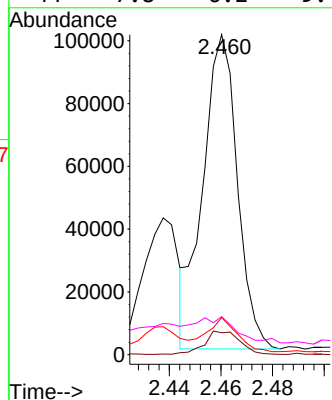
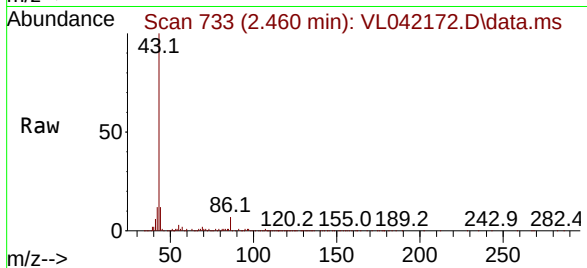




#23
 Vinyl Acetate
 Concen: 8.563 ppbv
 RT: 2.460 min Scan# 716
 Delta R.T. 0.000 min
 Lab File: VL042172.D
 Acq: 27 Mar 2025 08:26

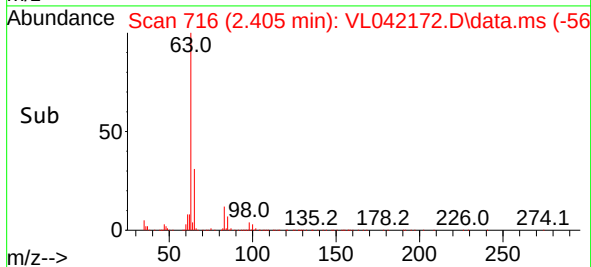
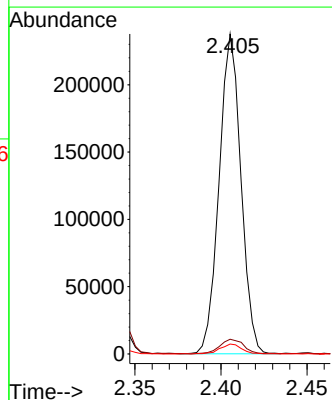
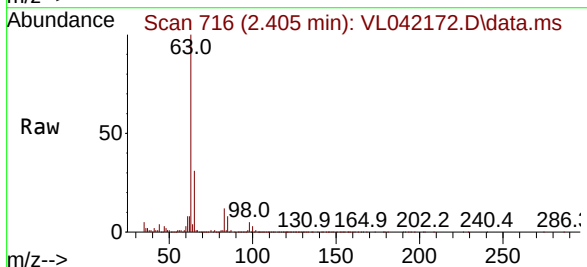
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

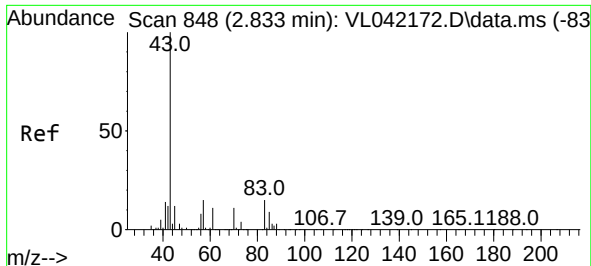
Tgt Ion:	43	Resp:	93080
Ion	Ratio	Lower	Upper
43	100		
86	6.9	5.5	8.3
42	10.8	8.6	13.0
44	7.8	6.2	9.4



#24
 1,1-Dichloroethane
 Concen: 9.484 ppbv
 RT: 2.405 min Scan# 716
 Delta R.T. 0.000 min
 Lab File: VL042172.D
 Acq: 27 Mar 2025 08:26

Tgt Ion:	63	Resp:	209753
Ion	Ratio	Lower	Upper
63	100		
98	4.5	2.3	6.8
100	3.1	1.6	4.7

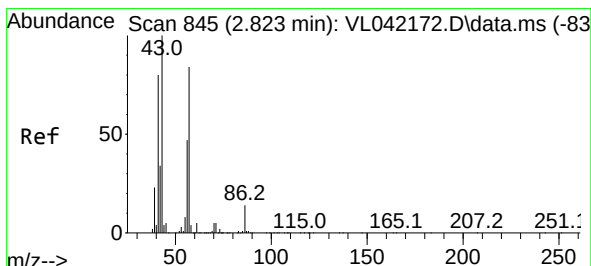
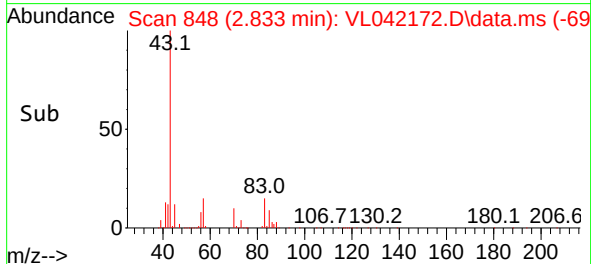
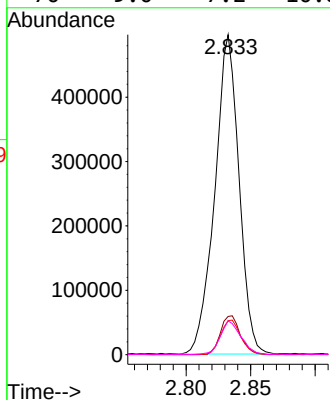
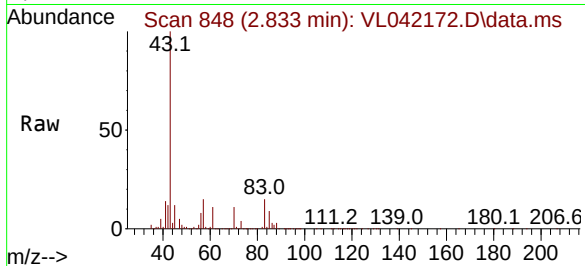




#25
Ethyl Acetate
Concen: 9.524 ppbv
RT: 2.833 min Scan# 848
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

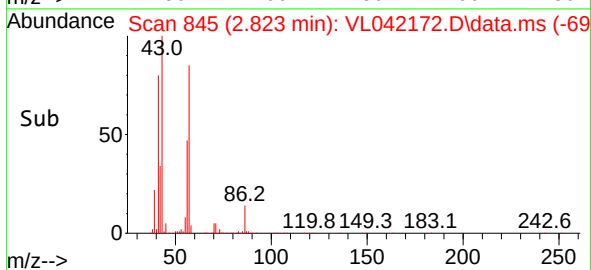
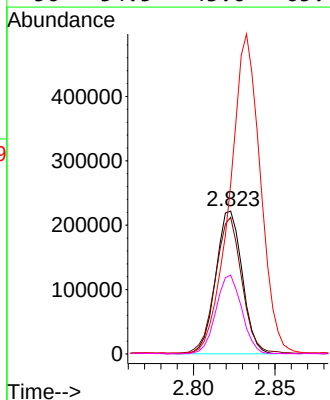
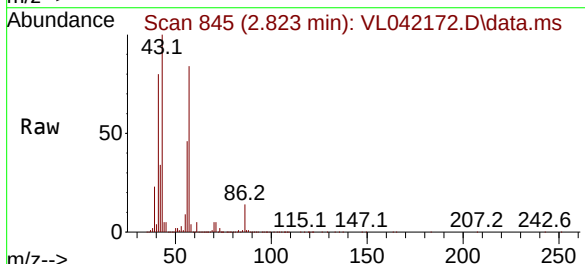
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

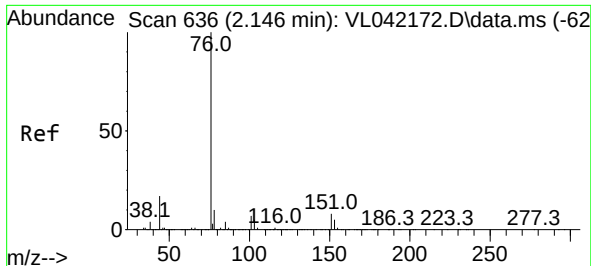
Tgt Ion:	43	Resp:	646501
Ion	Ratio	Lower	Upper
43	100		
45	10.2	8.2	12.2
61	9.1	7.3	10.9
70	9.0	7.2	10.8



#26
Hexane
Concen: 9.510 ppbv
RT: 2.823 min Scan# 845
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion:	57	Resp:	249331
Ion	Ratio	Lower	Upper
57	100		
41	95.7	76.6	114.8
43	259.8	207.8	311.8
56	54.5	43.6	65.4

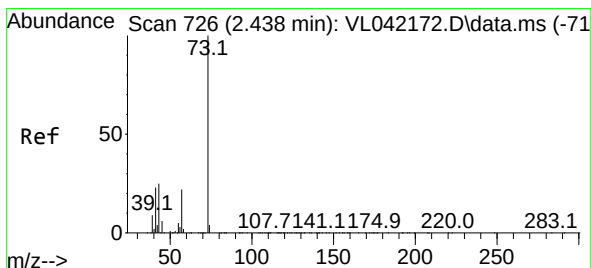
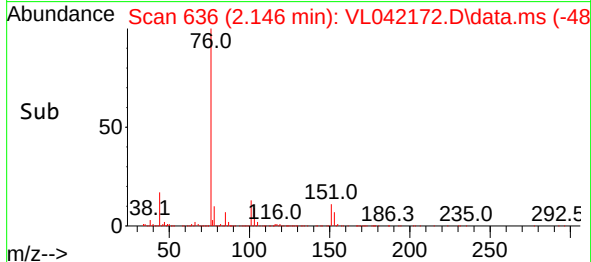
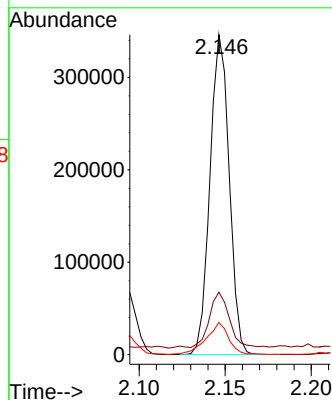
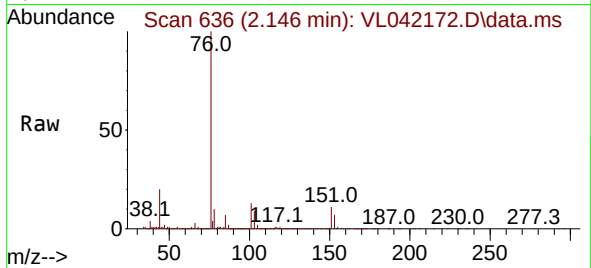




#27
Carbon Disulfide
Concen: 9.550 ppbv
RT: 2.146 min Scan# 636
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

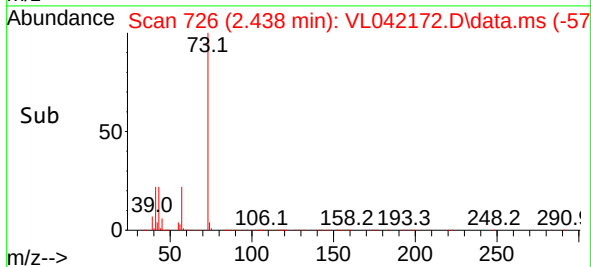
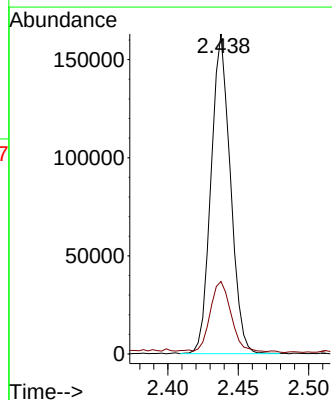
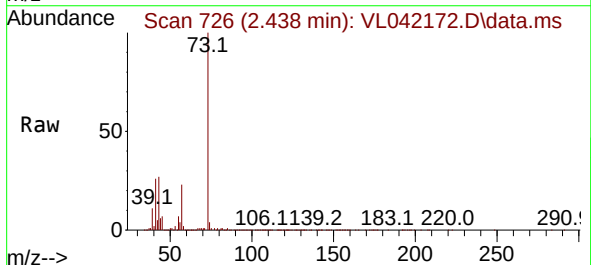
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

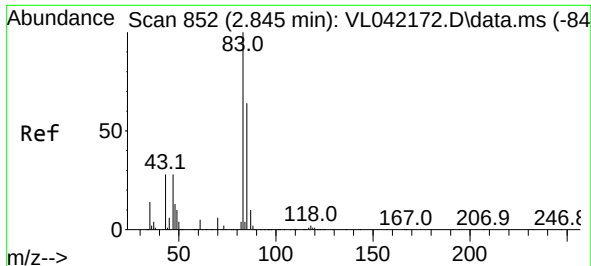
Tgt Ion: 76 Resp: 268507
Ion Ratio Lower Upper
76 100
44 18.4 14.7 22.1
78 11.6 9.3 13.9



#28
Methyl tert-Butyl Ether
Concen: 9.520 ppbv
RT: 2.438 min Scan# 726
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 73 Resp: 155398
Ion Ratio Lower Upper
73 100
57 25.6 20.5 30.7

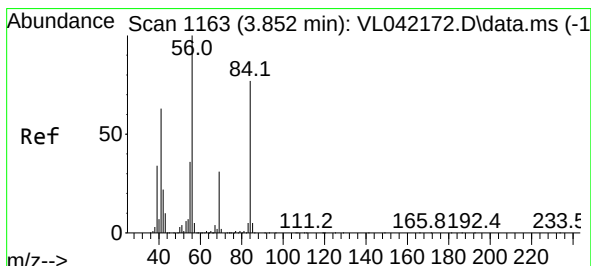
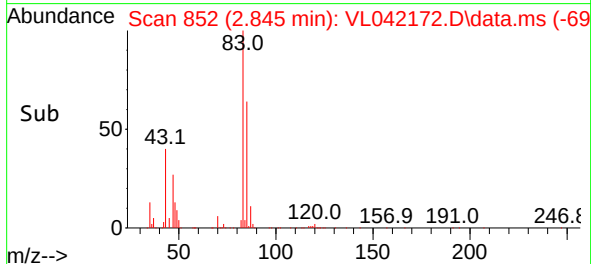
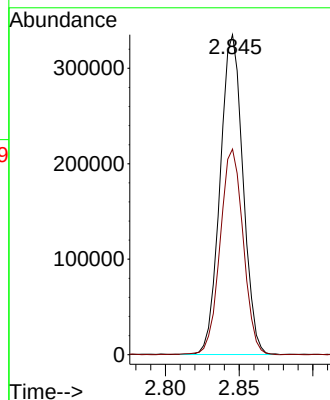
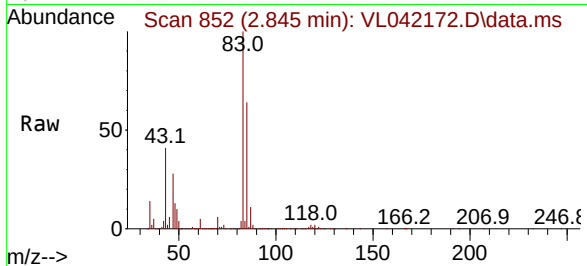




#29
Chloroform
Concen: 9.415 ppbv
RT: 2.845 min Scan# 852
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

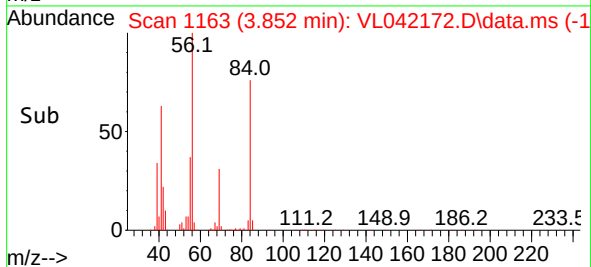
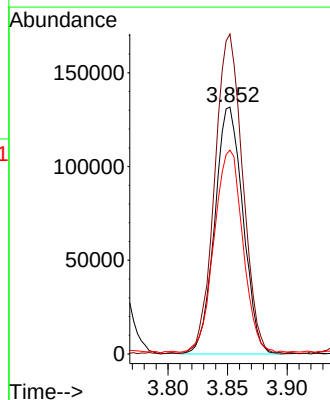
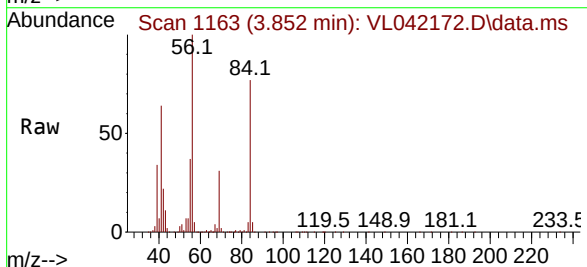
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

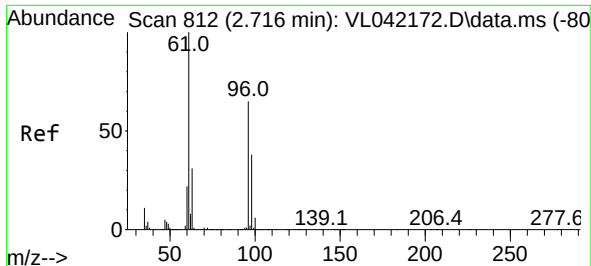
Tgt Ion: 83 Resp: 361264
Ion Ratio Lower Upper
83 100
85 64.3 51.4 77.2



#30
Cyclohexane
Concen: 9.537 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 84 Resp: 217215
Ion Ratio Lower Upper
84 100
56 128.5 102.8 154.2
41 83.1 66.5 99.7

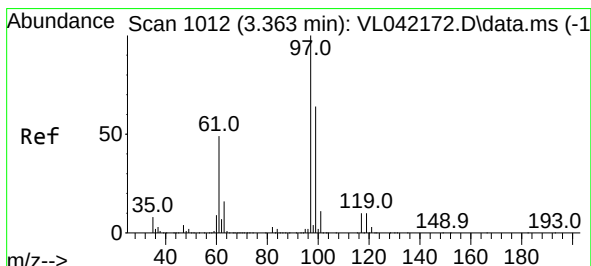
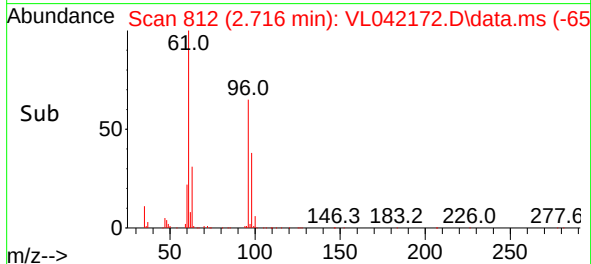
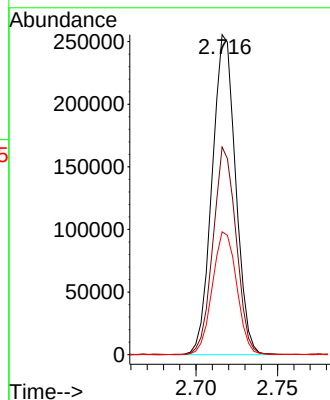
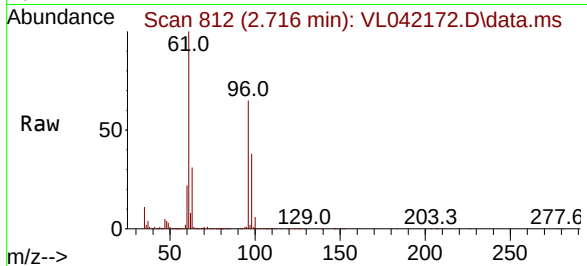




#31
cis-1,2-Dichloroethene
Concen: 9.634 ppbv
RT: 2.716 min Scan# 812
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

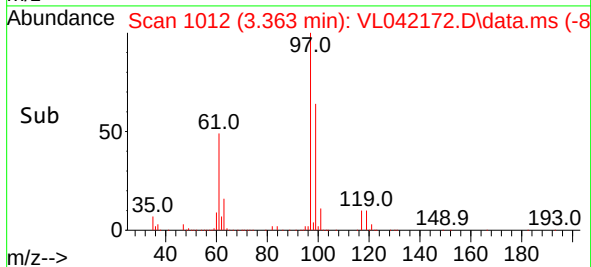
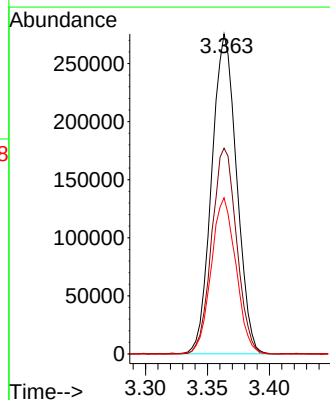
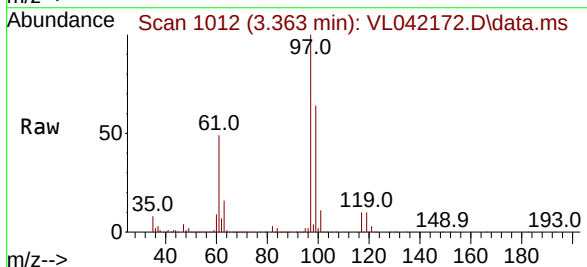
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

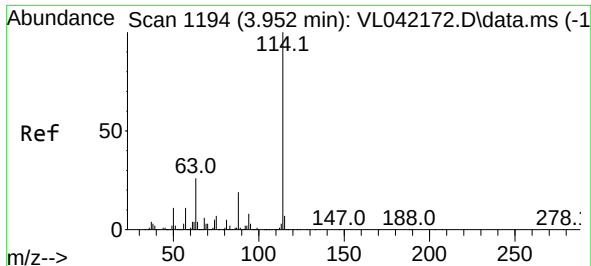
Tgt Ion: 61 Resp: 256425
Ion Ratio Lower Upper
61 100
96 64.8 51.8 77.8
98 38.3 30.6 46.0



#32
1,1,1-Trichloroethane
Concen: 8.784 ppbv
RT: 3.363 min Scan# 1012
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 97 Resp: 385628
Ion Ratio Lower Upper
97 100
99 64.4 51.5 77.3
61 48.4 38.7 58.1

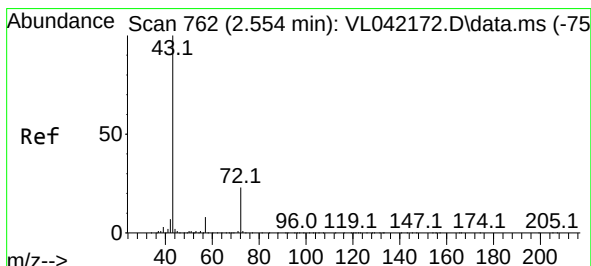
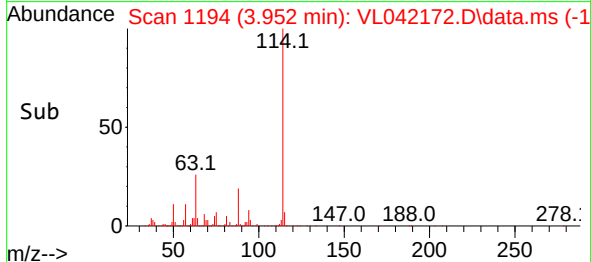
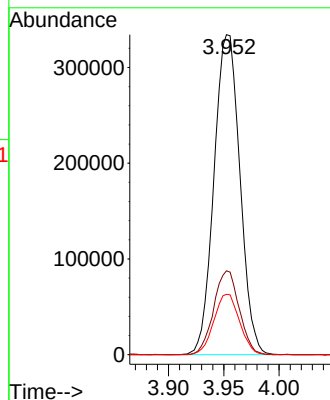
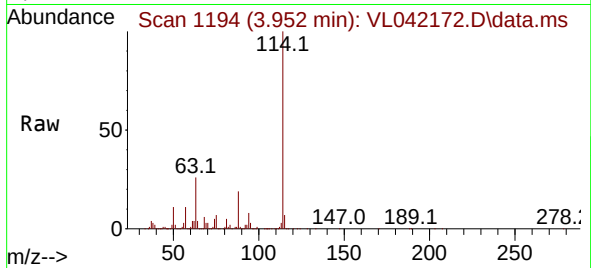




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

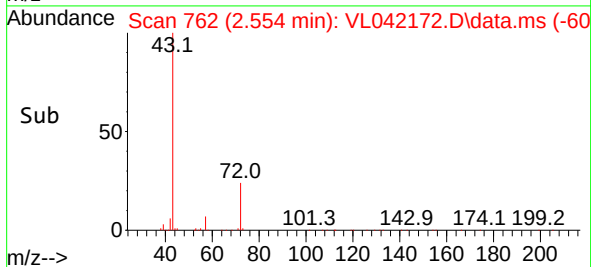
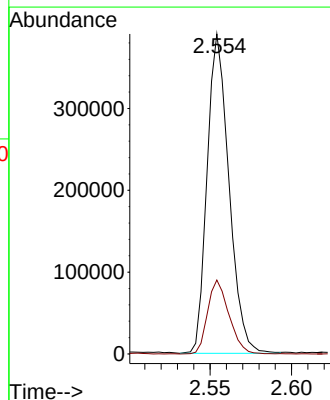
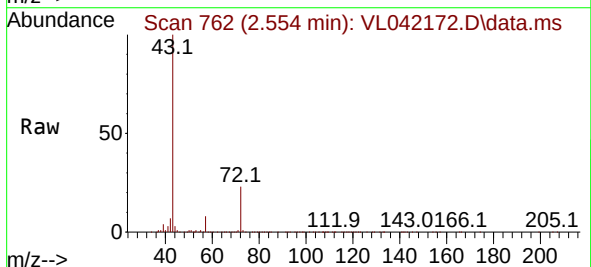
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

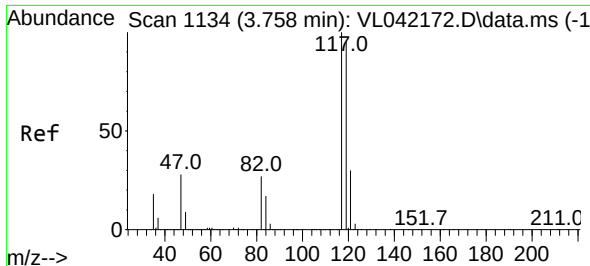
Tgt Ion:114 Resp: 545068
Ion Ratio Lower Upper
114 100
63 25.9 20.7 31.1
88 18.7 15.0 22.4



#34
2-Butanone
Concen: 9.203 ppbv
RT: 2.554 min Scan# 762
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 43 Resp: 363735
Ion Ratio Lower Upper
43 100
72 22.7 18.2 27.2

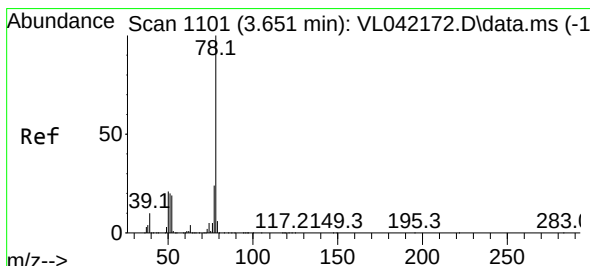
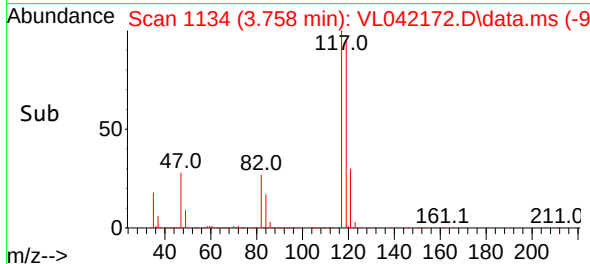
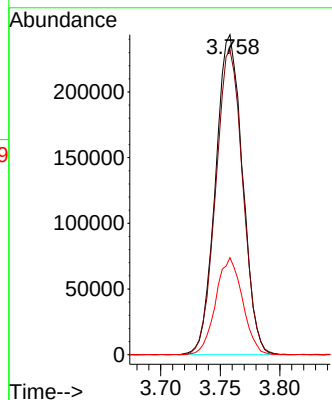
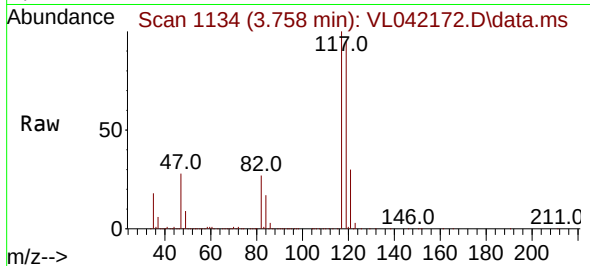




#35
Carbon Tetrachloride
Concen: 9.129 ppbv
RT: 3.758 min Scan# 1134
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

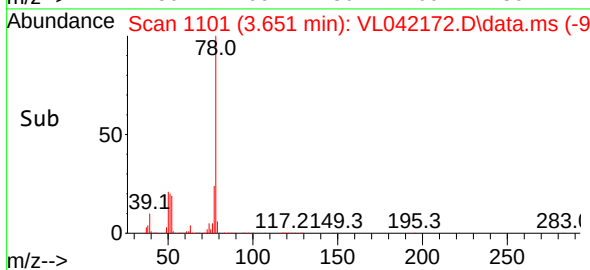
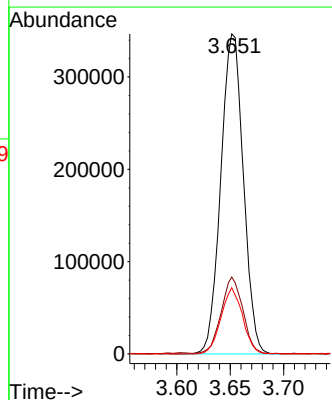
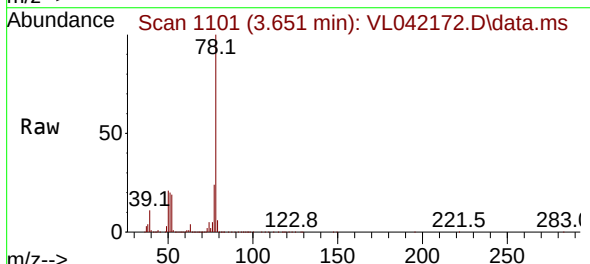
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

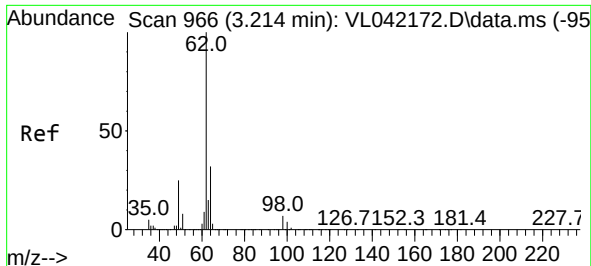
Tgt Ion:117 Resp: 382925
Ion Ratio Lower Upper
117 100
119 95.2 76.2 114.2
121 30.3 24.2 36.4



#36
Benzene
Concen: 9.417 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 78 Resp: 508860
Ion Ratio Lower Upper
78 100
77 23.9 19.1 28.7
50 20.7 16.6 24.8

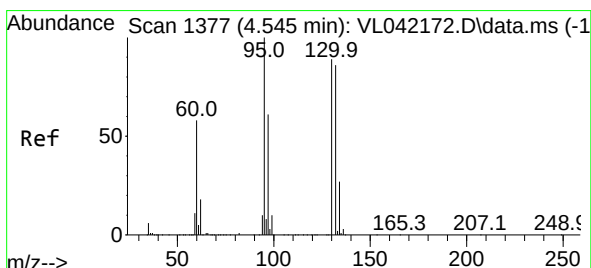
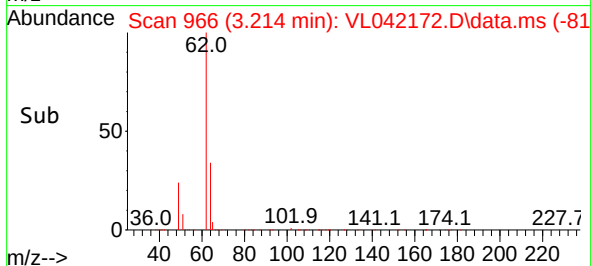
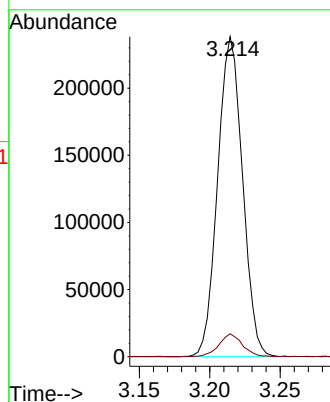
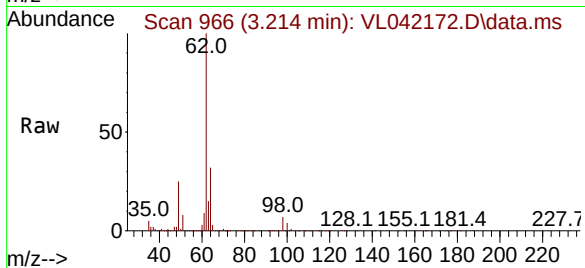




#37
1,2-Dichloroethane
Concen: 9.469 ppbv
RT: 3.214 min Scan# 966
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

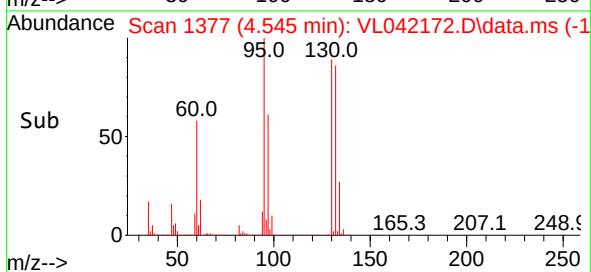
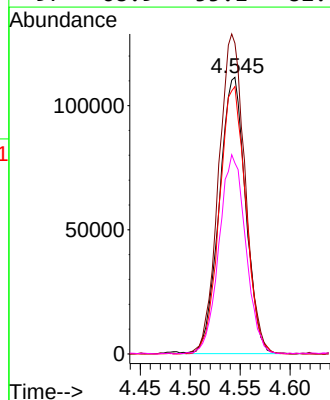
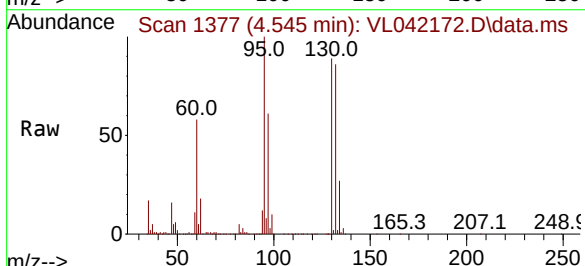
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

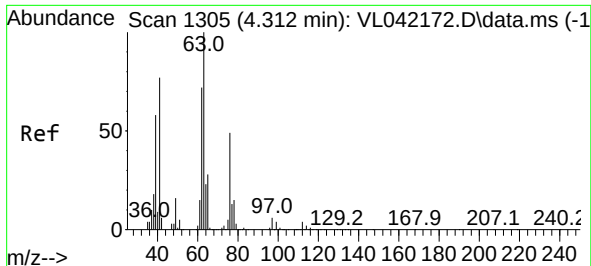
Tgt Ion: 62 Resp: 292937
Ion Ratio Lower Upper
62 100
98 6.8 5.4 8.2



#38
Trichloroethene
Concen: 9.045 ppbv
RT: 4.545 min Scan# 1377
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 130 Resp: 204027
Ion Ratio Lower Upper
130 100
95 112.3 89.8 134.8
132 96.8 77.4 116.2
97 68.9 55.1 82.7





#39

1,2-Dichloropropane

Concen: 9.321 ppbv

RT: 4.312 min Scan# 1305

Delta R.T. 0.000 min

Lab File: VL042172.D

Acq: 27 Mar 2025 08:26

Instrument :

MSVOA_1

ClientSampleId :

VSTDICCC010

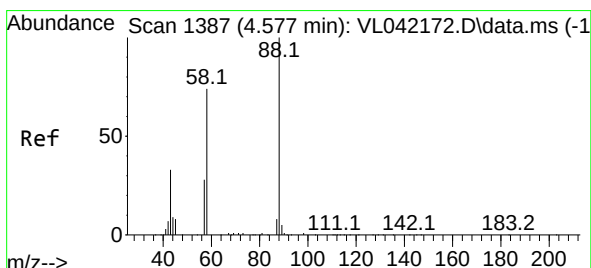
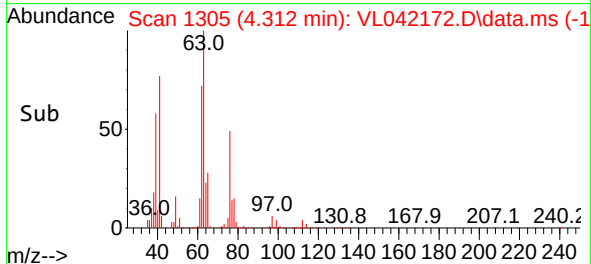
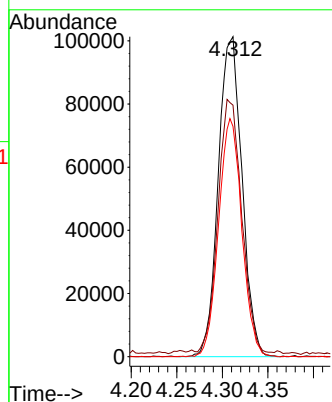
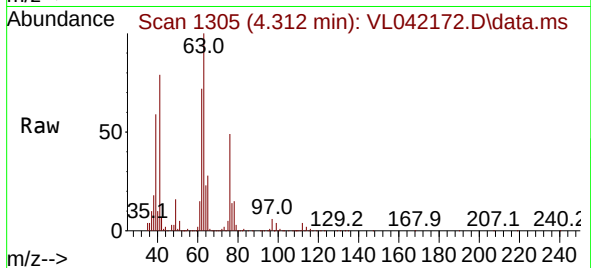
Tgt Ion: 63 Resp: 183439

Ion Ratio Lower Upper

63 100

41 77.1 61.7 92.5

62 72.0 57.6 86.4



#40

1,4-Dioxane

Concen: 9.042 ppbv

RT: 4.577 min Scan# 1387

Delta R.T. 0.000 min

Lab File: VL042172.D

Acq: 27 Mar 2025 08:26

Tgt Ion: 88 Resp: 92327

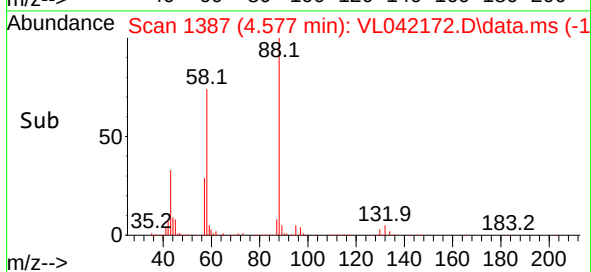
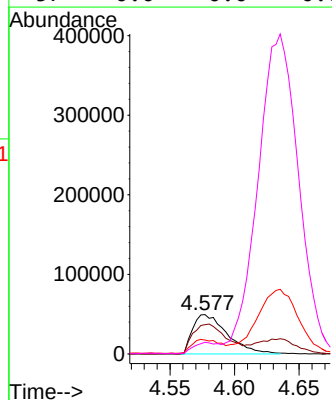
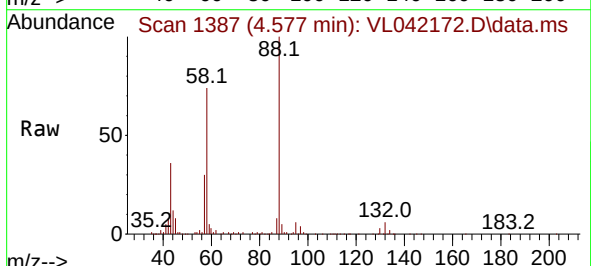
Ion Ratio Lower Upper

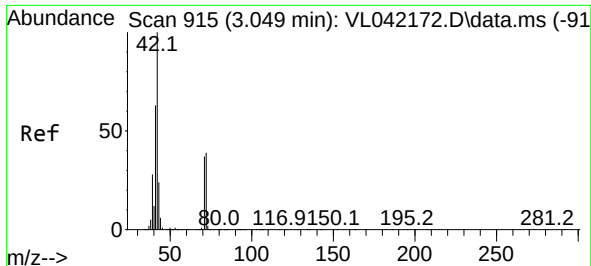
88 100

58 78.4 62.7 94.1

43 28.7 23.0 34.4

57 0.0 0.0 0.0





#41

Tetrahydrofuran

Concen: 9.643 ppbv

RT: 3.049 min Scan# 915

Delta R.T. 0.000 min

Lab File: VL042172.D

Acq: 27 Mar 2025 08:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

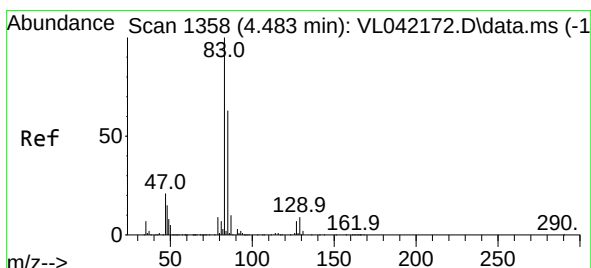
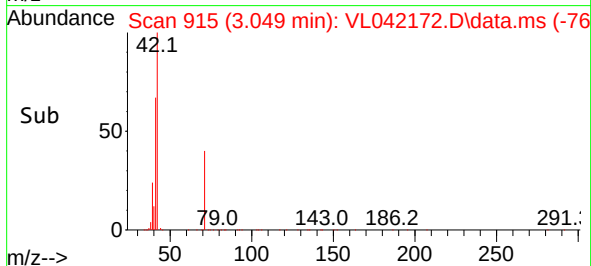
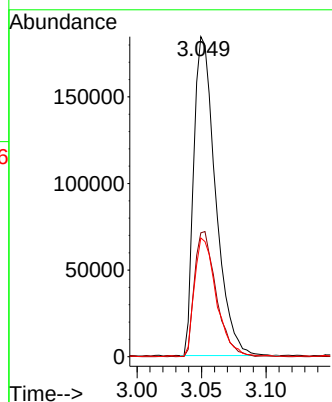
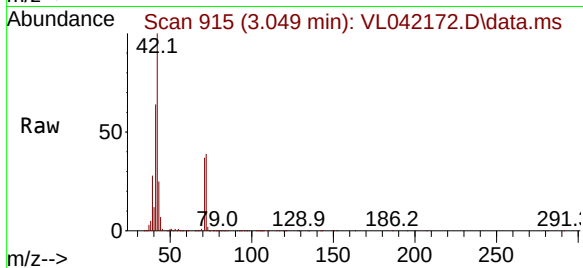
Tgt Ion: 42 Resp: 216851

Ion Ratio Lower Upper

42 100

72 39.2 31.4 47.0

71 37.8 30.2 45.4



#42

Bromodichloromethane

Concen: 9.822 ppbv

RT: 4.483 min Scan# 1358

Delta R.T. 0.000 min

Lab File: VL042172.D

Acq: 27 Mar 2025 08:26

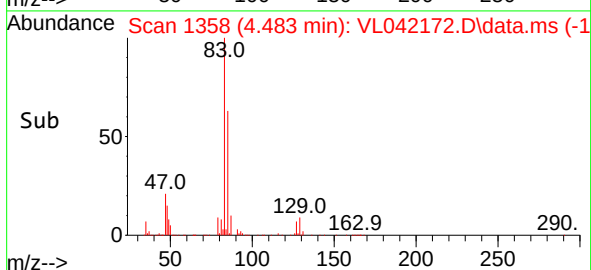
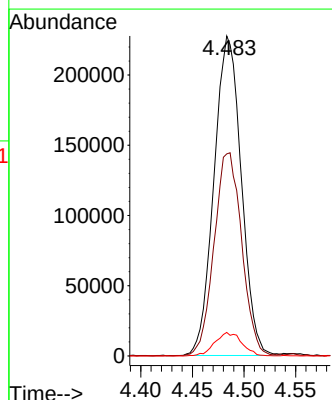
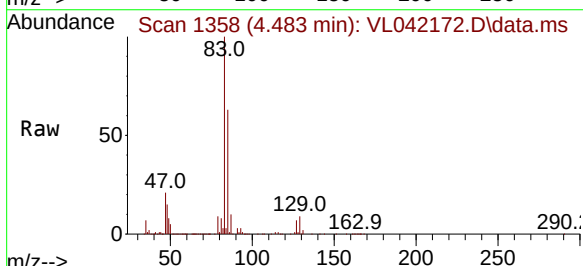
Tgt Ion: 83 Resp: 418887

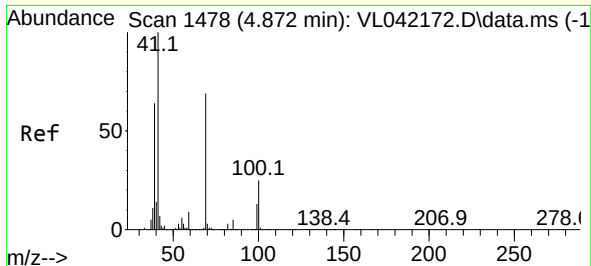
Ion Ratio Lower Upper

83 100

85 63.1 50.5 75.7

127 7.4 5.9 8.9

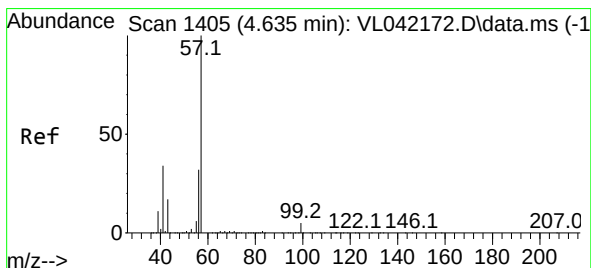
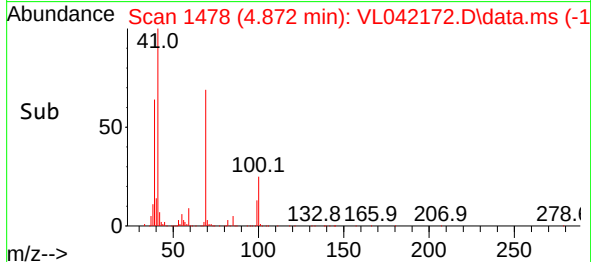
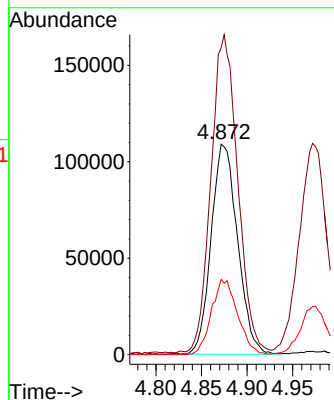
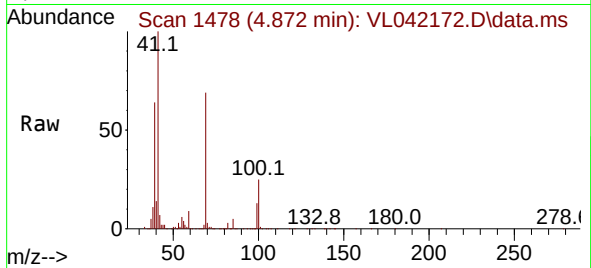




#43
Methyl Methacrylate
Concen: 9.618 ppbv
RT: 4.872 min Scan# 1478
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

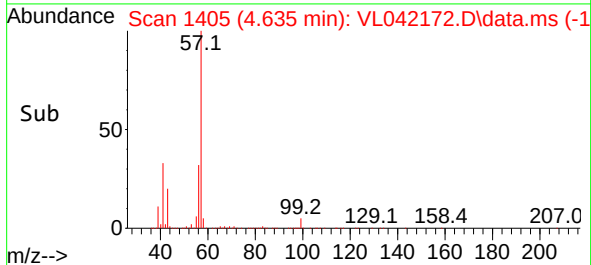
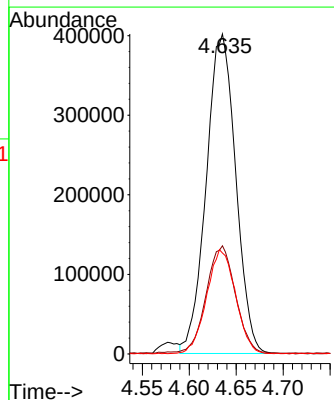
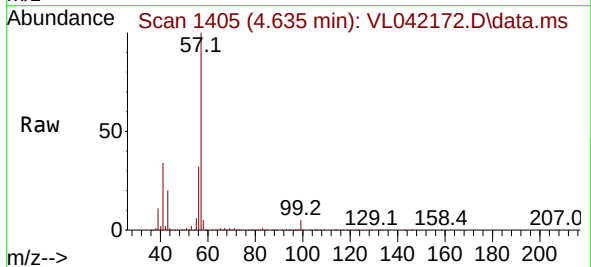
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

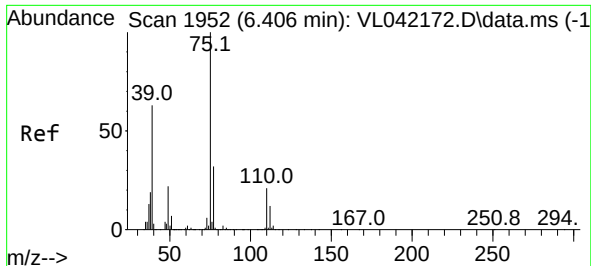
Tgt Ion: 69 Resp: 219399
Ion Ratio Lower Upper
69 100
41 154.7 123.8 185.6
100 35.5 28.4 42.6



#44
2,2,4-Trimethylpentane
Concen: 9.600 ppbv
RT: 4.635 min Scan# 1405
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 57 Resp: 876649
Ion Ratio Lower Upper
57 100
41 33.5 26.8 40.2
56 32.0 25.6 38.4

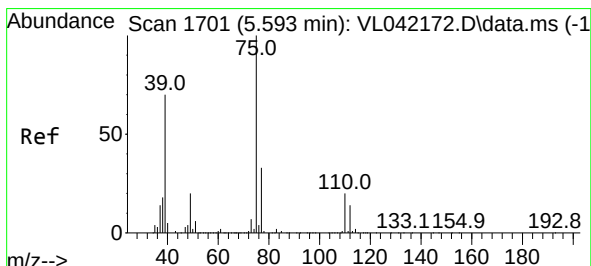
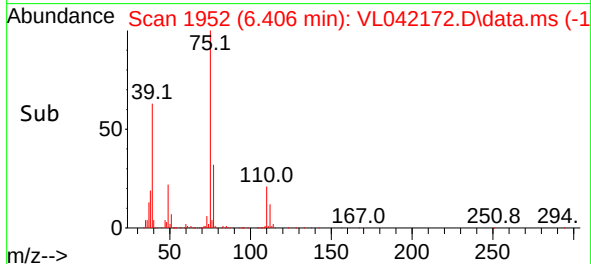
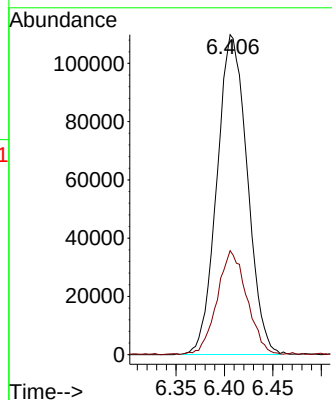
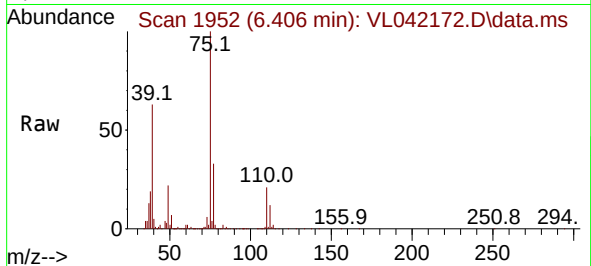




#45
t-1,3-Dichloropropene
Concen: 9.746 ppbv
RT: 6.406 min Scan# 1952
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

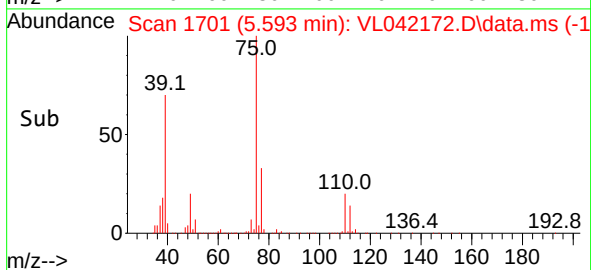
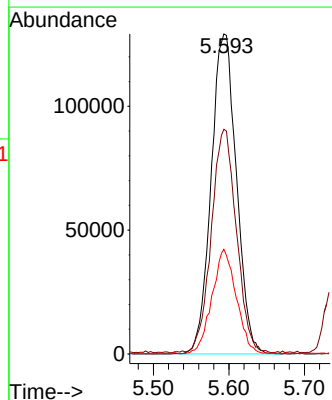
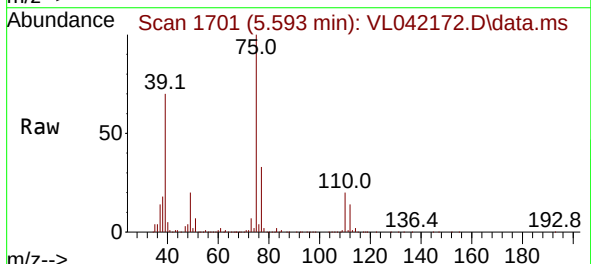
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

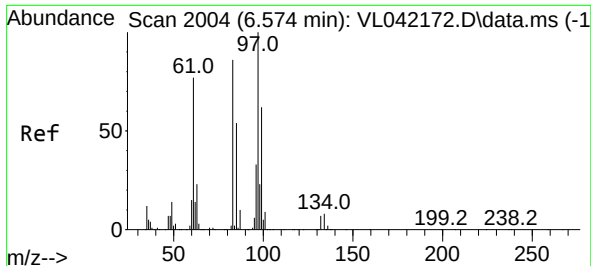
Tgt Ion: 75 Resp: 239180
Ion Ratio Lower Upper
75 100
77 32.5 26.0 39.0



#46
cis-1,3-Dichloropropene
Concen: 9.973 ppbv
RT: 5.593 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 75 Resp: 300021
Ion Ratio Lower Upper
75 100
39 69.7 55.8 83.6
77 32.5 26.0 39.0

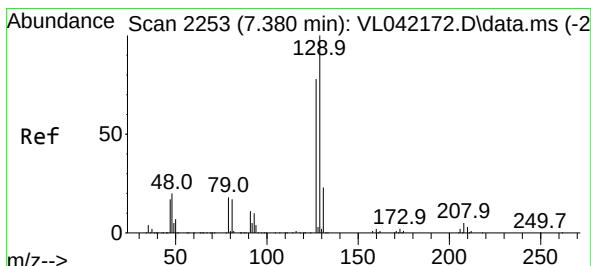
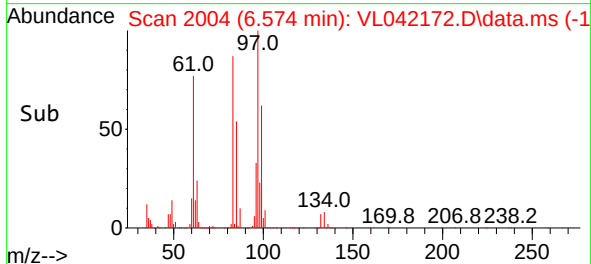
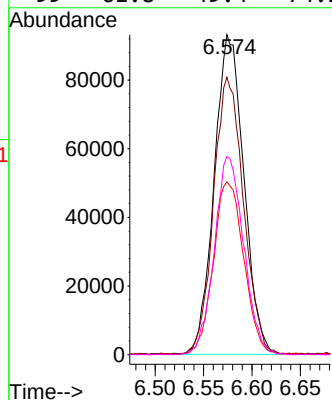
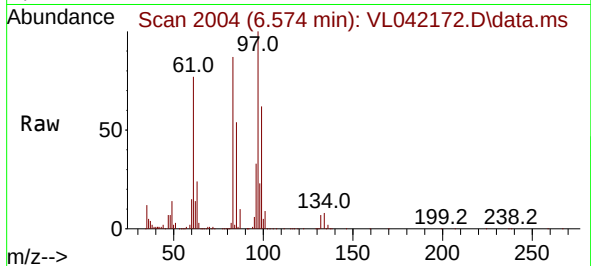




#47
1,1,2-Trichloroethane
Concen: 9.526 ppbv
RT: 6.574 min Scan# 2004
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

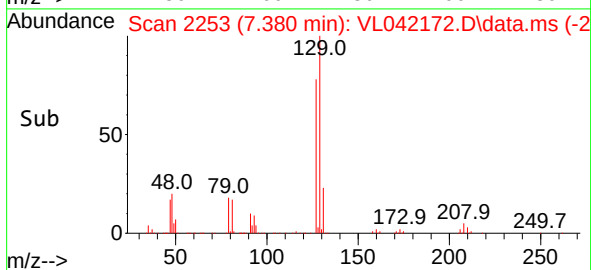
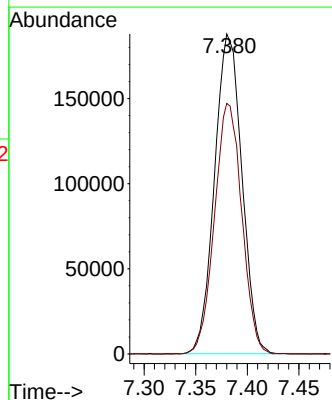
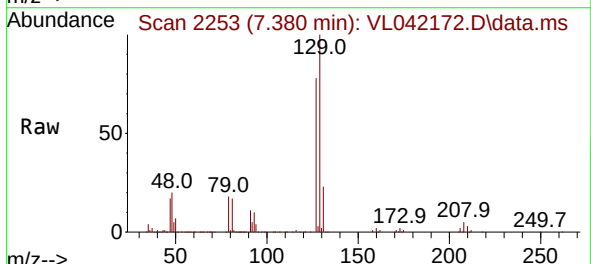
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

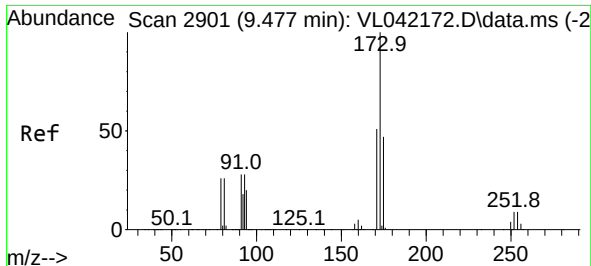
Tgt Ion:	97	Resp:	198176
Ion	Ratio	Lower	Upper
97	100		
83	86.5	69.2	103.8
85	53.9	43.1	64.7
99	61.8	49.4	74.2



#48
Dibromochloromethane
Concen: 9.828 ppbv
RT: 7.380 min Scan# 2253
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion:	129	Resp:	346499
Ion	Ratio	Lower	Upper
129	100		
127	78.1	39.1	117.2

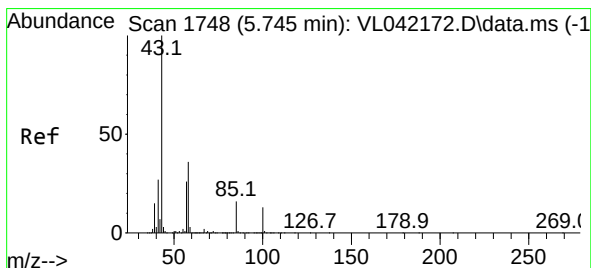
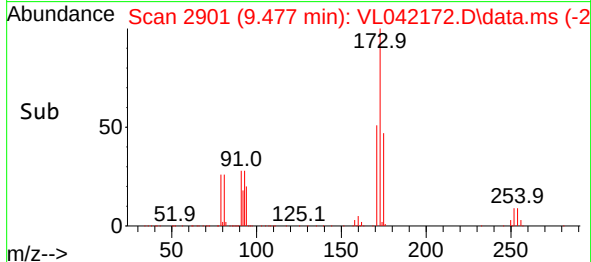
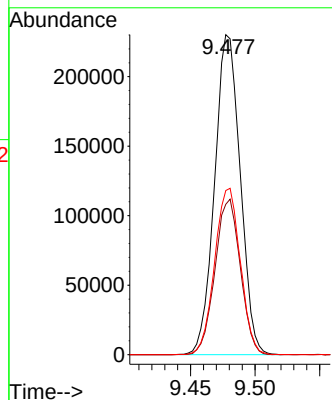
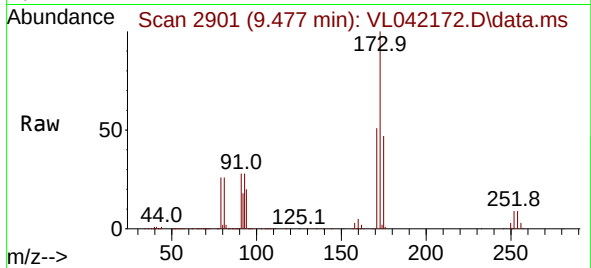




#49
Bromoform
Concen: 10.021 ppbv
RT: 9.477 min Scan# 2901
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

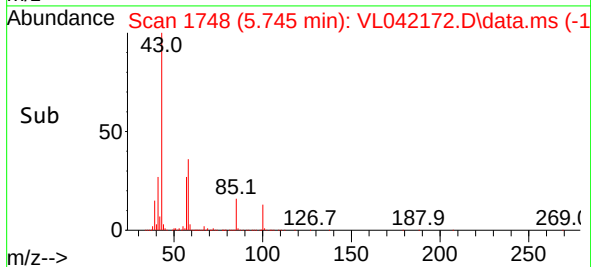
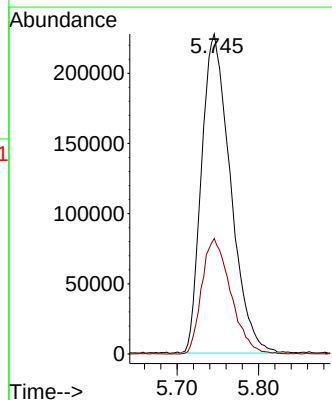
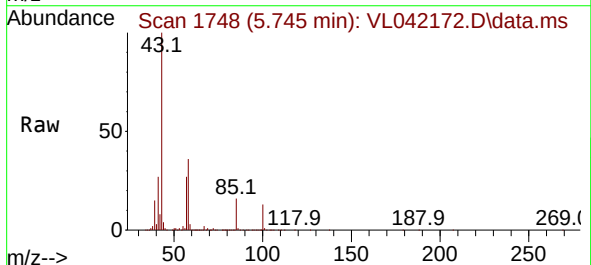
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

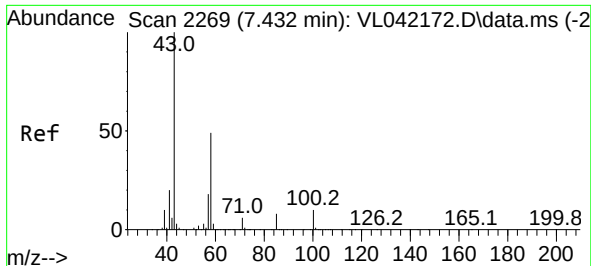
Tgt Ion:173 Resp: 317189
Ion Ratio Lower Upper
173 100
175 48.2 38.6 57.8
171 52.2 41.8 62.6



#50
4-Methyl-2-Pentanone
Concen: 8.934 ppbv
RT: 5.745 min Scan# 1748
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 43 Resp: 559800
Ion Ratio Lower Upper
43 100
58 36.3 29.0 43.6

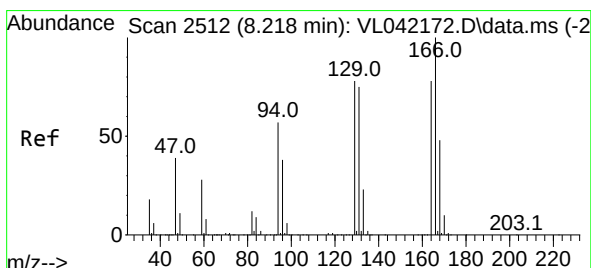
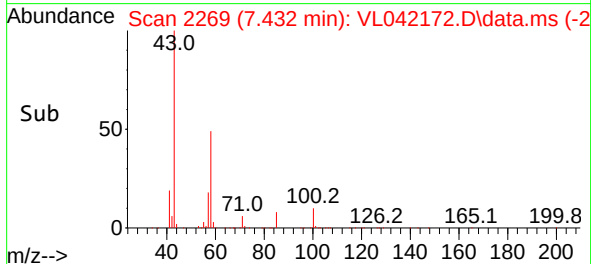
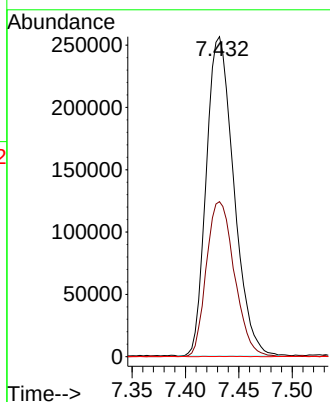
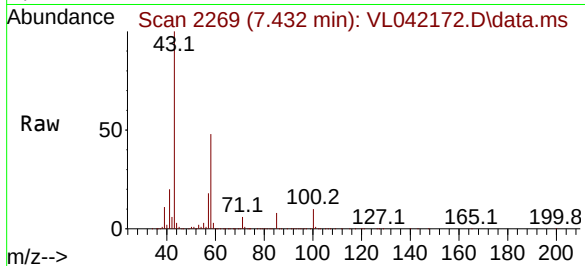




#51
2-Hexanone
Concen: 8.848 ppbv
RT: 7.432 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

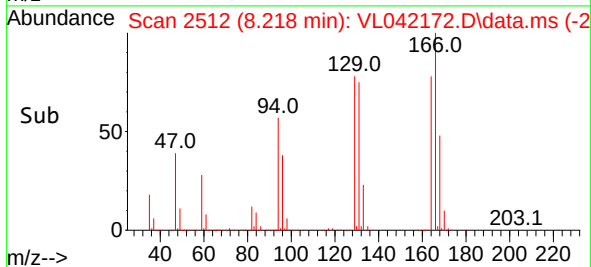
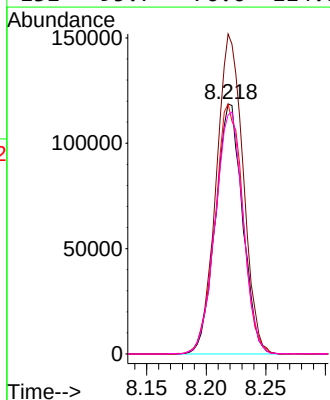
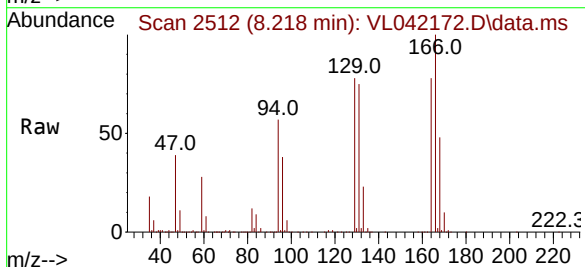
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

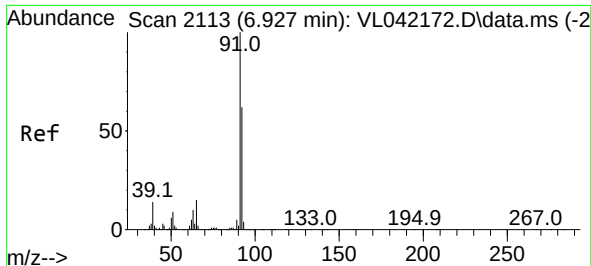
Tgt Ion: 43 Resp: 460013
Ion Ratio Lower Upper
43 100
58 49.6 39.7 59.5
98 0.1 0.1 0.1#



#52
Tetrachloroethene
Concen: 8.722 ppbv
RT: 8.218 min Scan# 2512
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 164 Resp: 186912
Ion Ratio Lower Upper
164 100
166 128.1 102.5 153.7
129 99.8 79.8 119.8
131 95.7 76.6 114.8

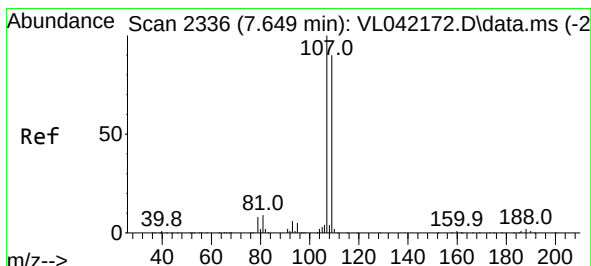
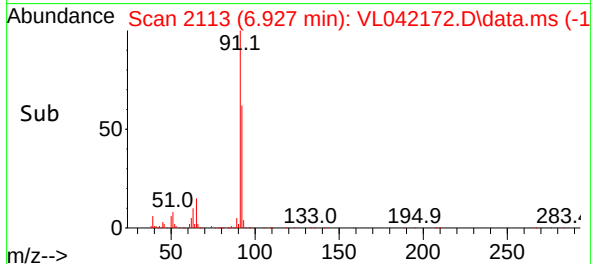
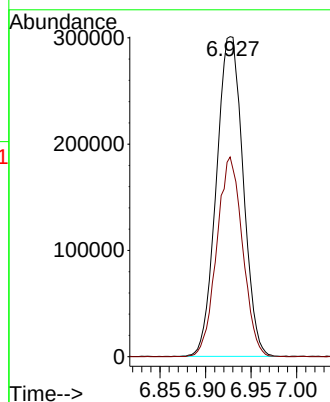
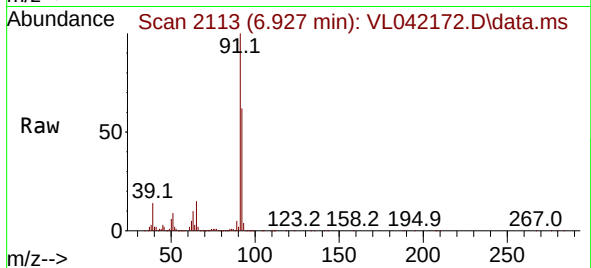




#53
Toluene
Concen: 9.576 ppbv
RT: 6.927 min Scan# 2113
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

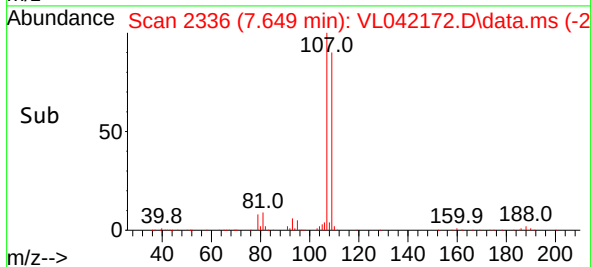
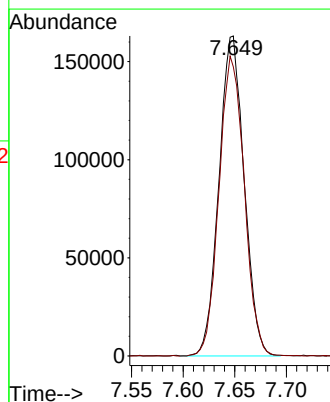
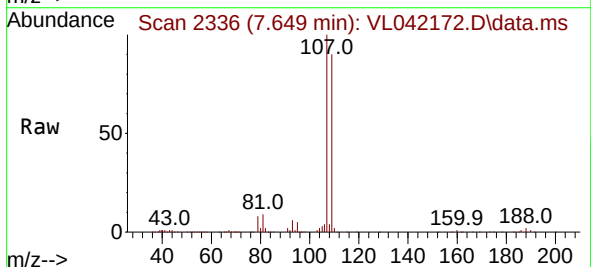
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

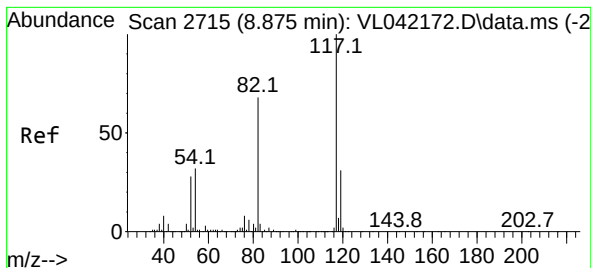
Tgt Ion: 91 Resp: 613378
Ion Ratio Lower Upper
91 100
92 60.5 48.4 72.6



#54
1,2-Dibromoethane
Concen: 9.536 ppbv
RT: 7.649 min Scan# 2336
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 107 Resp: 276797
Ion Ratio Lower Upper
107 100
109 90.3 72.2 108.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.875 min Scan# 2715

Delta R.T. 0.000 min

Lab File: VL042172.D

Acq: 27 Mar 2025 08:26

Instrument :

MSVOA_1

ClientSampleId :

VSTDICCC010

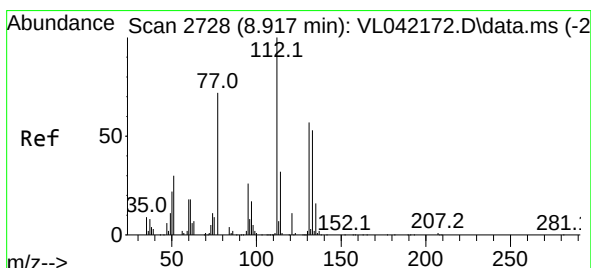
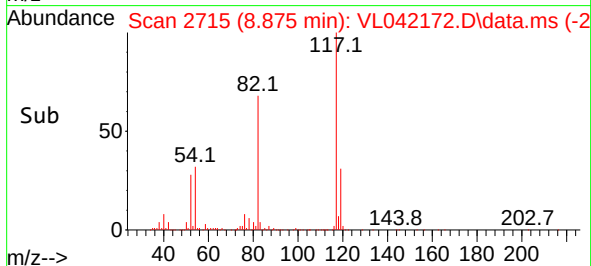
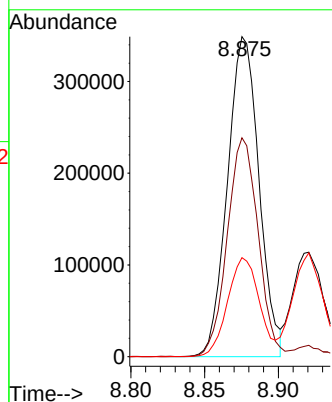
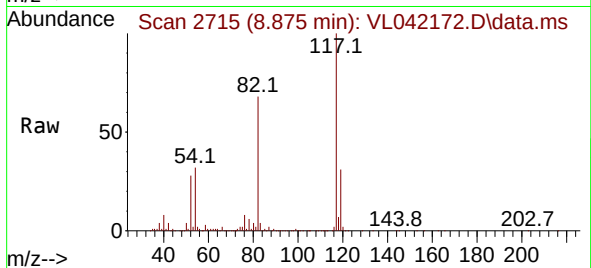
Tgt Ion:117 Resp: 519536

Ion Ratio Lower Upper

117 100

82 69.7 55.8 83.6

119 31.9 25.5 38.3



#56

1,1,1,2-Tetrachloroethane

Concen: 9.268 ppbv

RT: 8.917 min Scan# 2728

Delta R.T. 0.000 min

Lab File: VL042172.D

Acq: 27 Mar 2025 08:26

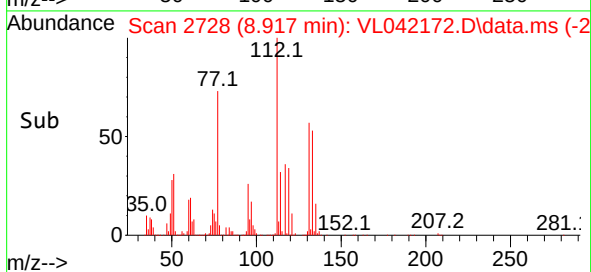
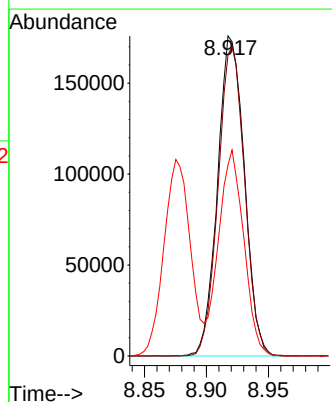
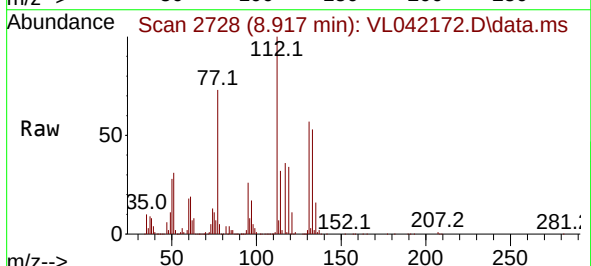
Tgt Ion:131 Resp: 265037

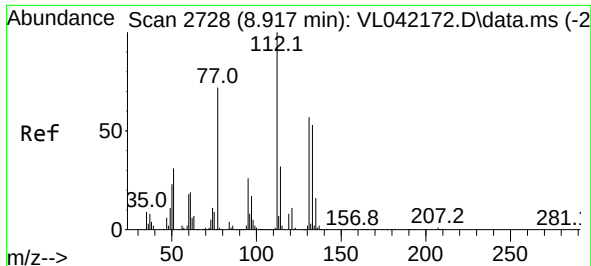
Ion Ratio Lower Upper

131 100

133 95.7 76.6 114.8

119 62.2 49.8 74.6

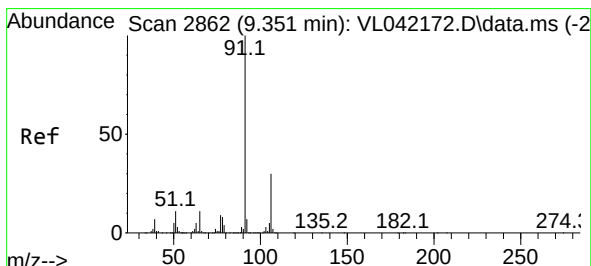
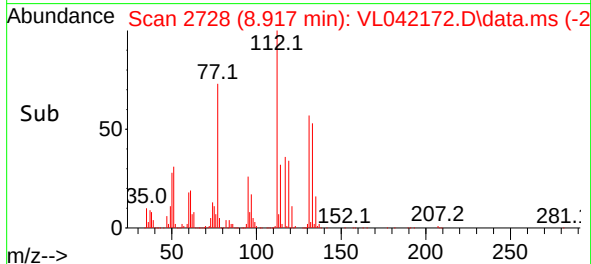
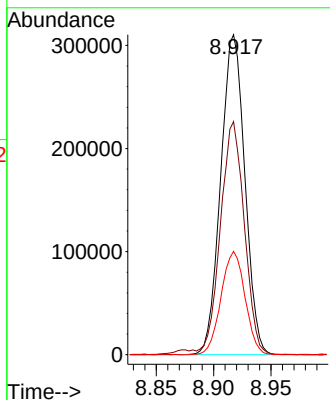
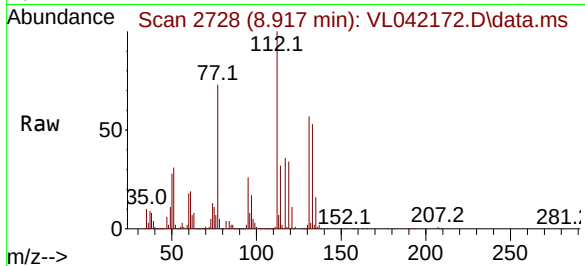




#57
Chlorobenzene
Concen: 9.223 ppbv
RT: 8.917 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

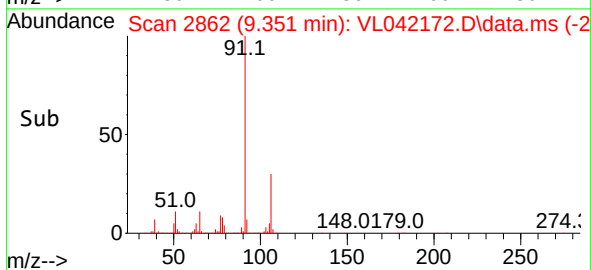
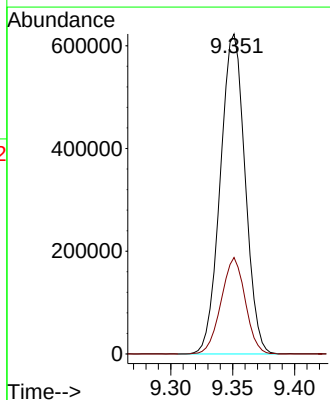
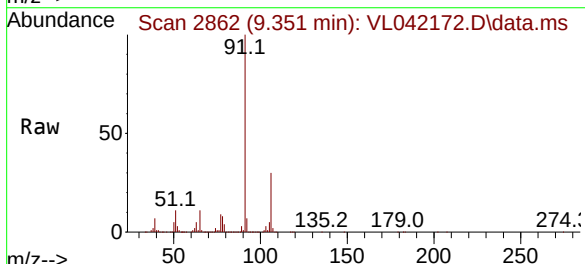
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

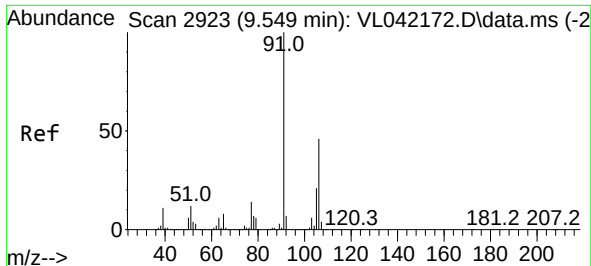
Tgt Ion:112 Resp: 454511
Ion Ratio Lower Upper
112 100
77 72.7 58.2 87.2
114 32.3 29.1 35.5



#58
Ethyl Benzene
Concen: 9.406 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 91 Resp: 868003
Ion Ratio Lower Upper
91 100
106 30.2 24.2 36.2

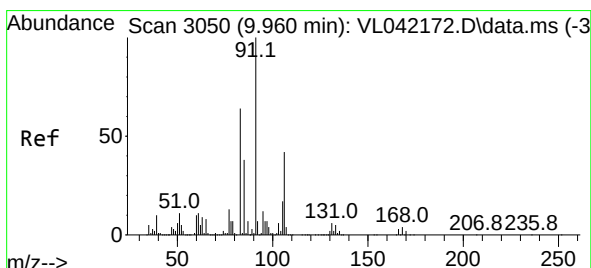
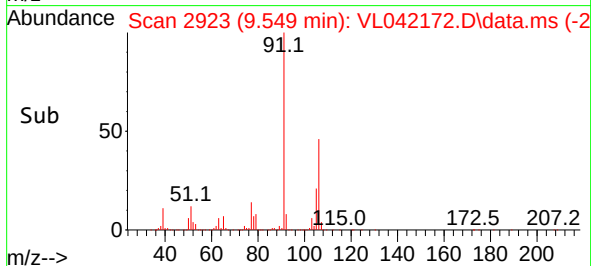
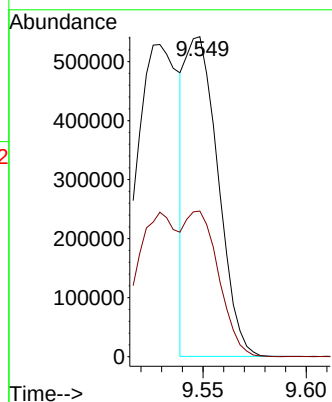
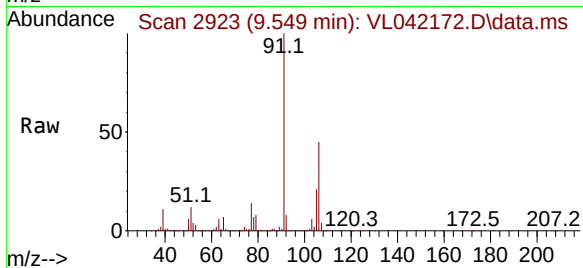




#59
m/p-Xylene
Concen: 8.071 ppbv
RT: 9.549 min Scan# 2923
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

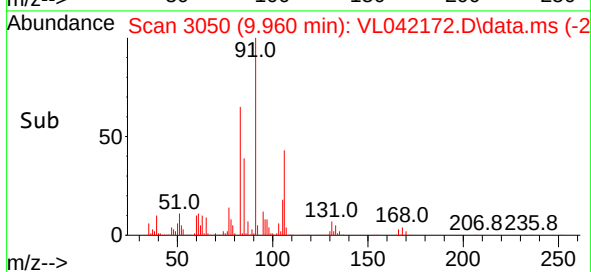
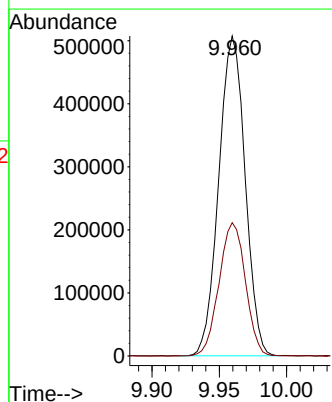
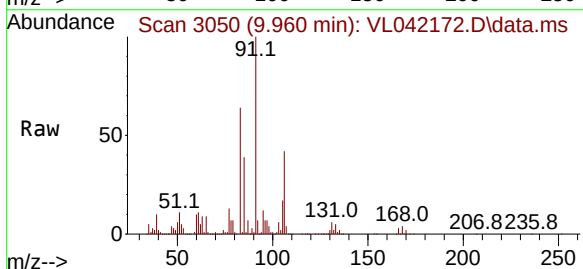
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

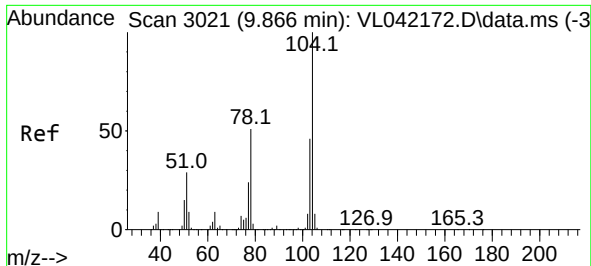
Tgt Ion: 91 Resp: 595445
Ion Ratio Lower Upper
91 100
106 105.0 36.4 54.6#



#60
o-Xylene
Concen: 9.340 ppbv
RT: 9.960 min Scan# 3050
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 91 Resp: 689933
Ion Ratio Lower Upper
91 100
106 41.7 20.8 62.5

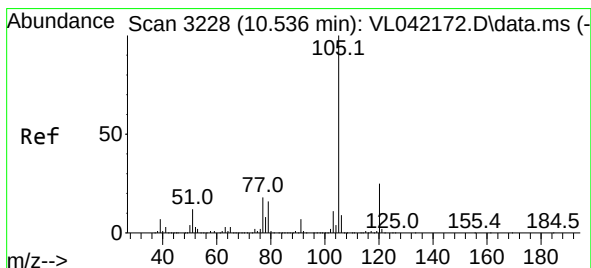
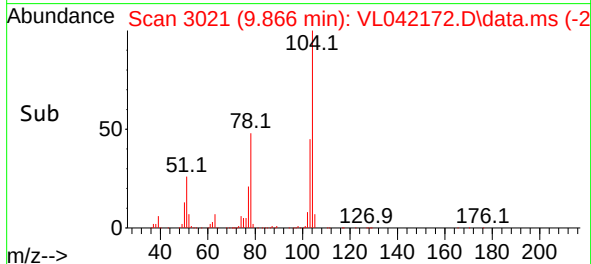
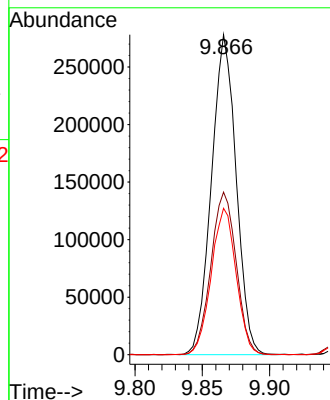
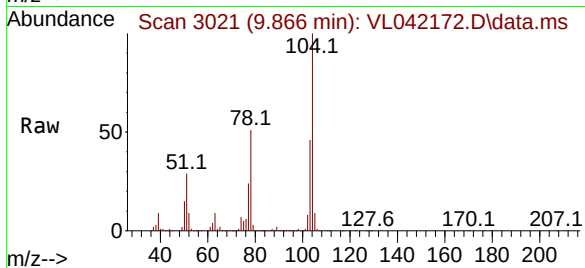




#61
Styrene
Concen: 9.706 ppbv
RT: 9.866 min Scan# 3021
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

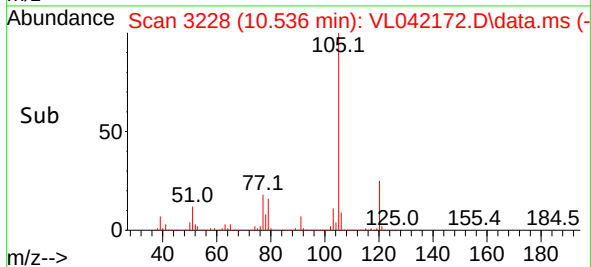
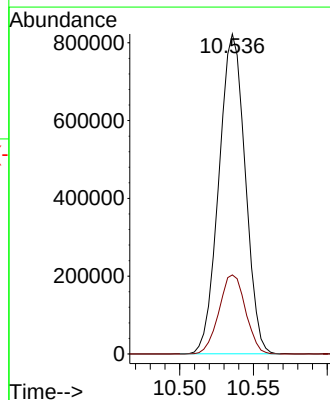
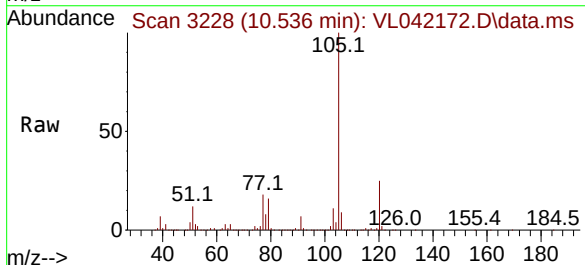
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

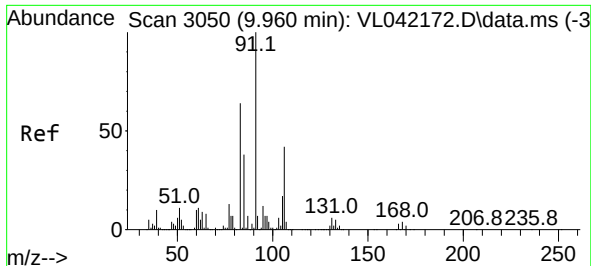
Tgt Ion:104 Resp: 354697
Ion Ratio Lower Upper
104 100
78 52.2 41.8 62.6
103 46.2 37.0 55.4



#62
Isopropylbenzene
Concen: 9.227 ppbv
RT: 10.536 min Scan# 3228
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion:105 Resp: 1019255
Ion Ratio Lower Upper
105 100
120 24.9 19.9 29.9

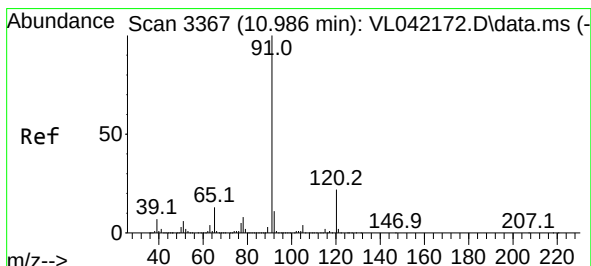
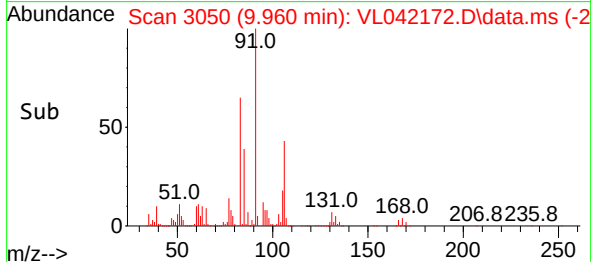
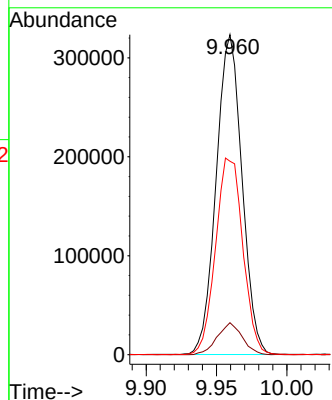
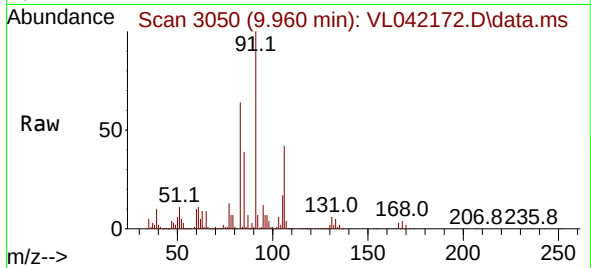




#63
1,1,2,2-Tetrachloroethane
Concen: 9.210 ppbv
RT: 9.960 min Scan# 3050
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

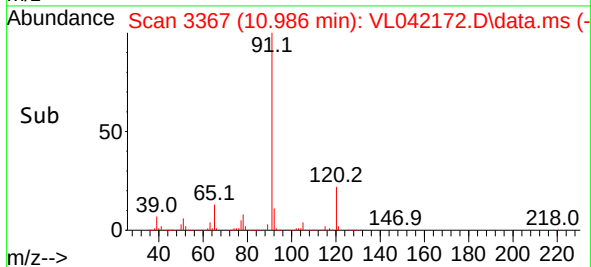
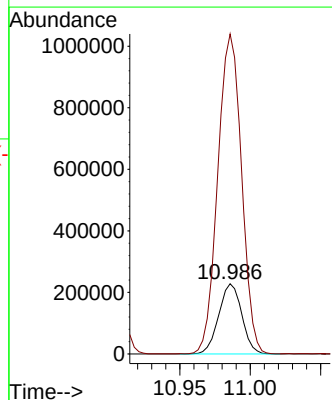
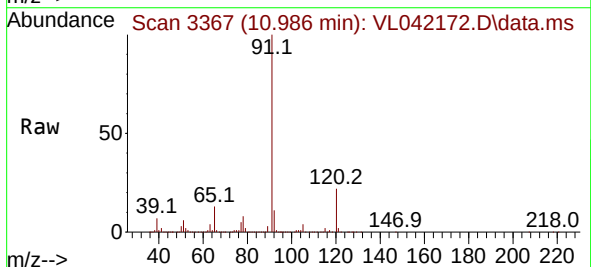
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

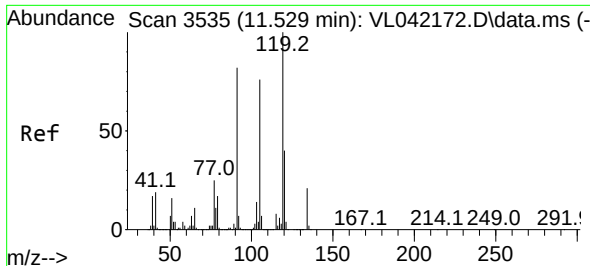
Tgt Ion: 83 Resp: 413392
Ion Ratio Lower Upper
83 100
131 9.6 4.8 14.4
85 65.0 32.5 97.5



#64
n-propylbenzene
Concen: 9.122 ppbv
RT: 10.986 min Scan# 3367
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 120 Resp: 259405
Ion Ratio Lower Upper
120 100
91 471.1 376.9 565.3

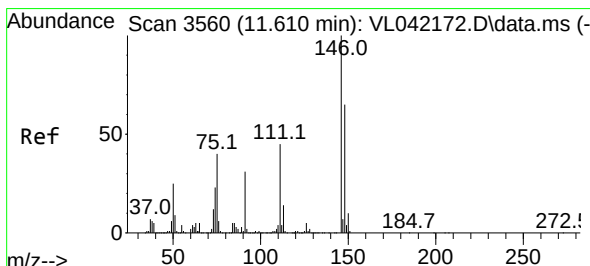
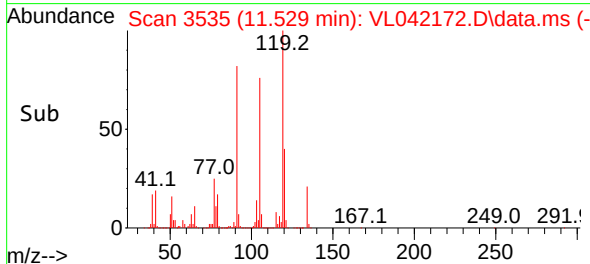
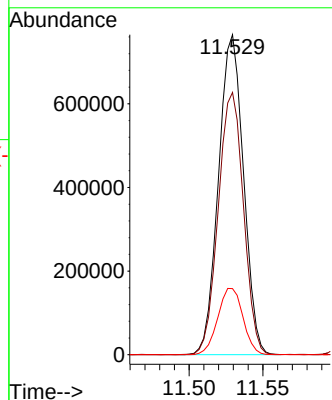
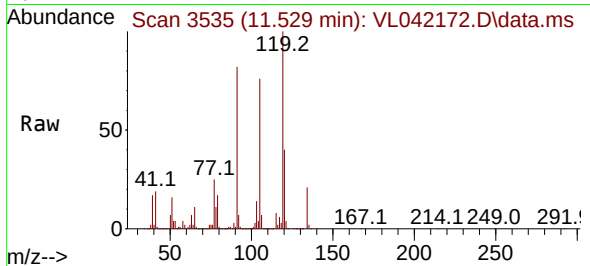




#65
tert-Butylbenzene
Concen: 8.828 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

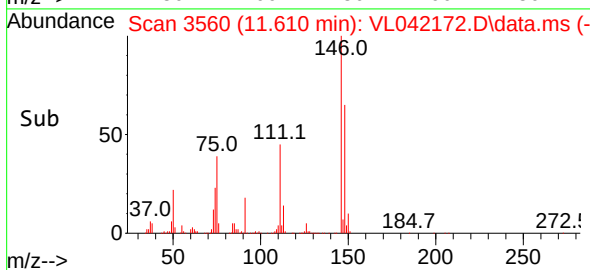
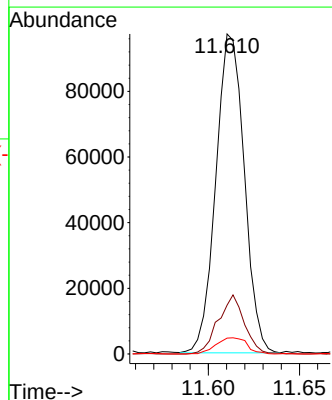
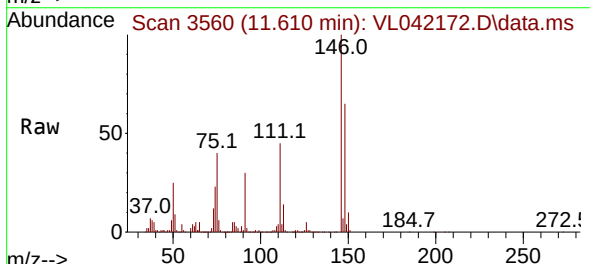
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

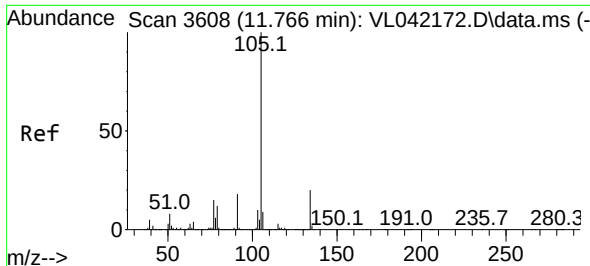
Tgt Ion:119 Resp: 901951
Ion Ratio Lower Upper
119 100
91 82.5 66.0 99.0
134 20.9 16.7 25.1



#66
Benzyl Chloride
Concen: 9.724 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 91 Resp: 105411
Ion Ratio Lower Upper
91 100
126 17.2 13.8 20.6
128 5.6 4.5 6.7

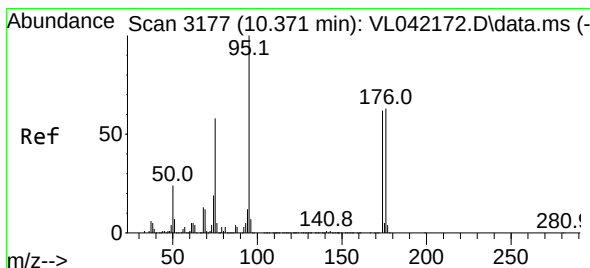
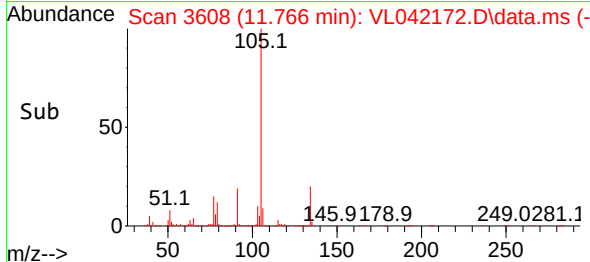
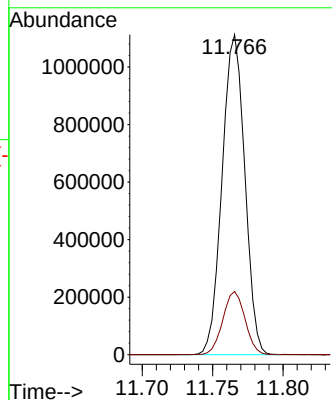
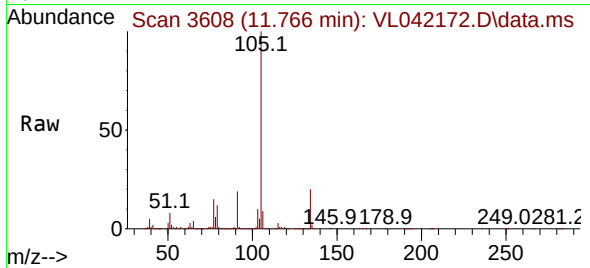




#67
 sec-Butylbenzene
 Concen: 8.796 ppbv
 RT: 11.766 min Scan# 3608
 Delta R.T. 0.000 min
 Lab File: VL042172.D
 Acq: 27 Mar 2025 08:26

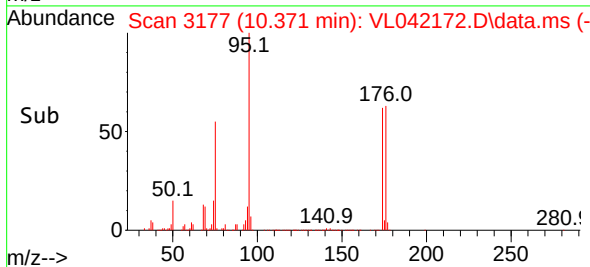
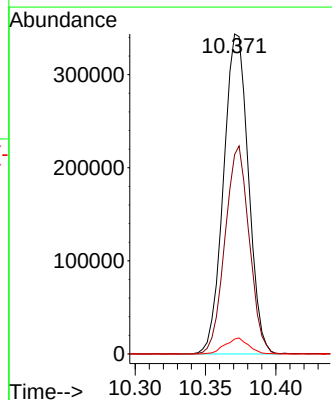
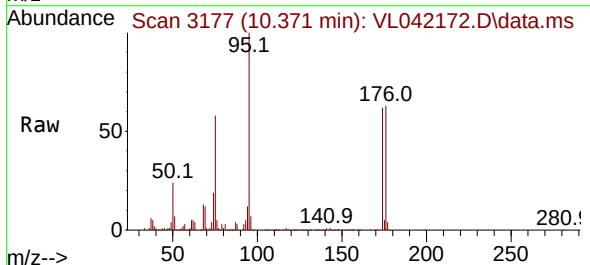
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

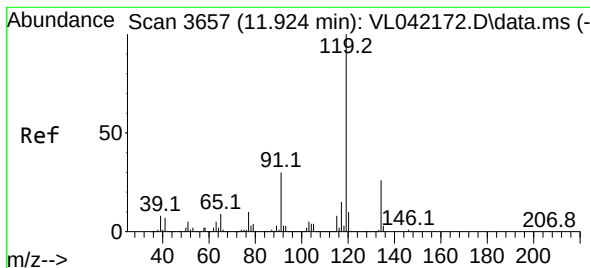
Tgt Ion:105 Resp: 1249106
 Ion Ratio Lower Upper
 105 100
 134 19.4 15.5 23.3



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.901 ppbv
 RT: 10.371 min Scan# 3177
 Delta R.T. 0.000 min
 Lab File: VL042172.D
 Acq: 27 Mar 2025 08:26

Tgt Ion: 95 Resp: 422410
 Ion Ratio Lower Upper
 95 100
 174 63.3 50.6 76.0
 175 4.7 3.8 5.6

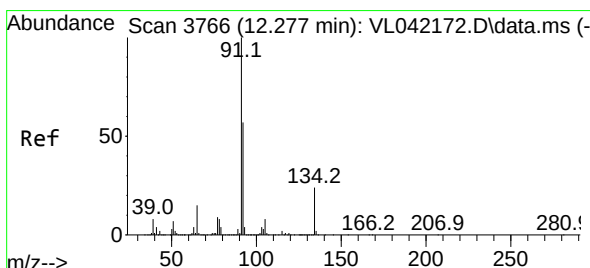
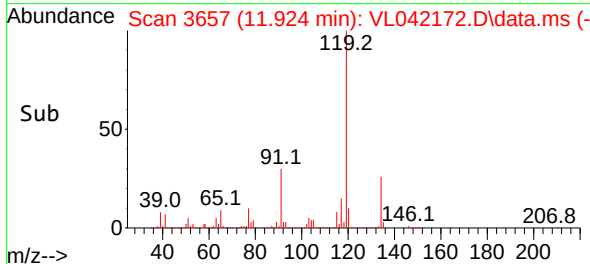
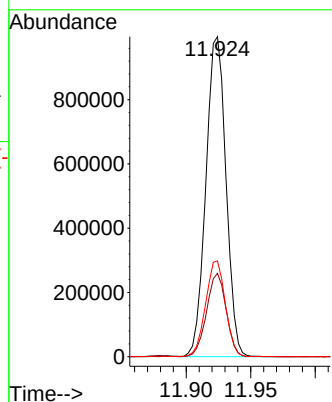
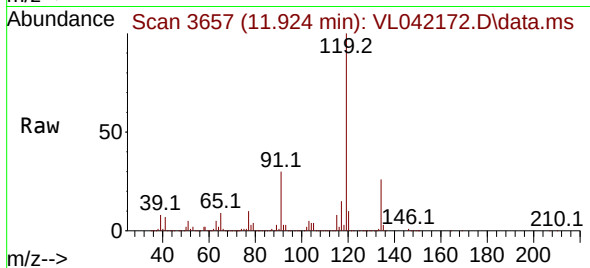




#69
 p-Isopropyltoluene
 Concen: 8.830 ppbv
 RT: 11.924 min Scan# 3657
 Delta R.T. 0.000 min
 Lab File: VL042172.D
 Acq: 27 Mar 2025 08:26

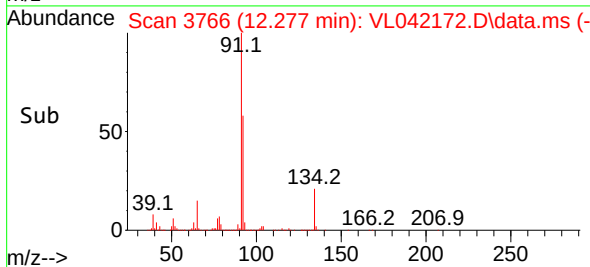
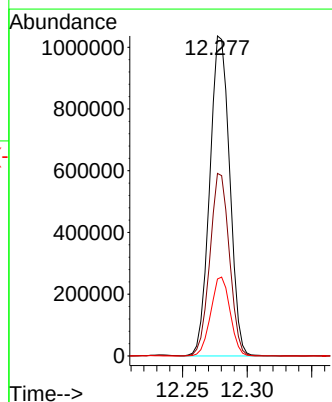
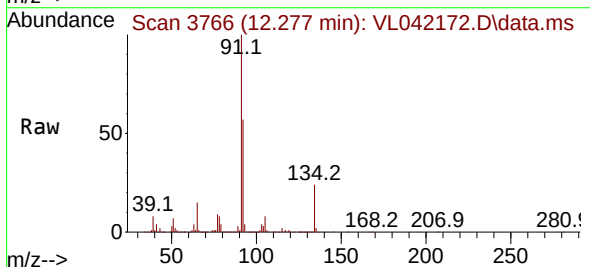
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

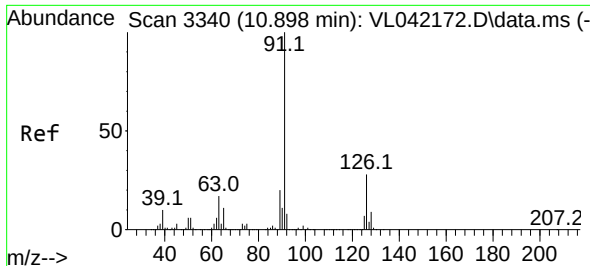
Tgt Ion:119 Resp: 1079675
 Ion Ratio Lower Upper
 119 100
 134 25.5 20.4 30.6
 91 29.6 23.7 35.5



#70
 n-Butylbenzene
 Concen: 8.879 ppbv
 RT: 12.277 min Scan# 3766
 Delta R.T. 0.000 min
 Lab File: VL042172.D
 Acq: 27 Mar 2025 08:26

Tgt Ion: 91 Resp: 1110351
 Ion Ratio Lower Upper
 91 100
 92 56.1 44.9 67.3
 134 24.0 19.2 28.8

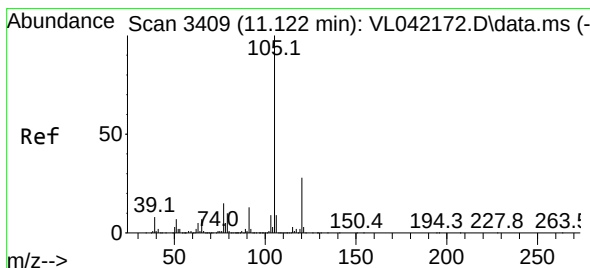
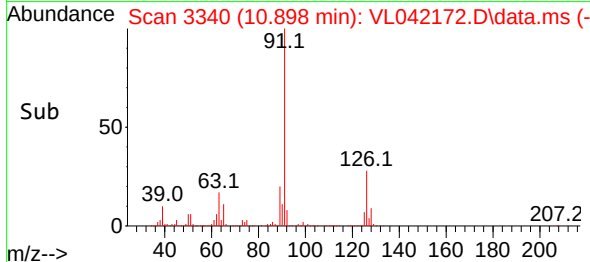
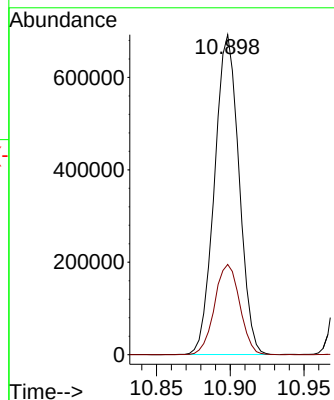
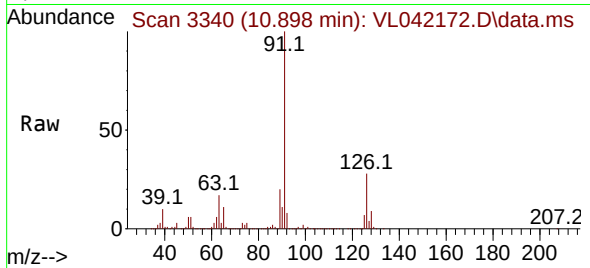




#71
2-Chlorotoluene
Concen: 9.320 ppbv
RT: 10.898 min Scan# 31
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

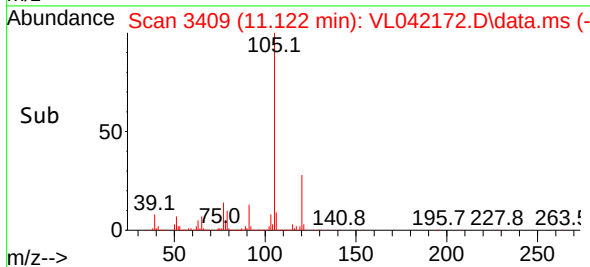
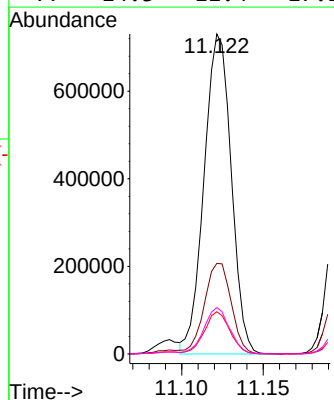
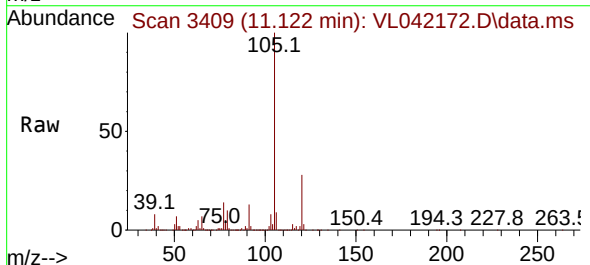
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

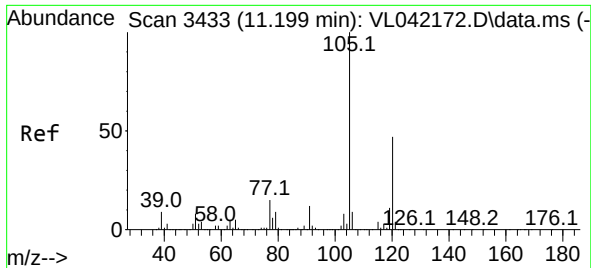
Tgt Ion: 91 Resp: 799102
Ion Ratio Lower Upper
91 100
126 29.0 11.6 46.4



#72
4-Ethyltoluene
Concen: 9.200 ppbv
RT: 11.122 min Scan# 3409
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 105 Resp: 846232
Ion Ratio Lower Upper
105 100
120 29.2 23.4 35.0
91 12.9 10.3 15.5
77 14.3 11.4 17.2

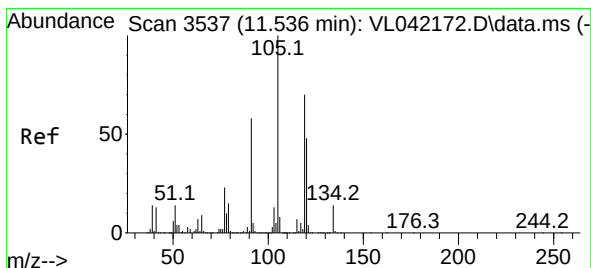
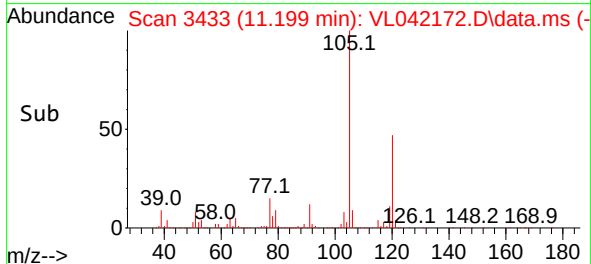
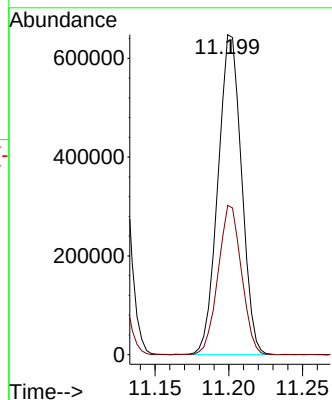
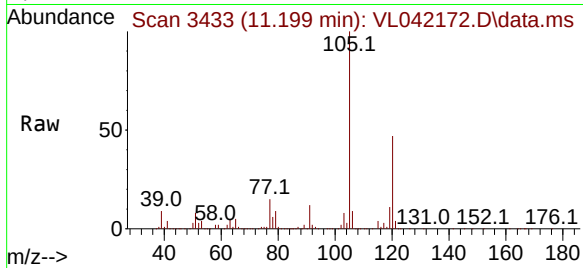




#73
 1,3,5-Trimethylbenzene
 Concen: 8.970 ppbv
 RT: 11.199 min Scan# 3433
 Delta R.T. 0.000 min
 Lab File: VL042172.D
 Acq: 27 Mar 2025 08:26

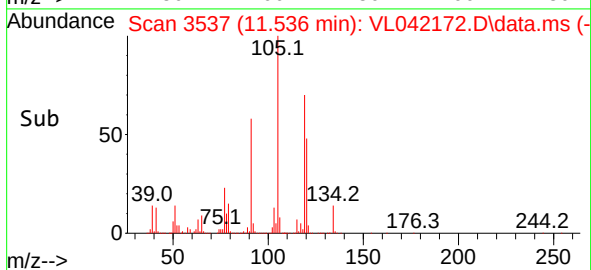
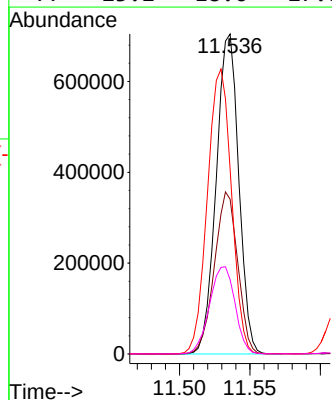
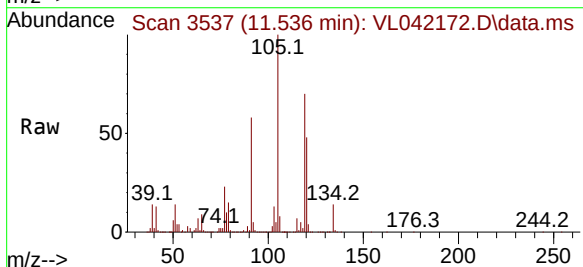
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

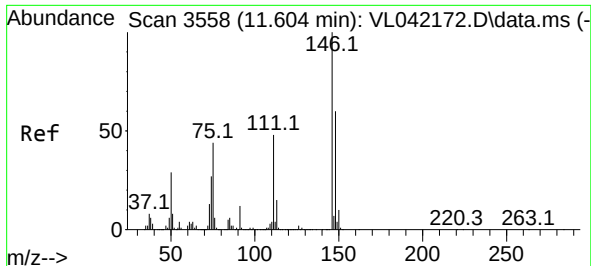
Tgt Ion:105 Resp: 720566
 Ion Ratio Lower Upper
 105 100
 120 46.7 37.4 56.0



#74
 1,2,4-Trimethylbenzene
 Concen: 8.480 ppbv
 RT: 11.536 min Scan# 3537
 Delta R.T. 0.000 min
 Lab File: VL042172.D
 Acq: 27 Mar 2025 08:26

Tgt Ion:105 Resp: 784745
 Ion Ratio Lower Upper
 105 100
 120 48.3 38.6 58.0
 91 57.7 46.2 69.2
 77 23.2 18.6 27.8

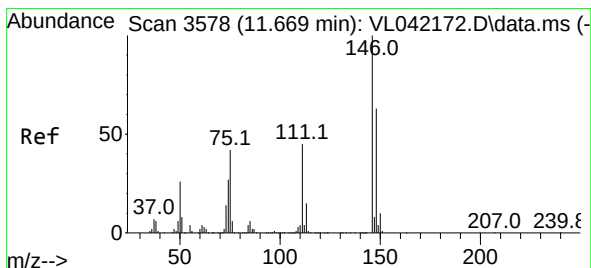
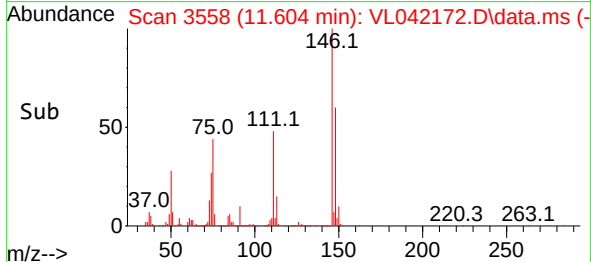
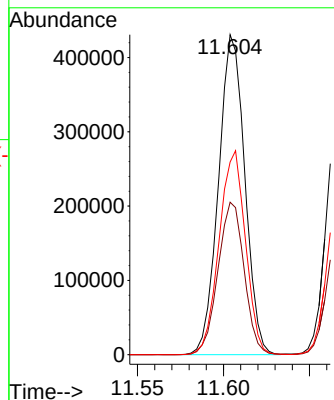
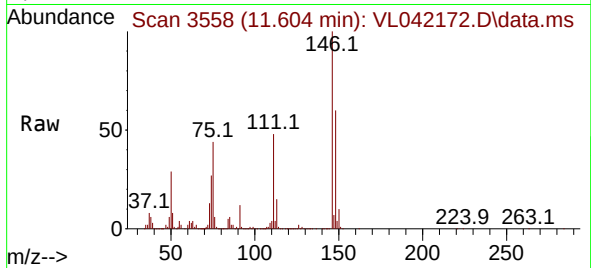




#75
1,3-Dichlorobenzene
Concen: 9.028 ppbv
RT: 11.604 min Scan# 3558
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

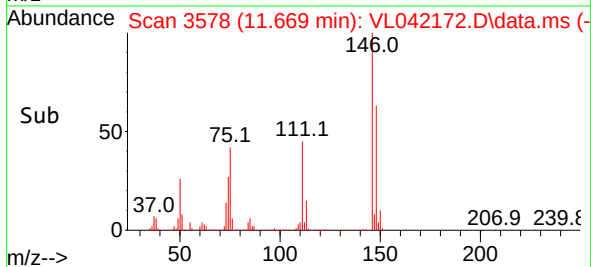
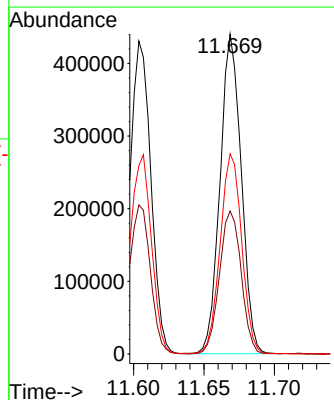
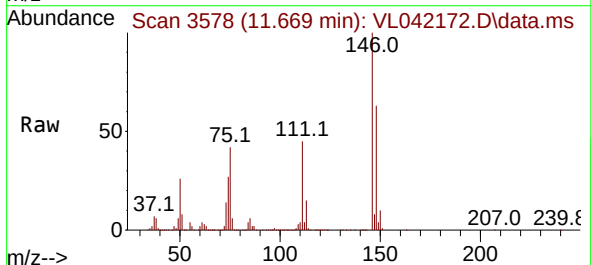
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

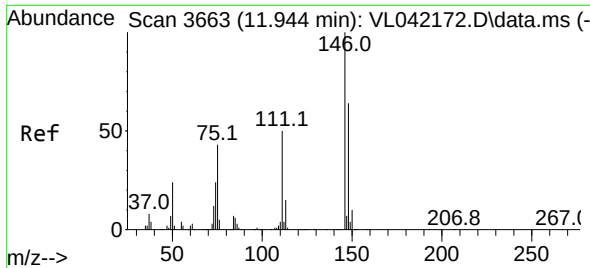
Tgt Ion:146 Resp: 458226
Ion Ratio Lower Upper
146 100
111 47.5 23.8 71.2
148 63.9 31.9 95.9



#76
1,4-Dichlorobenzene
Concen: 9.134 ppbv
RT: 11.669 min Scan# 3578
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion:146 Resp: 461371
Ion Ratio Lower Upper
146 100
111 46.0 23.0 69.0
148 63.8 31.9 95.7

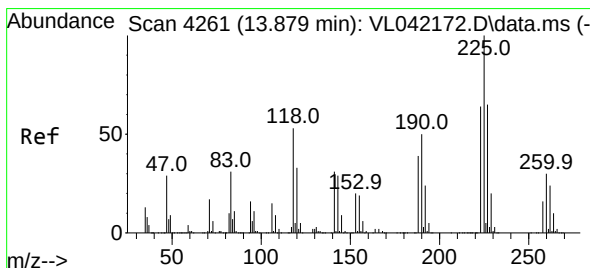
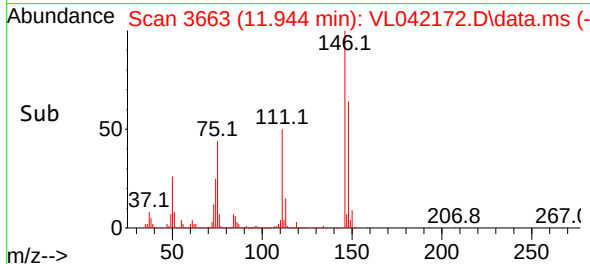
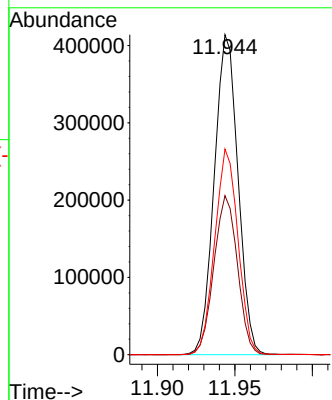
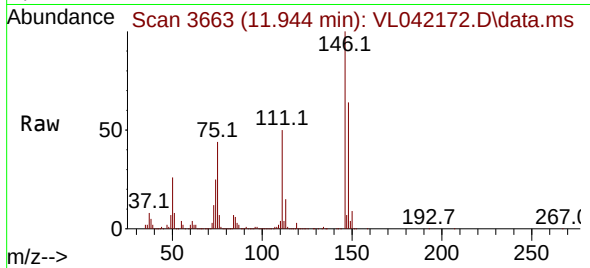




#77
1,2-Dichlorobenzene
Concen: 8.933 ppbv
RT: 11.944 min Scan# 3663
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

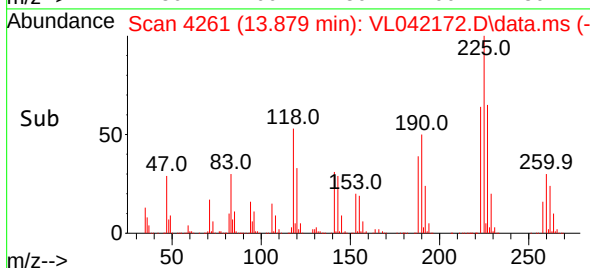
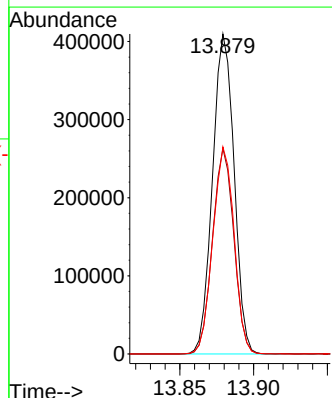
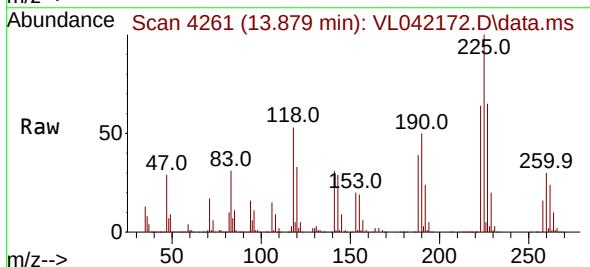
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

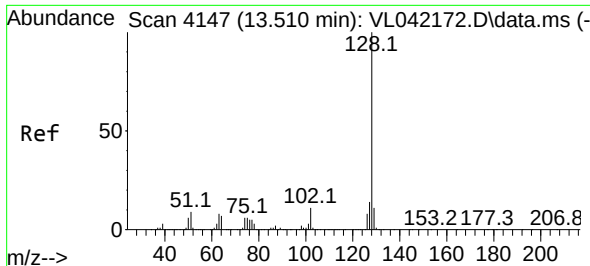
Tgt Ion:146 Resp: 441473
Ion Ratio Lower Upper
146 100
111 49.5 24.8 74.3
148 63.2 31.6 94.8



#78
Hexachloro-1,3-Butadiene
Concen: 8.284 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion:225 Resp: 416735
Ion Ratio Lower Upper
225 100
223 63.3 50.6 76.0
227 64.0 51.2 76.8

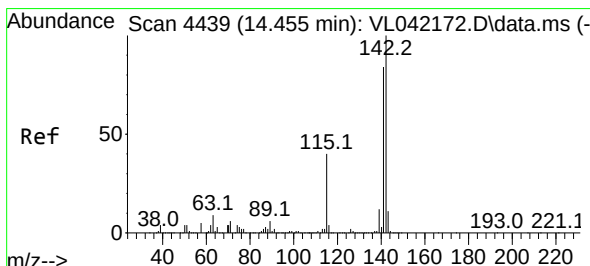
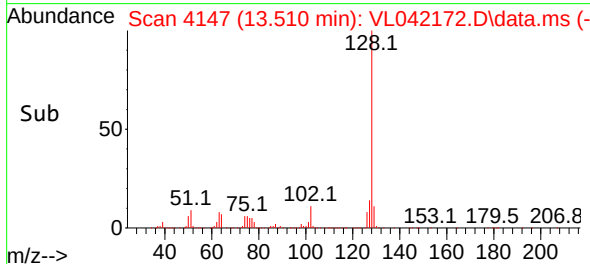
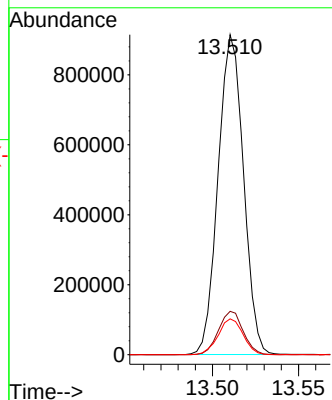
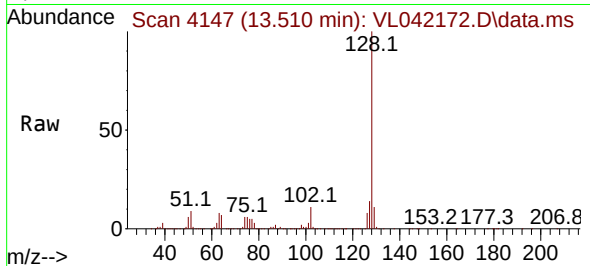




#79
Naphthalene
Concen: 9.271 ppbv
RT: 13.510 min Scan# 4147
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

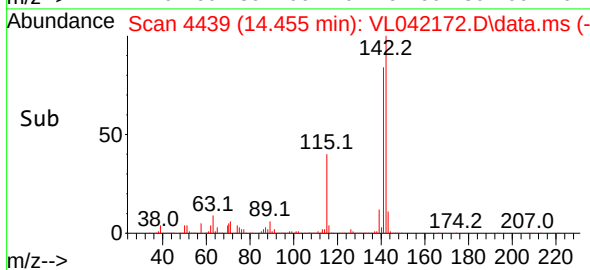
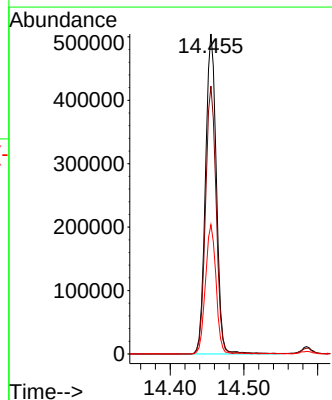
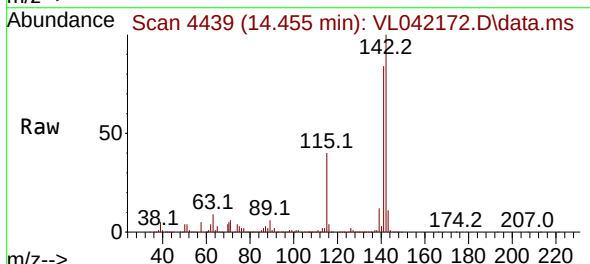
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

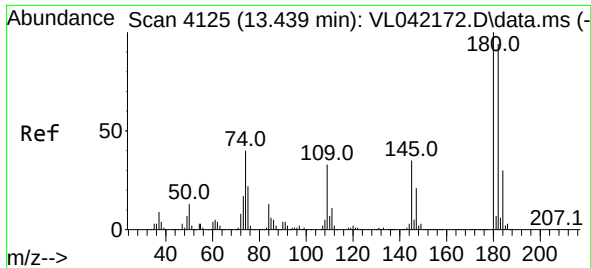
Tgt Ion:128 Resp: 938470
Ion Ratio Lower Upper
128 100
127 13.5 10.8 16.2
129 11.2 9.0 13.4



#80
Naphthalene,2-methyl-
Concen: 10.436 ppbv
RT: 14.455 min Scan# 4439
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

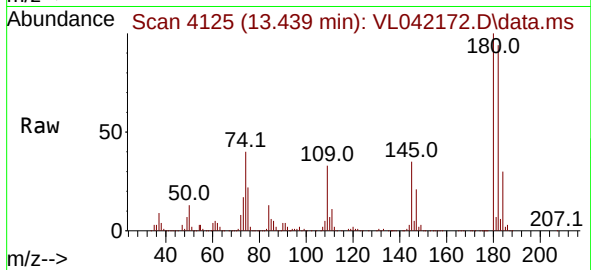
Tgt Ion:142 Resp: 514394
Ion Ratio Lower Upper
142 100
141 82.9 66.3 99.5
115 39.5 31.6 47.4



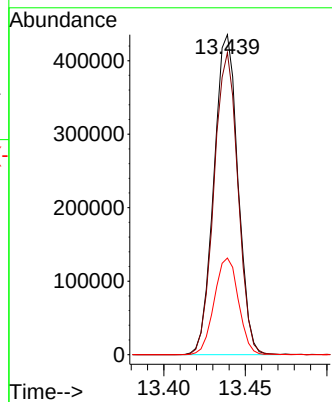
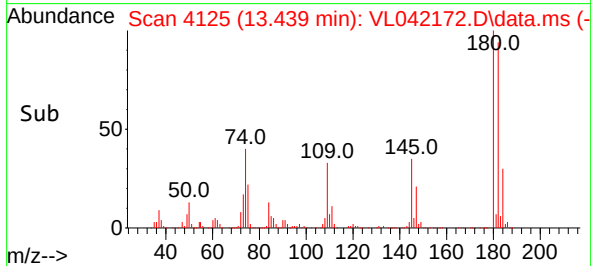


#81
 1,2,4-Trichlorobenzene
 Concen: 9.561 ppbv
 RT: 13.439 min Scan# 41
 Delta R.T. 0.000 min
 Lab File: VL042172.D
 Acq: 27 Mar 2025 08:26

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



Tgt Ion:180 Resp: 446420
 Ion Ratio Lower Upper
 180 100
 182 93.9 75.1 112.7
 184 30.5 24.4 36.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042173.D
 Acq On : 27 Mar 2025 08:59
 Operator : SY/MD
 Sample : VSTDIC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

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 26 06:05:16 2022
 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	1827	1.822	ppbv #	49
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	14008	1.369	ppbv #	2
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

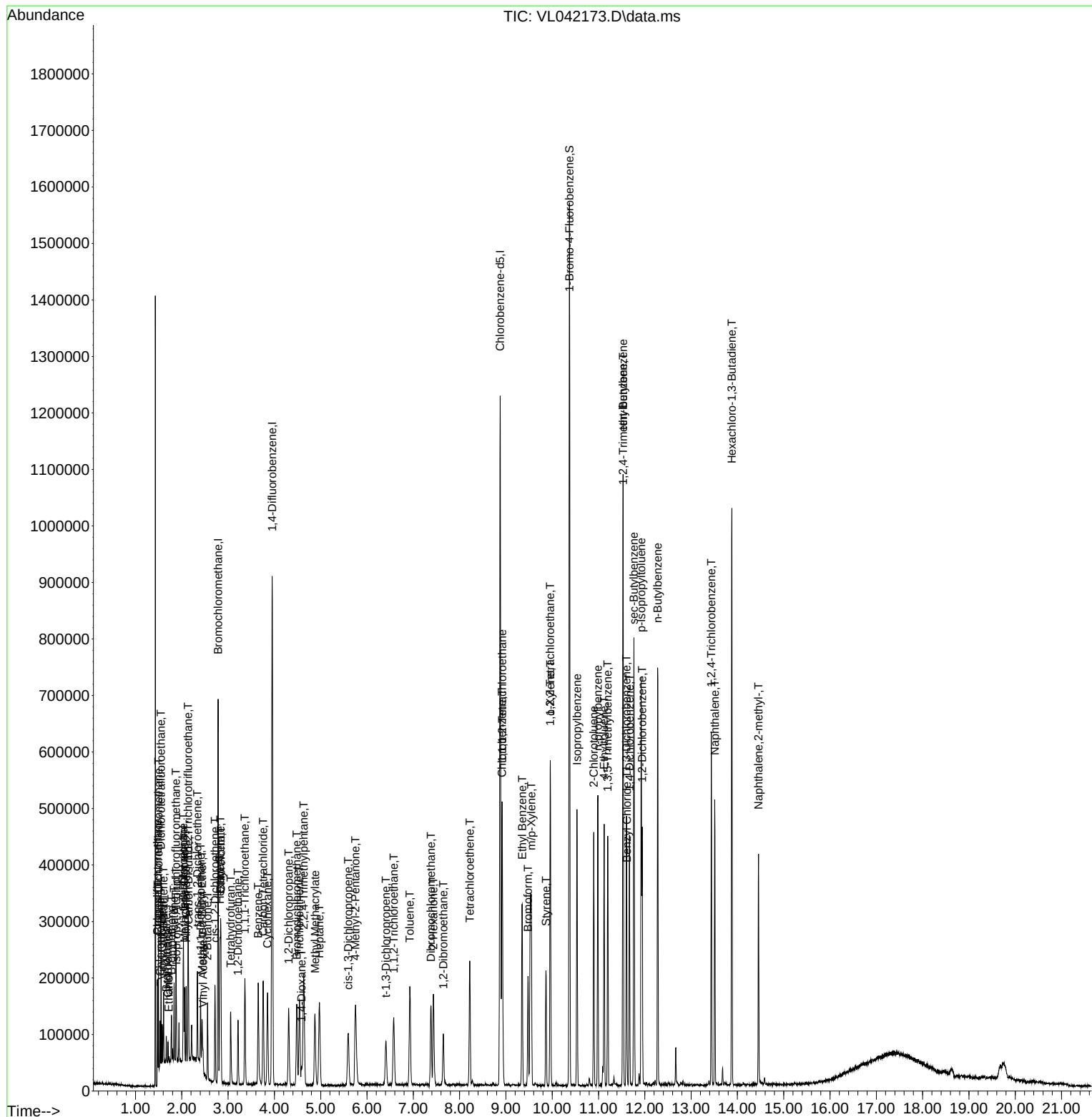
Quant Time: Mar 28 01:32:52 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 01:31:23 2025
 Response via : Initial Calibration

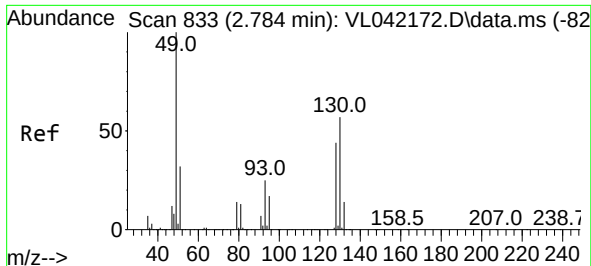
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	61829	2.050	ppbv #	91
47) 1,1,2-Trichloroethane	6.577	97	41387	1.985	ppbv	95
48) Dibromochloromethane	7.383	129	72441	2.050	ppbv	100
49) Bromoform	9.477	173	65221	2.056	ppbv	98
50) 4-Methyl-2-Pentanone	5.752	43	132328	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	167182	2.333	ppbv #	31
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

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

- 1
- 2
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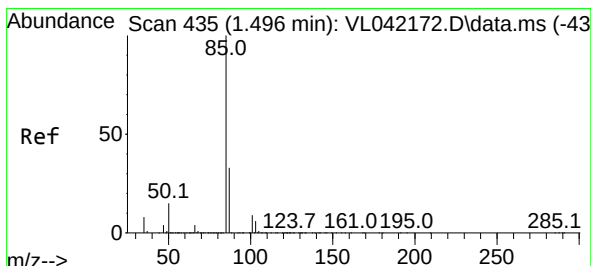
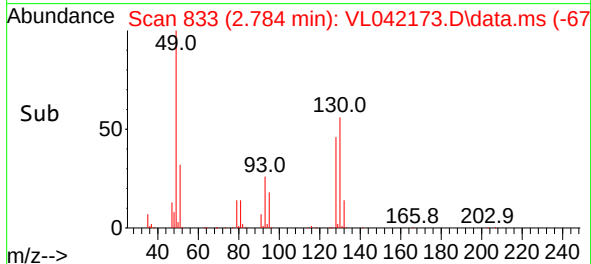
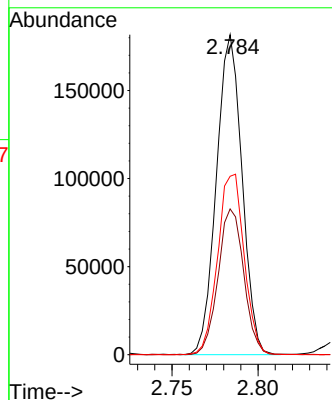
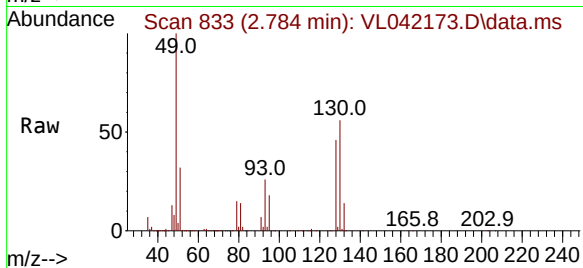




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

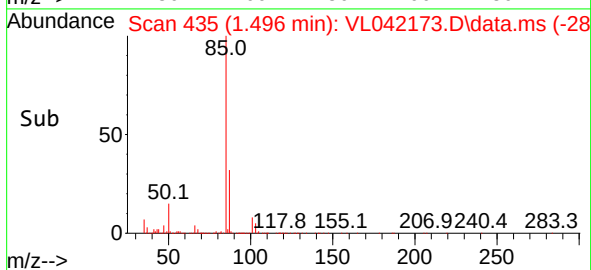
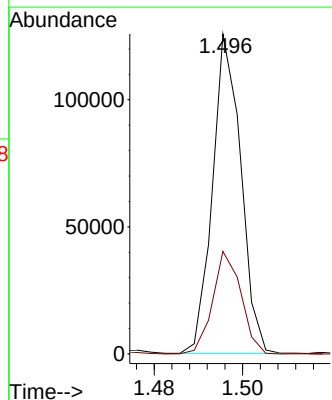
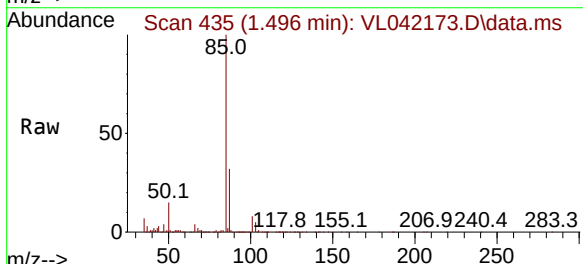
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

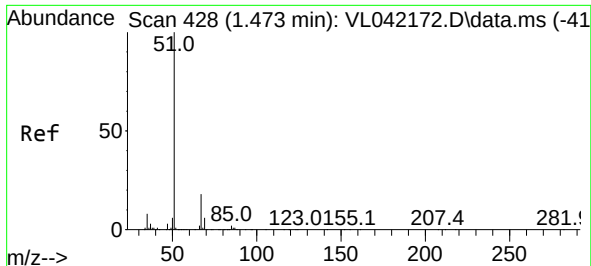
Tgt Ion: 49 Resp: 188395
Ion Ratio Lower Upper
49 100
128 45.7 22.9 68.5
130 58.5 28.8 86.4



#2
Dichlorodifluoromethane
Concen: 2.008 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 85 Resp: 55859
Ion Ratio Lower Upper
85 100
87 32.1 26.1 39.1

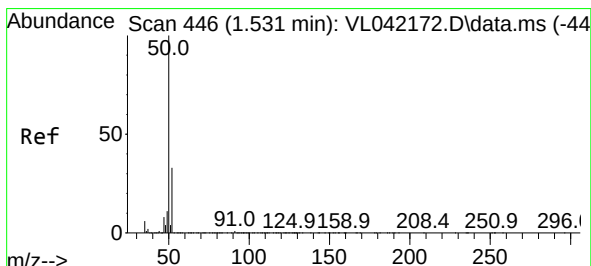
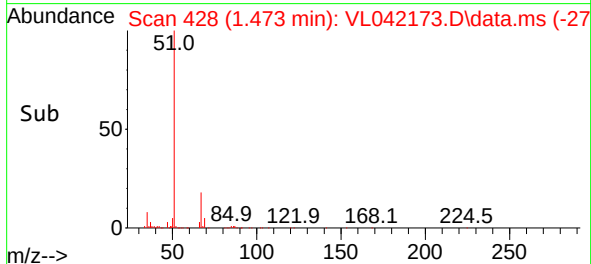
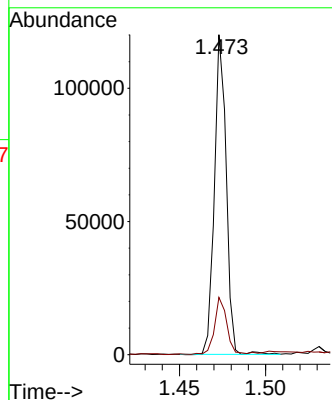
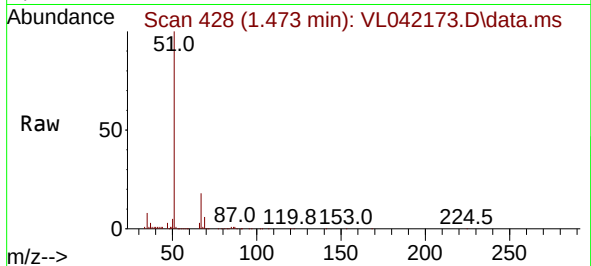




#3
Chlorodifluoromethane
Concen: 2.007 ppbv
RT: 1.473 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

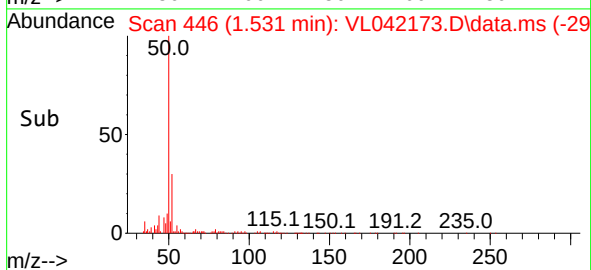
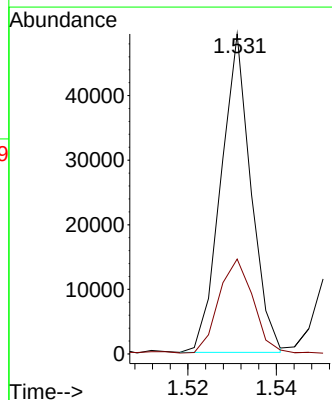
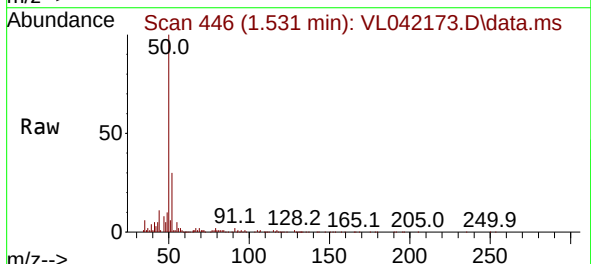
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ClientSampleId :
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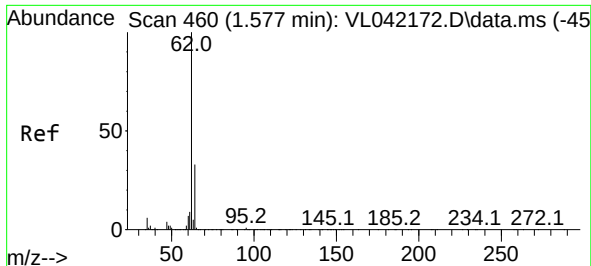
Tgt Ion: 51 Resp: 57045
Ion Ratio Lower Upper
51 100
67 19.4 15.0 22.6



#4
Chloromethane
Concen: 2.049 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 50 Resp: 23293
Ion Ratio Lower Upper
50 100
52 29.5 26.1 39.1

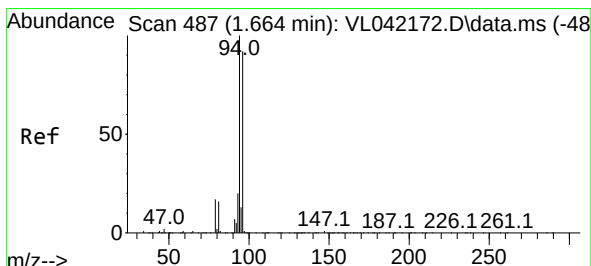
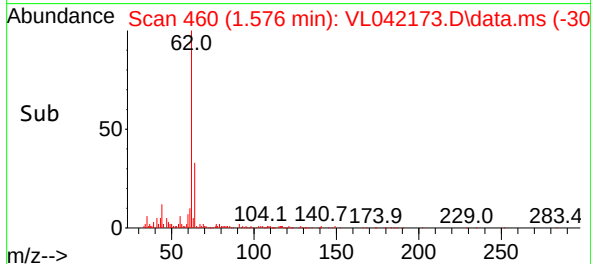
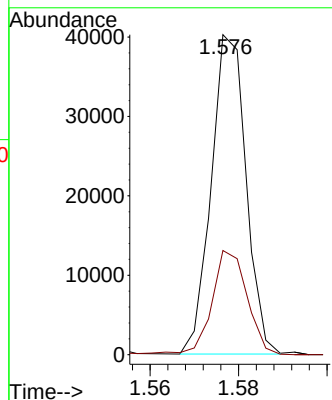
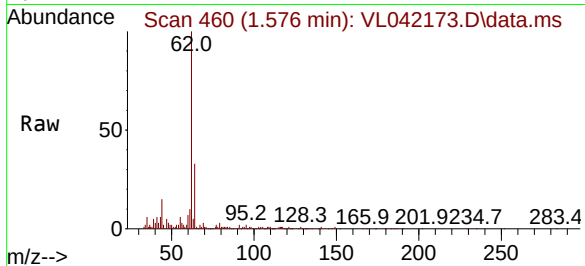




#5
 Vinyl Chloride
 Concen: 1.897 ppbv
 RT: 1.576 min Scan# 460
 Delta R.T. -0.000 min
 Lab File: VL042173.D
 Acq: 27 Mar 2025 08:59

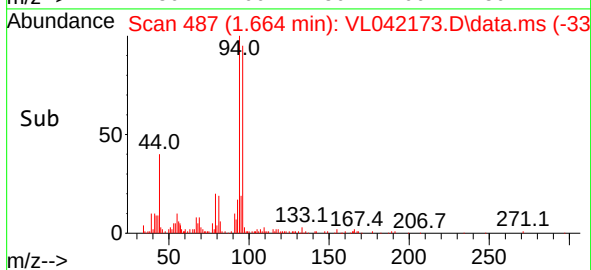
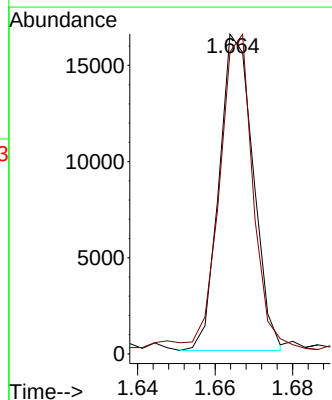
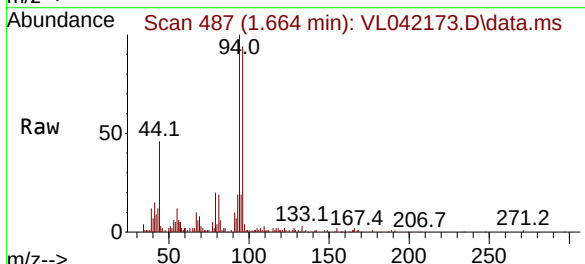
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC002

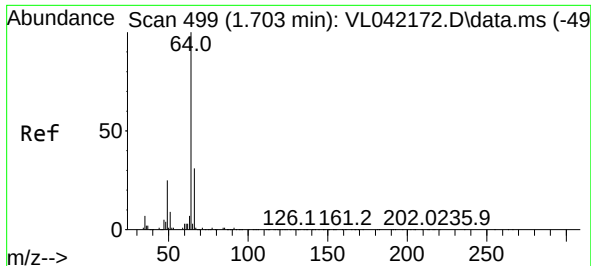
Tgt Ion: 62 Resp: 21989
 Ion Ratio Lower Upper
 62 100
 64 32.5 26.6 40.0



#6
 Bromomethane
 Concen: 1.946 ppbv
 RT: 1.664 min Scan# 487
 Delta R.T. -0.000 min
 Lab File: VL042173.D
 Acq: 27 Mar 2025 08:59

Tgt Ion: 94 Resp: 10027
 Ion Ratio Lower Upper
 94 100
 96 93.6 73.1 109.7

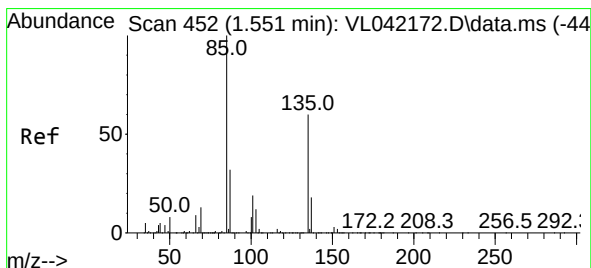
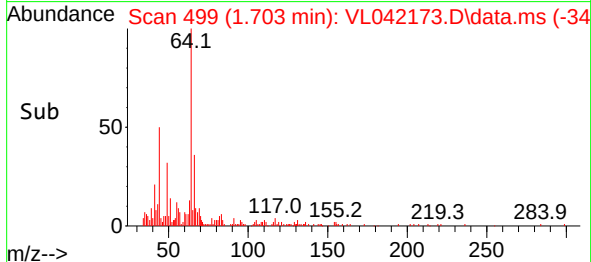
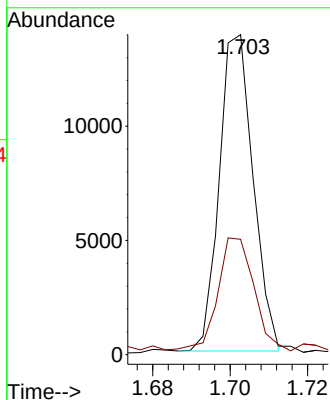
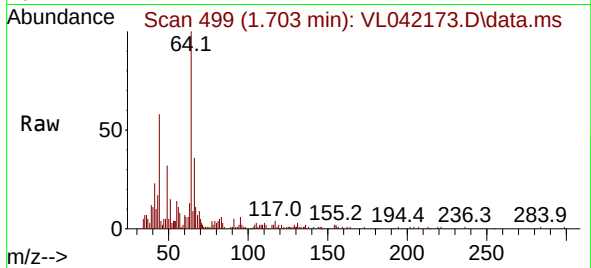




#7
Chloroethane
Concen: 1.844 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

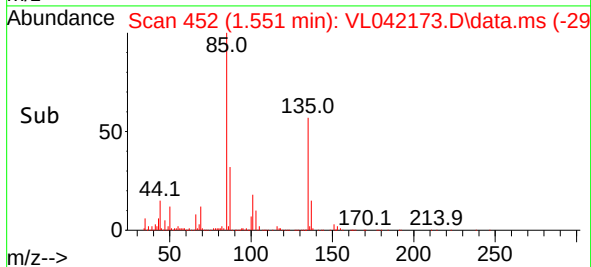
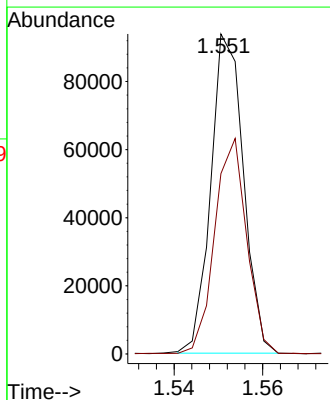
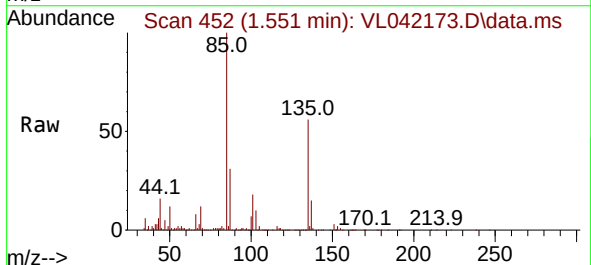
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC002

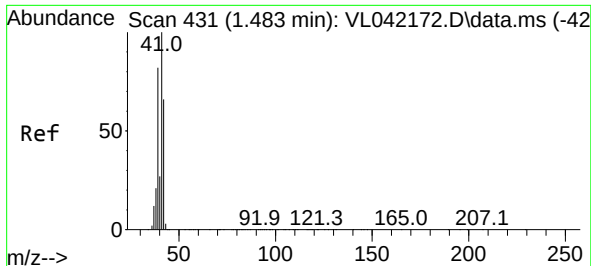
Tgt Ion: 64 Resp: 8413
Ion Ratio Lower Upper
64 100
66 36.1 25.2 37.8



#8
Dichlorotetrafluoroethane
Concen: 2.027 ppbv
RT: 1.551 min Scan# 452
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 85 Resp: 48008
Ion Ratio Lower Upper
85 100
135 66.8 52.4 78.6

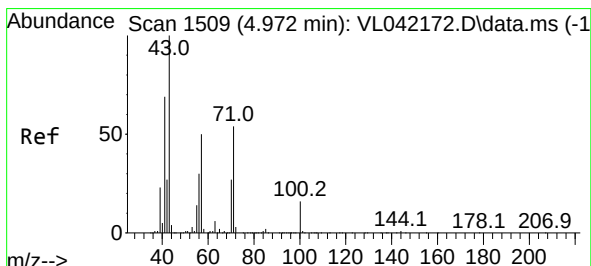
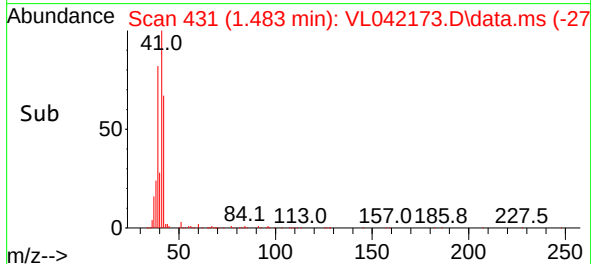
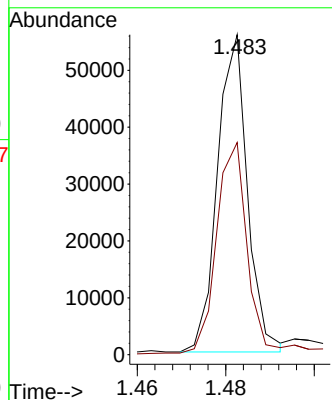
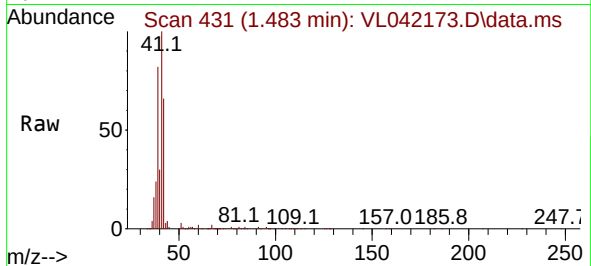




#9
Propene
Concen: 2.054 ppbv
RT: 1.483 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

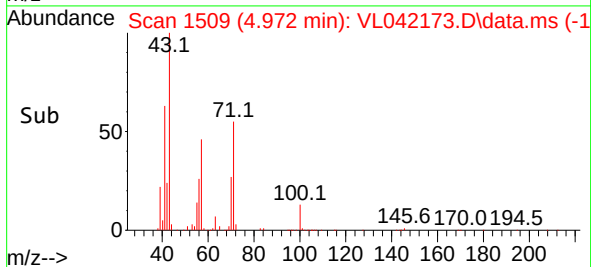
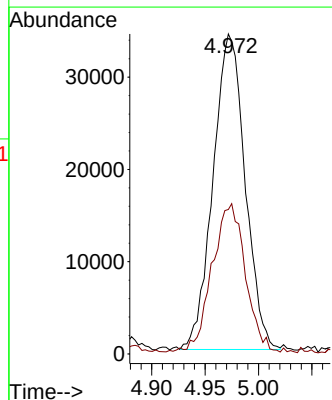
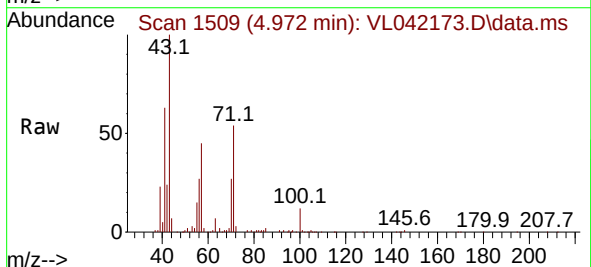
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC002

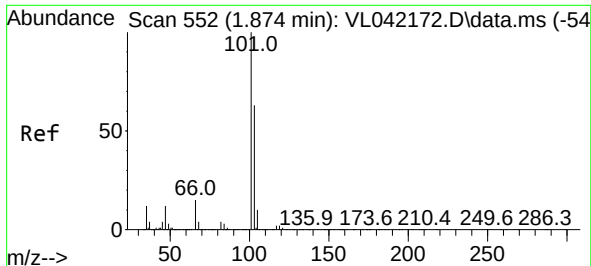
Tgt Ion: 41 Resp: 26295
Ion Ratio Lower Upper
41 100
42 73.9 55.4 83.2



#10
Heptane
Concen: 2.063 ppbv
RT: 4.972 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 43 Resp: 71466
Ion Ratio Lower Upper
43 100
57 49.6 39.4 59.2

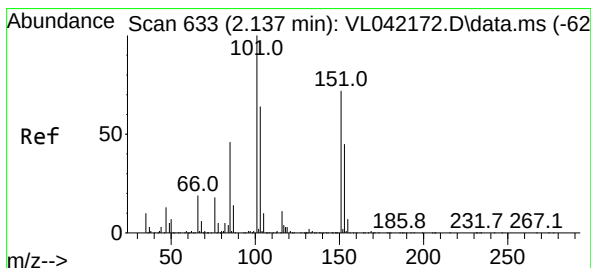
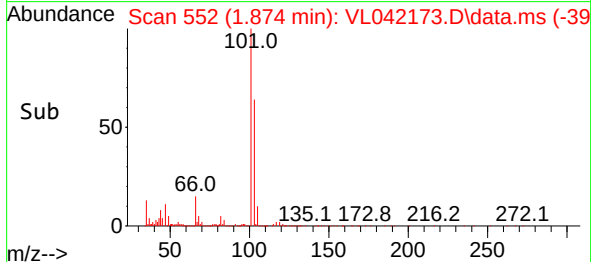
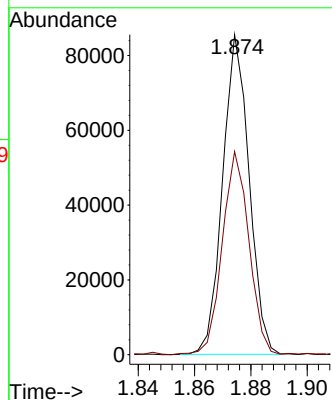
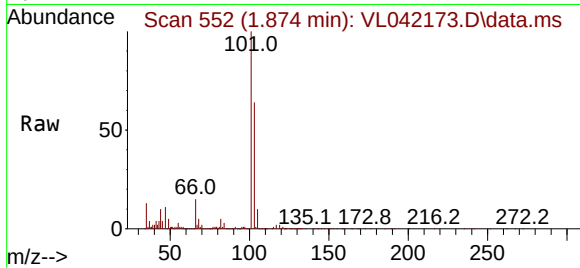




#11
 Trichlorofluoromethane
 Concen: 2.060 ppbv
 RT: 1.874 min Scan# 511
 Delta R.T. -0.000 min
 Lab File: VL042173.D
 Acq: 27 Mar 2025 08:59

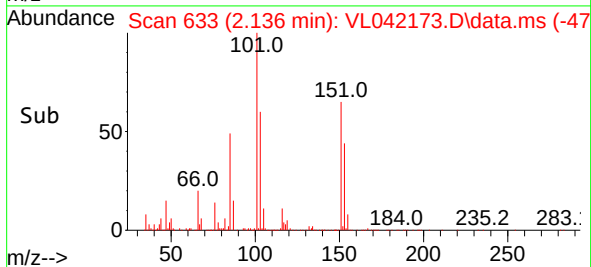
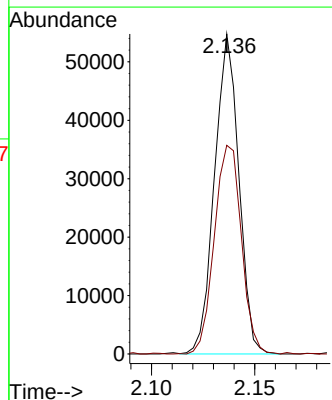
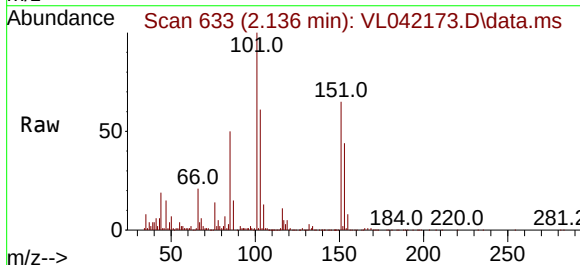
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC002

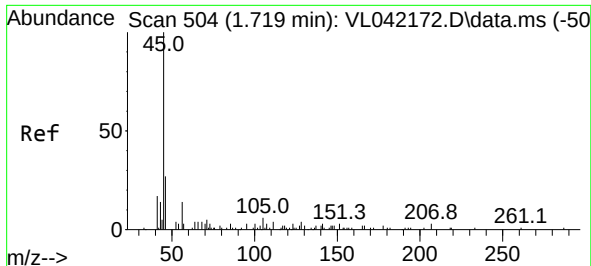
Tgt Ion:101 Resp: 55754
 Ion Ratio Lower Upper
 101 100
 103 63.5 50.2 75.2



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 2.012 ppbv
 RT: 2.136 min Scan# 633
 Delta R.T. -0.000 min
 Lab File: VL042173.D
 Acq: 27 Mar 2025 08:59

Tgt Ion:101 Resp: 44761
 Ion Ratio Lower Upper
 101 100
 151 73.0 57.1 85.7





#13

Ethanol

Concen: 1.822 ppbv

RT: 1.719 min Scan# 504

Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Instrument :

MSVOA_1

ClientSampleId :

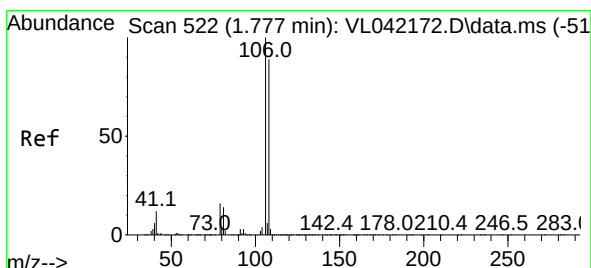
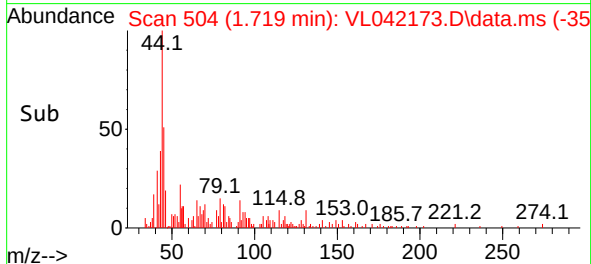
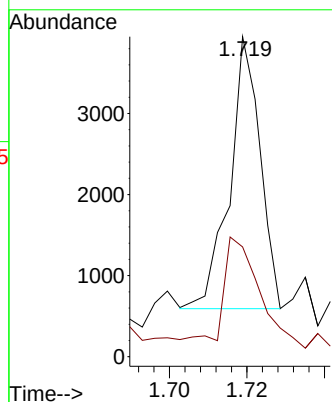
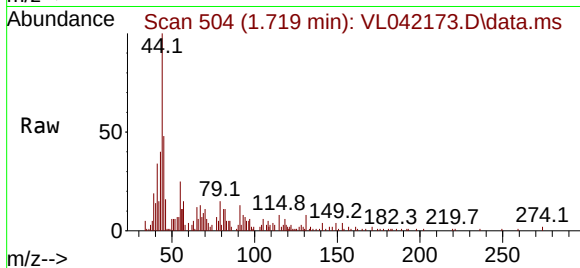
VSTDICC002

Tgt Ion: 45 Resp: 1827

Ion Ratio Lower Upper

45 100

46 85.6 20.2 80.8#



#14

Bromoethene

Concen: 2.033 ppbv

RT: 1.780 min Scan# 523

Delta R.T. 0.003 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

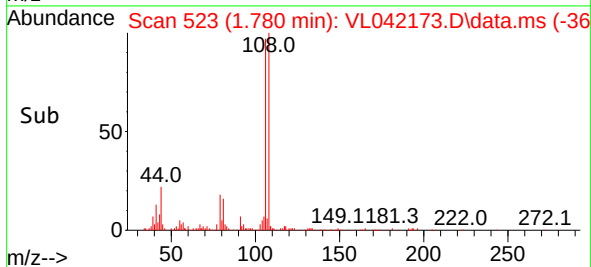
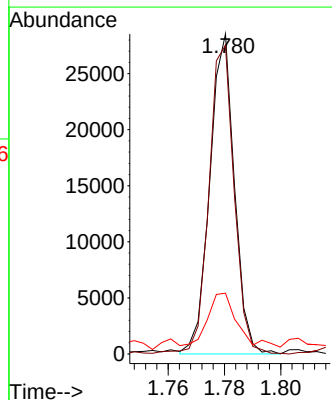
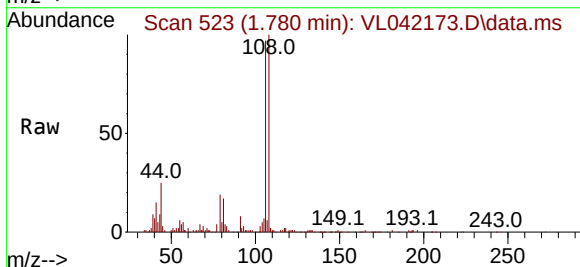
Tgt Ion: 108 Resp: 17323

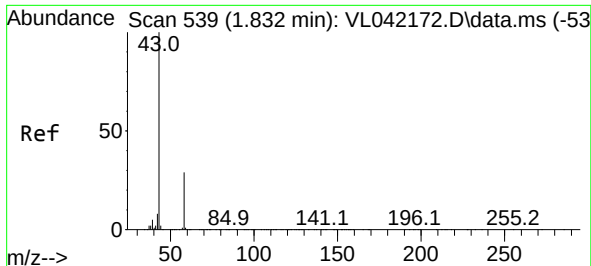
Ion Ratio Lower Upper

108 100

106 100.6 86.8 130.2

79 32.0 15.0 22.6#

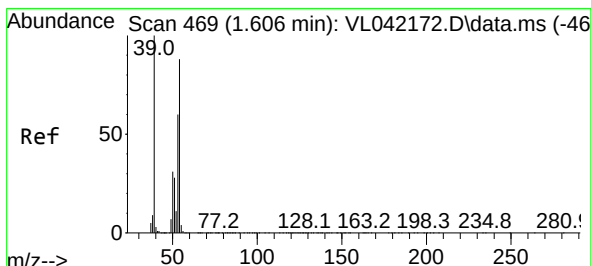
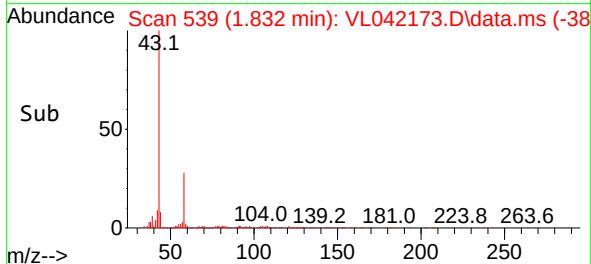
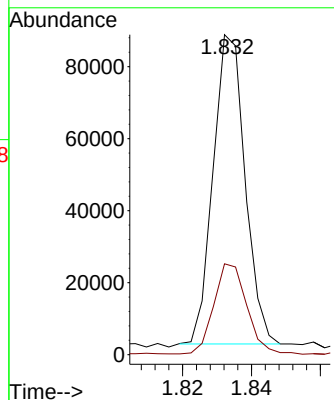
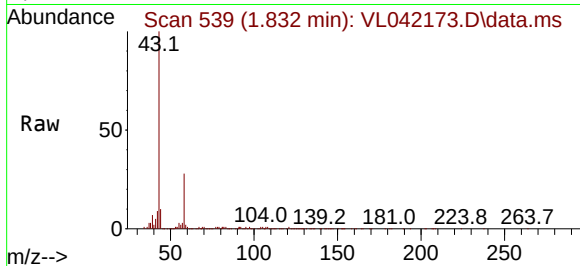




#15
Acetone
Concen: 2.101 ppbv
RT: 1.832 min Scan# 51
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

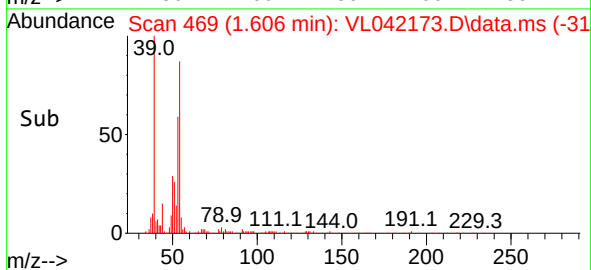
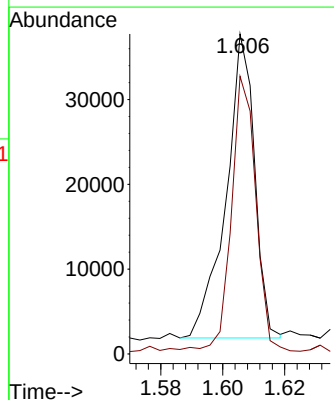
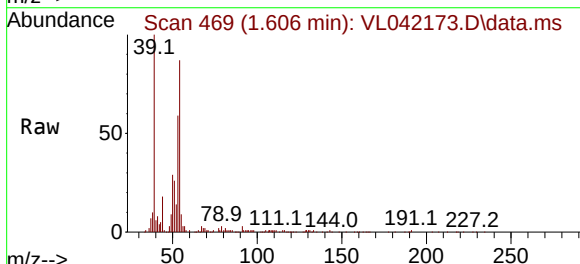
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

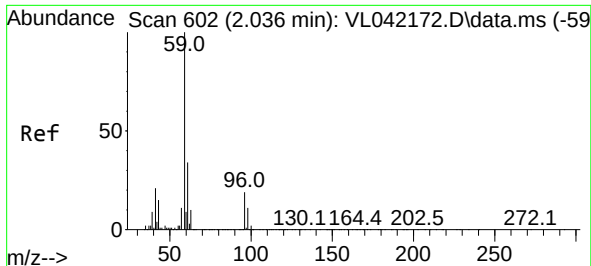
Tgt Ion: 43 Resp: 55365
Ion Ratio Lower Upper
43 100
58 31.8 23.2 34.8



#16
1,3-Butadiene
Concen: 1.932 ppbv
RT: 1.606 min Scan# 469
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 39 Resp: 22894
Ion Ratio Lower Upper
39 100
54 79.9 60.7 91.1





#17

tert-Butyl alcohol

Concen: 2.016 ppbv

RT: 2.039 min Scan# 602

Delta R.T. 0.003 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Instrument :

MSVOA_L

ClientSampleId :

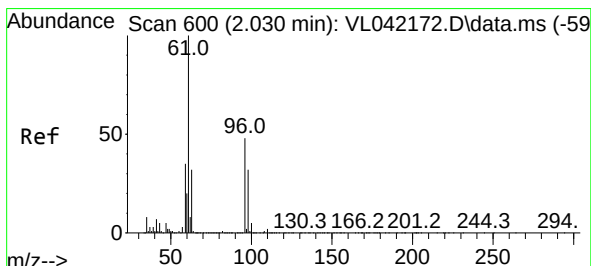
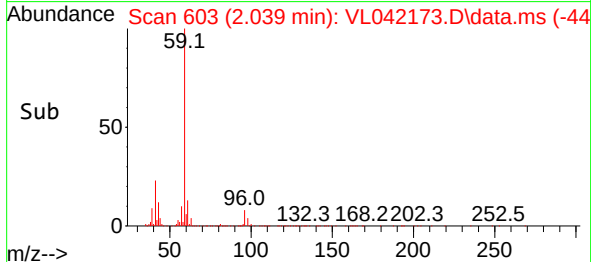
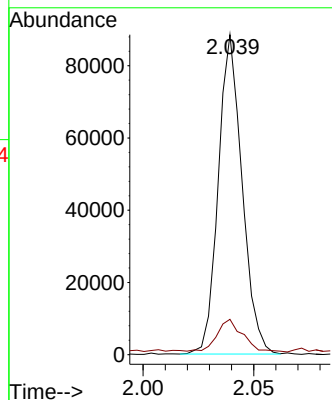
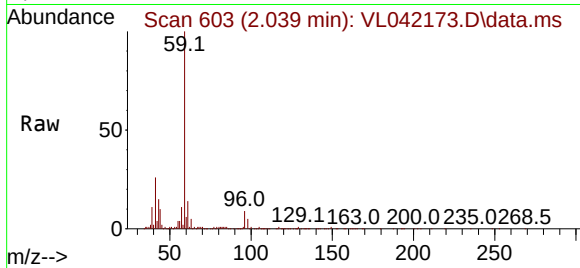
VSTDIC002

Tgt Ion: 59 Resp: 66174

Ion Ratio Lower Upper

59 100

57 11.2 8.9 13.3



#18

1,1-Dichloroethene

Concen: 2.029 ppbv

RT: 2.030 min Scan# 600

Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

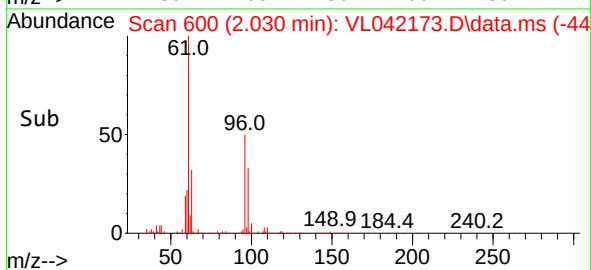
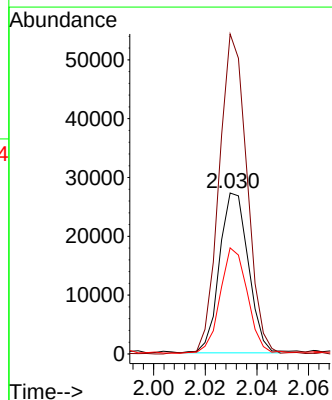
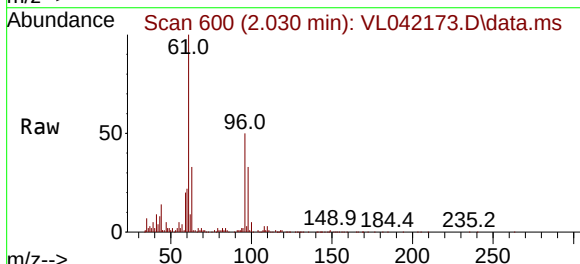
Tgt Ion: 96 Resp: 21103

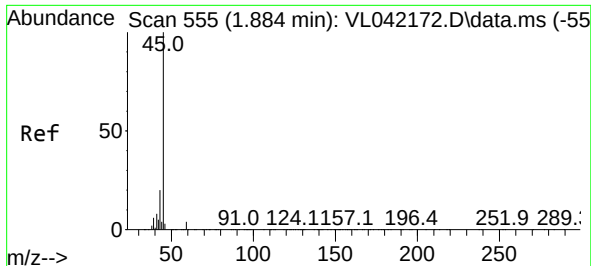
Ion Ratio Lower Upper

96 100

61 199.8 167.6 251.4

98 66.0 53.5 80.3

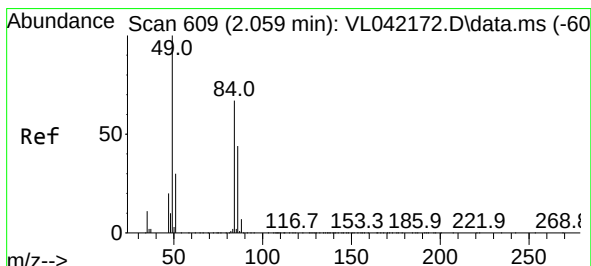
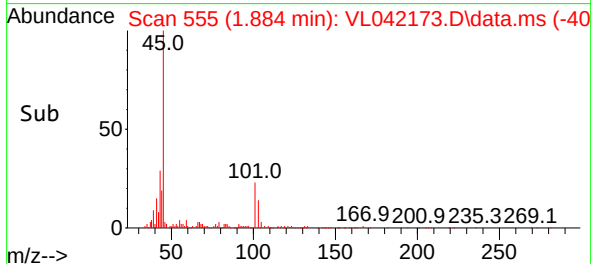
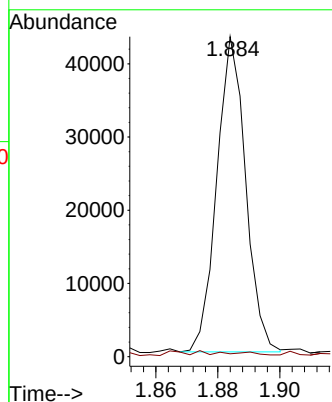
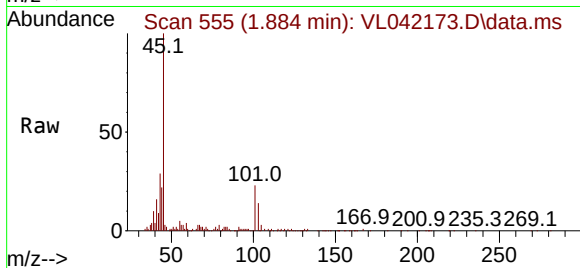




#19
Isopropyl Alcohol
Concen: 1.870 ppbv
RT: 1.884 min Scan# 511
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

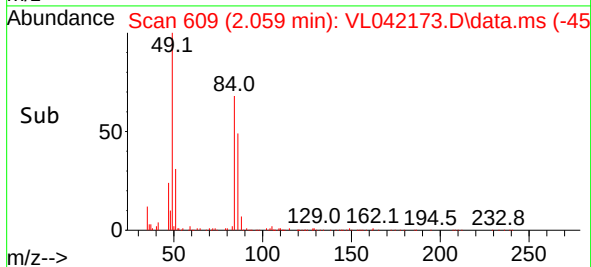
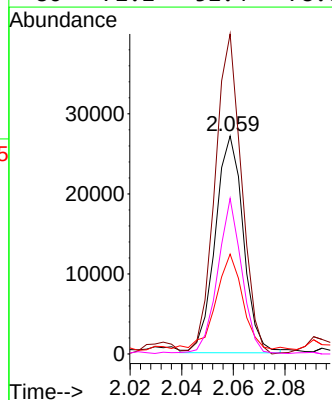
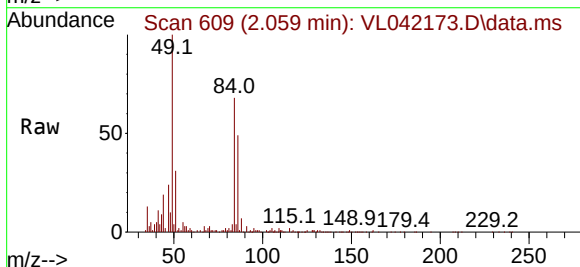
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC002

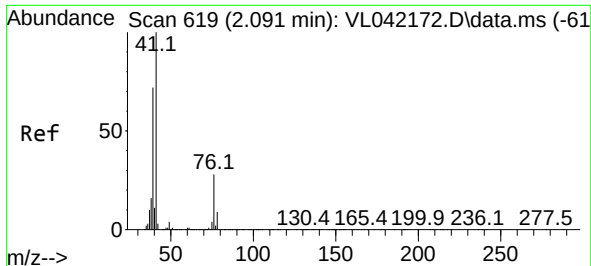
Tgt Ion: 45 Resp: 27804
Ion Ratio Lower Upper
45 100
58 3.3 36.9 55.3#



#20
Methylene Chloride
Concen: 2.091 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 84 Resp: 20518
Ion Ratio Lower Upper
84 100
49 148.8 120.2 180.4
51 43.5 37.4 56.0
86 72.2 52.4 78.6

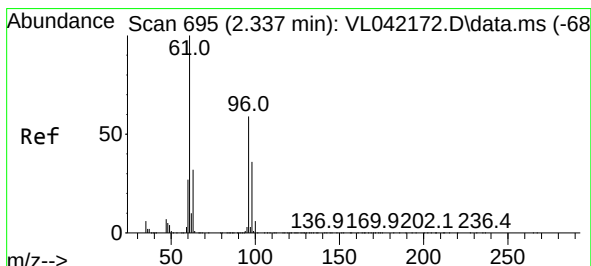
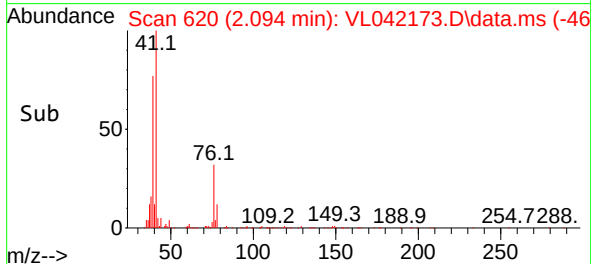
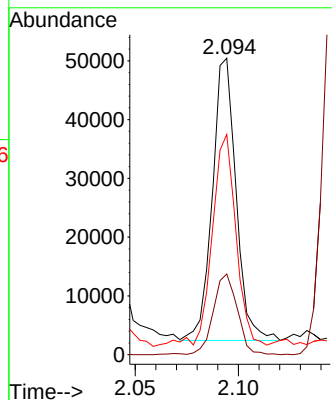
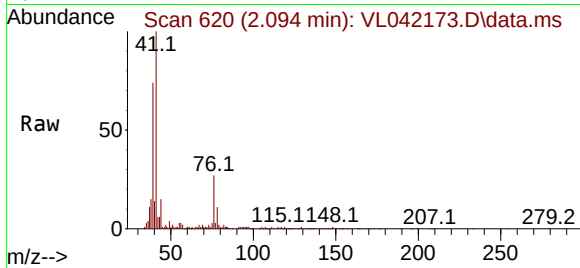




#21
 Allyl Chloride
 Concen: 2.068 ppbv
 RT: 2.094 min Scan# 619
 Delta R.T. 0.003 min
 Lab File: VL042173.D
 Acq: 27 Mar 2025 08:59

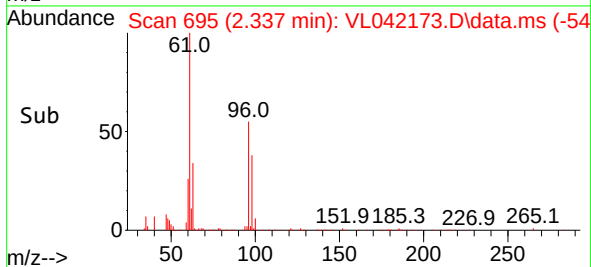
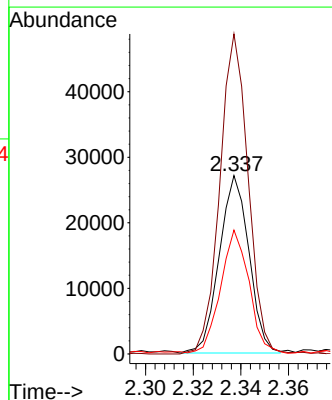
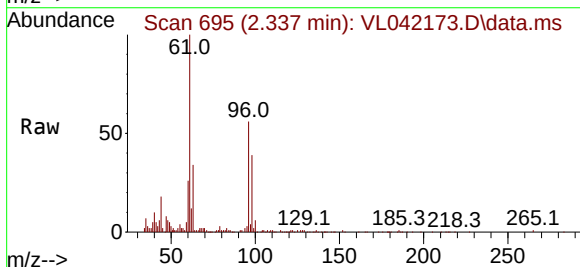
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC002

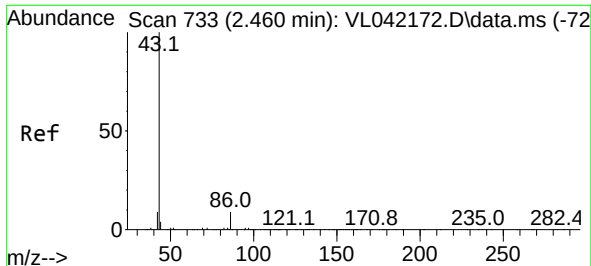
Tgt Ion: 41 Resp: 38425
 Ion Ratio Lower Upper
 41 100
 76 29.0 24.1 36.1
 39 77.5 61.1 91.7



#22
 trans-1,2-Dichloroethene
 Concen: 1.924 ppbv
 RT: 2.337 min Scan# 695
 Delta R.T. -0.000 min
 Lab File: VL042173.D
 Acq: 27 Mar 2025 08:59

Tgt Ion: 96 Resp: 23384
 Ion Ratio Lower Upper
 96 100
 61 180.3 136.6 204.8
 98 68.6 49.4 74.2



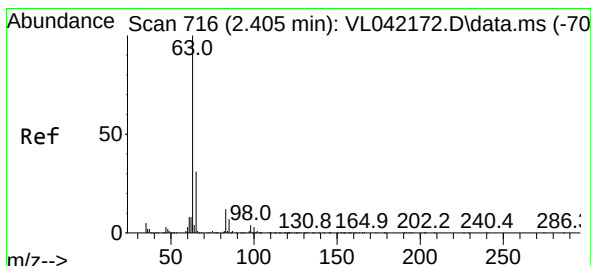
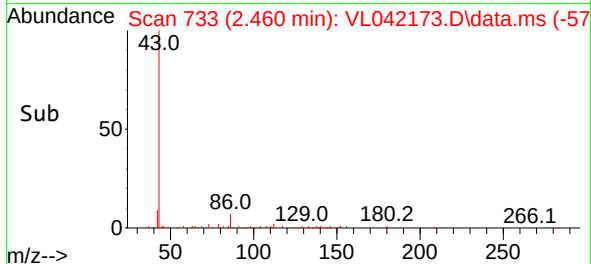
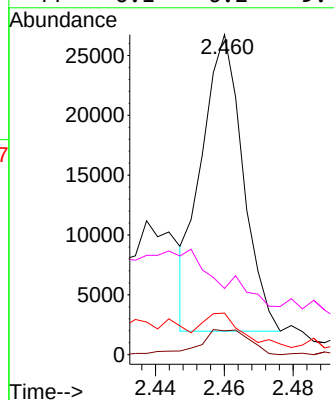
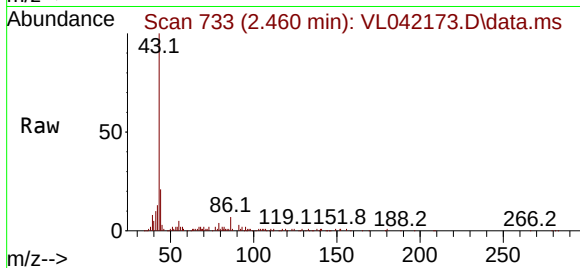


#23
Vinyl Acetate
Concen: 1.894 ppbv
RT: 2.460 min Scan# 716
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Instrument :
MSVOA_1
ClientSampleId :
VSTDICC002

Tgt Ion: 43 Resp: 20736

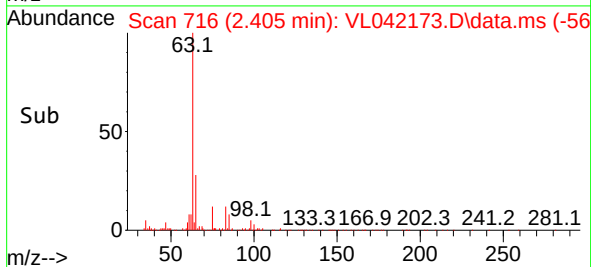
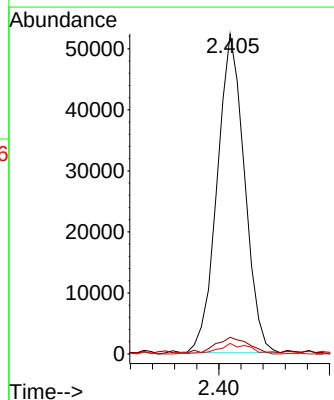
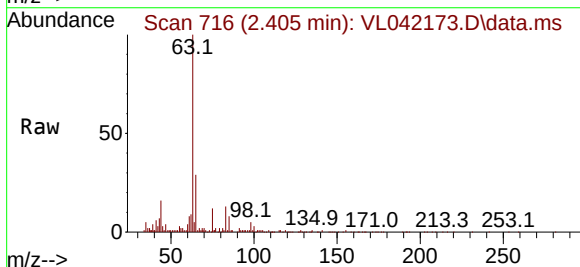
Ion	Ratio	Lower	Upper
43	100		
86	8.1	5.5	8.3
42	10.4	8.6	13.0
44	6.1	6.2	9.4

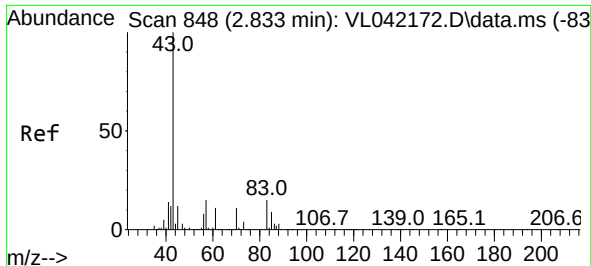


#24
1,1-Dichloroethane
Concen: 2.008 ppbv
RT: 2.405 min Scan# 716
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 63 Resp: 44740

Ion	Ratio	Lower	Upper
63	100		
98	4.9	2.3	6.8
100	3.3	1.6	4.7

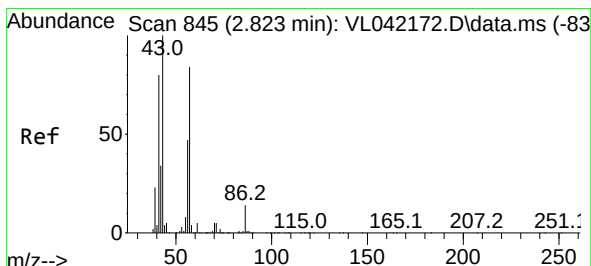
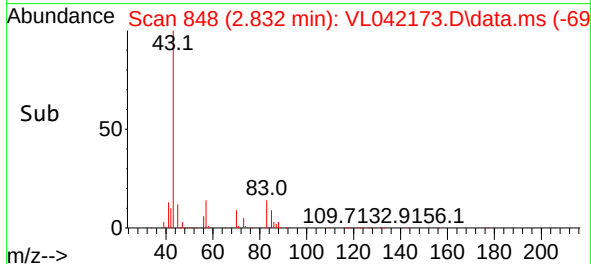
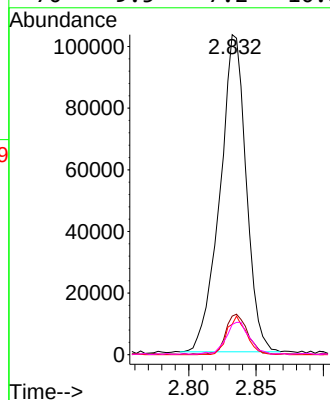
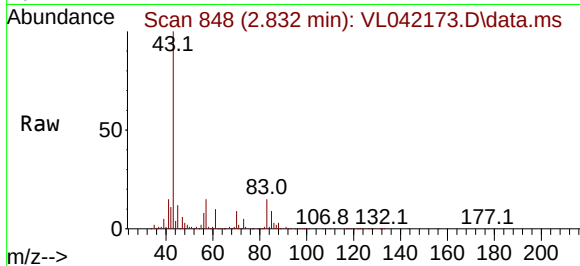




#25
Ethyl Acetate
Concen: 2.040 ppbv
RT: 2.832 min Scan# 845
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

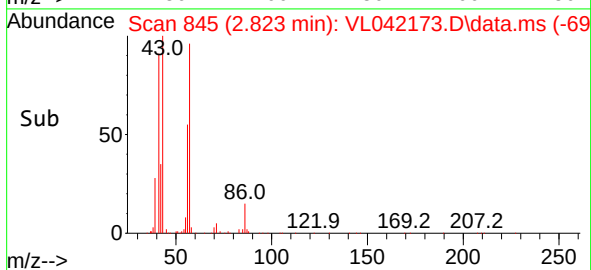
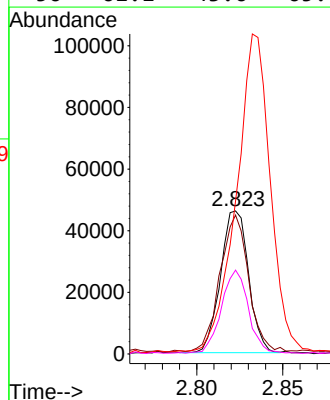
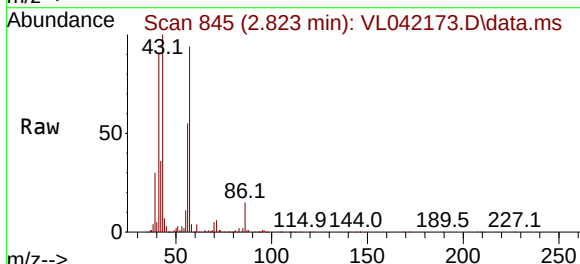
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC002

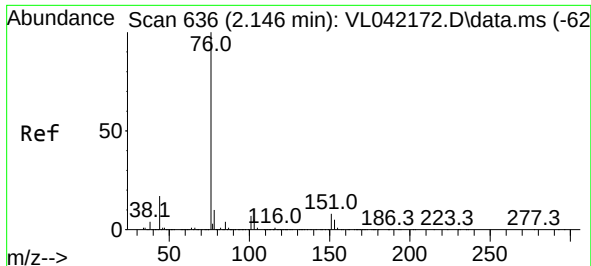
Tgt Ion: 43	Resp: 139516
Ion Ratio	Lower Upper
43 100	
45 10.9	8.2 12.2
61 9.1	7.3 10.9
70 9.5	7.2 10.8



#26
Hexane
Concen: 1.972 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 57	Resp: 52095
Ion Ratio	Lower Upper
57 100	
41 100.9	76.6 114.8
43 274.8	207.8 311.8
56 61.1	43.6 65.4

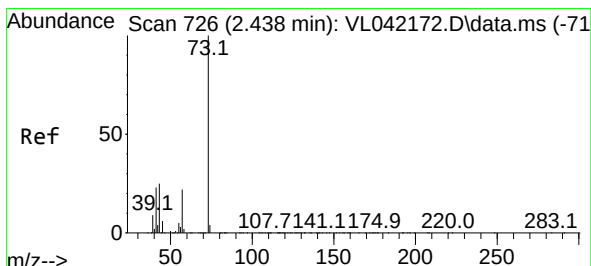
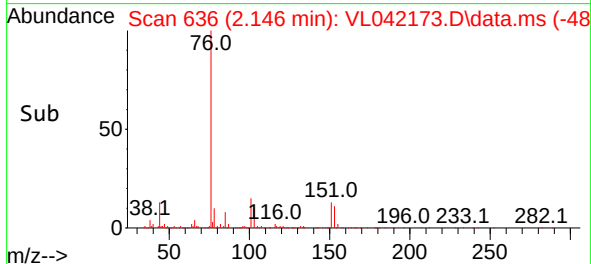
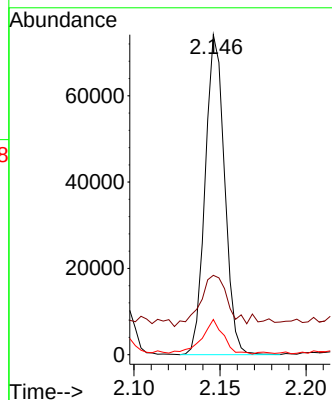
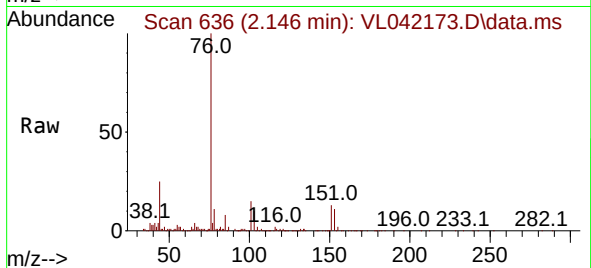




#27
Carbon Disulfide
Concen: 2.047 ppbv
RT: 2.146 min Scan# 61
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

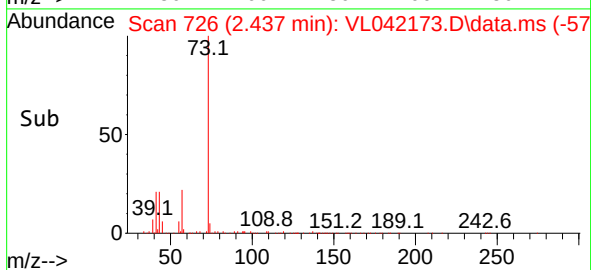
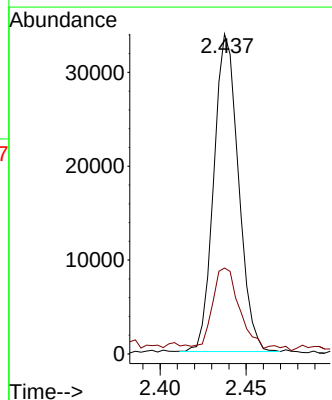
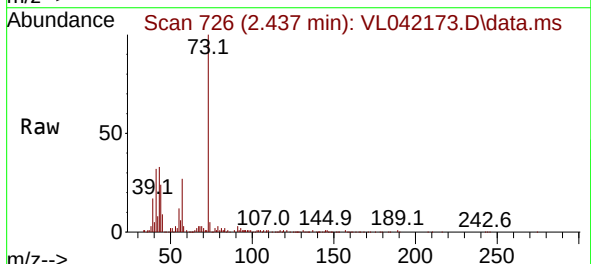
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC002

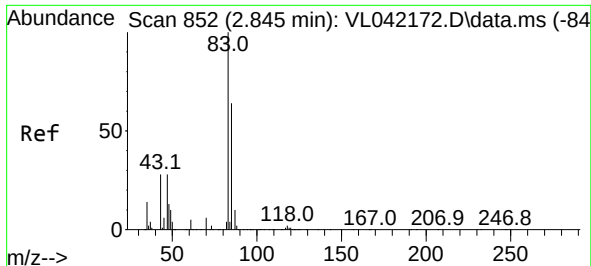
Tgt Ion: 76 Resp: 57969
Ion Ratio Lower Upper
76 100
44 35.2 14.7 22.1#
78 12.0 9.3 13.9



#28
Methyl tert-Butyl Ether
Concen: 2.049 ppbv
RT: 2.437 min Scan# 726
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 73 Resp: 33703
Ion Ratio Lower Upper
73 100
57 25.2 20.5 30.7





#29

Chloroform

Concen: 2.019 ppbv

RT: 2.845 min Scan# 81

Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Instrument :

MSVOA_L

ClientSampleId :

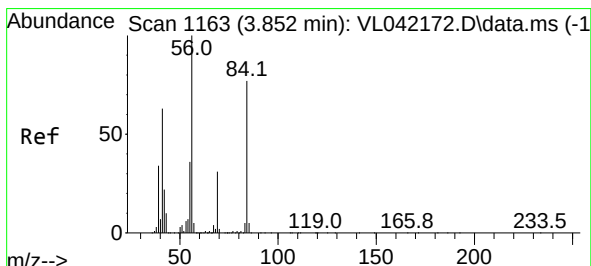
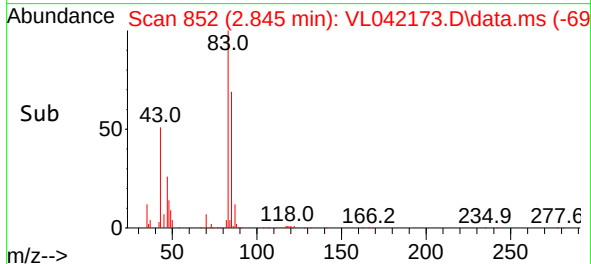
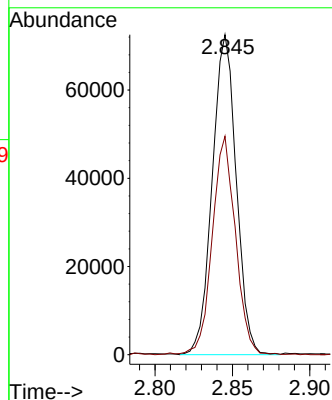
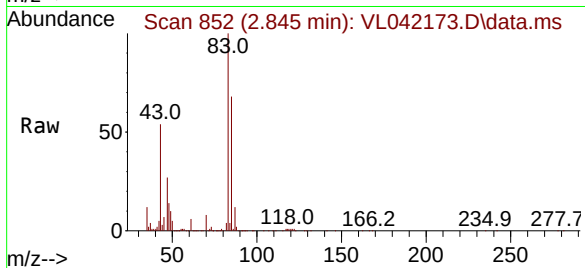
VSTDIC002

Tgt Ion: 83 Resp: 78043

Ion Ratio Lower Upper

83 100

85 68.2 51.4 77.2



#30

Cyclohexane

Concen: 1.989 ppbv

RT: 3.852 min Scan# 1163

Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

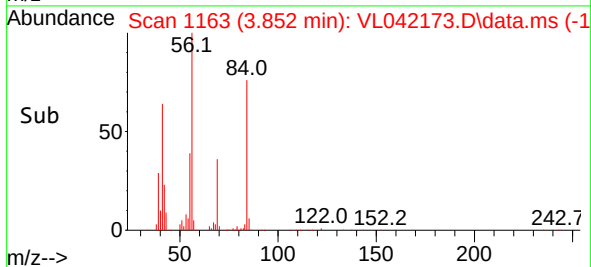
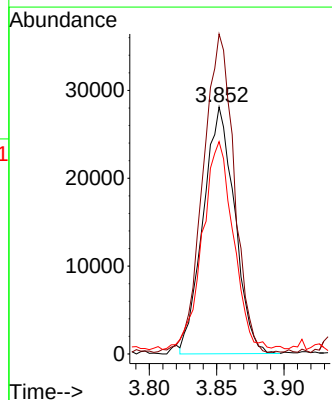
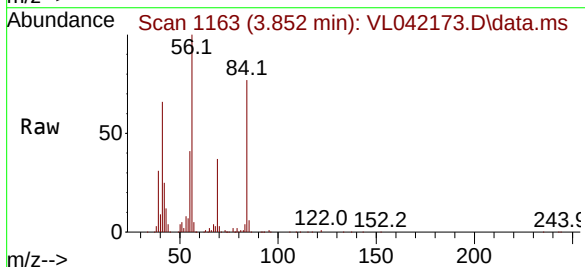
Tgt Ion: 84 Resp: 45641

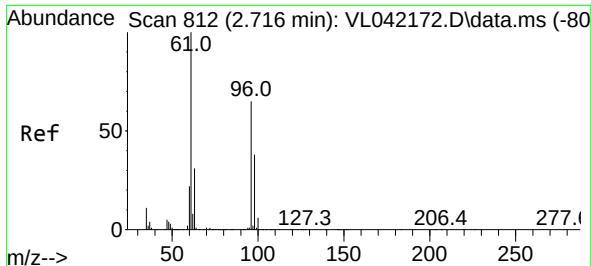
Ion Ratio Lower Upper

84 100

56 127.8 102.8 154.2

41 84.6 66.5 99.7

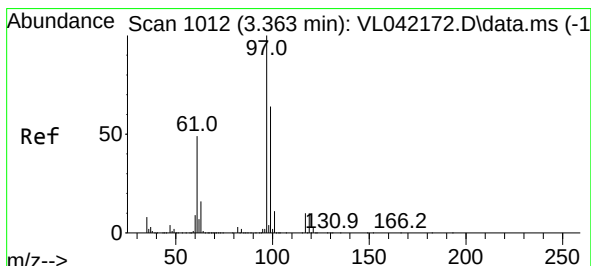
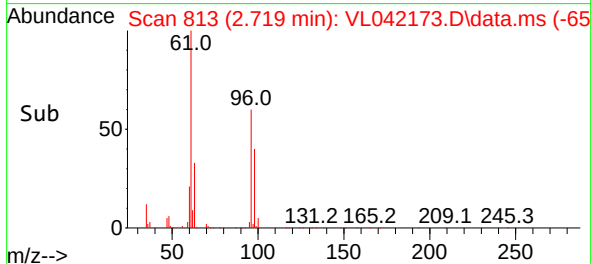
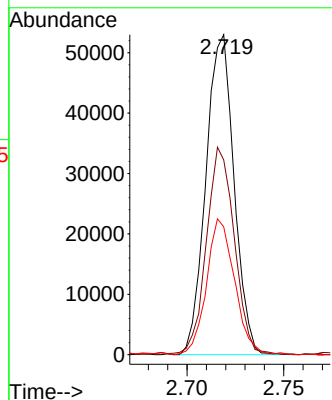
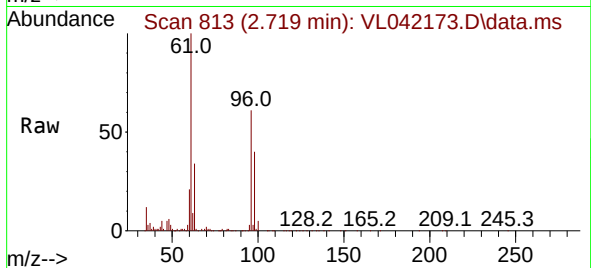




#31
cis-1,2-Dichloroethene
Concen: 2.003 ppbv
RT: 2.719 min Scan# 812
Delta R.T. 0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

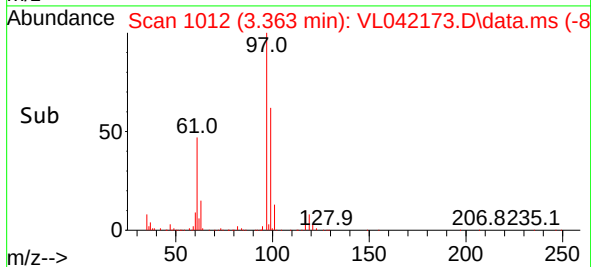
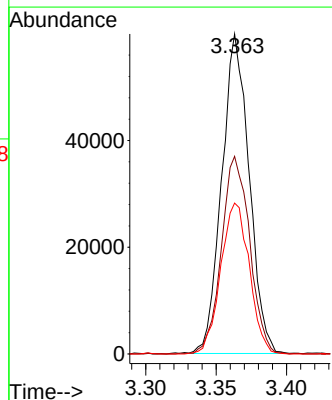
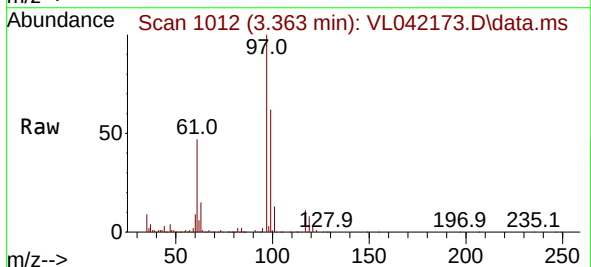
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

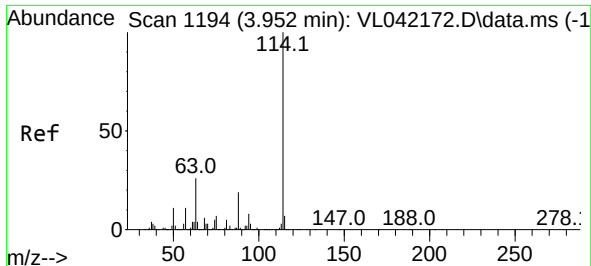
Tgt Ion: 61 Resp: 53713
Ion Ratio Lower Upper
61 100
96 60.6 51.8 77.8
98 39.6 30.6 46.0



#32
1,1,1-Trichloroethane
Concen: 1.833 ppbv
RT: 3.363 min Scan# 1012
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 97 Resp: 81070
Ion Ratio Lower Upper
97 100
99 63.9 51.5 77.3
61 49.3 38.7 58.1





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.952 min Scan# 1194

Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

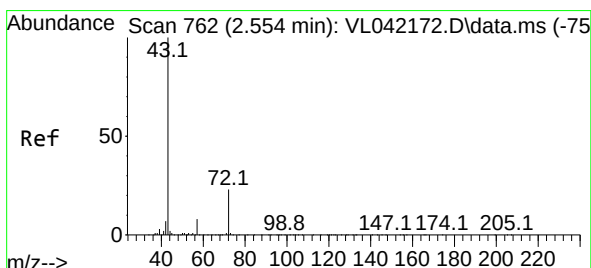
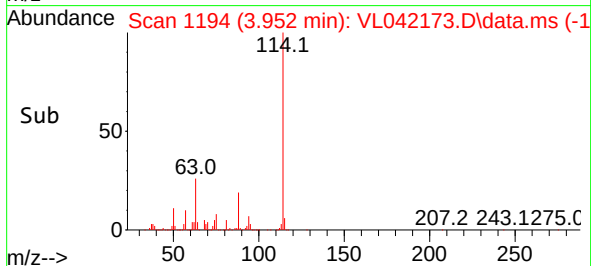
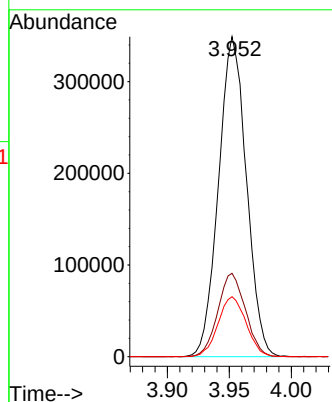
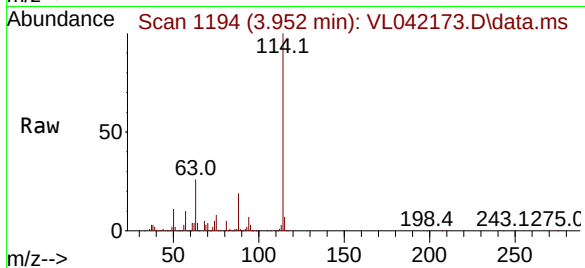
Tgt Ion:114 Resp: 546394

Ion Ratio Lower Upper

114 100

63 25.9 20.7 31.1

88 18.9 15.0 22.4



#34

2-Butanone

Concen: 2.124 ppbv

RT: 2.554 min Scan# 762

Delta R.T. -0.000 min

Lab File: VL042173.D

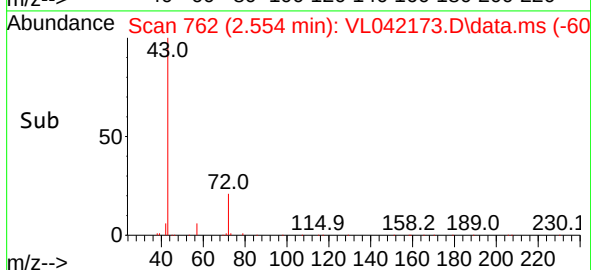
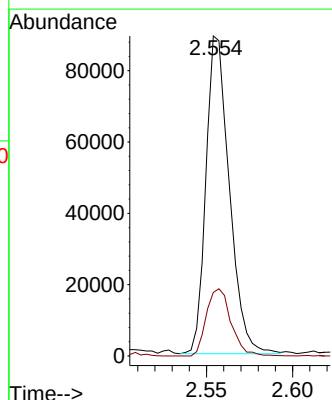
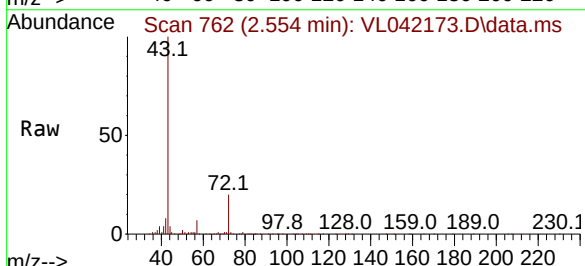
Acq: 27 Mar 2025 08:59

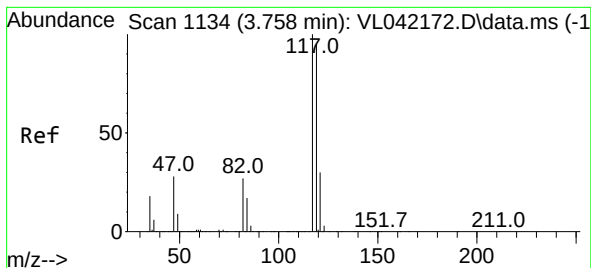
Tgt Ion: 43 Resp: 84157

Ion Ratio Lower Upper

43 100

72 22.4 18.2 27.2





#35

Carbon Tetrachloride

Concen: 1.944 ppbv

RT: 3.758 min Scan# 1134

Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

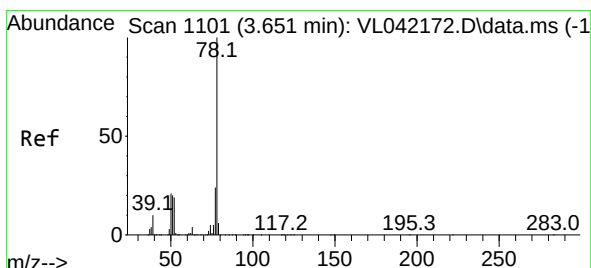
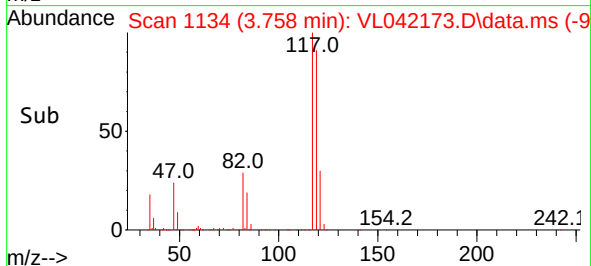
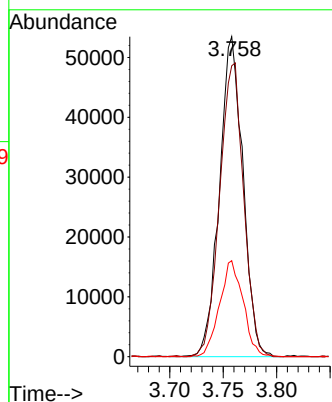
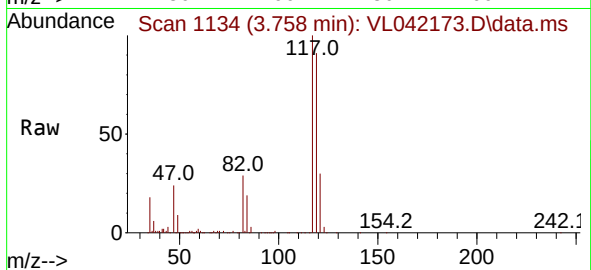
Tgt Ion:117 Resp: 81735

Ion Ratio Lower Upper

117 100

119 90.8 76.2 114.2

121 30.0 24.2 36.4



#36

Benzene

Concen: 2.044 ppbv

RT: 3.651 min Scan# 1101

Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

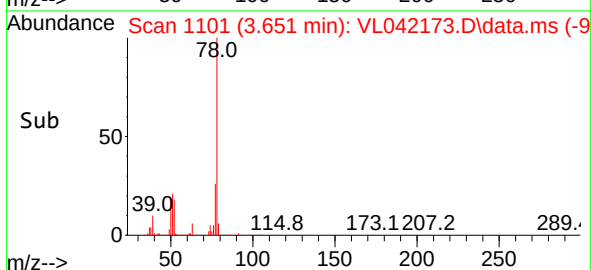
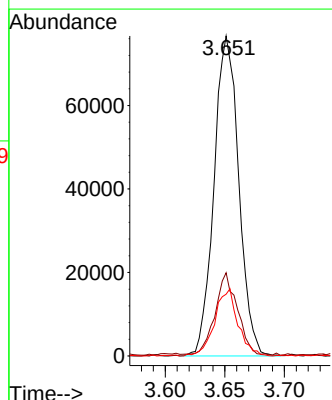
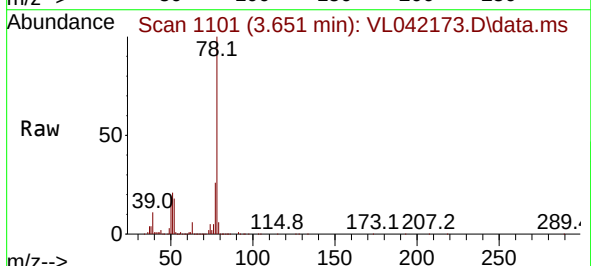
Tgt Ion: 78 Resp: 110727

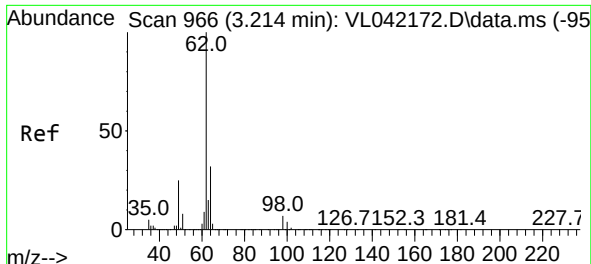
Ion Ratio Lower Upper

78 100

77 25.7 19.1 28.7

50 19.3 16.6 24.8





#37

1,2-Dichloroethane

Concen: 1.982 ppbv

RT: 3.214 min Scan# 9

Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Instrument :

MSVOA_L

ClientSampleId :

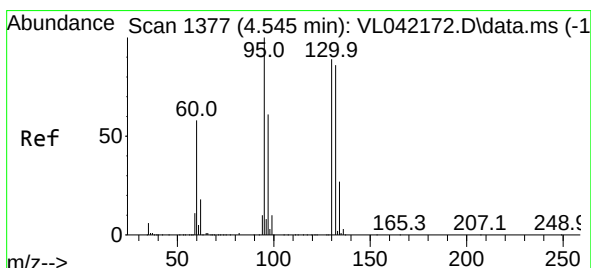
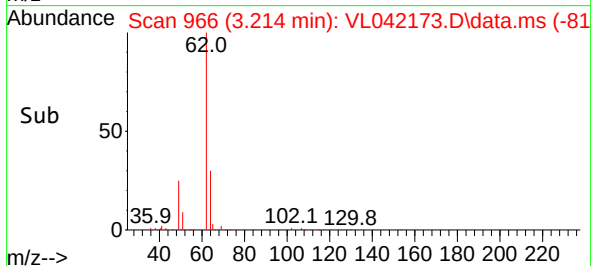
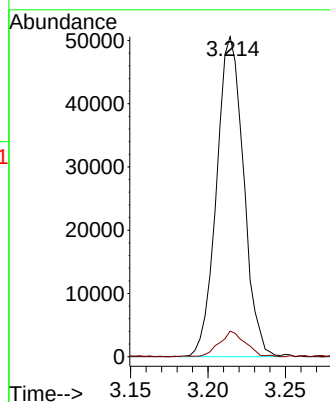
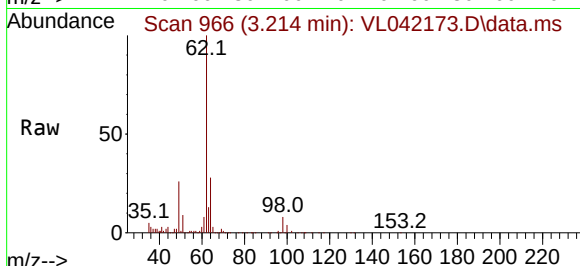
VSTDIC002

Tgt Ion: 62 Resp: 61476

Ion Ratio Lower Upper

62 100

98 7.7 5.4 8.2



#38

Trichloroethene

Concen: 1.924 ppbv

RT: 4.541 min Scan# 1376

Delta R.T. -0.003 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Tgt Ion: 130 Resp: 43501

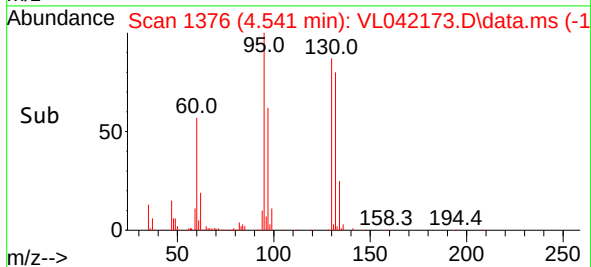
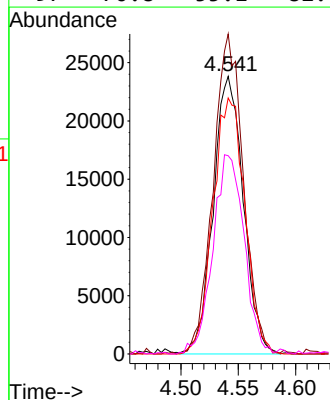
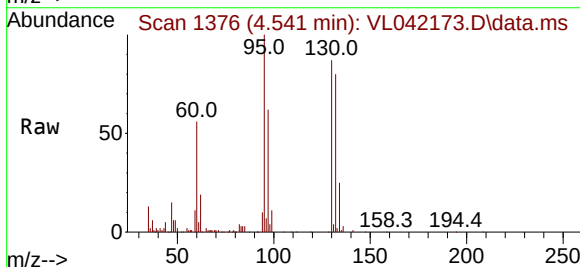
Ion Ratio Lower Upper

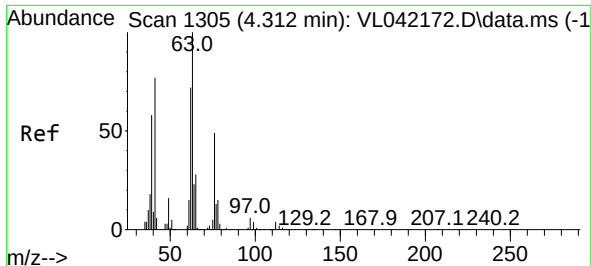
130 100

95 114.8 89.8 134.8

132 92.2 77.4 116.2

97 70.8 55.1 82.7





#39

1,2-Dichloropropane

Concen: 2.023 ppbv

RT: 4.308 min Scan# 1304

Delta R.T. -0.003 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC002

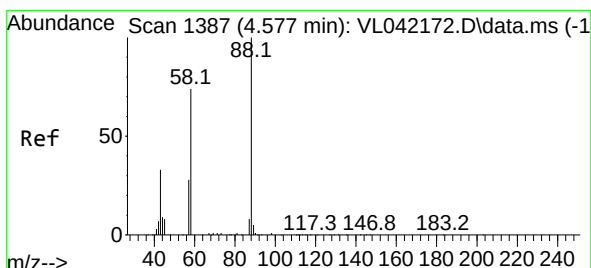
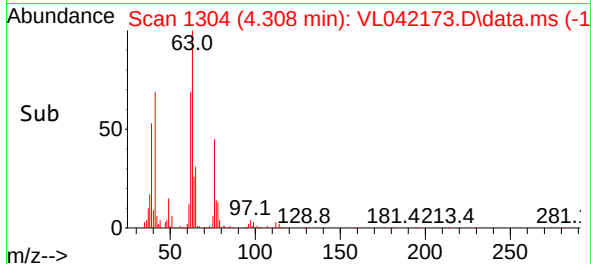
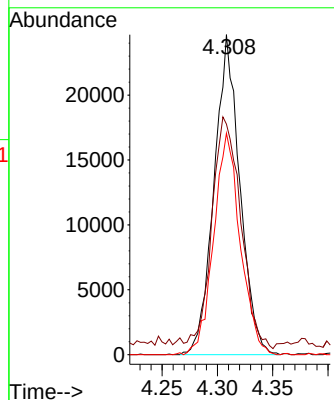
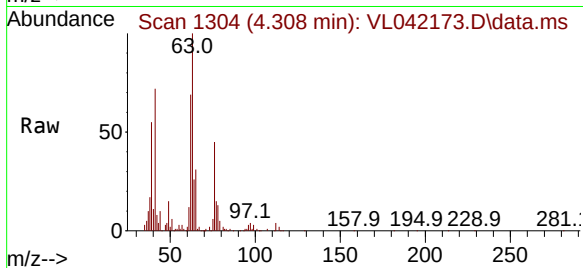
Tgt Ion: 63 Resp: 39912

Ion Ratio Lower Upper

63 100

41 68.6 61.7 92.5

62 69.2 57.6 86.4



#40

1,4-Dioxane

Concen: 1.369 ppbv

RT: 4.587 min Scan# 1390

Delta R.T. 0.009 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Tgt Ion: 88 Resp: 14008

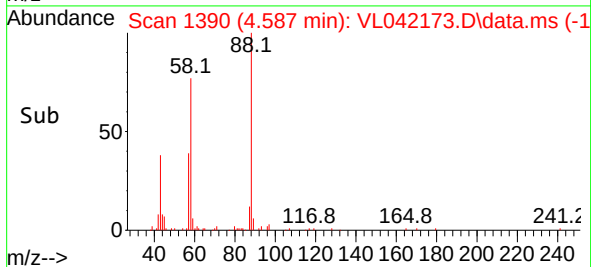
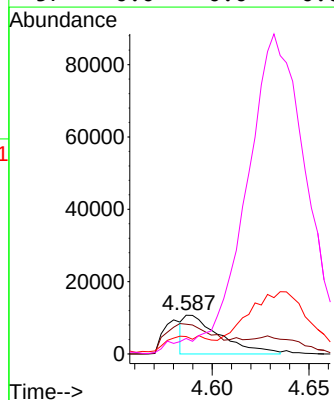
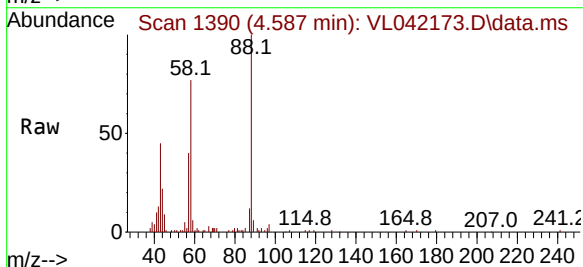
Ion Ratio Lower Upper

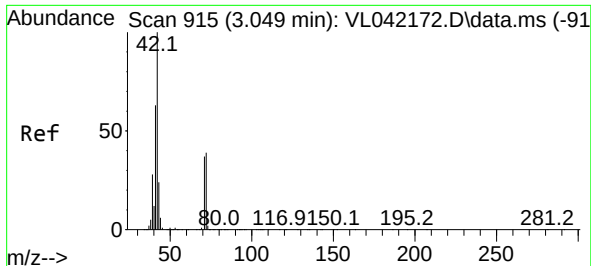
88 100

58 178.2 62.7 94.1#

43 0.0 23.0 34.4#

57 0.0 0.0 0.0





#41

Tetrahydrofuran

Concen: 2.097 ppbv

RT: 3.056 min Scan# 915

Delta R.T. 0.006 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

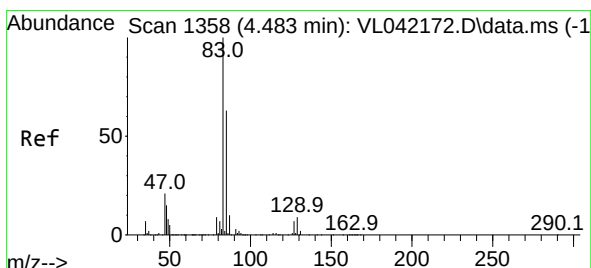
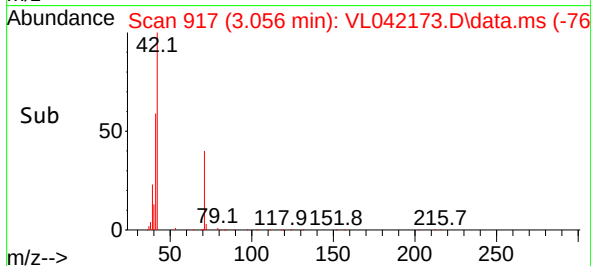
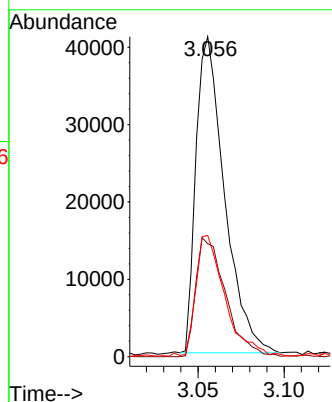
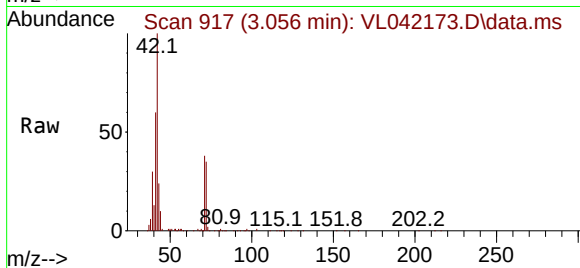
Tgt Ion: 42 Resp: 47262

Ion Ratio Lower Upper

42 100

72 39.6 31.4 47.0

71 39.0 30.2 45.4



#42

Bromodichloromethane

Concen: 2.050 ppbv

RT: 4.483 min Scan# 1358

Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

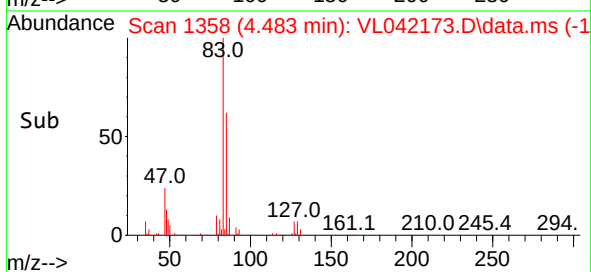
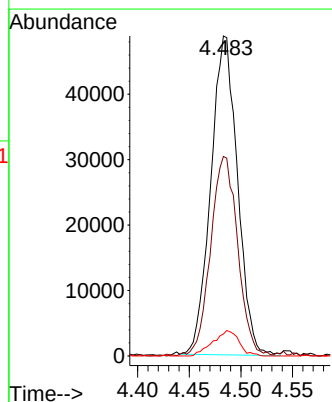
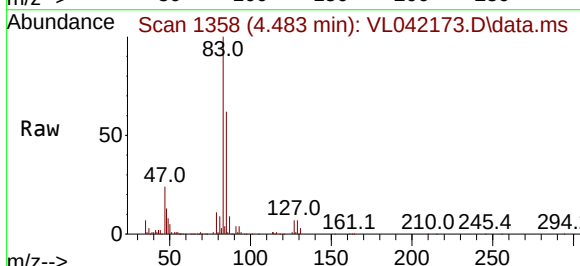
Tgt Ion: 83 Resp: 87640

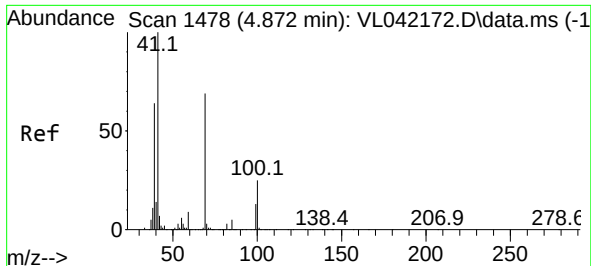
Ion Ratio Lower Upper

83 100

85 62.2 50.5 75.7

127 6.9 5.9 8.9

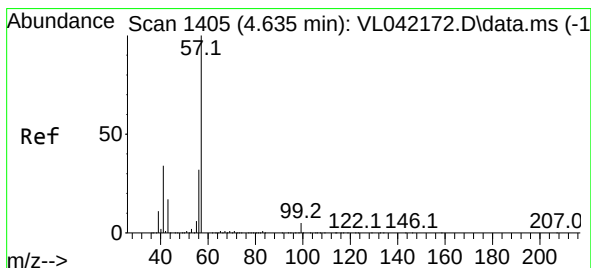
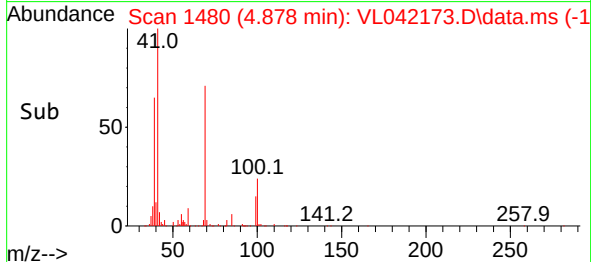
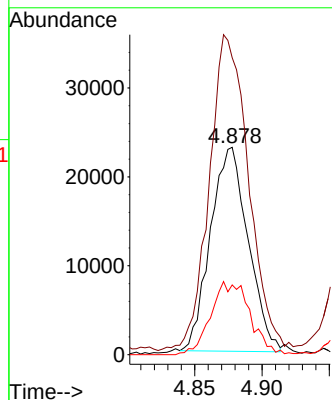
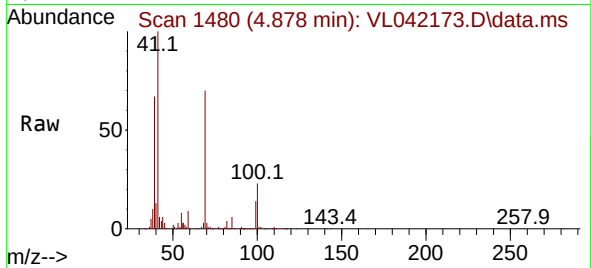




#43
Methyl Methacrylate
Concen: 1.952 ppbv
RT: 4.878 min Scan# 1478
Delta R.T. 0.006 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

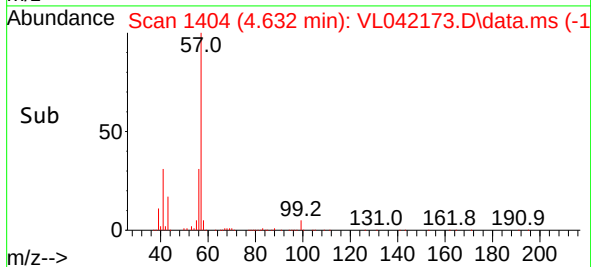
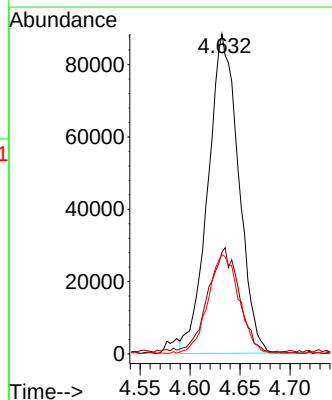
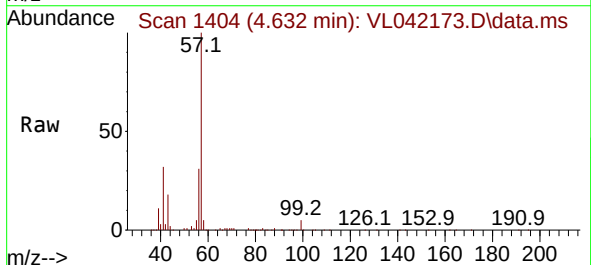
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

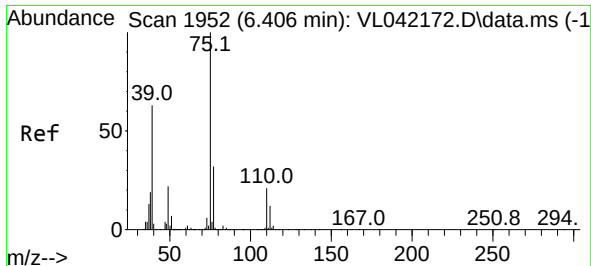
Tgt Ion: 69 Resp: 44624
Ion Ratio Lower Upper
69 100
41 158.7 123.8 185.6
100 37.5 28.4 42.6



#44
2,2,4-Trimethylpentane
Concen: 2.057 ppbv
RT: 4.632 min Scan# 1404
Delta R.T. -0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 57 Resp: 188282
Ion Ratio Lower Upper
57 100
41 33.8 26.8 40.2
56 31.8 25.6 38.4





#45

t-1,3-Dichloropropene

Concen: 2.011 ppbv

RT: 6.406 min Scan# 1952

Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Instrument :

MSVOA_L

ClientSampleId :

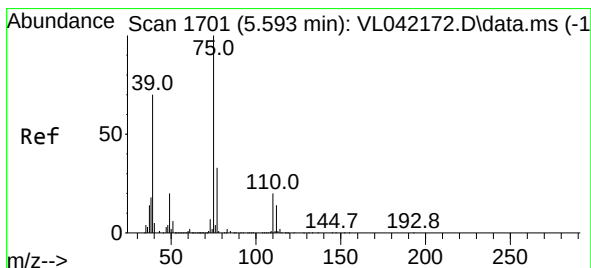
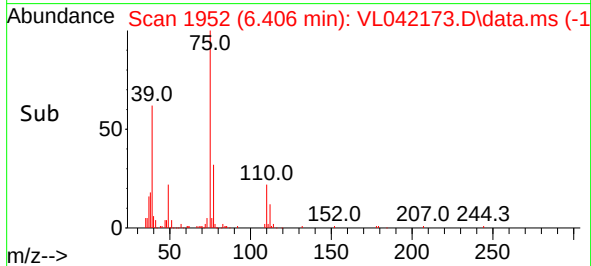
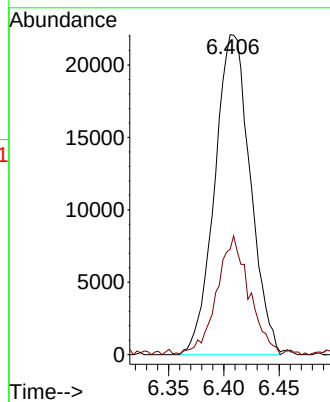
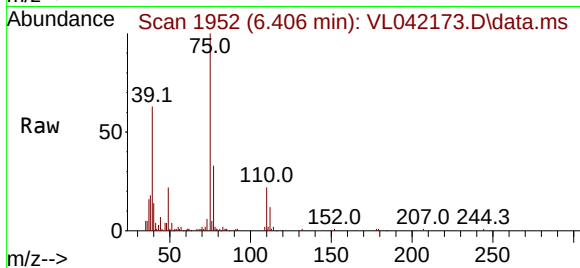
VSTDIC002

Tgt Ion: 75 Resp: 49461

Ion Ratio Lower Upper

75 100

77 32.9 26.0 39.0



#46

cis-1,3-Dichloropropene

Concen: 2.050 ppbv

RT: 5.593 min Scan# 1701

Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

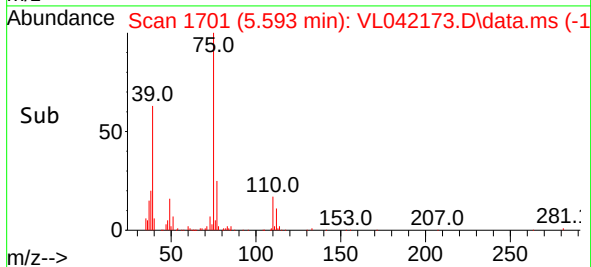
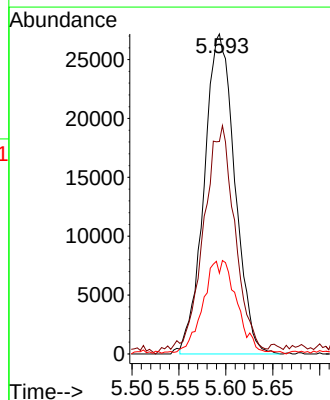
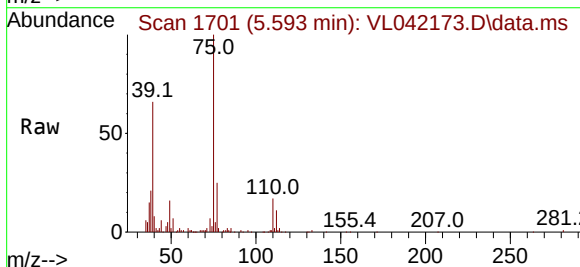
Tgt Ion: 75 Resp: 61829

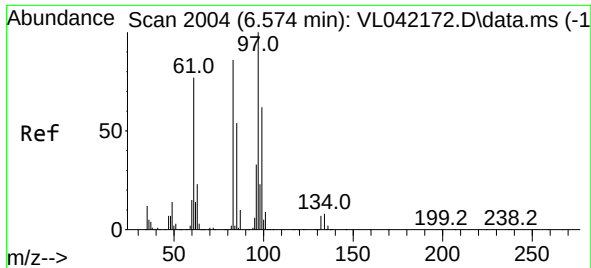
Ion Ratio Lower Upper

75 100

39 64.4 55.8 83.6

77 24.5 26.0 39.0#

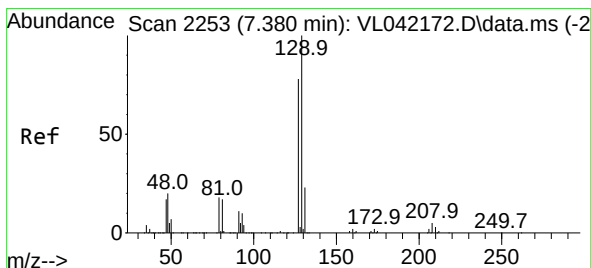
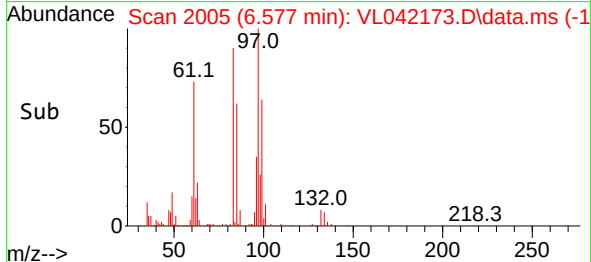
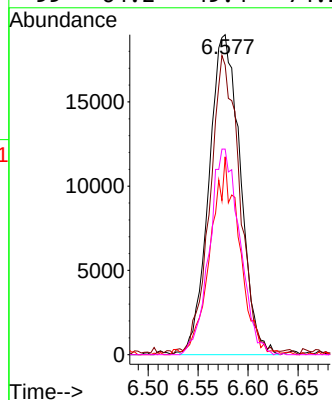
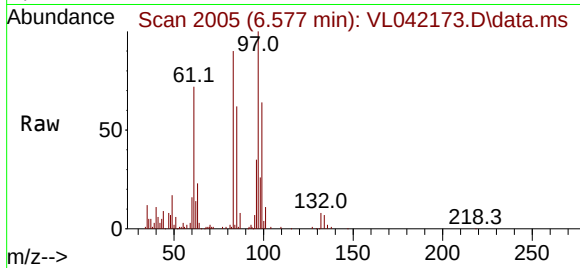




#47
1,1,2-Trichloroethane
Concen: 1.985 ppbv
RT: 6.577 min Scan# 2005
Delta R.T. 0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

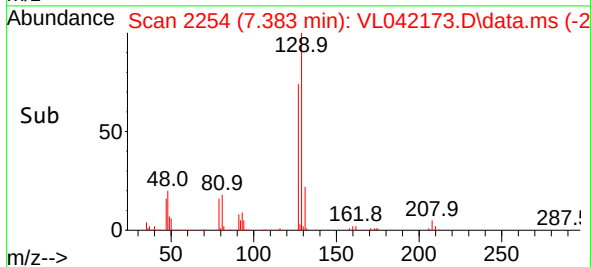
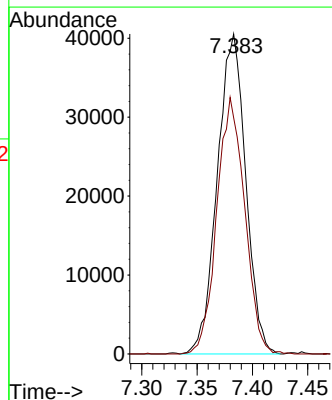
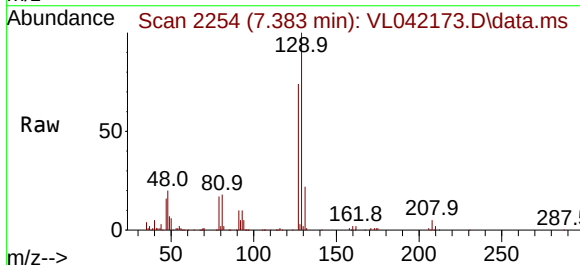
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

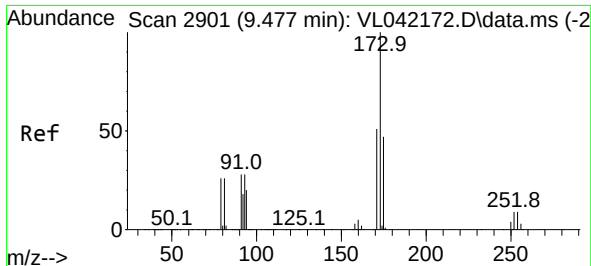
Tgt Ion:	97	Resp:	41387
Ion	Ratio	Lower	Upper
97	100		
83	89.4	69.2	103.8
85	61.3	43.1	64.7
99	64.2	49.4	74.2



#48
Dibromochloromethane
Concen: 2.050 ppbv
RT: 7.383 min Scan# 2254
Delta R.T. 0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion:	129	Resp:	72441
Ion	Ratio	Lower	Upper
129	100		
127	78.5	39.1	117.2

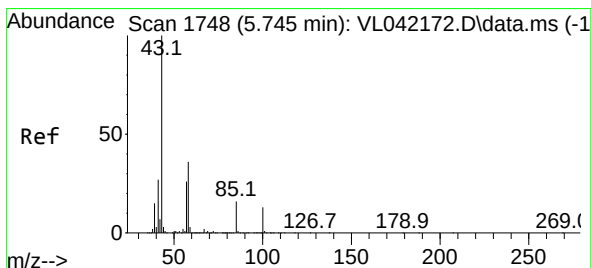
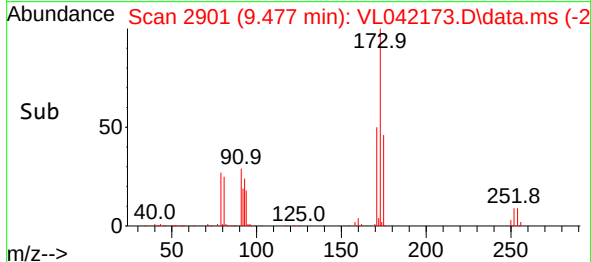
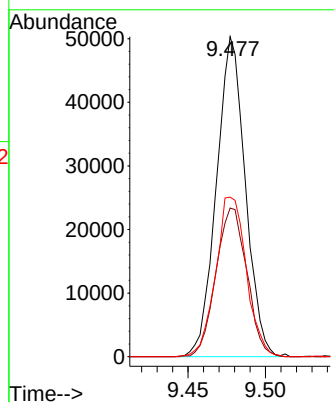
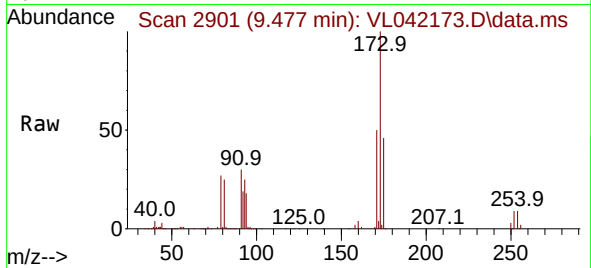




#49
Bromoform
Concen: 2.056 ppbv
RT: 9.477 min Scan# 2901
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

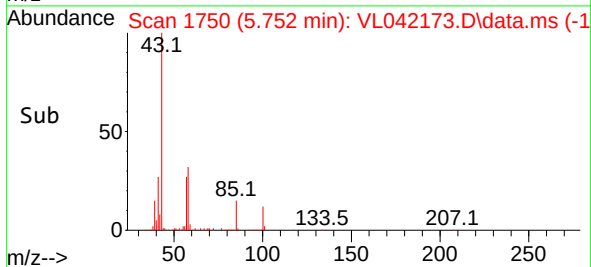
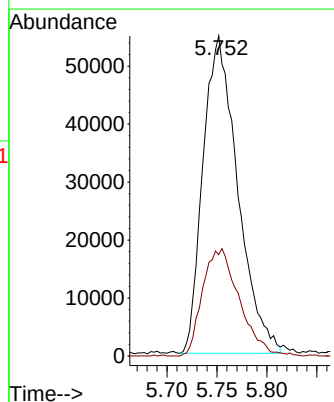
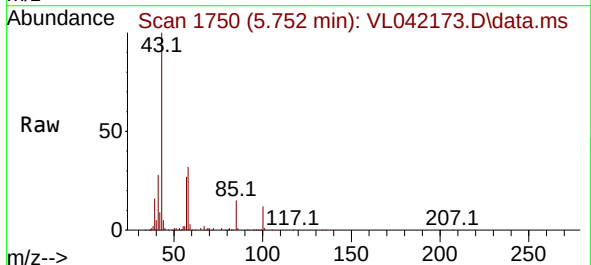
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

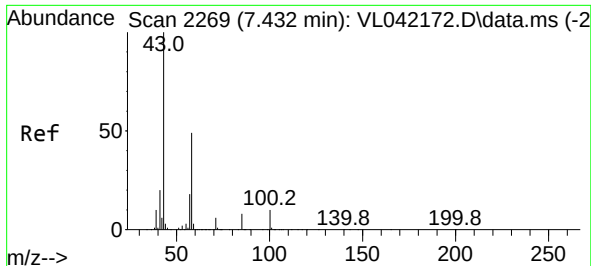
Tgt Ion:173 Resp: 65221
Ion Ratio Lower Upper
173 100
175 49.7 38.6 57.8
171 53.0 41.8 62.6



#50
4-Methyl-2-Pentanone
Concen: 2.107 ppbv
RT: 5.752 min Scan# 1750
Delta R.T. 0.006 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 43 Resp: 132328
Ion Ratio Lower Upper
43 100
58 35.9 29.0 43.6

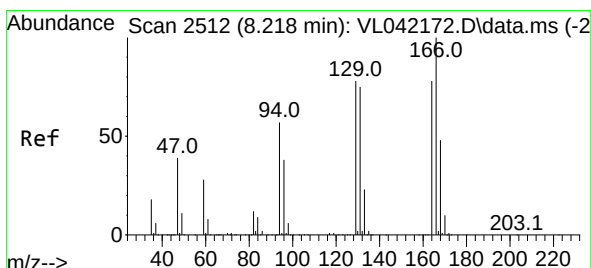
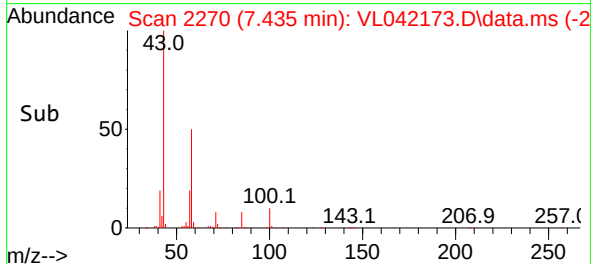
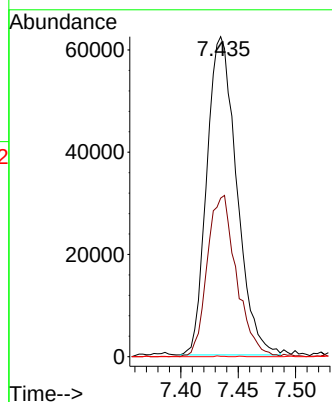
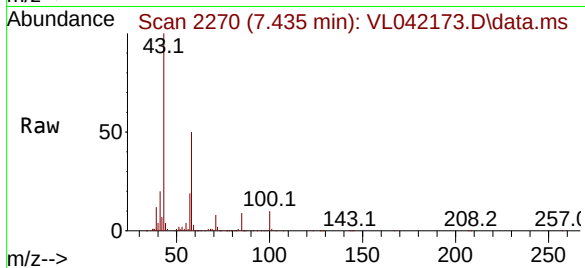




#51
2-Hexanone
Concen: 2.162 ppbv
RT: 7.435 min Scan# 2113
Delta R.T. 0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

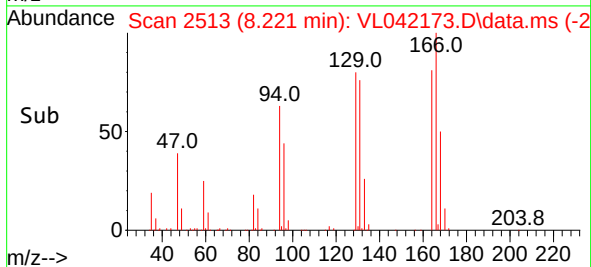
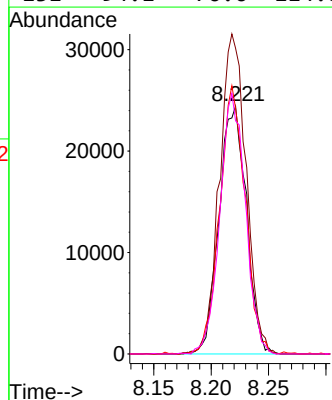
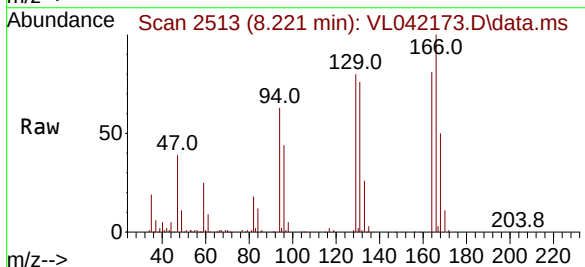
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC002

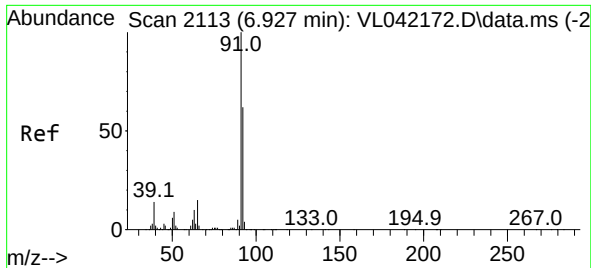
Tgt Ion: 43 Resp: 112681
Ion Ratio Lower Upper
43 100
58 50.0 39.7 59.5
98 0.0 0.1 0.1#



#52
Tetrachloroethene
Concen: 1.888 ppbv
RT: 8.221 min Scan# 2513
Delta R.T. 0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 164 Resp: 40558
Ion Ratio Lower Upper
164 100
166 123.4 102.5 153.7
129 99.2 79.8 119.8
131 94.1 76.6 114.8

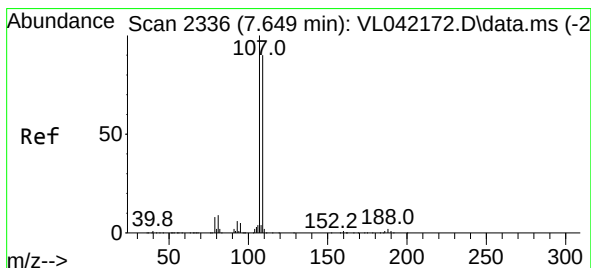
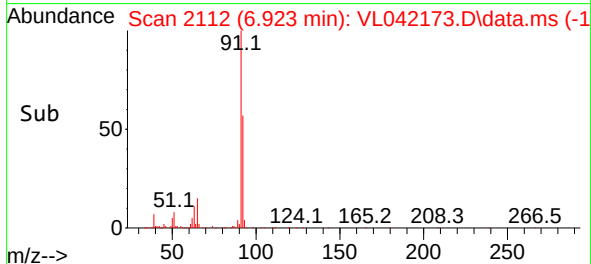
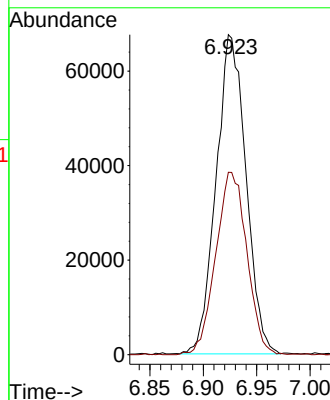
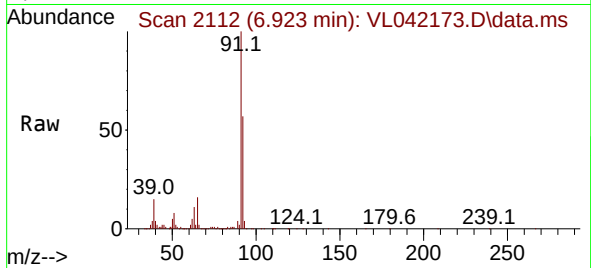




#53
Toluene
Concen: 2.045 ppbv
RT: 6.923 min Scan# 2113
Delta R.T. -0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

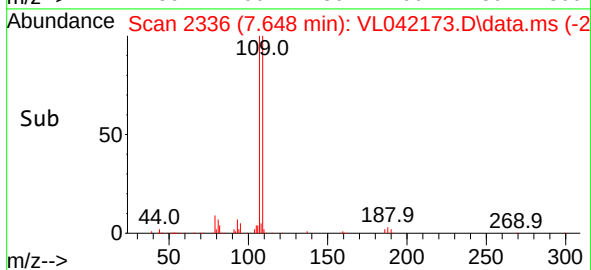
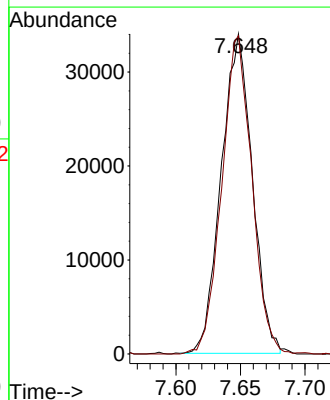
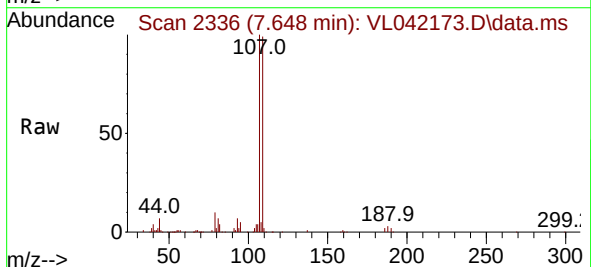
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

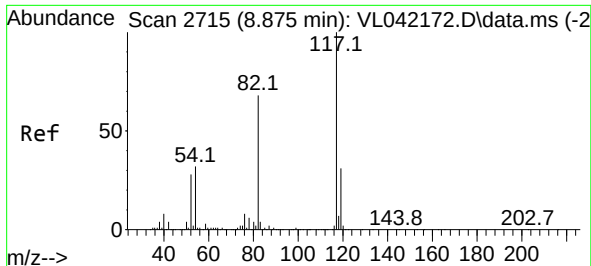
Tgt Ion: 91 Resp: 131314
Ion Ratio Lower Upper
91 100
92 59.6 48.4 72.6



#54
1,2-Dibromoethane
Concen: 1.952 ppbv
RT: 7.648 min Scan# 2336
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 107 Resp: 56799
Ion Ratio Lower Upper
107 100
109 99.7 72.2 108.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.875 min Scan# 2715

Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

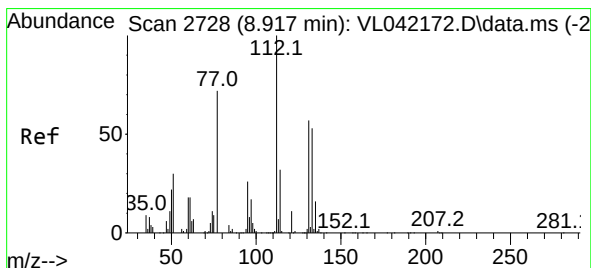
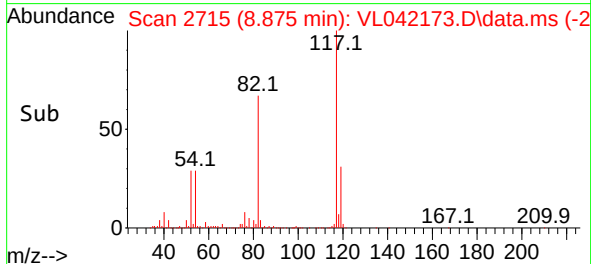
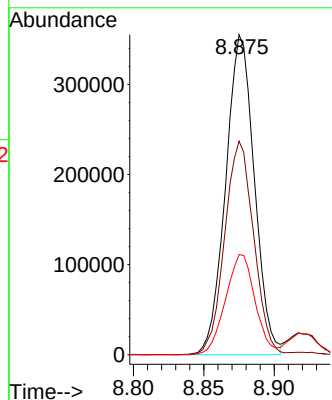
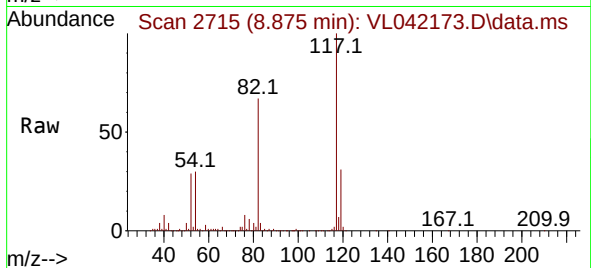
Tgt Ion:117 Resp: 504538

Ion Ratio Lower Upper

117 100

82 68.2 55.8 83.6

119 33.0 25.5 38.3



#56

1,1,1,2-Tetrachloroethane

Concen: 2.093 ppbv

RT: 8.920 min Scan# 2729

Delta R.T. 0.003 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

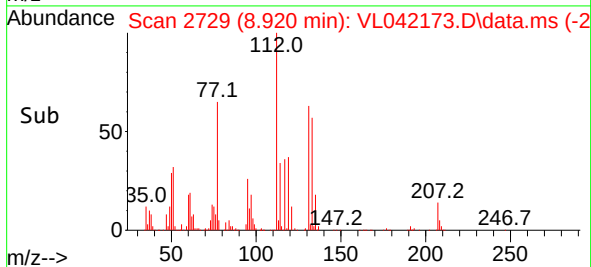
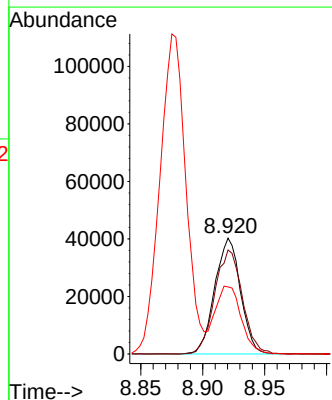
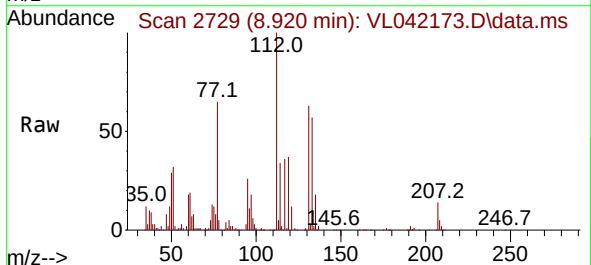
Tgt Ion:131 Resp: 58141

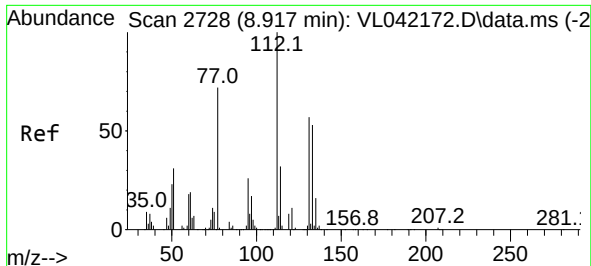
Ion Ratio Lower Upper

131 100

133 96.6 76.6 114.8

119 58.3 49.8 74.6

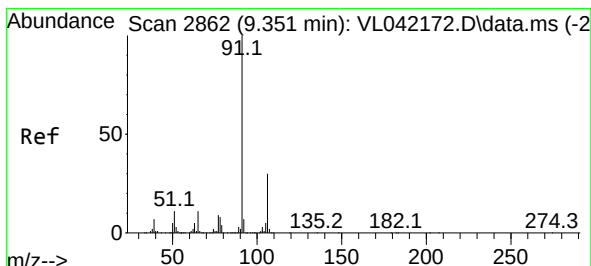
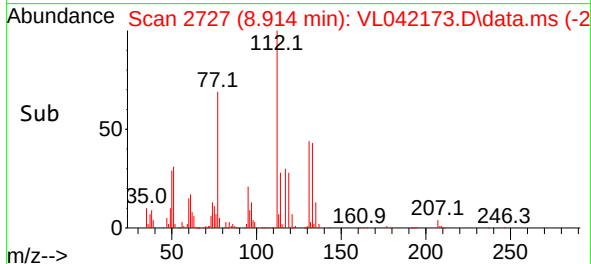
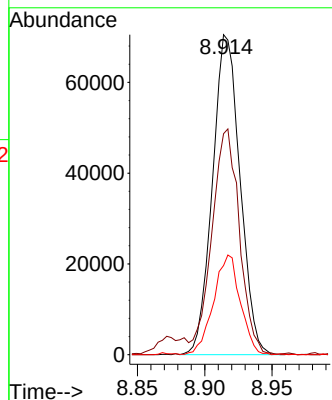
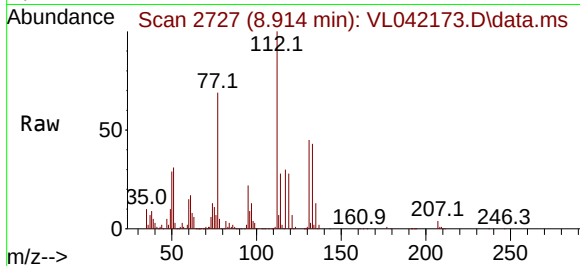




#57
Chlorobenzene
Concen: 2.096 ppbv
RT: 8.914 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

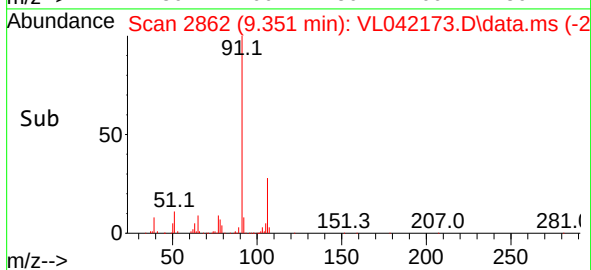
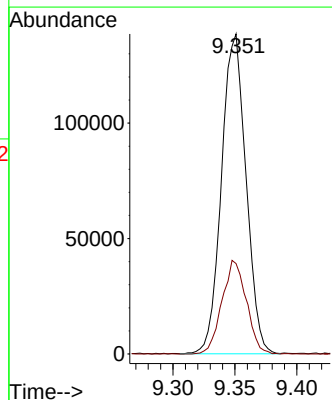
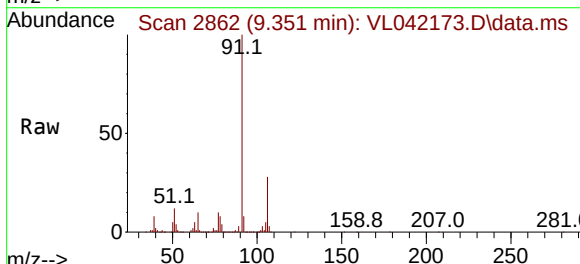
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC002

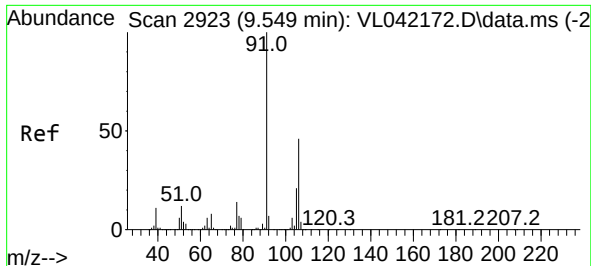
Tgt Ion:112 Resp: 100308
Ion Ratio Lower Upper
112 100
77 68.8 58.2 87.2
114 27.8 29.1 35.5#



#58
Ethyl Benzene
Concen: 2.132 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 91 Resp: 191114
Ion Ratio Lower Upper
91 100
106 28.3 24.2 36.2

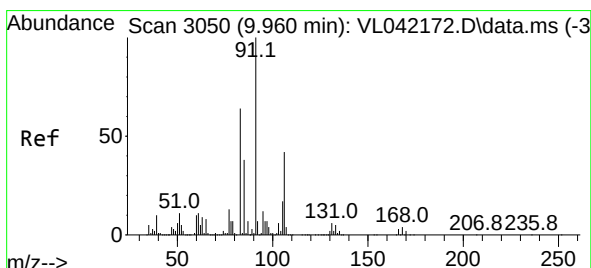
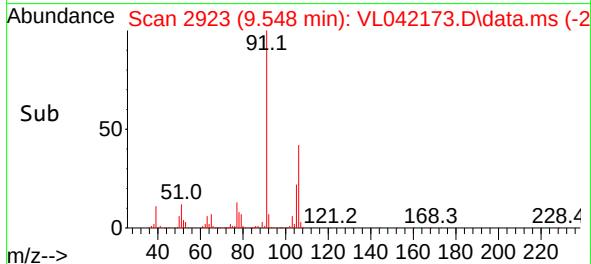
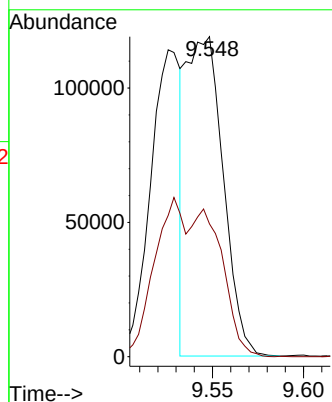
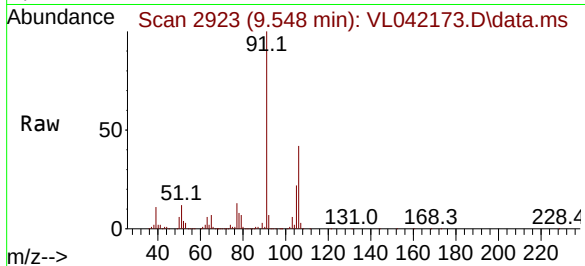




#59
m/p-Xylene
Concen: 2.333 ppbv
RT: 9.548 min Scan# 2923
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

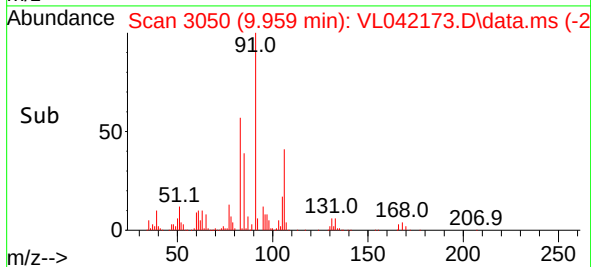
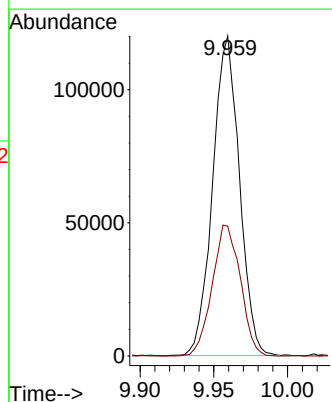
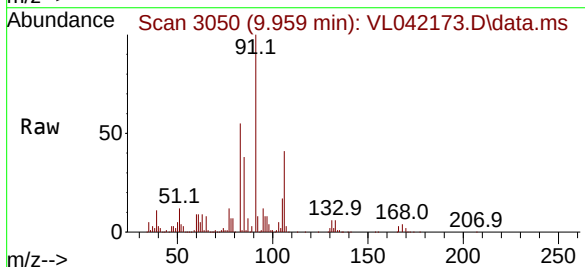
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

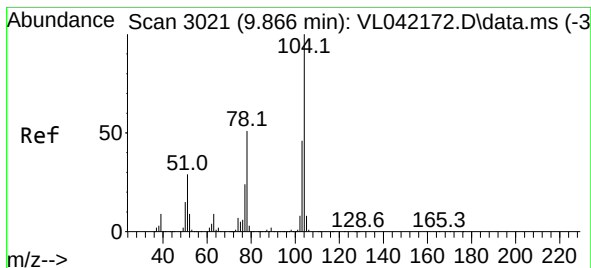
Tgt Ion: 91 Resp: 167182
Ion Ratio Lower Upper
91 100
106 0.0 36.4 54.6#



#60
o-Xylene
Concen: 2.109 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 91 Resp: 151292
Ion Ratio Lower Upper
91 100
106 43.2 20.8 62.5





#61

Styrene

Concen: 2.089 ppbv

RT: 9.865 min Scan# 3021

Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

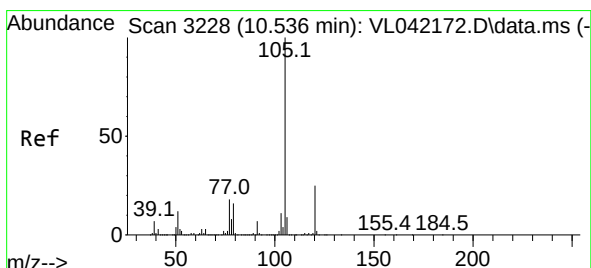
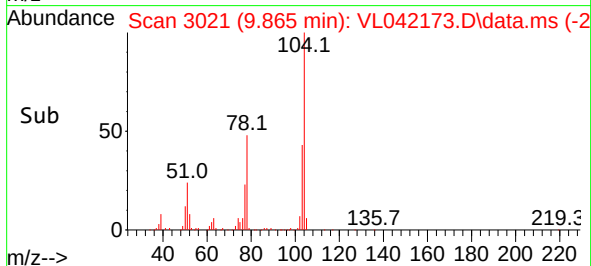
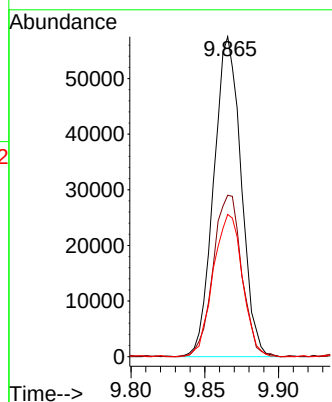
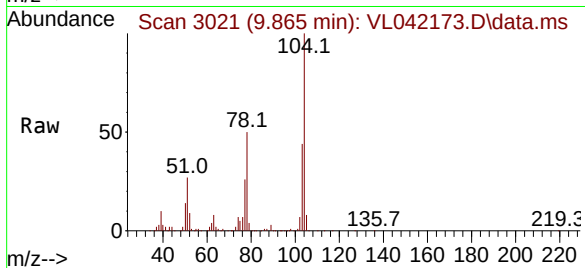
Tgt Ion:104 Resp: 74134

Ion Ratio Lower Upper

104 100

78 52.8 41.8 62.6

103 47.8 37.0 55.4



#62

Isopropylbenzene

Concen: 2.127 ppbv

RT: 10.535 min Scan# 3228

Delta R.T. -0.000 min

Lab File: VL042173.D

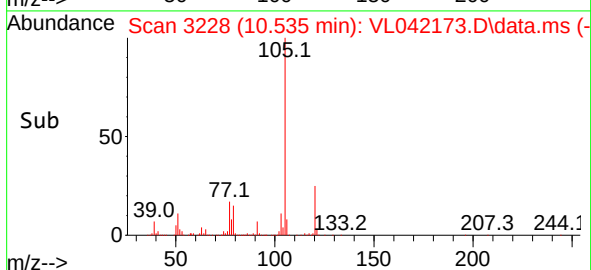
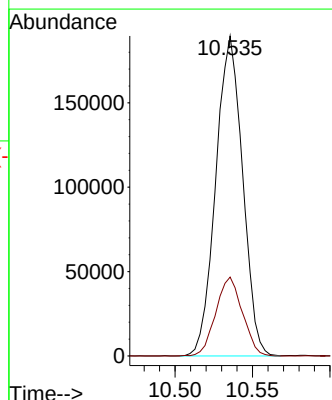
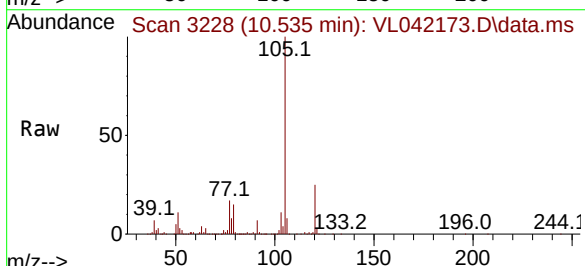
Acq: 27 Mar 2025 08:59

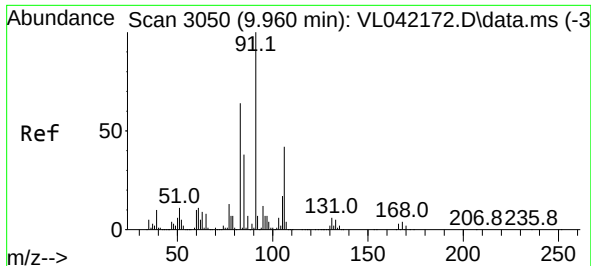
Tgt Ion:105 Resp: 228191

Ion Ratio Lower Upper

105 100

120 24.4 19.9 29.9

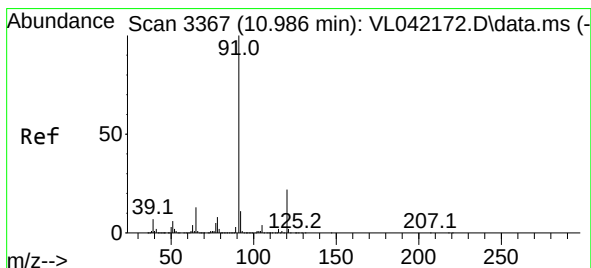
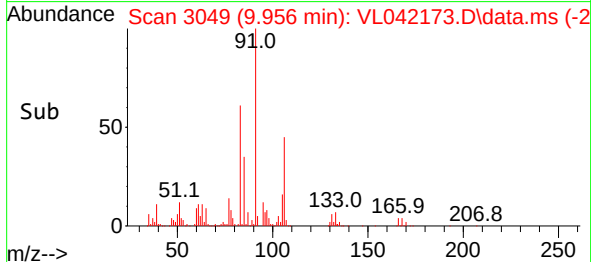
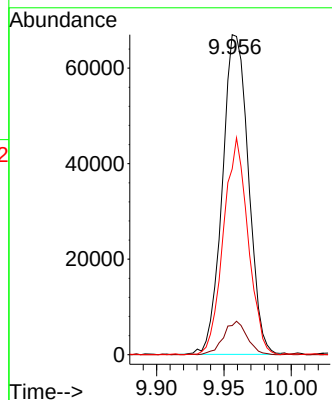
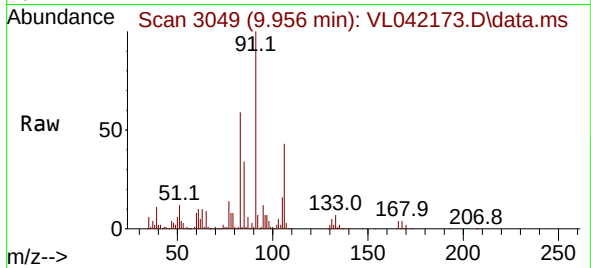




#63
1,1,2,2-Tetrachloroethane
Concen: 2.067 ppbv
RT: 9.956 min Scan# 3050
Delta R.T. -0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

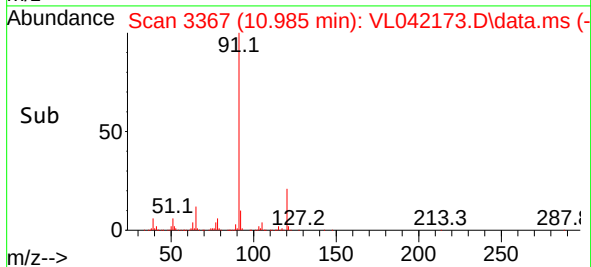
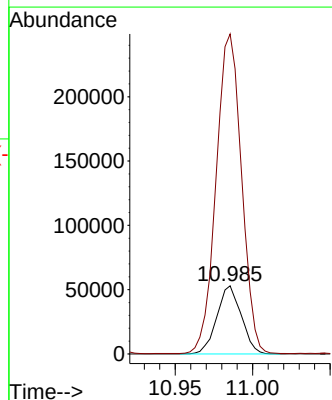
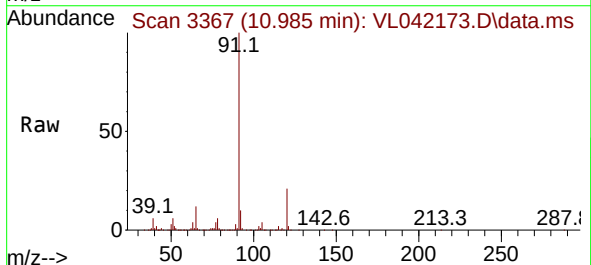
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

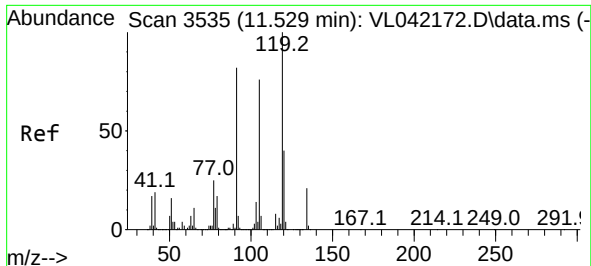
Tgt Ion: 83 Resp: 90114
Ion Ratio Lower Upper
83 100
131 9.5 4.8 14.4
85 64.4 32.5 97.5



#64
n-propylbenzene
Concen: 2.104 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 120 Resp: 58105
Ion Ratio Lower Upper
120 100
91 491.1 376.9 565.3

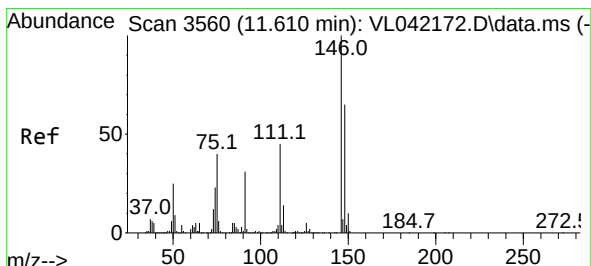
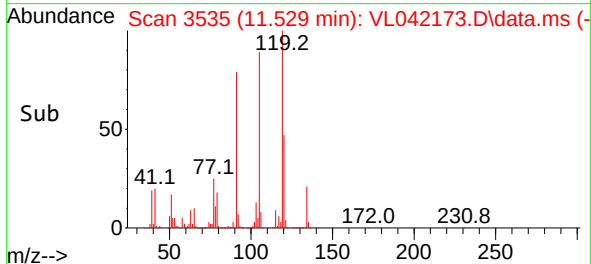
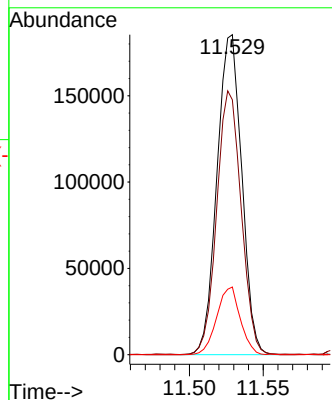
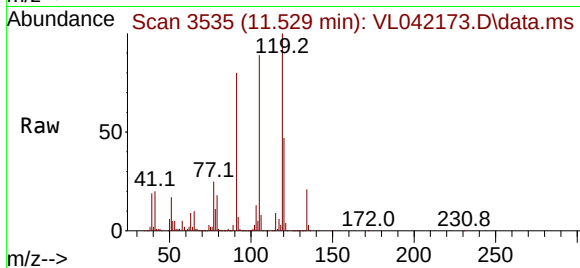




#65
tert-Butylbenzene
Concen: 2.180 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

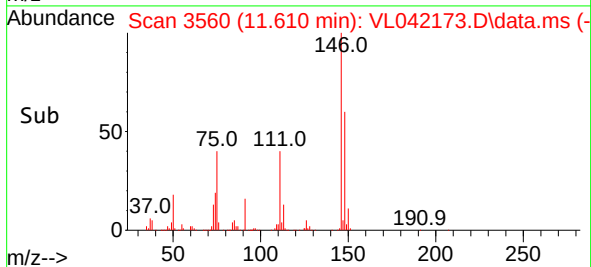
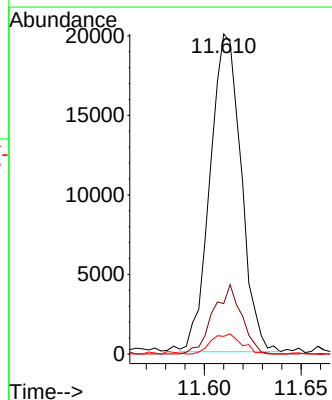
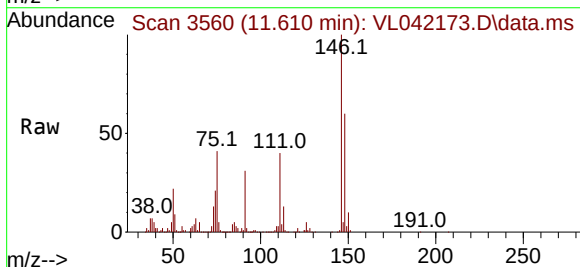
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC002

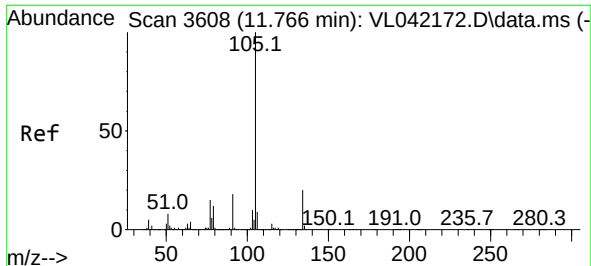
Tgt Ion:119 Resp: 216336
Ion Ratio Lower Upper
119 100
91 81.5 66.0 99.0
134 20.2 16.7 25.1



#66
Benzyl Chloride
Concen: 2.116 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 91 Resp: 22272
Ion Ratio Lower Upper
91 100
126 20.0 13.8 20.6
128 6.5 4.5 6.7

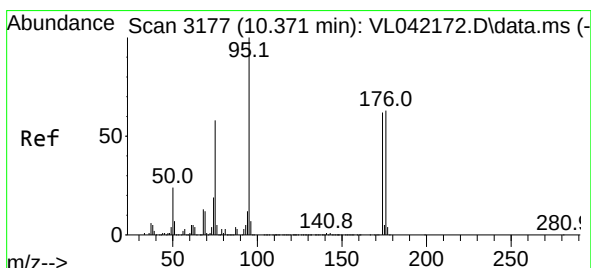
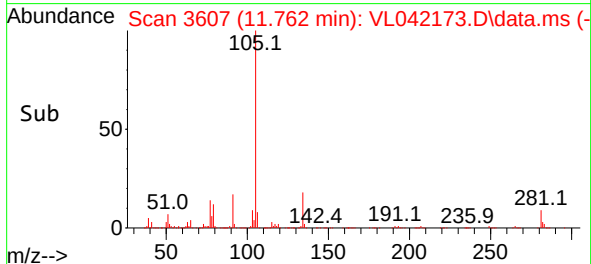
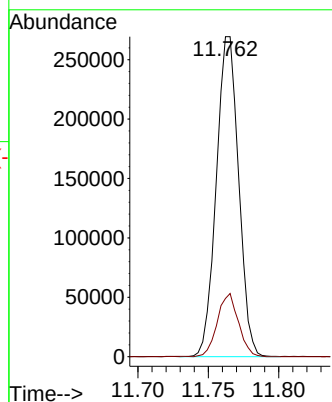
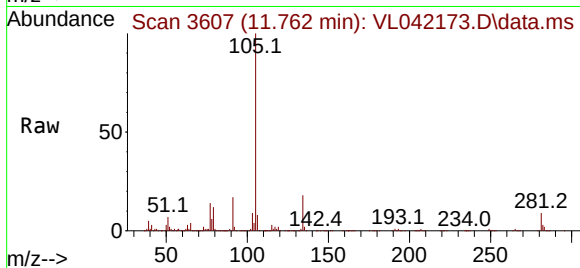




#67
sec-Butylbenzene
Concen: 2.156 ppbv
RT: 11.762 min Scan# 3607
Delta R.T. -0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

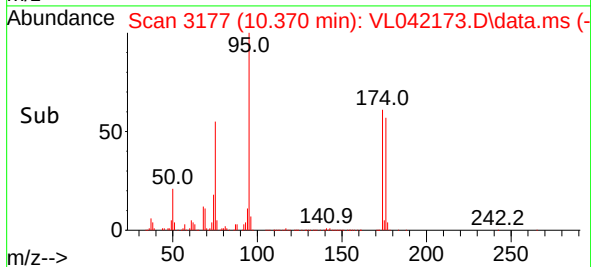
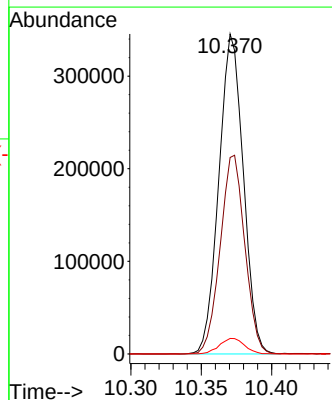
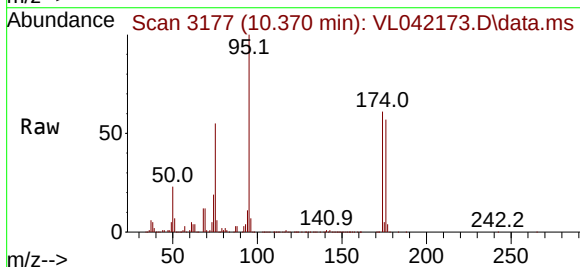
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC002

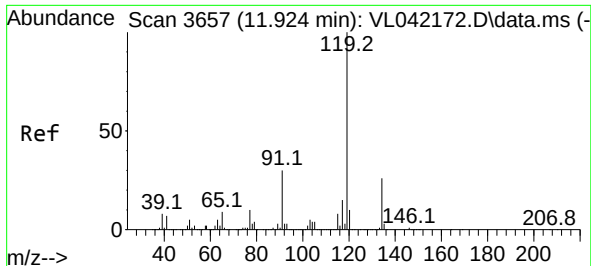
Tgt Ion:105 Resp: 297381
Ion Ratio Lower Upper
105 100
134 18.8 15.5 23.3



#68
1-Bromo-4-Fluorobenzene
Concen: 10.077 ppbv
RT: 10.370 min Scan# 3177
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 95 Resp: 417532
Ion Ratio Lower Upper
95 100
174 62.6 50.6 76.0
175 5.0 3.8 5.6

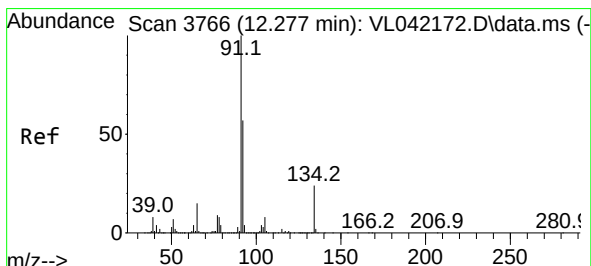
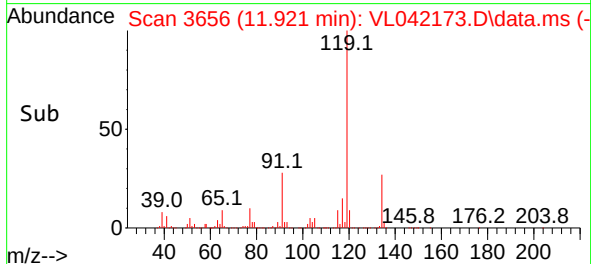
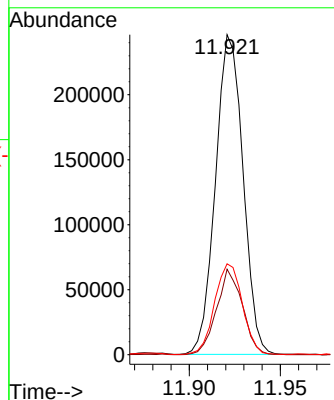
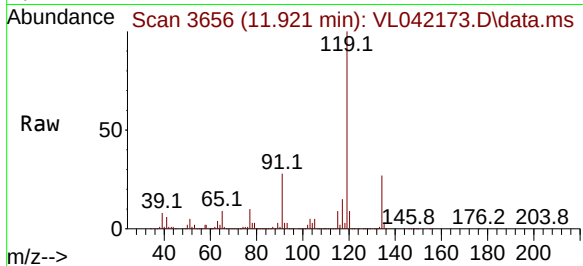




#69
p-Isopropyltoluene
Concen: 2.176 ppbv
RT: 11.921 min Scan# 3656
Delta R.T. -0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

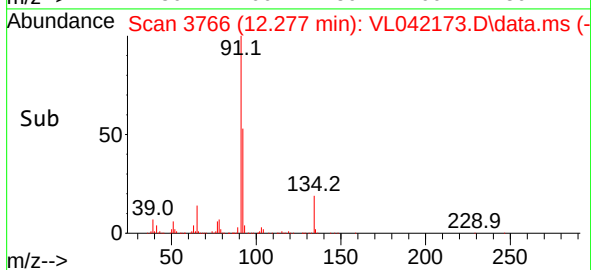
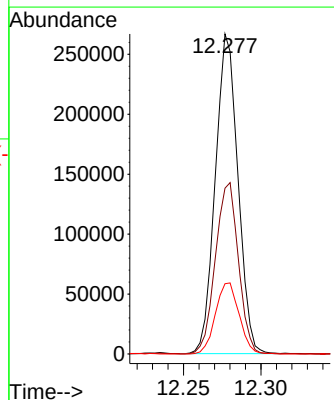
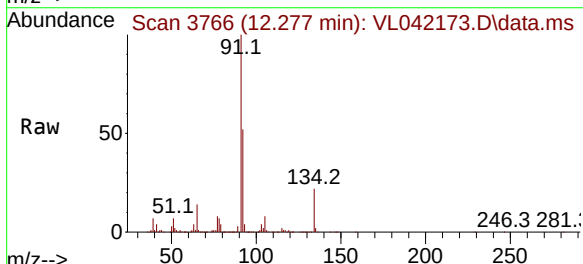
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC002

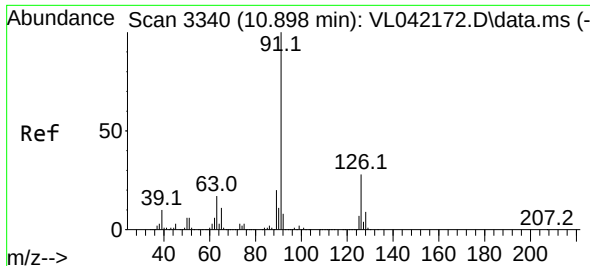
Tgt Ion:119 Resp: 258357
Ion Ratio Lower Upper
119 100
134 25.2 20.4 30.6
91 29.5 23.7 35.5



#70
n-Butylbenzene
Concen: 2.228 ppbv
RT: 12.277 min Scan# 3766
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 91 Resp: 270616
Ion Ratio Lower Upper
91 100
92 55.1 44.9 67.3
134 23.3 19.2 28.8

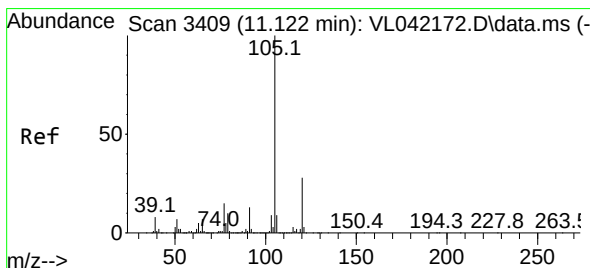
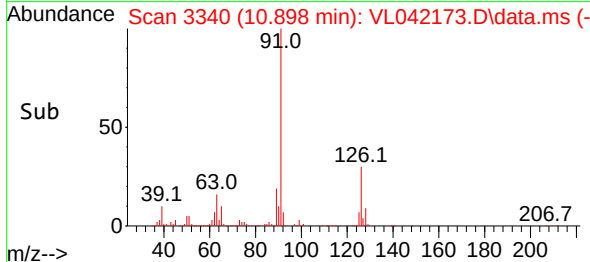
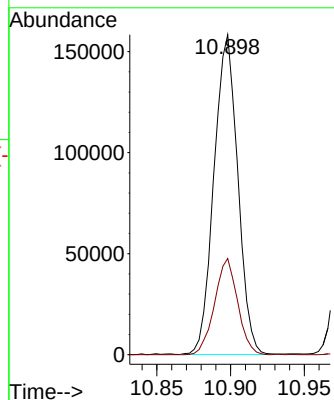
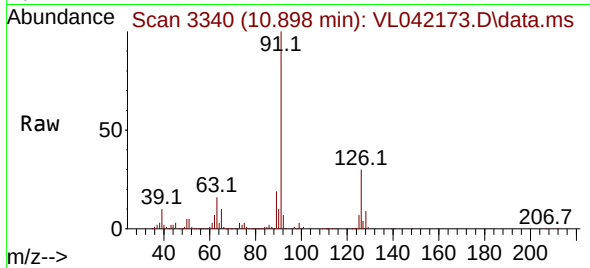




#71
2-Chlorotoluene
Concen: 2.132 ppbv
RT: 10.898 min Scan# 311
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

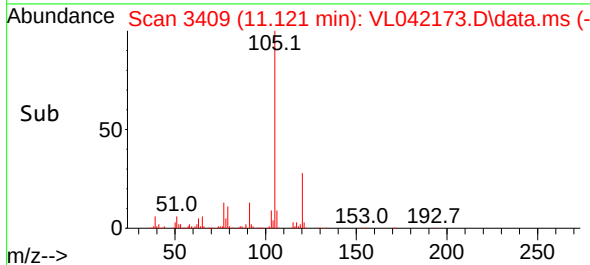
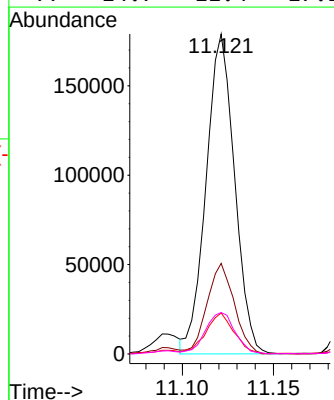
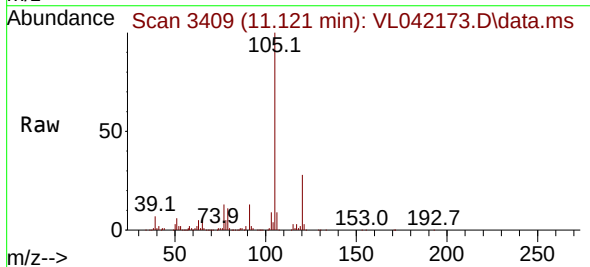
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

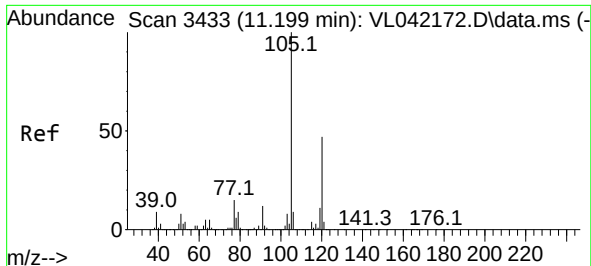
Tgt Ion: 91 Resp: 177487
Ion Ratio Lower Upper
91 100
126 29.2 11.6 46.4



#72
4-Ethyltoluene
Concen: 2.179 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 105 Resp: 194660
Ion Ratio Lower Upper
105 100
120 29.1 23.4 35.0
91 13.7 10.3 15.5
77 14.7 11.4 17.2

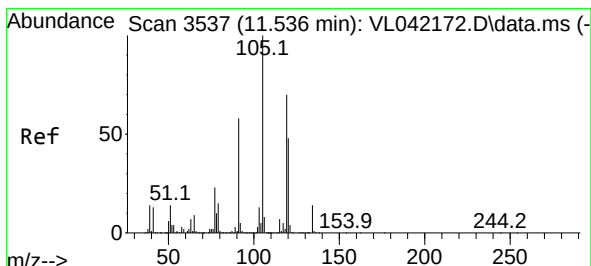
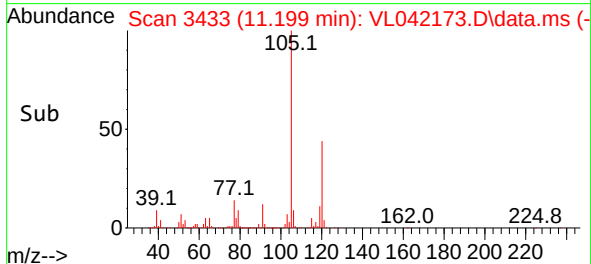
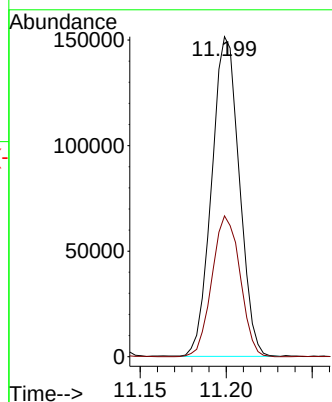
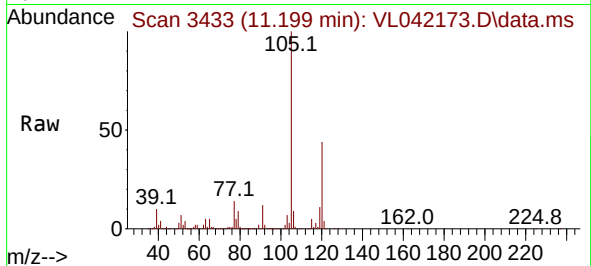




#73
1,3,5-Trimethylbenzene
Concen: 2.169 ppbv
RT: 11.199 min Scan# 3433
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

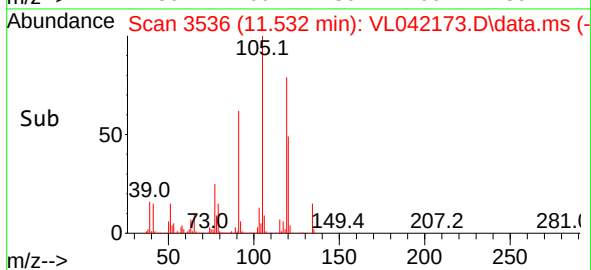
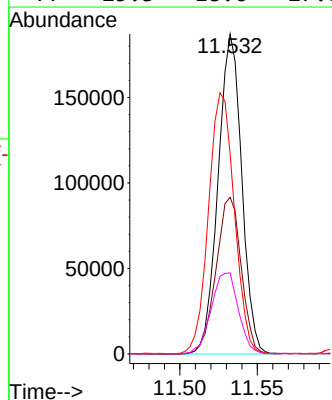
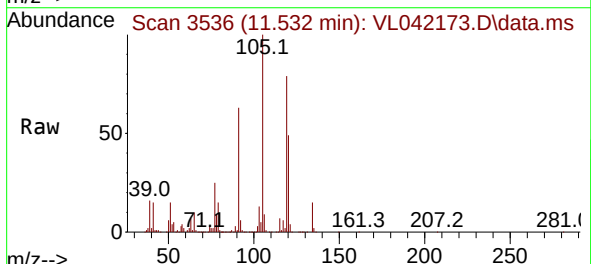
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC002

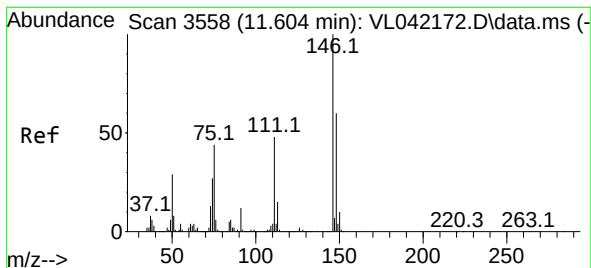
Tgt Ion:105 Resp: 169221
Ion Ratio Lower Upper
105 100
120 44.0 37.4 56.0



#74
1,2,4-Trimethylbenzene
Concen: 2.207 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. -0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion:105 Resp: 198351
Ion Ratio Lower Upper
105 100
120 49.0 38.6 58.0
91 62.4 46.2 69.2
77 25.3 18.6 27.8





#75

1,3-Dichlorobenzene

Concen: 2.175 ppbv

RT: 11.604 min Scan# 3558

Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC002

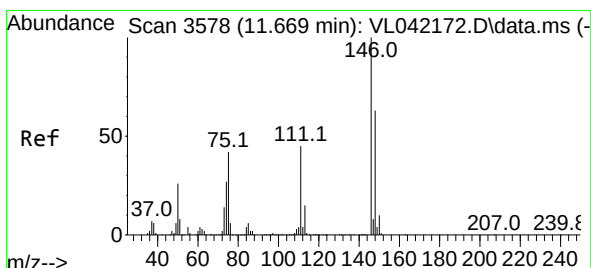
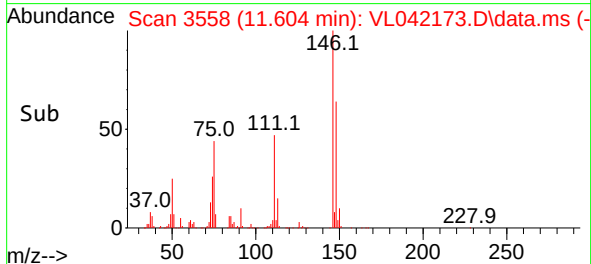
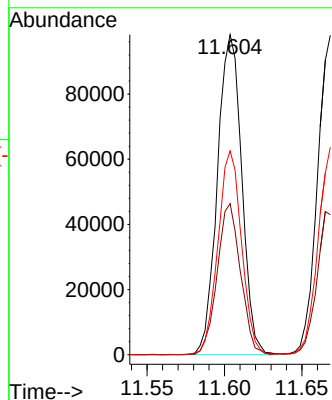
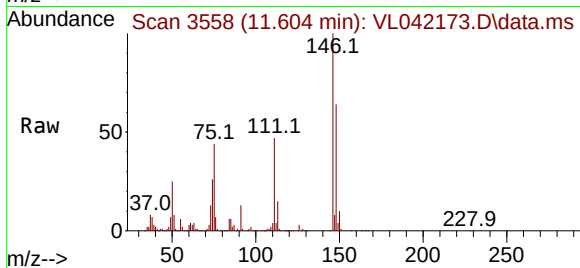
Tgt Ion:146 Resp: 107217

Ion Ratio Lower Upper

146 100

111 45.5 23.8 71.2

148 61.6 31.9 95.9



#76

1,4-Dichlorobenzene

Concen: 2.139 ppbv

RT: 11.668 min Scan# 3578

Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

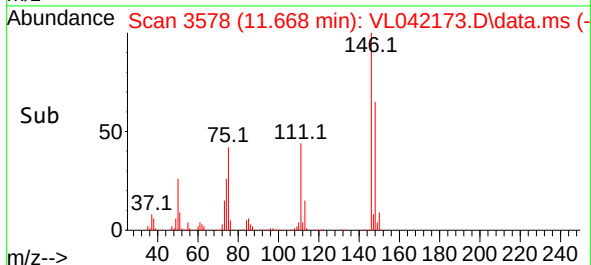
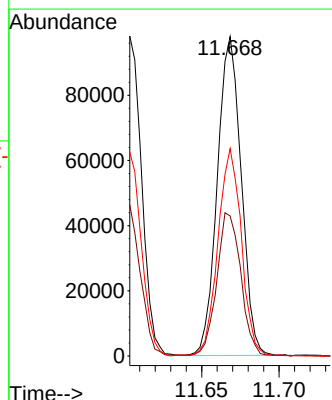
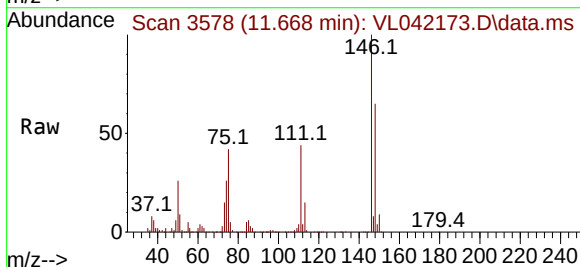
Tgt Ion:146 Resp: 104925

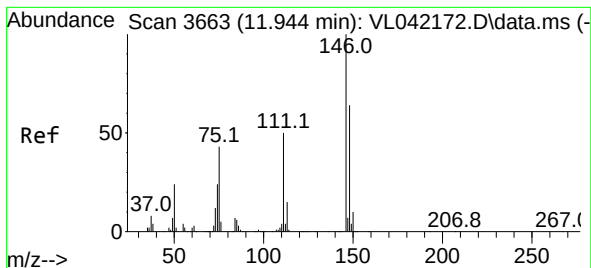
Ion Ratio Lower Upper

146 100

111 45.3 23.0 69.0

148 64.0 31.9 95.7





#77

1,2-Dichlorobenzene

Concen: 2.132 ppbv

RT: 11.943 min Scan# 3663

Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

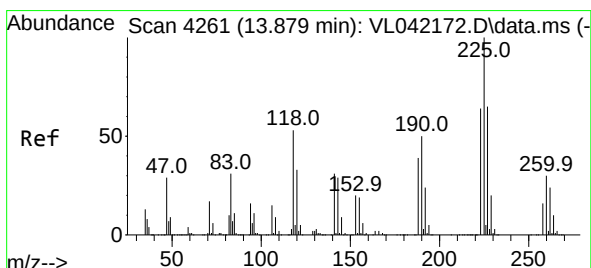
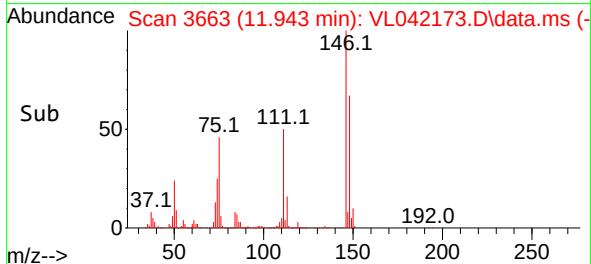
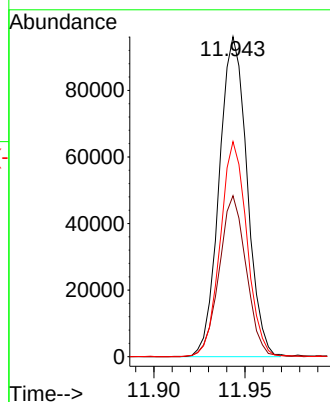
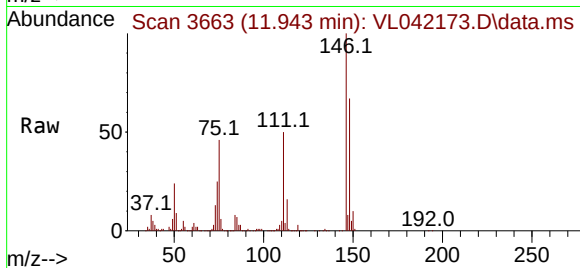
Tgt Ion:146 Resp: 102310

Ion Ratio Lower Upper

146 100

111 48.8 24.8 74.3

148 64.6 31.6 94.8



#78

Hexachloro-1,3-Butadiene

Concen: 2.242 ppbv

RT: 13.879 min Scan# 4261

Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

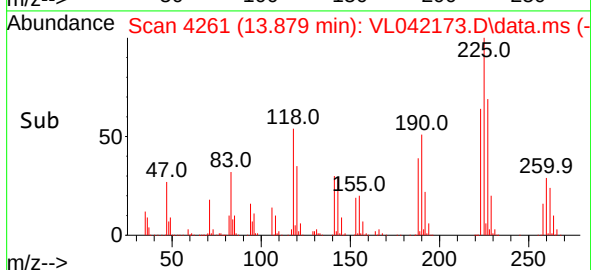
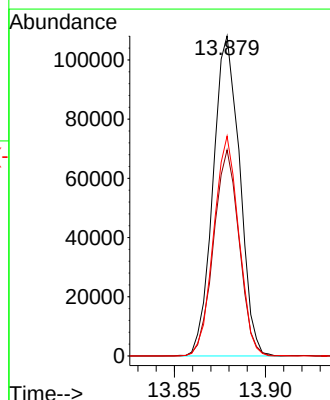
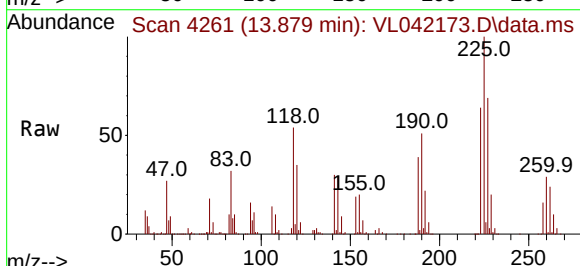
Tgt Ion:225 Resp: 109539

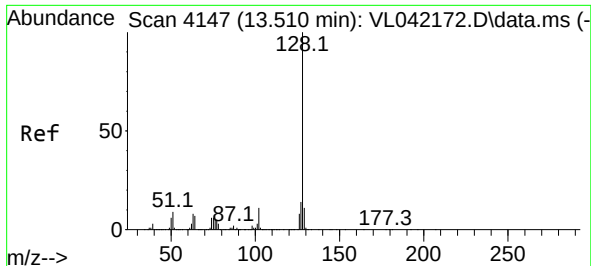
Ion Ratio Lower Upper

225 100

223 62.2 50.6 76.0

227 64.9 51.2 76.8

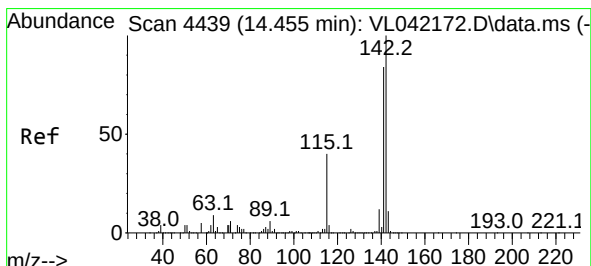
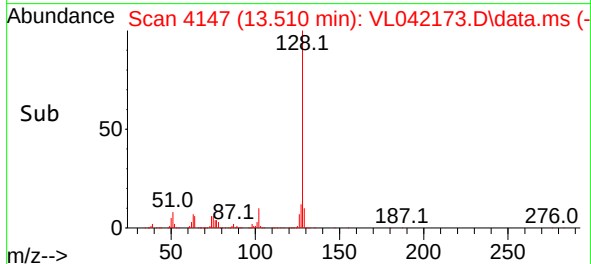
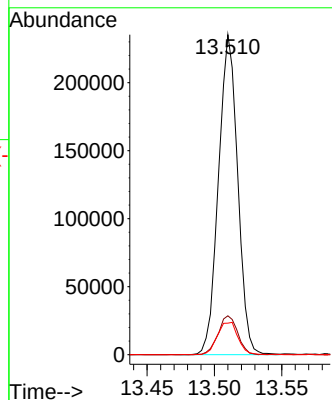
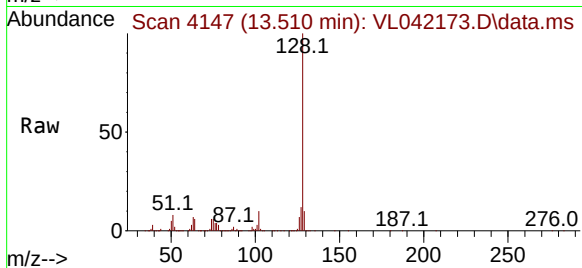




#79
Naphthalene
Concen: 2.375 ppbv
RT: 13.510 min Scan# 4147
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

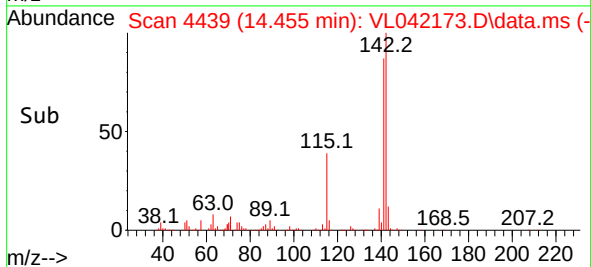
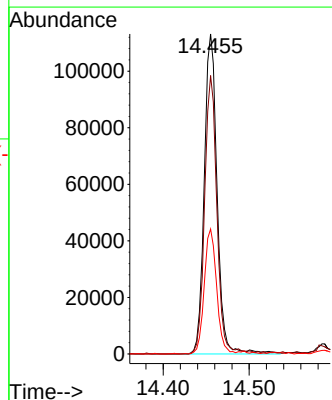
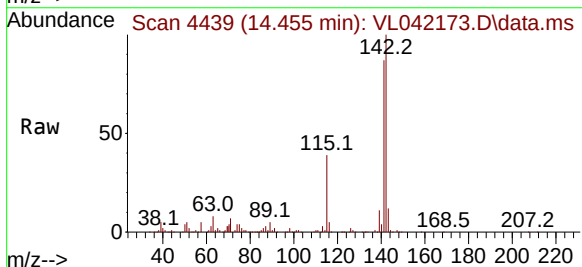
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC002

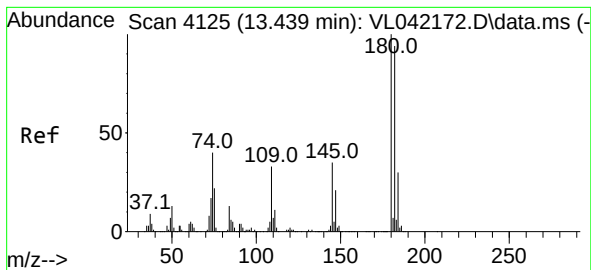
Tgt Ion:128 Resp: 233451
Ion Ratio Lower Upper
128 100
127 12.1 10.8 16.2
129 9.9 9.0 13.4



#80
Naphthalene,2-methyl-
Concen: 2.451 ppbv
RT: 14.455 min Scan# 4439
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion:142 Resp: 117313
Ion Ratio Lower Upper
142 100
141 83.5 66.3 99.5
115 38.5 31.6 47.4

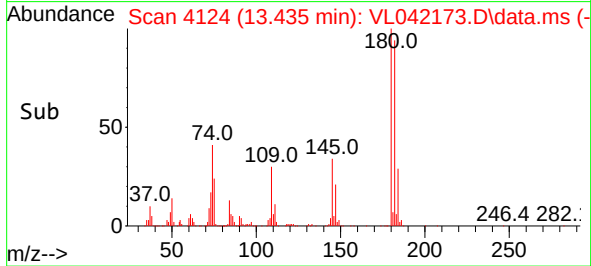
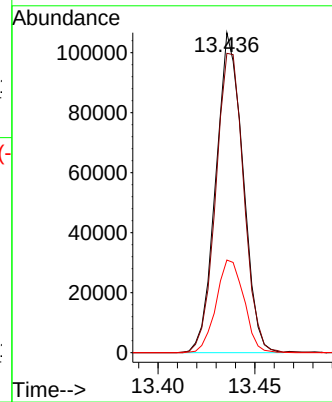
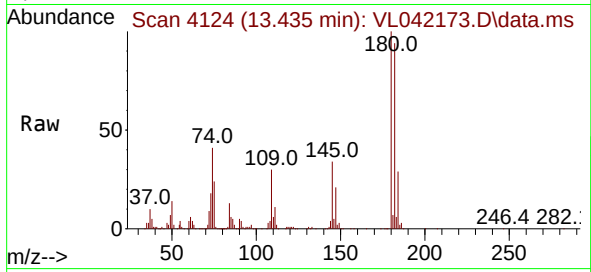




#81
 1,2,4-Trichlorobenzene
 Concen: 2.288 ppbv
 RT: 13.435 min Scan# 41
 Delta R.T. -0.003 min
 Lab File: VL042173.D
 Acq: 27 Mar 2025 08:59

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tgt Ion:180 Resp: 103765
 Ion Ratio Lower Upper
 180 100
 182 97.0 75.1 112.7
 184 29.6 24.4 36.6



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

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 26 06:05:16 2022
 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	1.884	41	1465	0.116	ppbv	99
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	935	0.943	ppbv #	1
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	2.033	96	10532	0.877	ppbv	86
23) Vinyl Acetate	2.464	43	10644	0.983	ppbv #	85
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	10031	0.997	ppbv #	49
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	14387	0.640	ppbv #	31
44) 2,2,4-Trimethylpentane	4.632	57	90727	1.008	ppbv	96
45) t-1,3-Dichloropropene	6.412	75	13431	0.555	ppbv	97

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

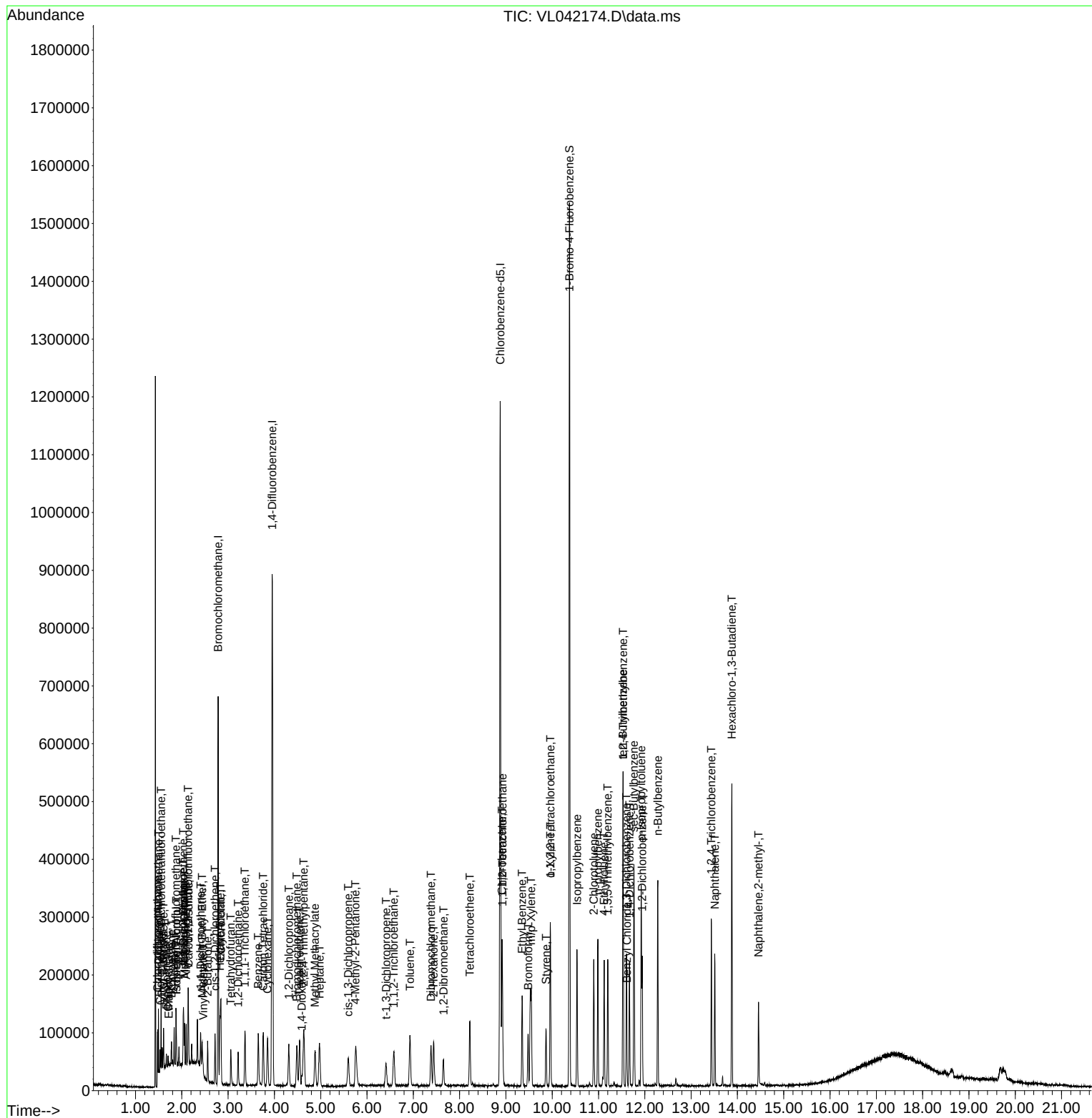
Quant Time: Mar 28 01:33:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 01:31:23 2025
 Response via : Initial Calibration

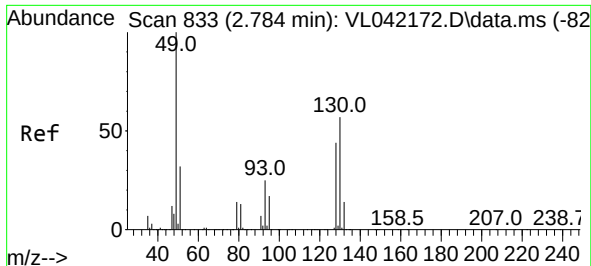
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	30063	1.014	ppbv	93
47) 1,1,2-Trichloroethane	6.577	97	20546	1.002	ppbv	96
48) Dibromochloromethane	7.383	129	34425	0.991	ppbv	100
49) Bromoform	9.481	173	31610	1.013	ppbv	98
50) 4-Methyl-2-Pentanone	5.752	43	34358	0.556	ppbv #	39
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	9.545	91	73295	1.033	ppbv #	31
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

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

- 1
- 2
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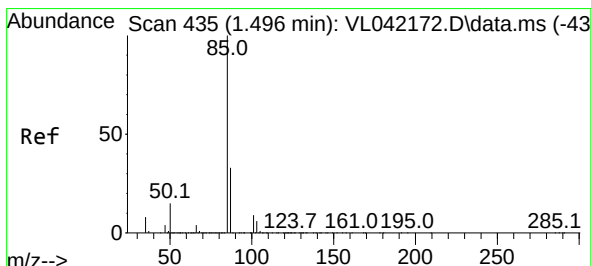
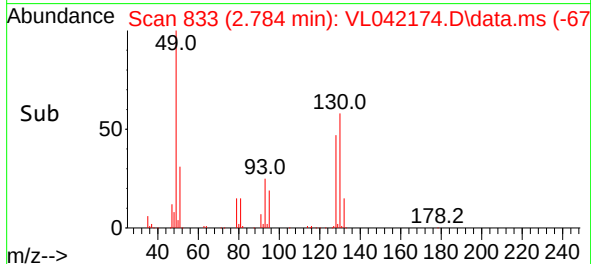
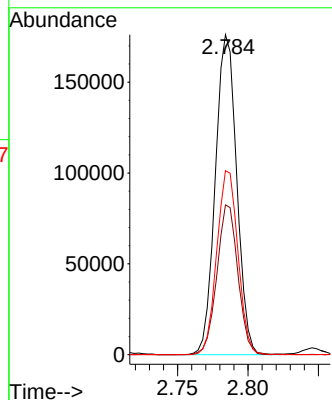
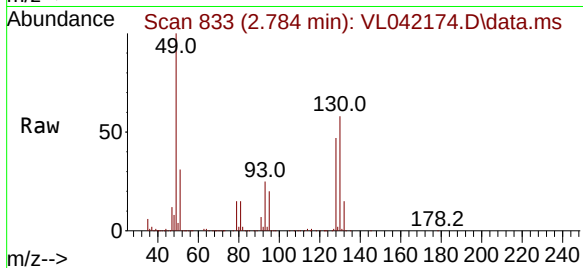




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 833
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

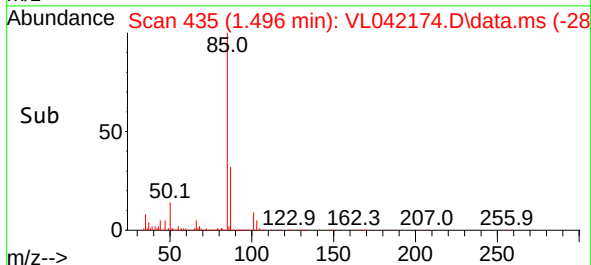
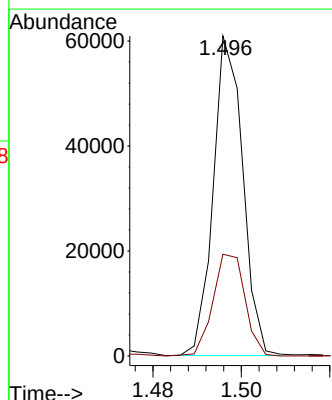
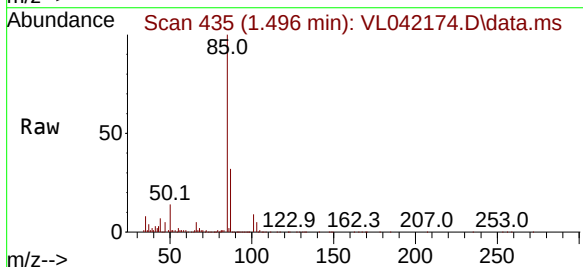
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

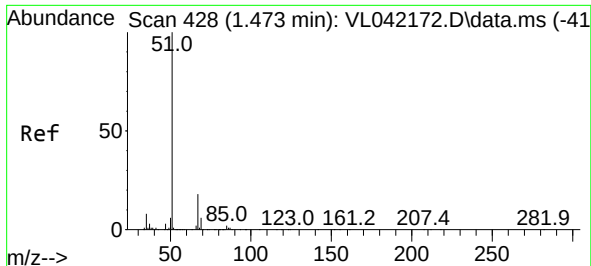
Tgt Ion: 49 Resp: 186244
Ion Ratio Lower Upper
49 100
128 46.2 22.9 68.5
130 57.0 28.8 86.4



#2
Dichlorodifluoromethane
Concen: 1.026 ppbv
RT: 1.496 min Scan# 435
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 85 Resp: 28203
Ion Ratio Lower Upper
85 100
87 31.9 26.1 39.1

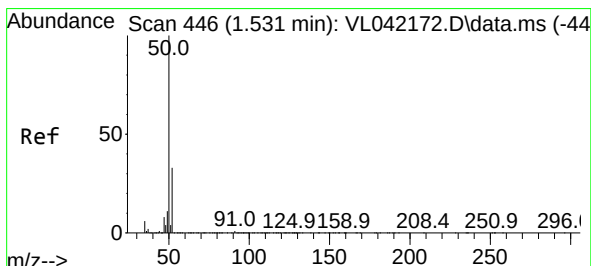
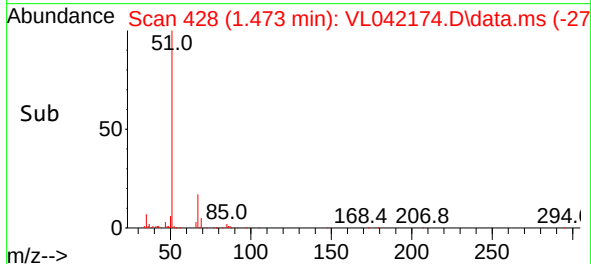
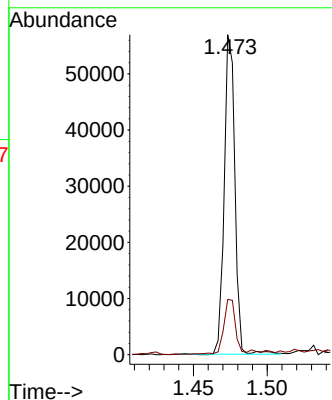
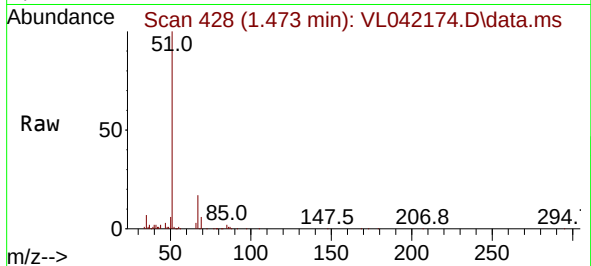




#3
Chlorodifluoromethane
Concen: 1.021 ppbv
RT: 1.473 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

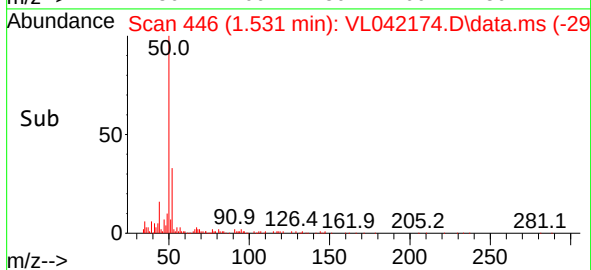
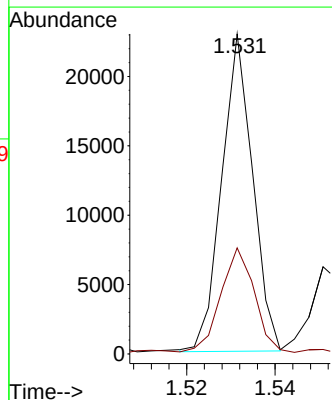
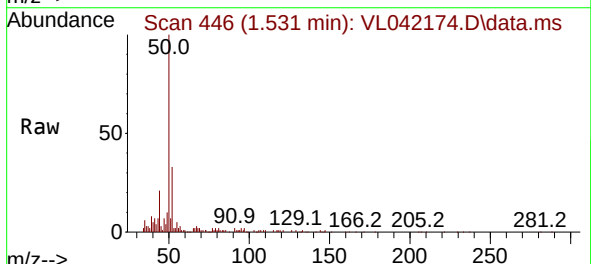
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

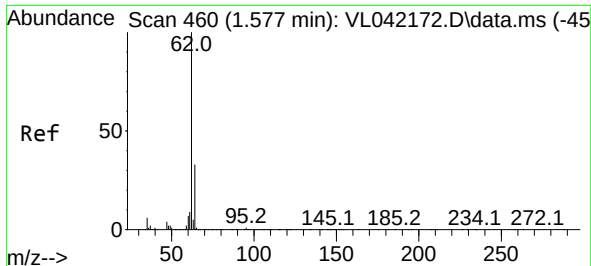
Tgt Ion: 51 Resp: 28693
Ion Ratio Lower Upper
51 100
67 21.5 15.0 22.6



#4
Chloromethane
Concen: 0.989 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 50 Resp: 11111
Ion Ratio Lower Upper
50 100
52 32.9 26.1 39.1

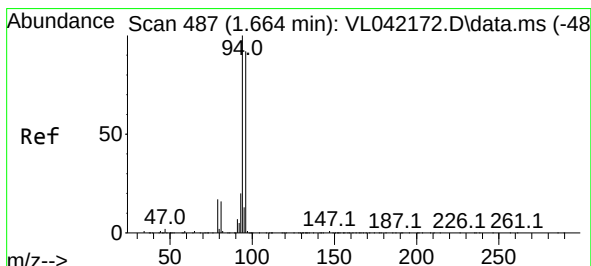
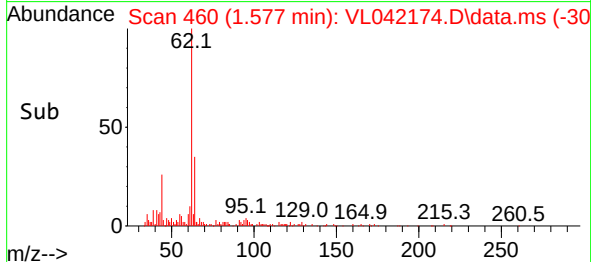
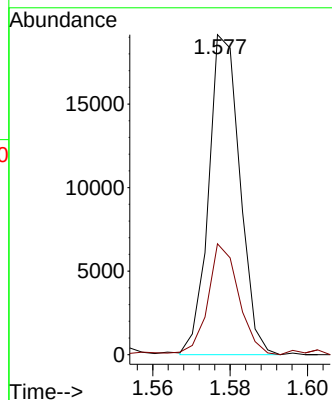
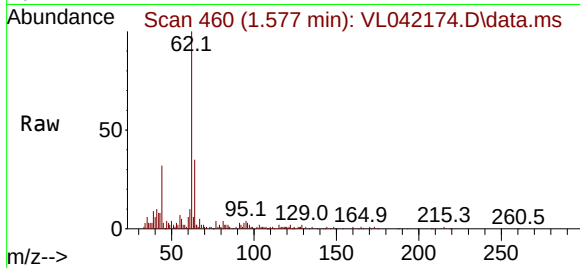




#5
 Vinyl Chloride
 Concen: 0.936 ppbv
 RT: 1.577 min Scan# 41
 Delta R.T. 0.000 min
 Lab File: VL042174.D
 Acq: 27 Mar 2025 09:30

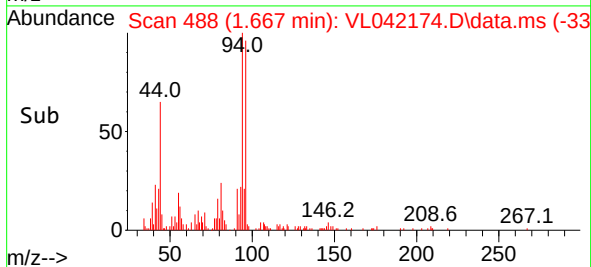
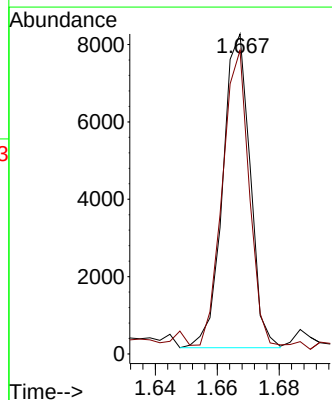
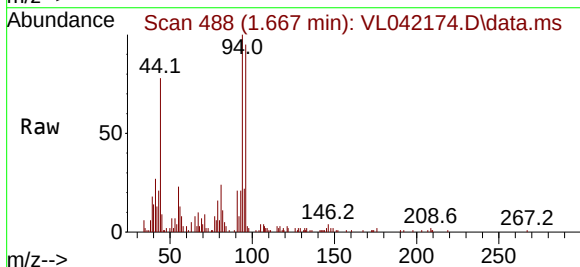
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001

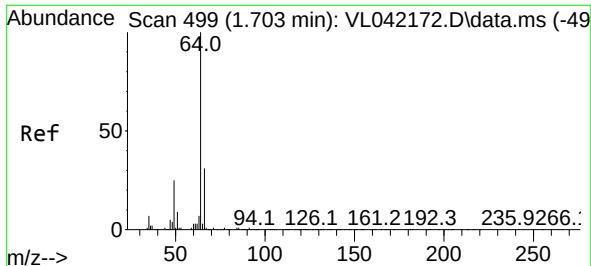
Tgt Ion: 62 Resp: 10723
 Ion Ratio Lower Upper
 62 100
 64 34.6 26.6 40.0



#6
 Bromomethane
 Concen: 0.979 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. 0.003 min
 Lab File: VL042174.D
 Acq: 27 Mar 2025 09:30

Tgt Ion: 94 Resp: 4984
 Ion Ratio Lower Upper
 94 100
 96 93.8 73.1 109.7

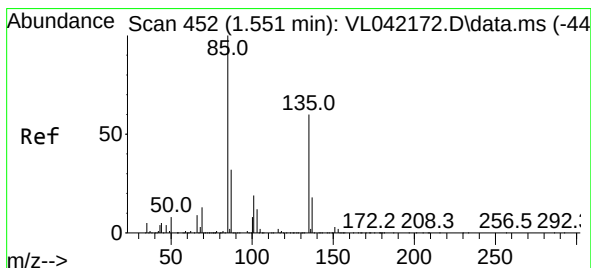
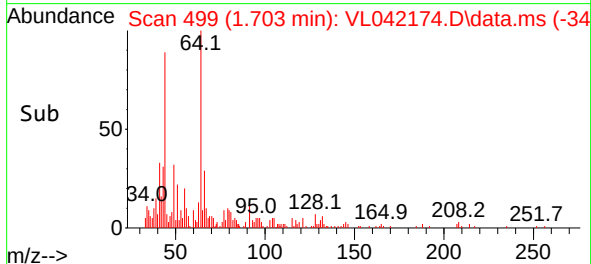
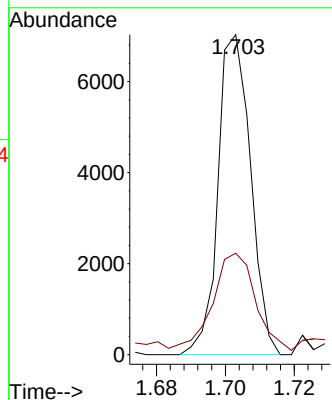
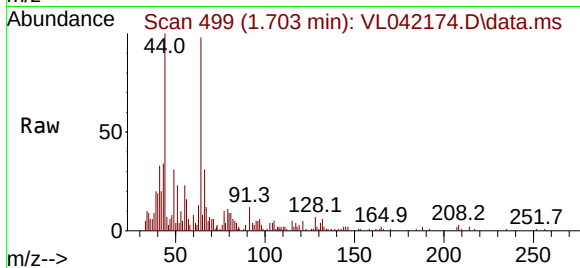




#7
Chloroethane
Concen: 1.025 ppbv
RT: 1.703 min Scan# 499
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

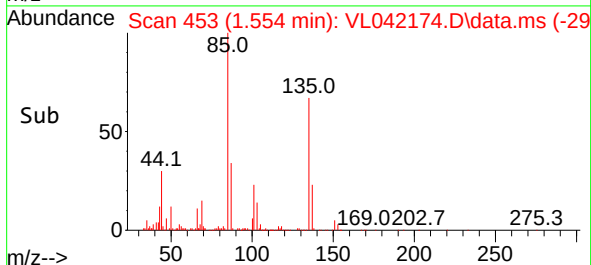
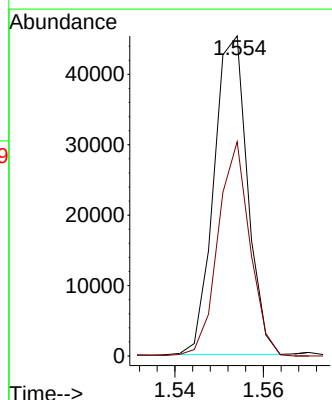
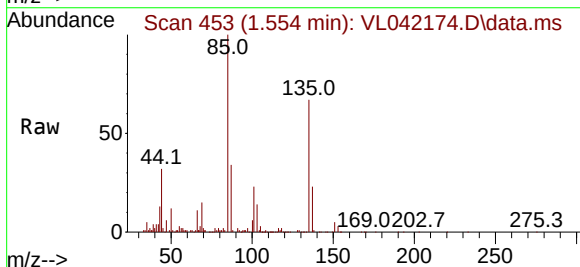
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC001

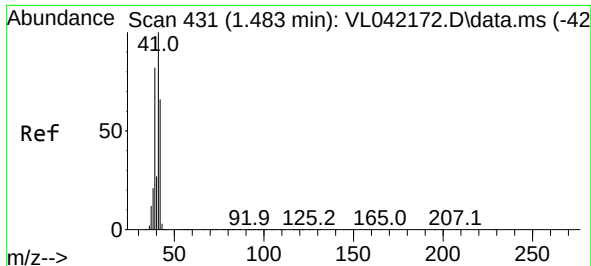
Tgt Ion: 64 Resp: 4622
Ion Ratio Lower Upper
64 100
66 31.7 25.2 37.8



#8
Dichlorotetrafluoroethane
Concen: 1.020 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 85 Resp: 23886
Ion Ratio Lower Upper
85 100
135 64.2 52.4 78.6

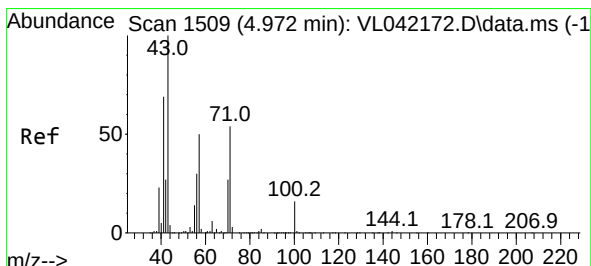
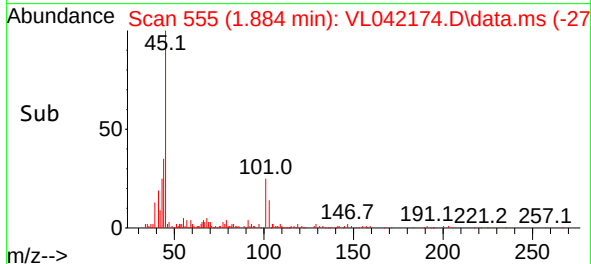
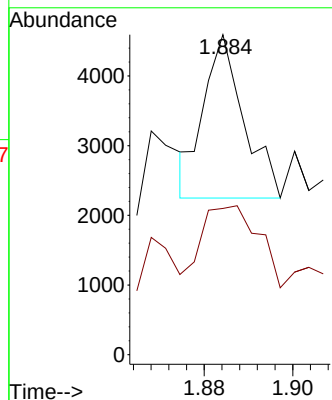
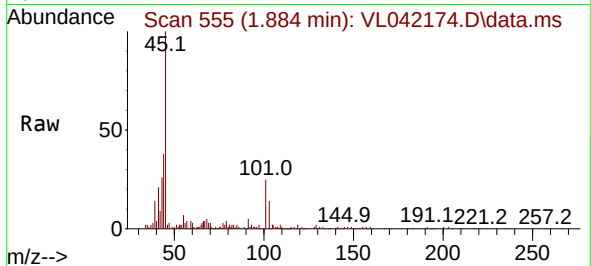




#9
Propene
Concen: 0.116 ppbv
RT: 1.884 min Scan# 510
Delta R.T. 0.401 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

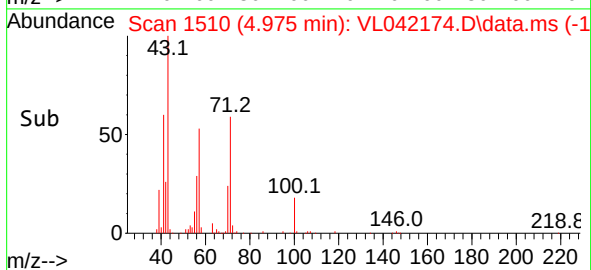
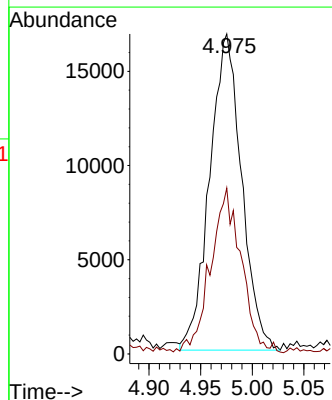
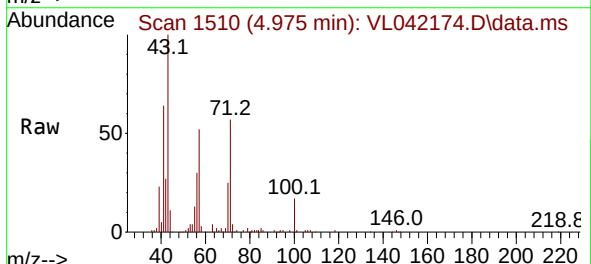
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

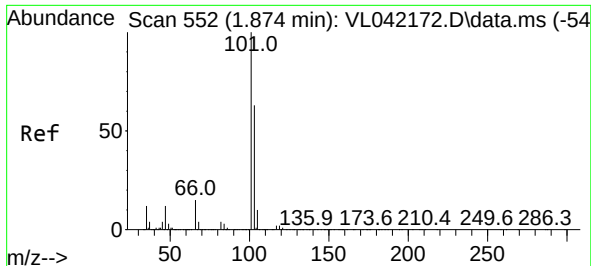
Tgt Ion: 41 Resp: 1465
Ion Ratio Lower Upper
41 100
42 69.8 55.4 83.2



#10
Heptane
Concen: 1.055 ppbv
RT: 4.975 min Scan# 1510
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 43 Resp: 36132
Ion Ratio Lower Upper
43 100
57 49.6 39.4 59.2

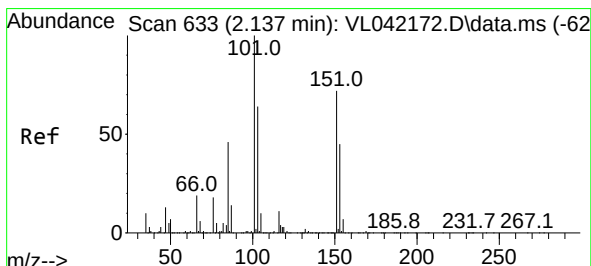
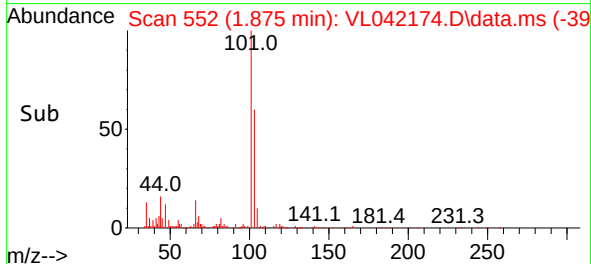
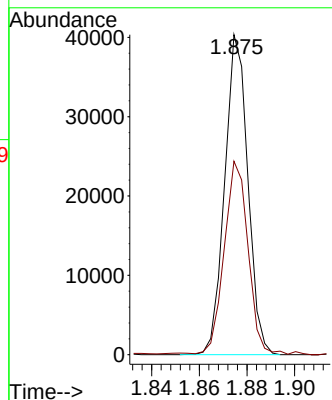
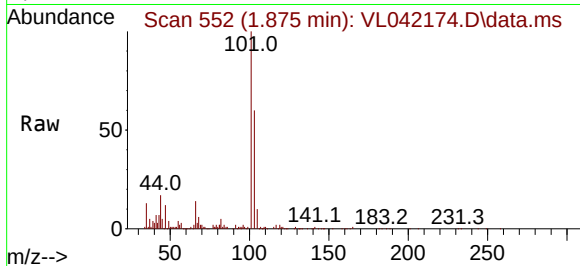




#11
Trichlorofluoromethane
Concen: 1.014 ppbv
RT: 1.875 min Scan# 511
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

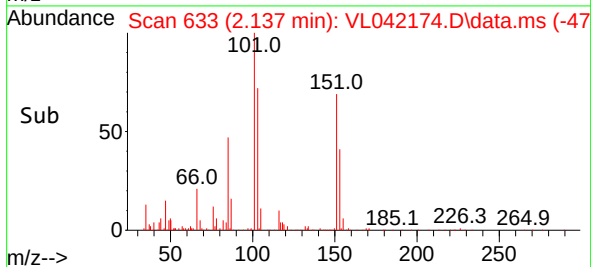
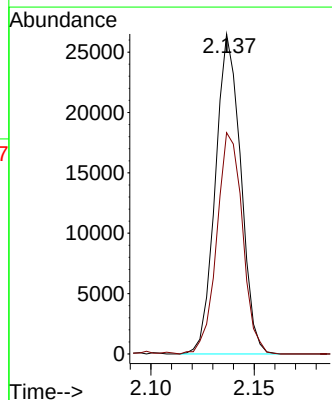
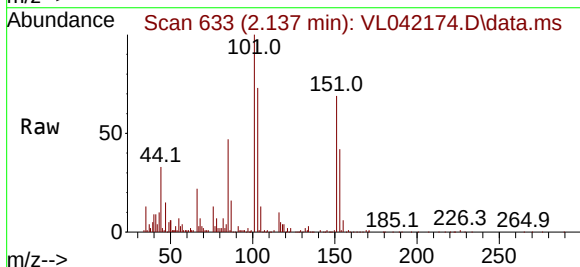
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

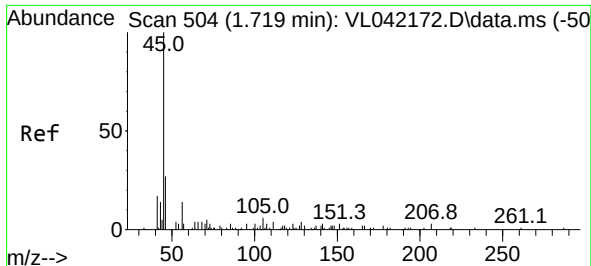
Tgt Ion:101 Resp: 27136
Ion Ratio Lower Upper
101 100
103 59.9 50.2 75.2



#12
1,1,2-Trichlorotrifluoroethane
Concen: 1.029 ppbv
RT: 2.137 min Scan# 633
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion:101 Resp: 22629
Ion Ratio Lower Upper
101 100
151 70.3 57.1 85.7

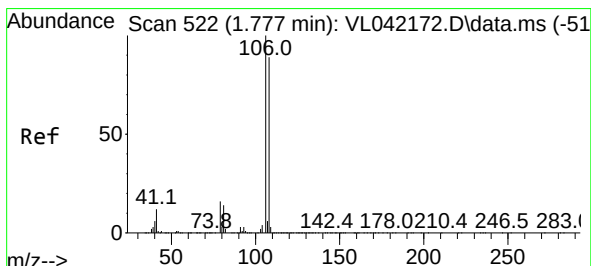
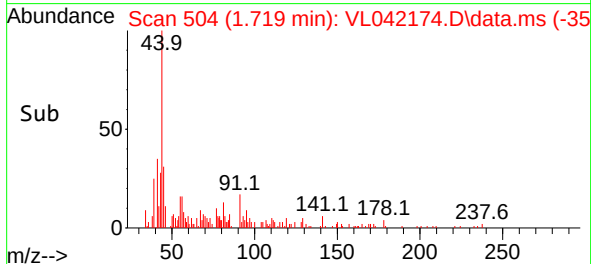
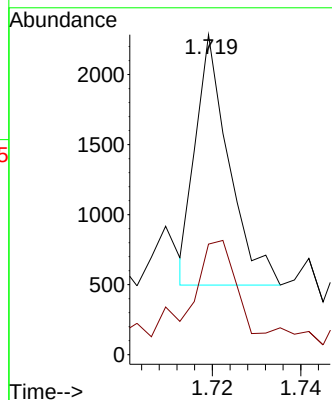
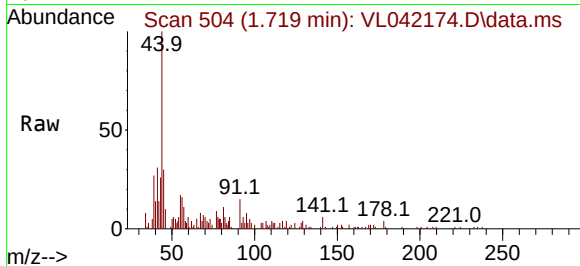




#13
Ethanol
Concen: 0.943 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

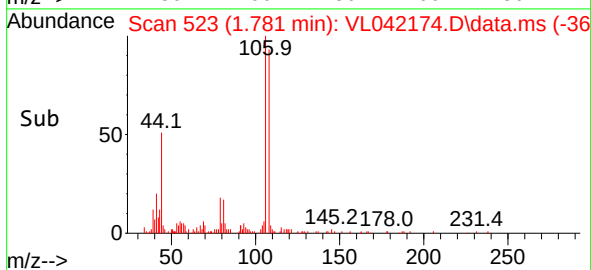
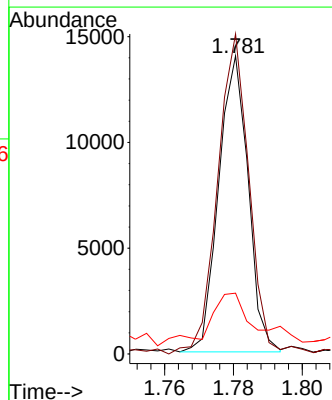
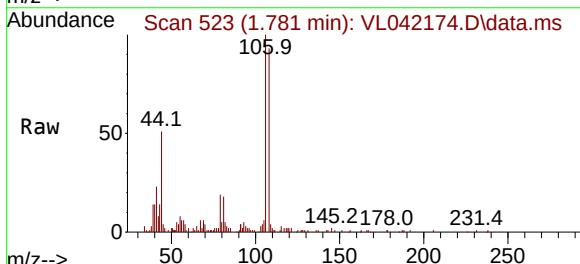
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

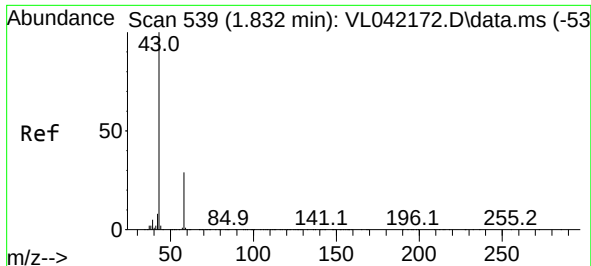
Tgt Ion: 45 Resp: 935
Ion Ratio Lower Upper
45 100
46 126.3 20.2 80.8#



#14
Bromoethene
Concen: 0.989 ppbv
RT: 1.781 min Scan# 523
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 108 Resp: 8330
Ion Ratio Lower Upper
108 100
106 115.2 86.8 130.2
79 57.0 15.0 22.6#

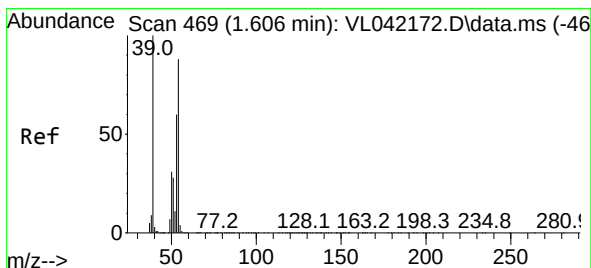
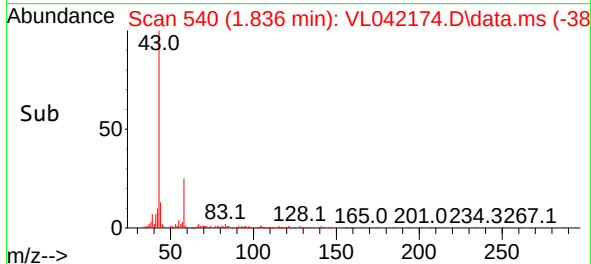
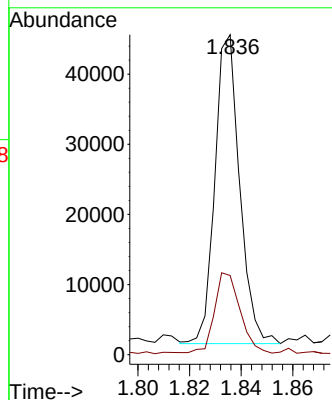
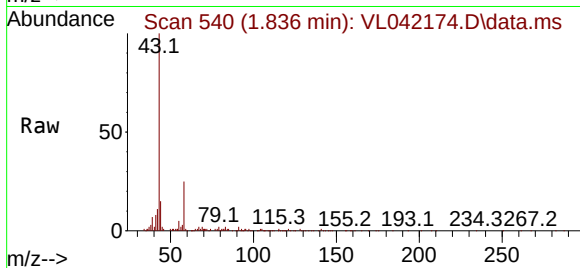




#15
Acetone
Concen: 1.125 ppbv
RT: 1.836 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

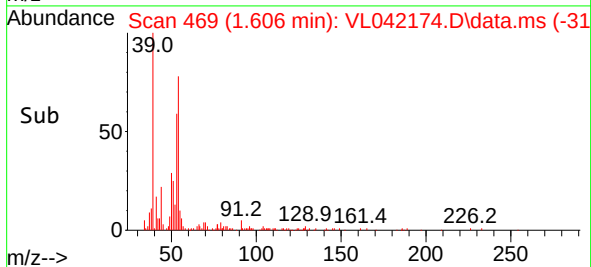
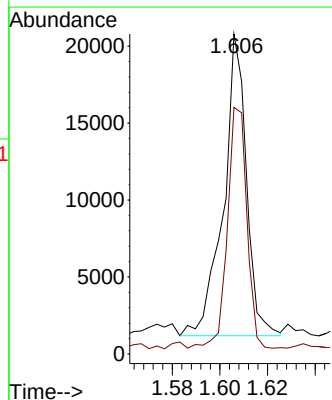
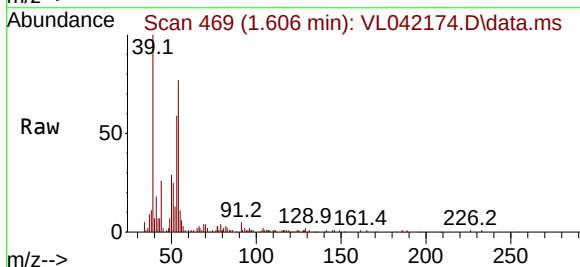
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

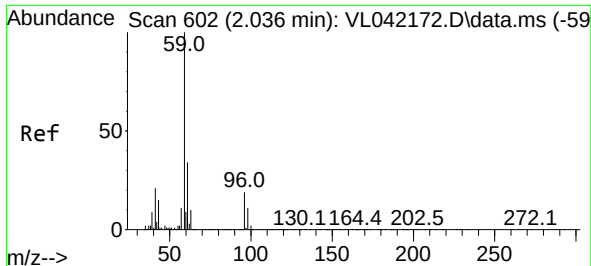
Tgt Ion: 43 Resp: 29294
Ion Ratio Lower Upper
43 100
58 31.6 23.2 34.8



#16
1,3-Butadiene
Concen: 1.121 ppbv
RT: 1.606 min Scan# 469
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 39 Resp: 13133
Ion Ratio Lower Upper
39 100
54 73.5 60.7 91.1

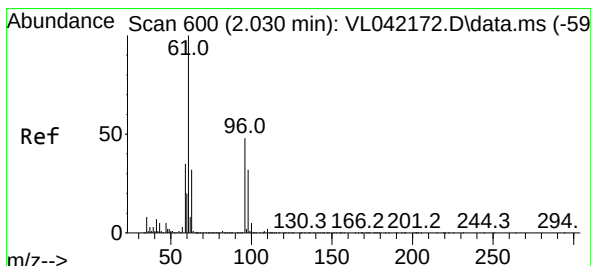
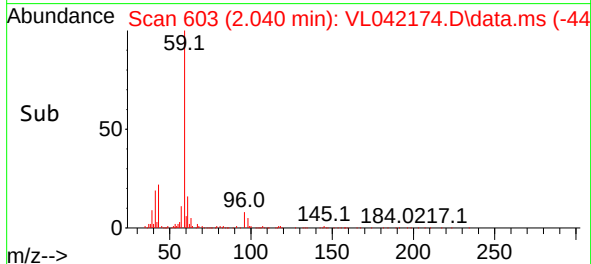
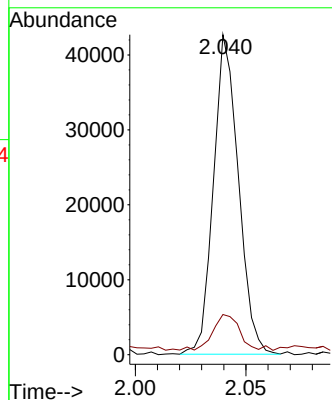
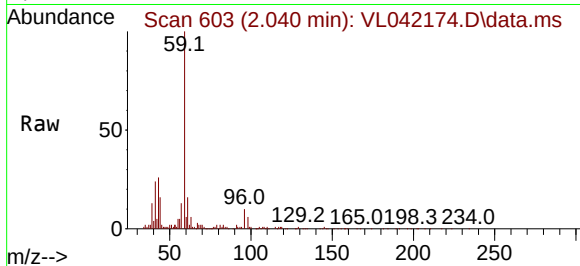




#17
tert-Butyl alcohol
Concen: 1.033 ppbv
RT: 2.040 min Scan# 601
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

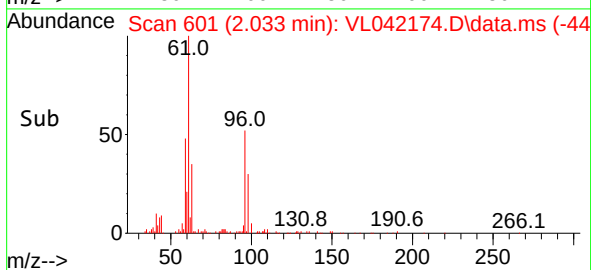
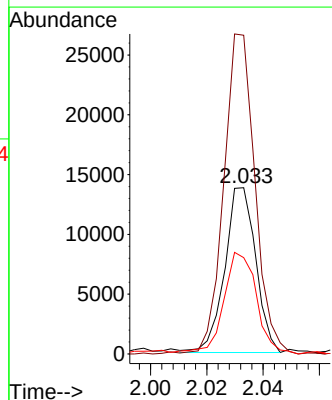
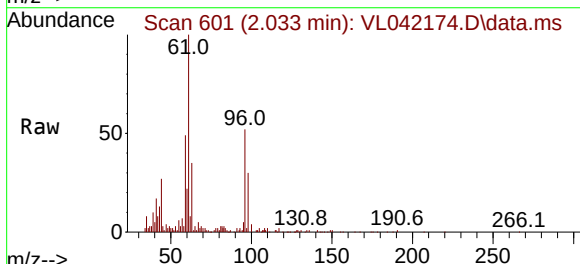
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

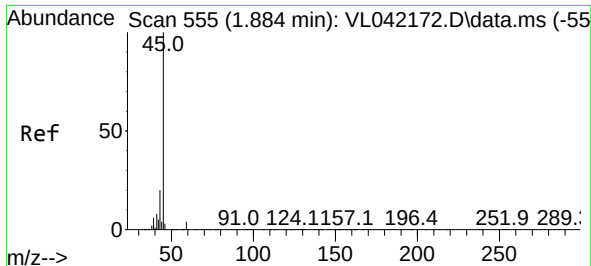
Tgt Ion: 59 Resp: 33500
Ion Ratio Lower Upper
59 100
57 12.3 8.9 13.3



#18
1,1-Dichloroethene
Concen: 1.024 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 96 Resp: 10532
Ion Ratio Lower Upper
96 100
61 192.9 167.6 251.4
98 56.7 53.5 80.3

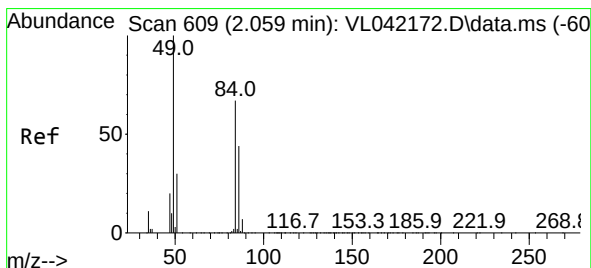
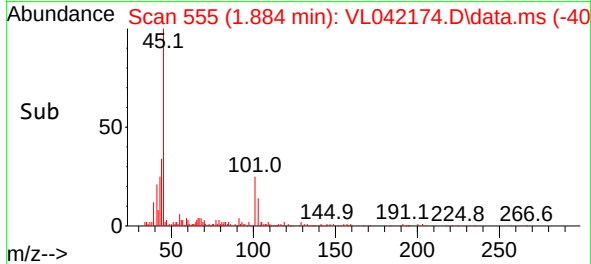
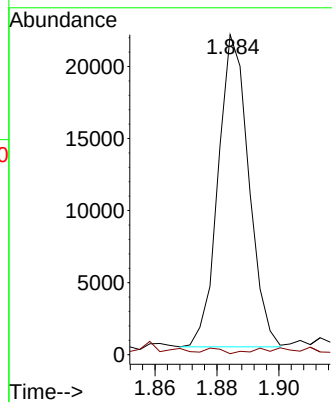
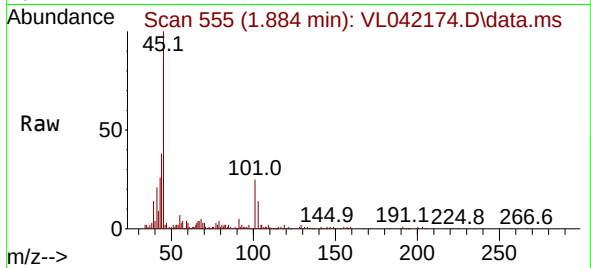




#19
Isopropyl Alcohol
Concen: 1.014 ppbv
RT: 1.884 min Scan# 511
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

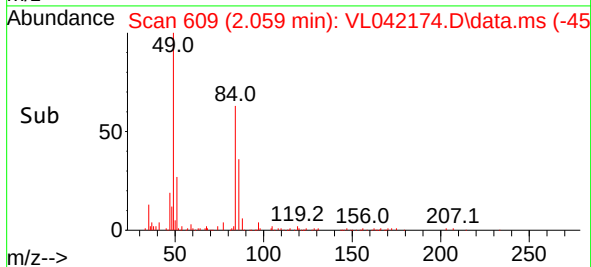
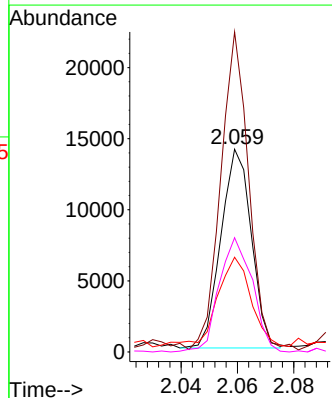
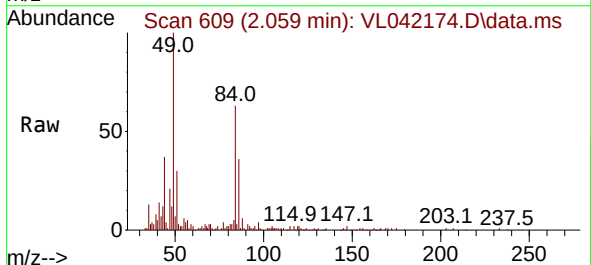
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

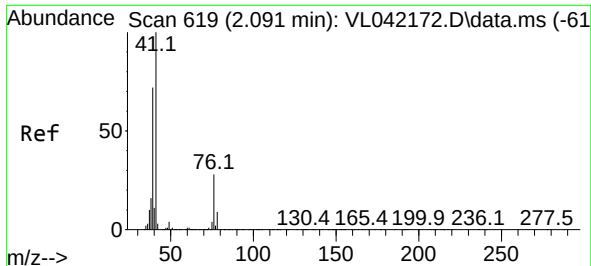
Tgt Ion: 45 Resp: 14903
Ion Ratio Lower Upper
45 100
58 4.9 36.9 55.3#



#20
Methylene Chloride
Concen: 1.080 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 84 Resp: 10481
Ion Ratio Lower Upper
84 100
49 158.3 120.2 180.4
51 44.3 37.4 56.0
86 57.1 52.4 78.6





#21

Allyl Chloride

Concen: 1.036 ppbv

RT: 2.095 min Scan# 61

Delta R.T. 0.003 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC001

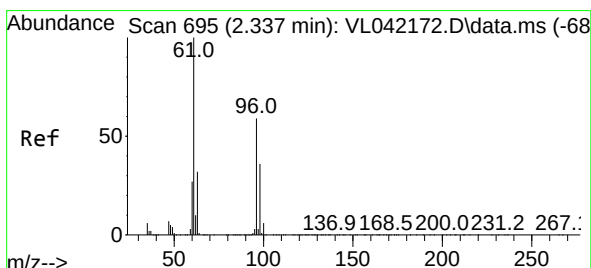
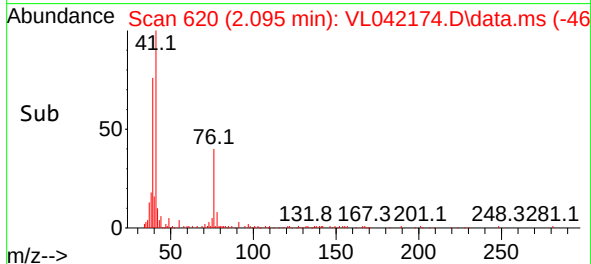
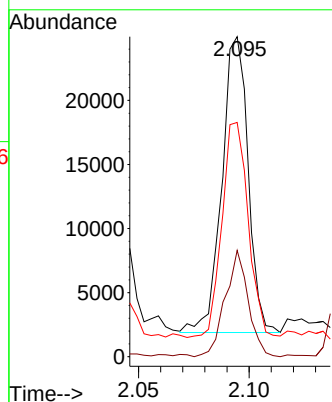
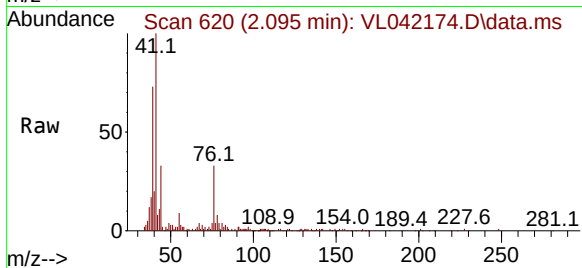
Tgt Ion: 41 Resp: 19039

Ion Ratio Lower Upper

41 100

76 30.5 24.1 36.1

39 77.8 61.1 91.7



#22

trans-1,2-Dichloroethene

Concen: 0.877 ppbv

RT: 2.033 min Scan# 601

Delta R.T. -0.304 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

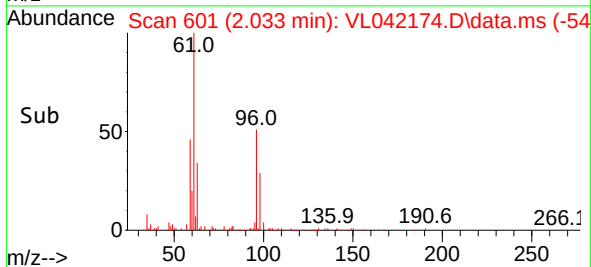
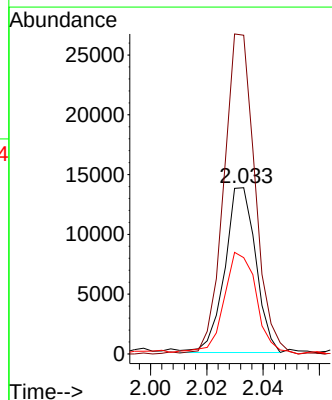
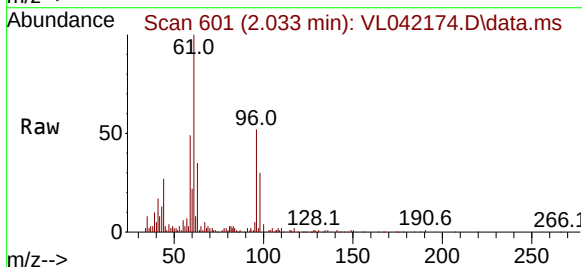
Tgt Ion: 96 Resp: 10532

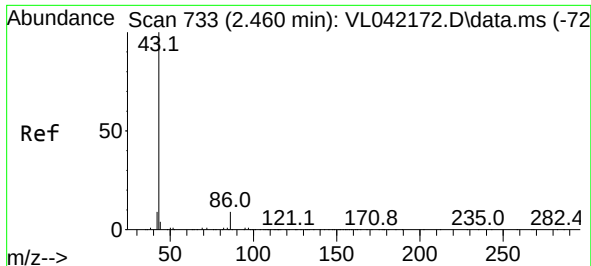
Ion Ratio Lower Upper

96 100

61 192.9 136.6 204.8

98 56.7 49.4 74.2

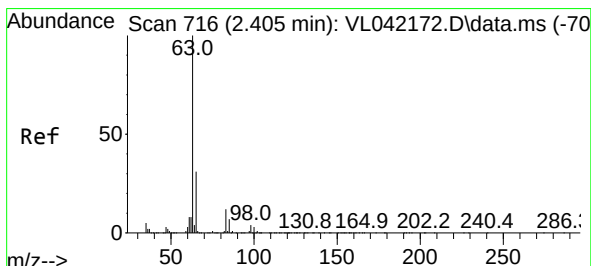
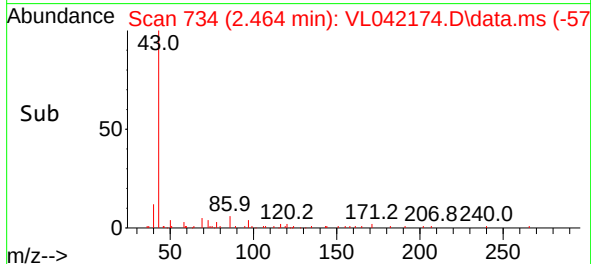
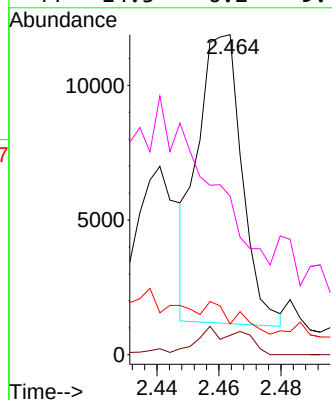
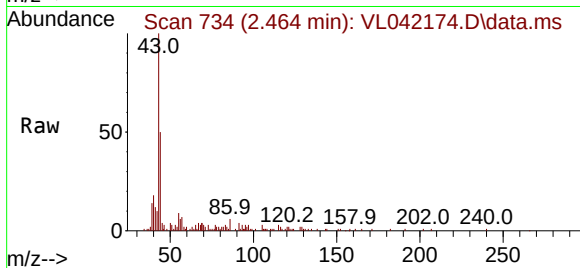




#23
 Vinyl Acetate
 Concen: 0.983 ppbv
 RT: 2.464 min Scan# 716
 Delta R.T. 0.003 min
 Lab File: VL042174.D
 Acq: 27 Mar 2025 09:30

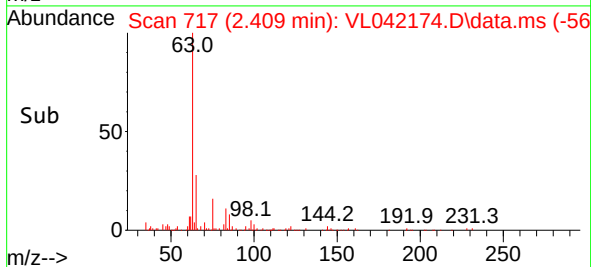
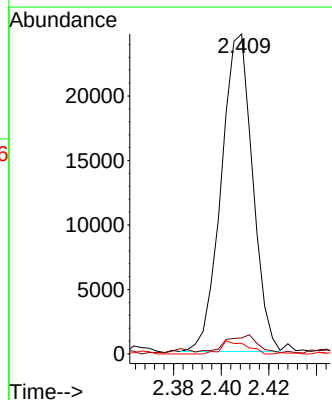
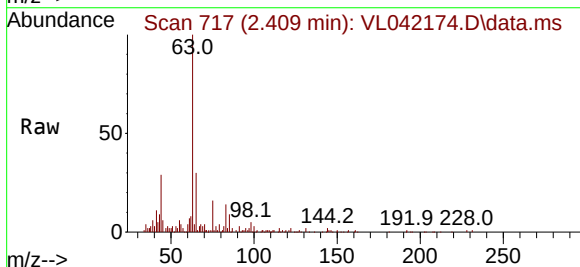
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001

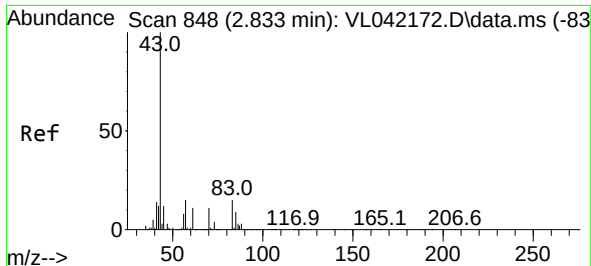
Tgt Ion:	43	Resp:	10644
Ion	Ratio	Lower	Upper
43	100		
86	6.9	5.5	8.3
42	2.4	8.6	13.0#
44	14.3	6.2	9.4#



#24
 1,1-Dichloroethane
 Concen: 1.022 ppbv
 RT: 2.409 min Scan# 717
 Delta R.T. 0.003 min
 Lab File: VL042174.D
 Acq: 27 Mar 2025 09:30

Tgt Ion:	63	Resp:	22505
Ion	Ratio	Lower	Upper
63	100		
98	4.6	2.3	6.8
100	3.4	1.6	4.7

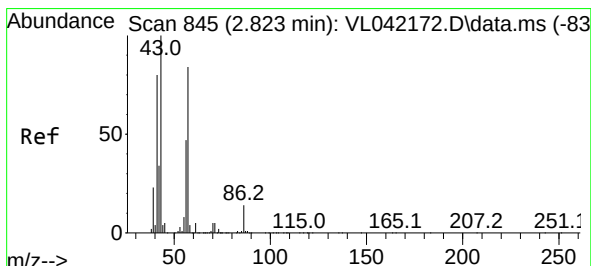
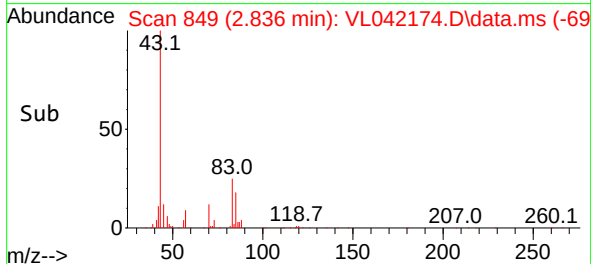
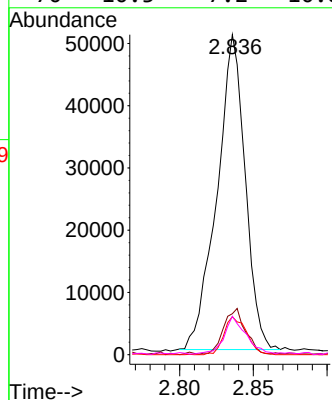
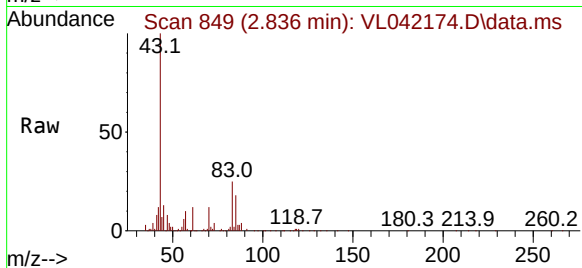




#25
Ethyl Acetate
Concen: 0.997 ppbv
RT: 2.836 min Scan# 848
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

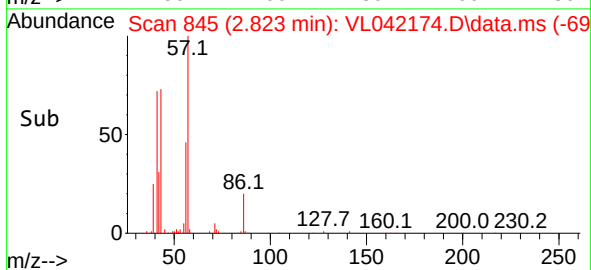
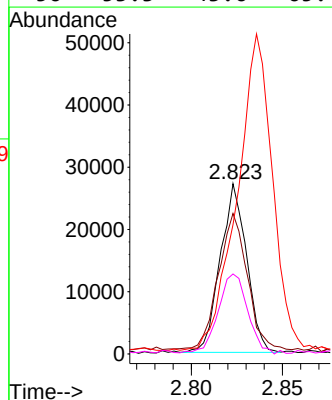
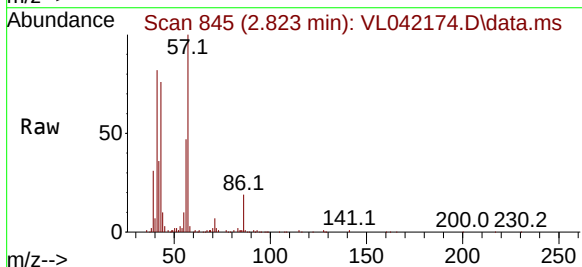
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC001

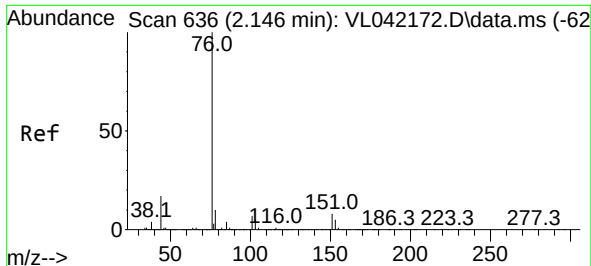
Tgt Ion:	43	Resp:	67402
Ion	Ratio	Lower	Upper
43	100		
45	12.3	8.2	12.2#
61	9.6	7.3	10.9
70	10.3	7.2	10.8



#26
Hexane
Concen: 1.043 ppbv
RT: 2.823 min Scan# 845
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion:	57	Resp:	27223
Ion	Ratio	Lower	Upper
57	100		
41	93.5	76.6	114.8
43	256.9	207.8	311.8
56	53.3	43.6	65.4

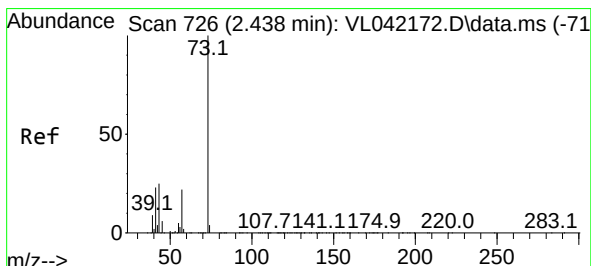
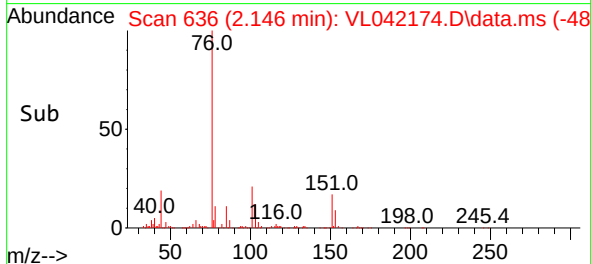
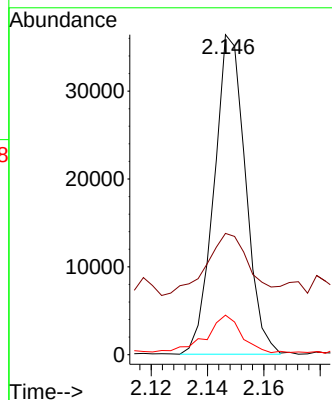
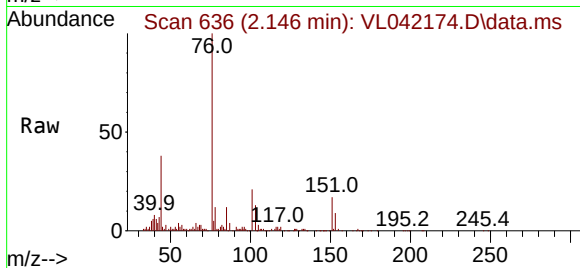




#27
Carbon Disulfide
Concen: 1.006 ppbv
RT: 2.146 min Scan# 611
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

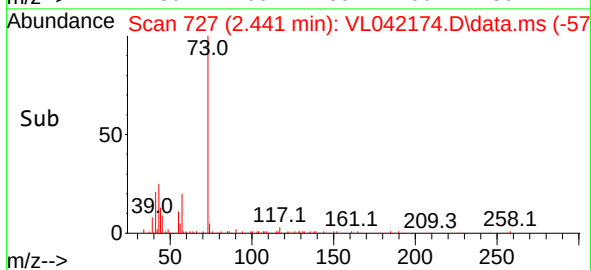
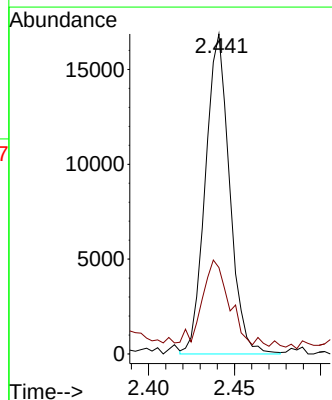
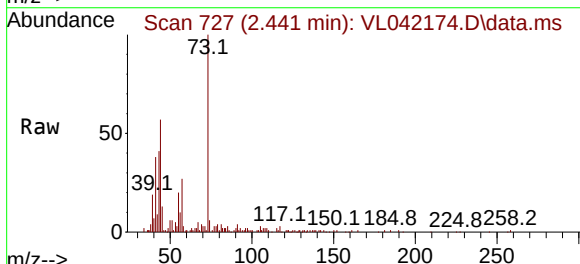
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

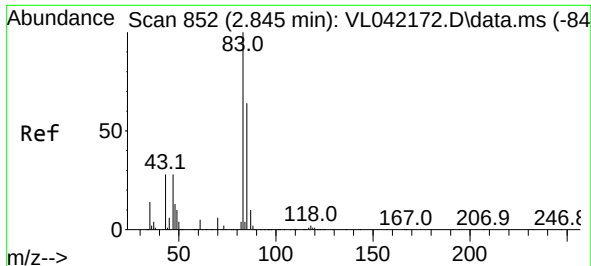
Tgt Ion: 76 Resp: 28167
Ion Ratio Lower Upper
76 100
44 54.6 14.7 22.1#
78 15.0 9.3 13.9#



#28
Methyl tert-Butyl Ether
Concen: 1.015 ppbv
RT: 2.441 min Scan# 727
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 73 Resp: 16501
Ion Ratio Lower Upper
73 100
57 28.0 20.5 30.7

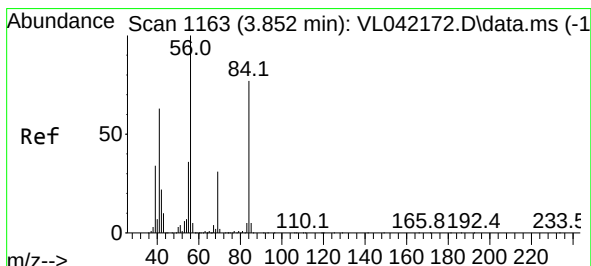
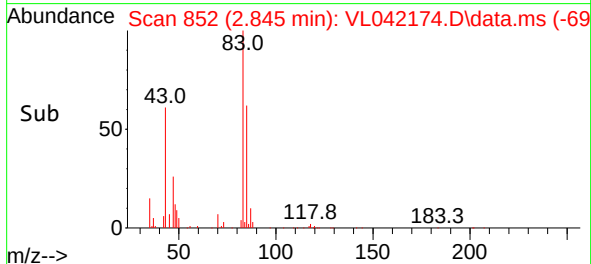
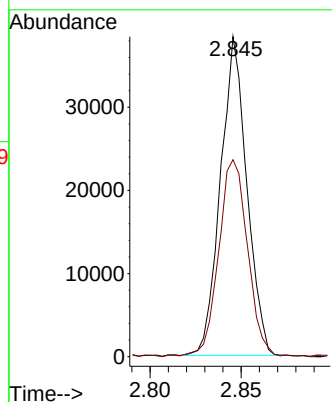
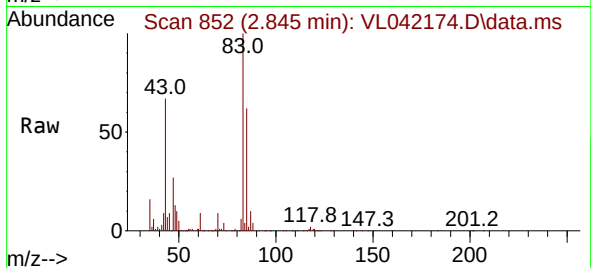




#29
Chloroform
Concen: 1.008 ppbv
RT: 2.845 min Scan# 852
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

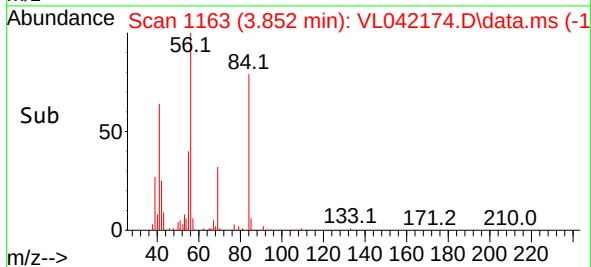
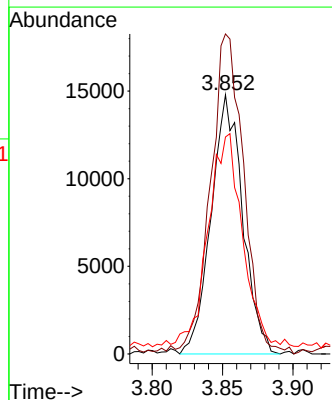
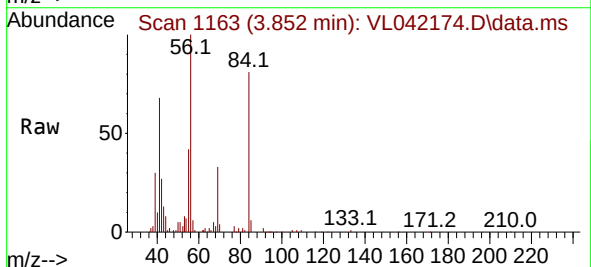
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC001

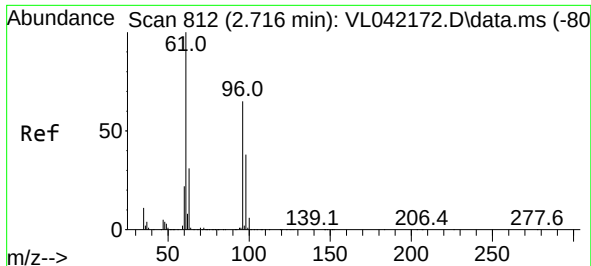
Tgt Ion: 83 Resp: 38516
Ion Ratio Lower Upper
83 100
85 61.6 51.4 77.2



#30
Cyclohexane
Concen: 1.016 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 84 Resp: 23052
Ion Ratio Lower Upper
84 100
56 128.9 102.8 154.2
41 89.3 66.5 99.7

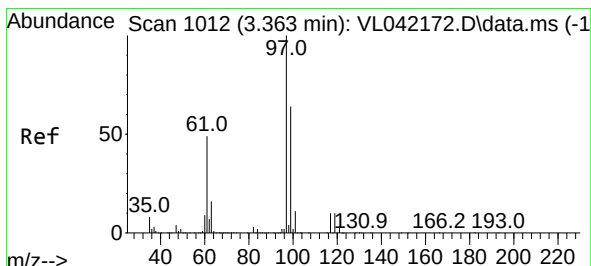
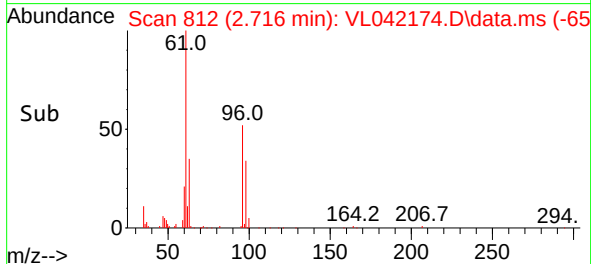
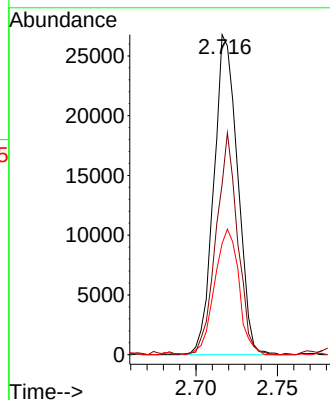
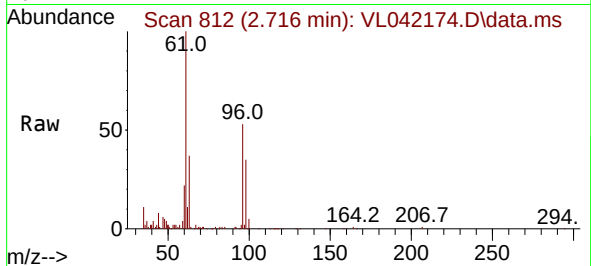




#31
 cis-1,2-Dichloroethene
 Concen: 1.026 ppbv
 RT: 2.716 min Scan# 812
 Delta R.T. 0.000 min
 Lab File: VL042174.D
 Acq: 27 Mar 2025 09:30

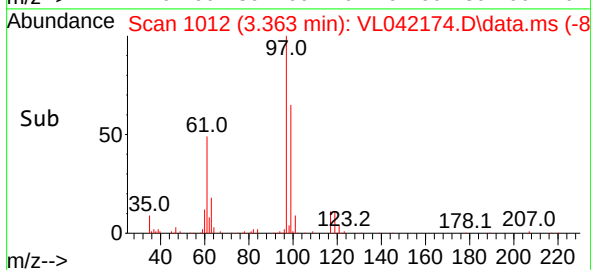
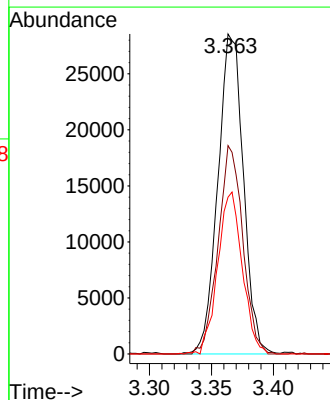
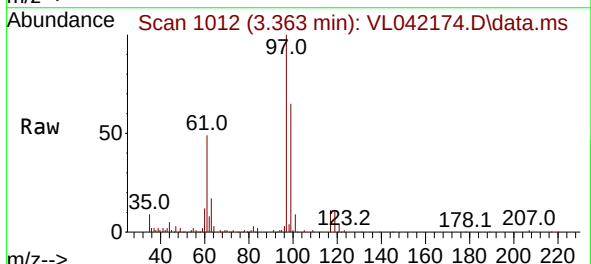
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001

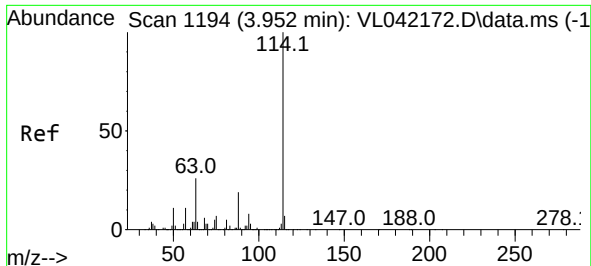
Tgt Ion: 61 Resp: 27187
 Ion Ratio Lower Upper
 61 100
 96 53.3 51.8 77.8
 98 34.8 30.6 46.0



#32
 1,1,1-Trichloroethane
 Concen: 0.938 ppbv
 RT: 3.363 min Scan# 1012
 Delta R.T. 0.000 min
 Lab File: VL042174.D
 Acq: 27 Mar 2025 09:30

Tgt Ion: 97 Resp: 40993
 Ion Ratio Lower Upper
 97 100
 99 63.0 51.5 77.3
 61 48.8 38.7 58.1

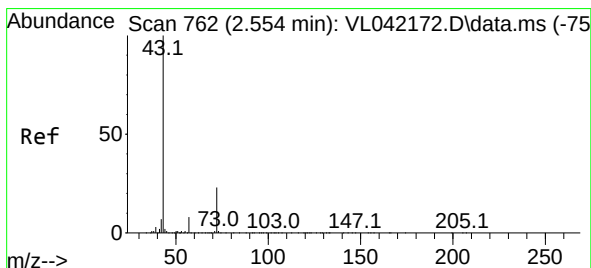
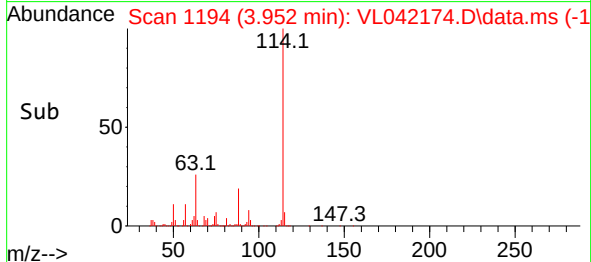
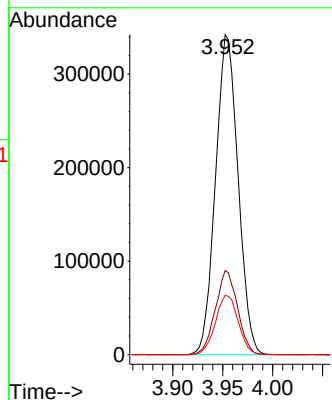
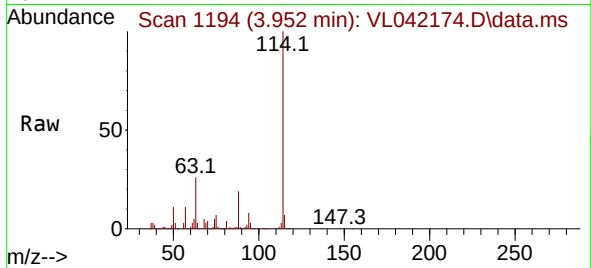




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

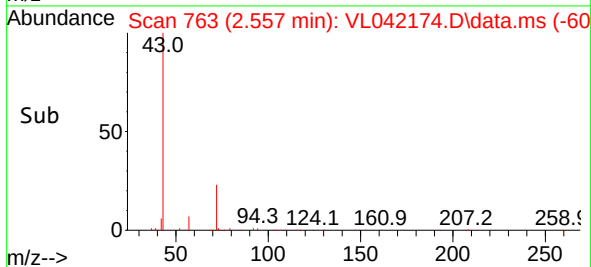
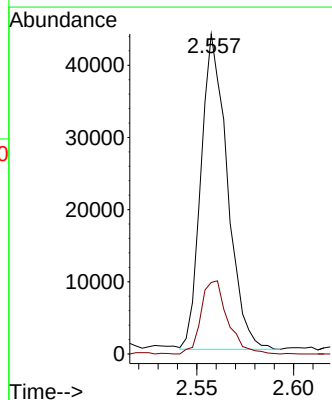
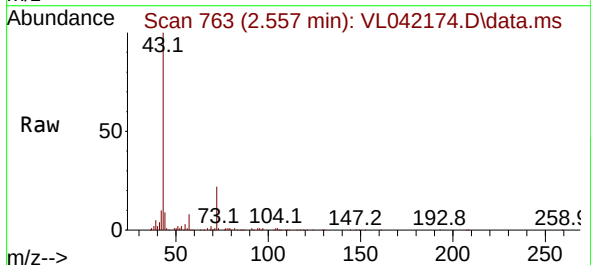
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

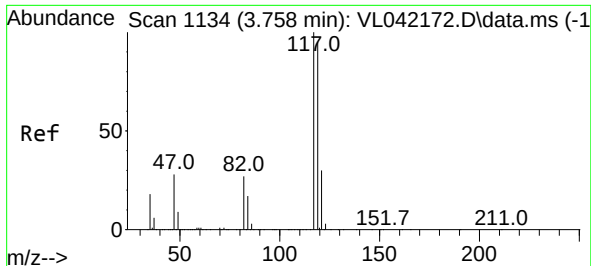
Tgt Ion:114 Resp: 537244
Ion Ratio Lower Upper
114 100
63 25.8 20.7 31.1
88 18.8 15.0 22.4



#34
2-Butanone
Concen: 1.063 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 43 Resp: 41423
Ion Ratio Lower Upper
43 100
72 23.5 18.2 27.2

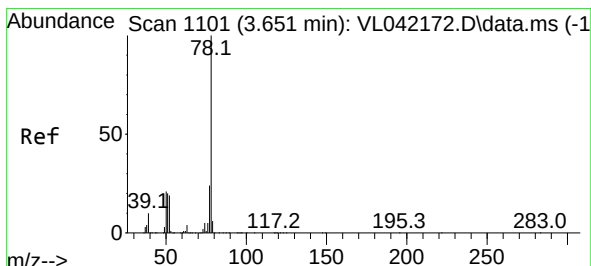
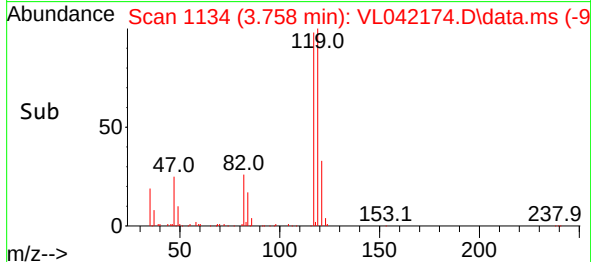
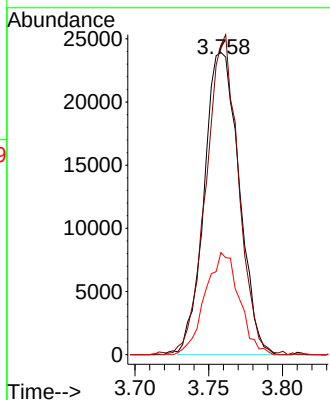
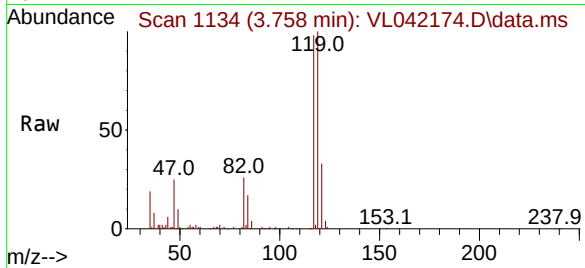




#35
Carbon Tetrachloride
Concen: 0.952 ppbv
RT: 3.758 min Scan# 1134
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

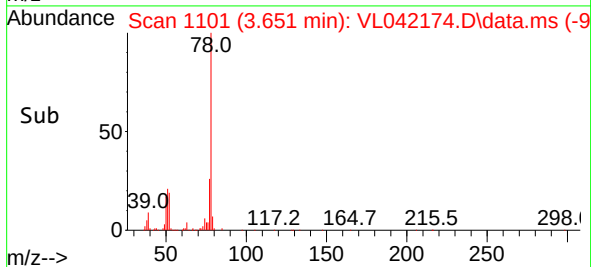
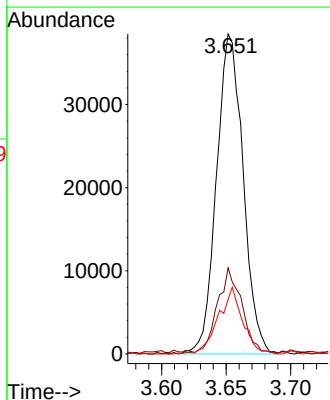
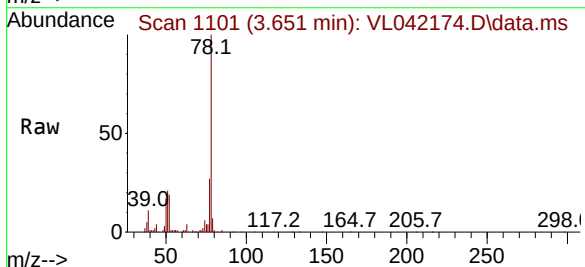
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

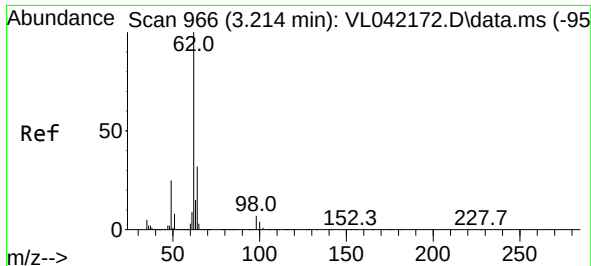
Tgt Ion:117 Resp: 39345
Ion Ratio Lower Upper
117 100
119 101.8 76.2 114.2
121 33.7 24.2 36.4



#36
Benzene
Concen: 1.036 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 78 Resp: 55156
Ion Ratio Lower Upper
78 100
77 26.5 19.1 28.7
50 17.1 16.6 24.8

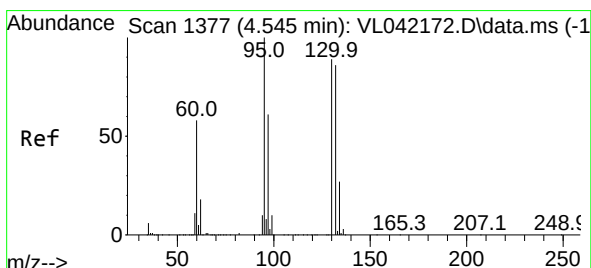
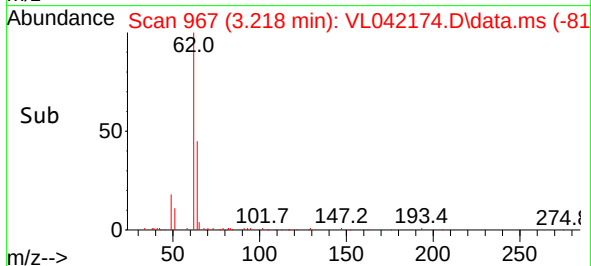
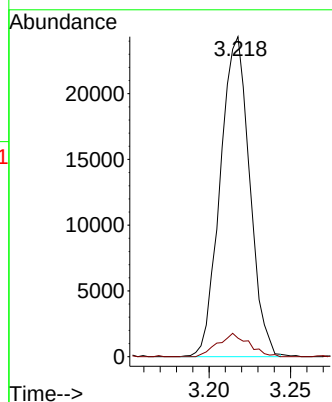
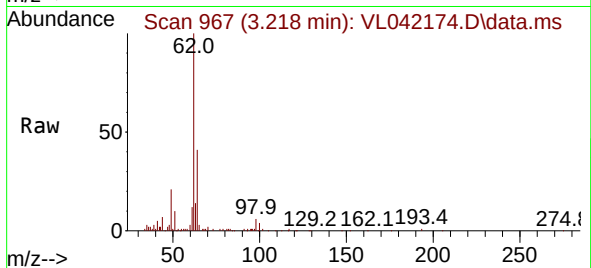




#37
1,2-Dichloroethane
Concen: 1.002 ppbv
RT: 3.218 min Scan# 967
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

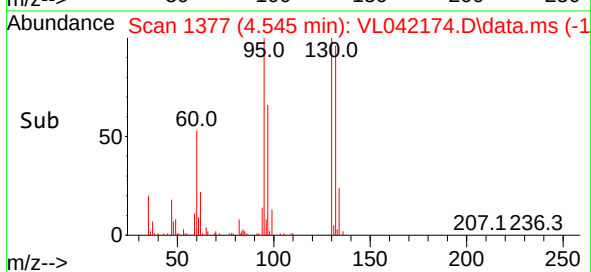
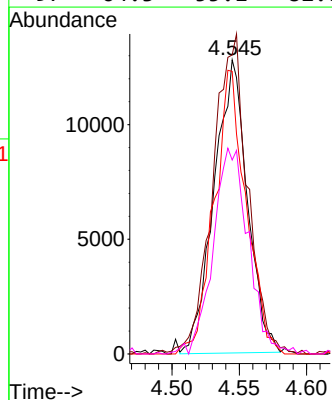
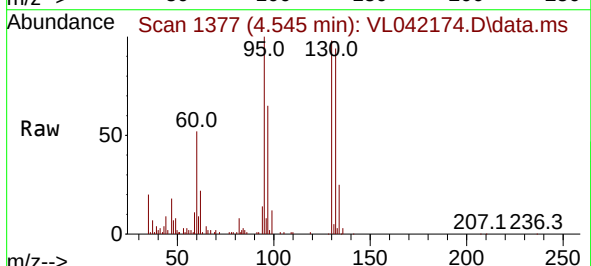
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

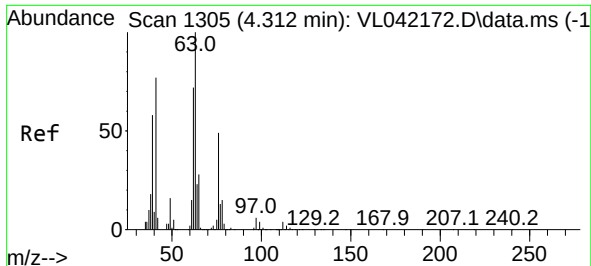
Tgt Ion: 62 Resp: 30543
Ion Ratio Lower Upper
62 100
98 7.6 5.4 8.2



#38
Trichloroethene
Concen: 0.985 ppbv
RT: 4.545 min Scan# 1377
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 130 Resp: 21906
Ion Ratio Lower Upper
130 100
95 100.2 89.8 134.8
132 95.3 77.4 116.2
97 64.3 55.1 82.7

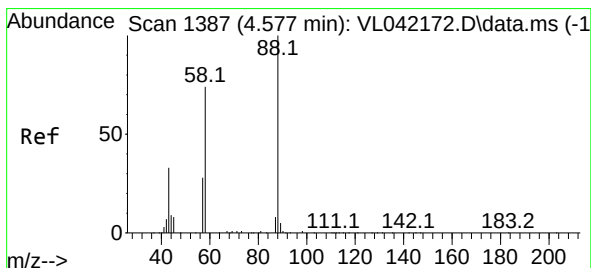
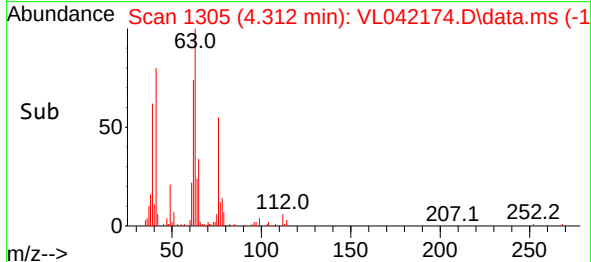
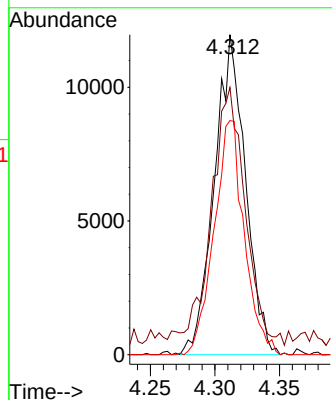
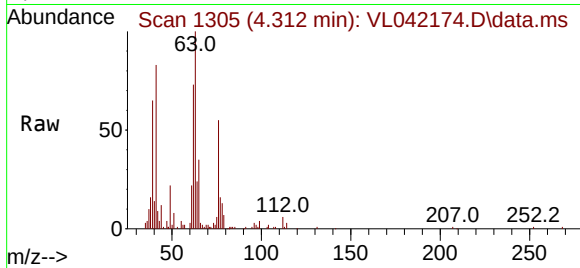




#39
1,2-Dichloropropane
Concen: 1.032 ppbv
RT: 4.312 min Scan# 11
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

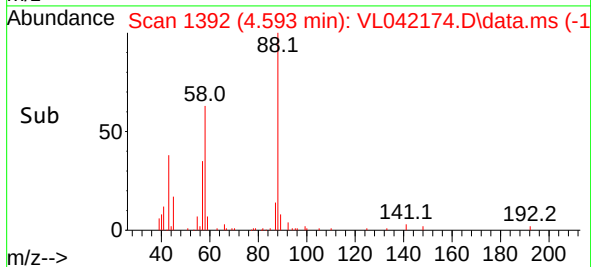
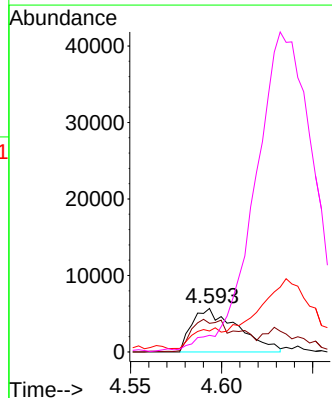
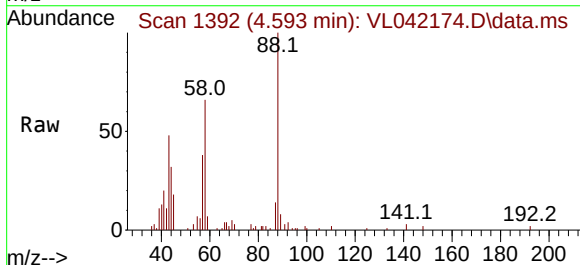
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

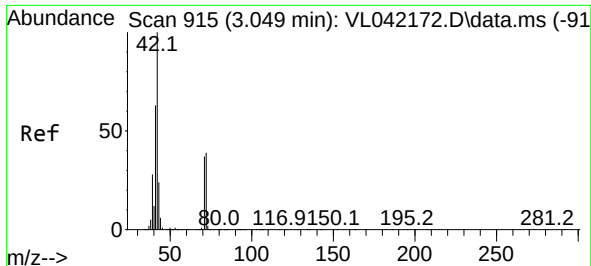
Tgt Ion:	63	Resp:	20020
Ion	Ratio	Lower	Upper
63	100		
41	76.8	61.7	92.5
62	73.1	57.6	86.4



#40
1,4-Dioxane
Concen: 0.997 ppbv
RT: 4.593 min Scan# 1392
Delta R.T. 0.016 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion:	88	Resp:	10031
Ion	Ratio	Lower	Upper
88	100		
58	121.8	62.7	94.1#
43	0.0	23.0	34.4#
57	0.0	0.0	0.0

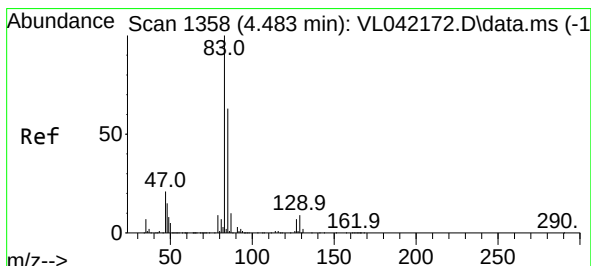
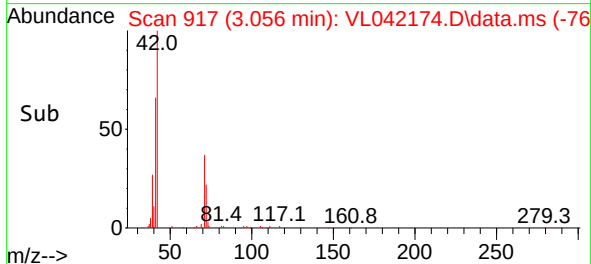
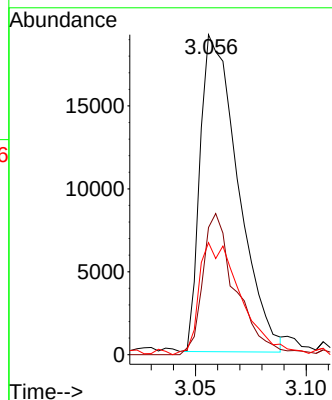
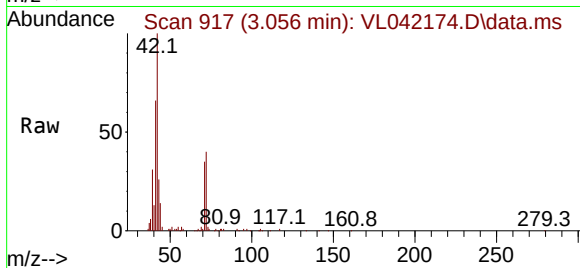




#41
Tetrahydrofuran
Concen: 1.029 ppbv
RT: 3.056 min Scan# 915
Delta R.T. 0.007 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

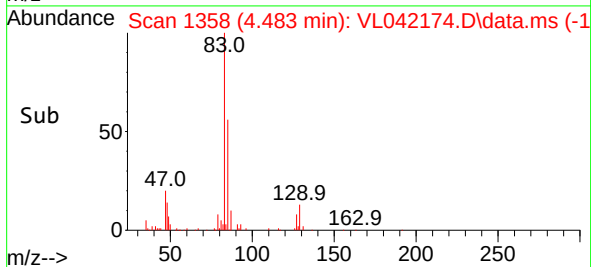
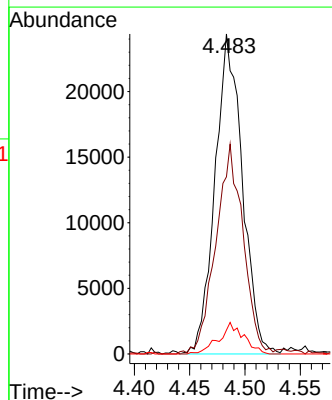
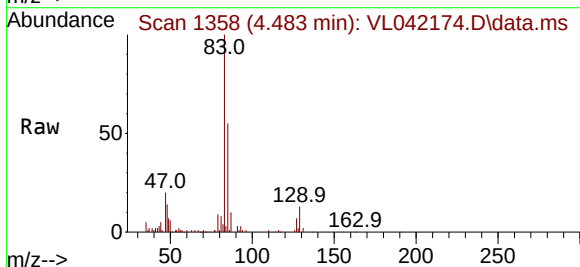
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

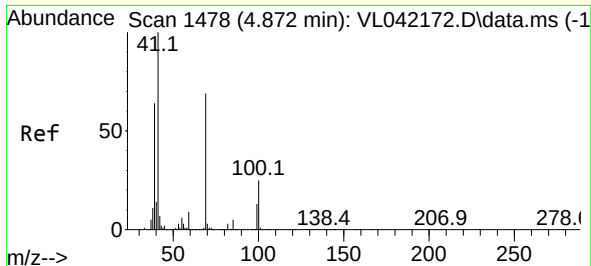
Tgt Ion: 42 Resp: 22818
Ion Ratio Lower Upper
42 100
72 39.4 31.4 47.0
71 40.8 30.2 45.4



#42
Bromodichloromethane
Concen: 0.996 ppbv
RT: 4.483 min Scan# 1358
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 83 Resp: 41864
Ion Ratio Lower Upper
83 100
85 54.7 50.5 75.7
127 7.5 5.9 8.9

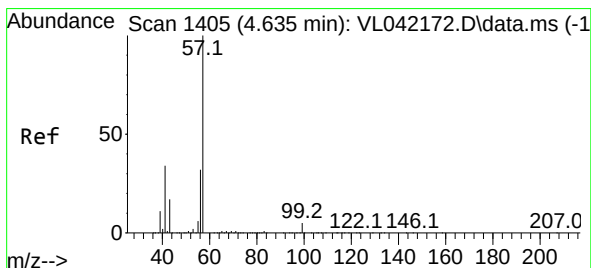
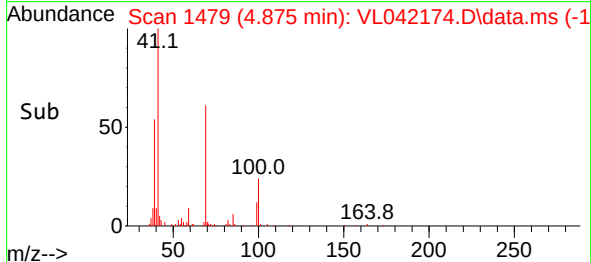
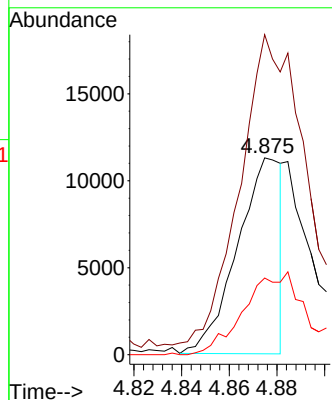
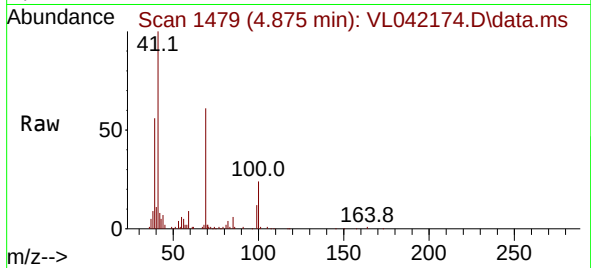




#43
Methyl Methacrylate
Concen: 0.640 ppbv
RT: 4.875 min Scan# 1478
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

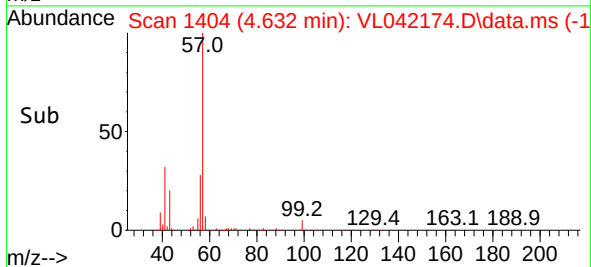
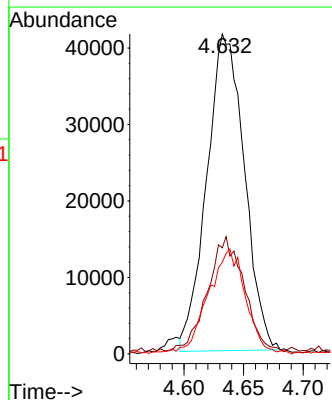
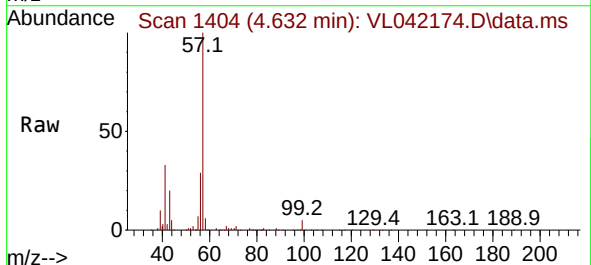
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

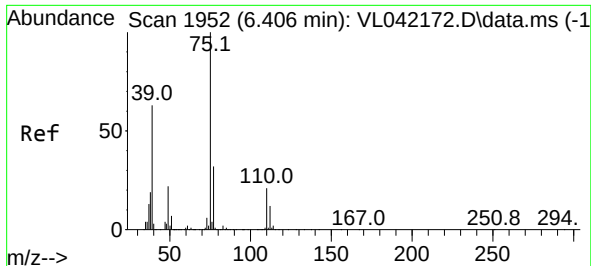
Tgt Ion: 69 Resp: 14387
Ion Ratio Lower Upper
69 100
41 246.1 123.8 185.6#
100 0.0 28.4 42.6#



#44
2,2,4-Trimethylpentane
Concen: 1.008 ppbv
RT: 4.632 min Scan# 1404
Delta R.T. -0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 57 Resp: 90727
Ion Ratio Lower Upper
57 100
41 35.9 26.8 40.2
56 33.7 25.6 38.4

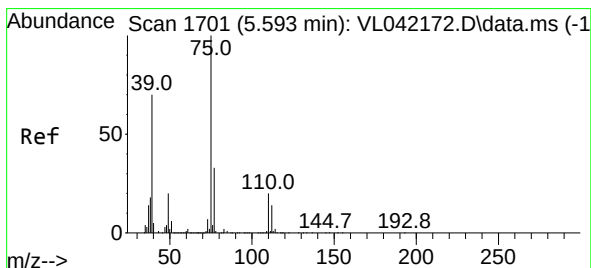
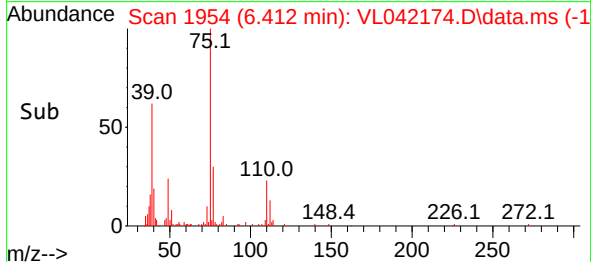
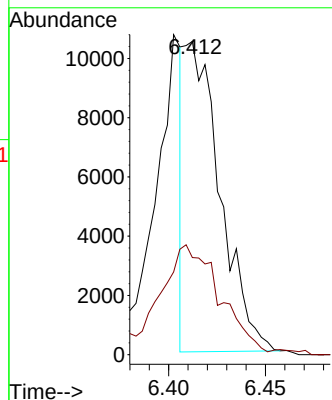
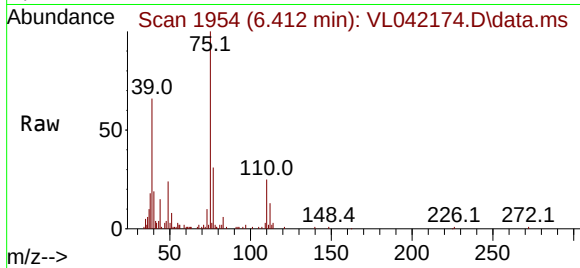




#45
 t-1,3-Dichloropropene
 Concen: 0.555 ppbv
 RT: 6.412 min Scan# 1952
 Delta R.T. 0.007 min
 Lab File: VL042174.D
 Acq: 27 Mar 2025 09:30

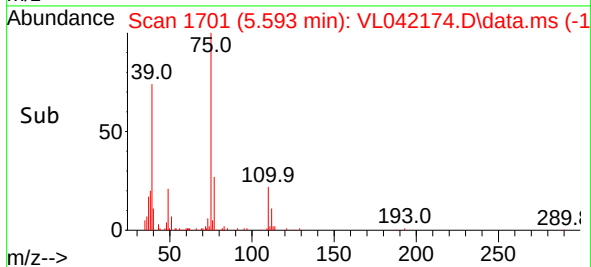
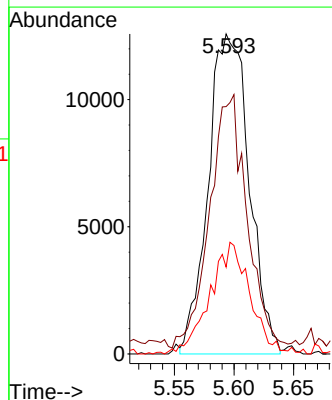
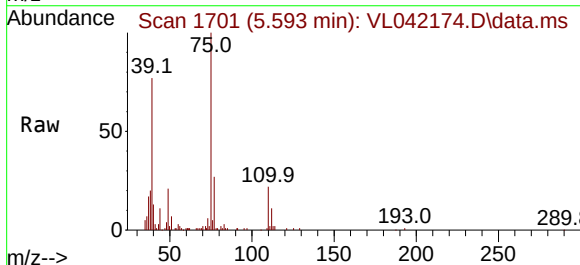
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

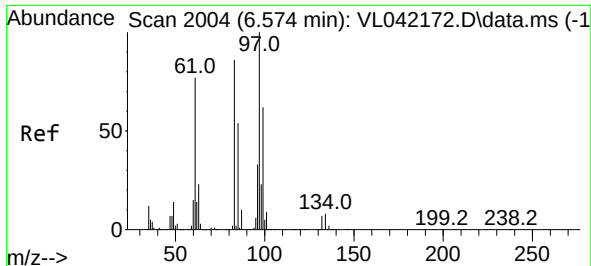
Tgt Ion: 75 Resp: 13431
 Ion Ratio Lower Upper
 75 100
 77 31.0 26.0 39.0



#46
 cis-1,3-Dichloropropene
 Concen: 1.014 ppbv
 RT: 5.593 min Scan# 1701
 Delta R.T. 0.000 min
 Lab File: VL042174.D
 Acq: 27 Mar 2025 09:30

Tgt Ion: 75 Resp: 30063
 Ion Ratio Lower Upper
 75 100
 39 74.2 55.8 83.6
 77 26.4 26.0 39.0

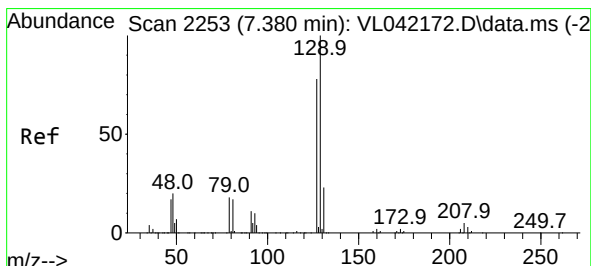
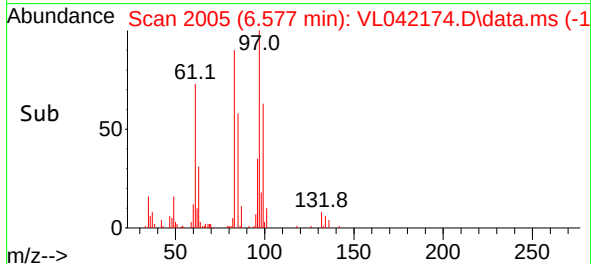
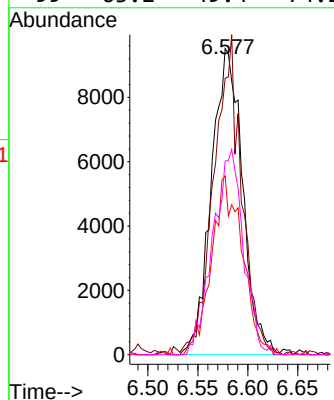
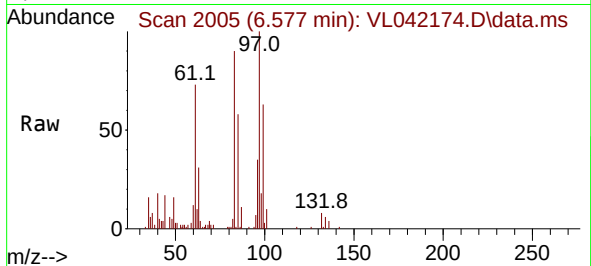




#47
1,1,2-Trichloroethane
Concen: 1.002 ppbv
RT: 6.577 min Scan# 2005
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

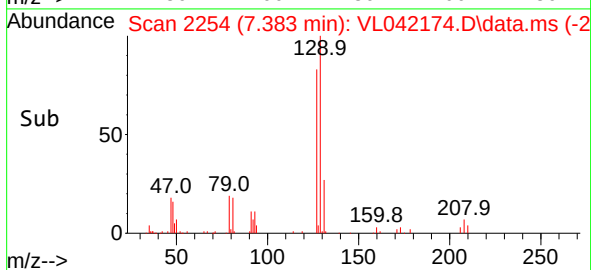
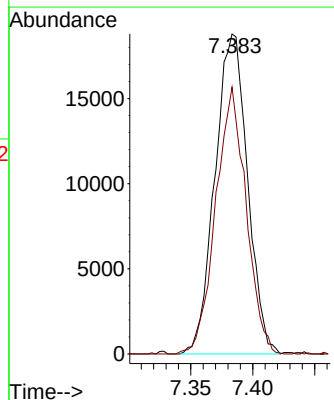
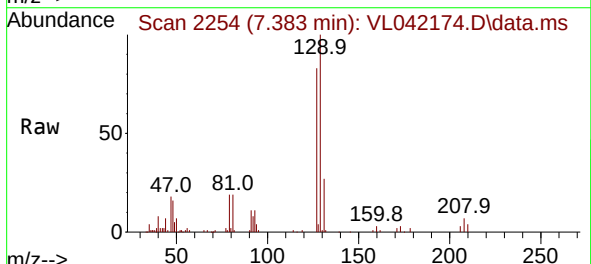
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

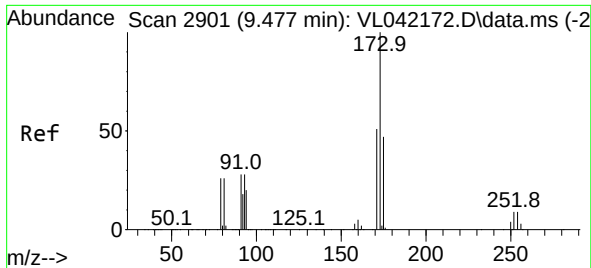
Tgt Ion: 97	Resp: 20546
Ion Ratio	Lower Upper
97 100	
83 89.7	69.2 103.8
85 58.4	43.1 64.7
99 63.2	49.4 74.2



#48
Dibromochloromethane
Concen: 0.991 ppbv
RT: 7.383 min Scan# 2254
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 129	Resp: 34425
Ion Ratio	Lower Upper
129 100	
127 78.1	39.1 117.2





#49

Bromoform

Concen: 1.013 ppbv

RT: 9.481 min Scan# 2901

Delta R.T. 0.003 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

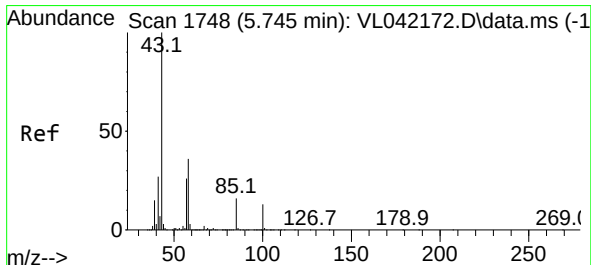
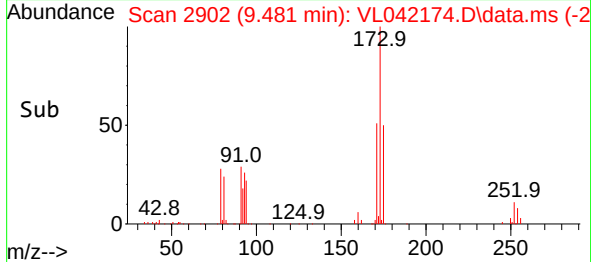
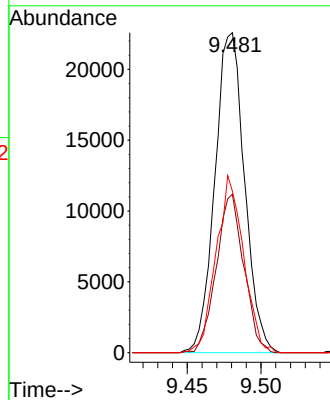
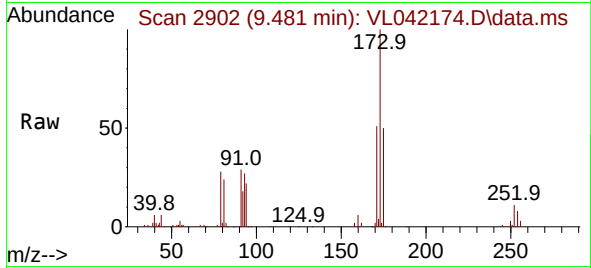
Tgt Ion:173 Resp: 31610

Ion Ratio Lower Upper

173 100

175 46.1 38.6 57.8

171 51.3 41.8 62.6



#50

4-Methyl-2-Pentanone

Concen: 0.556 ppbv

RT: 5.752 min Scan# 1750

Delta R.T. 0.007 min

Lab File: VL042174.D

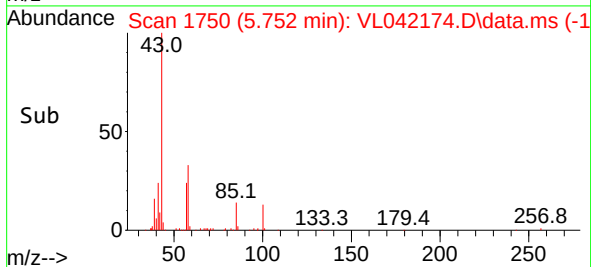
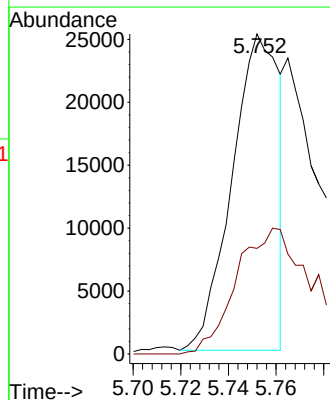
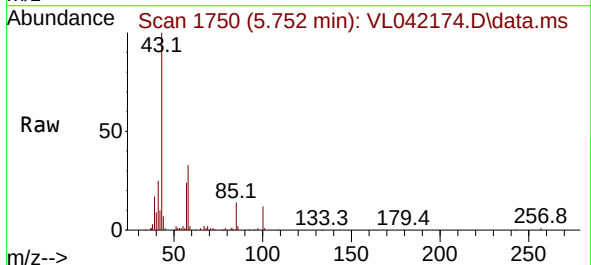
Acq: 27 Mar 2025 09:30

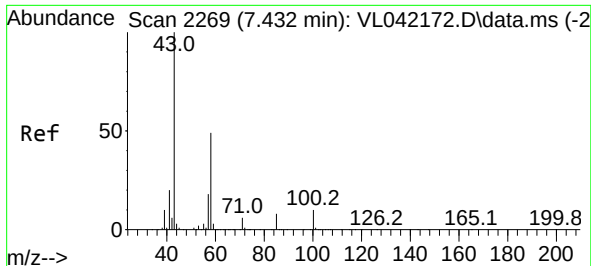
Tgt Ion: 43 Resp: 34358

Ion Ratio Lower Upper

43 100

58 0.0 29.0 43.6#

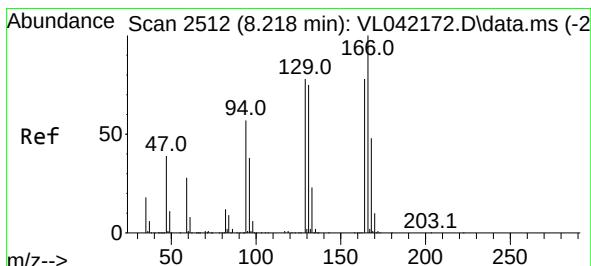
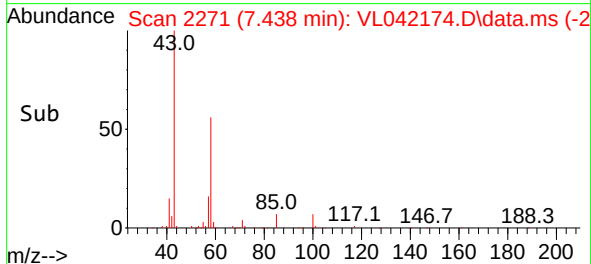
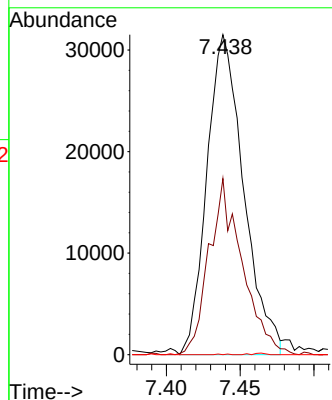
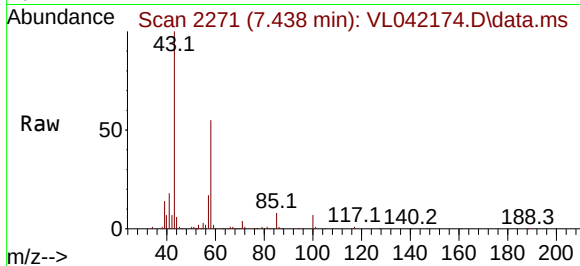




#51
2-Hexanone
Concen: 1.067 ppbv
RT: 7.438 min Scan# 21
Delta R.T. 0.007 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

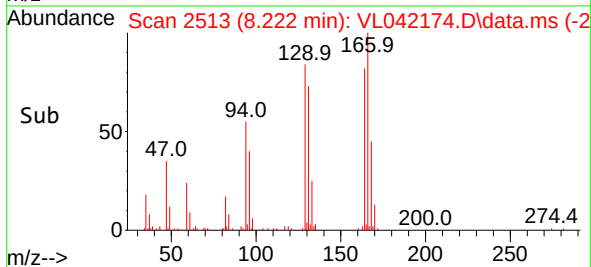
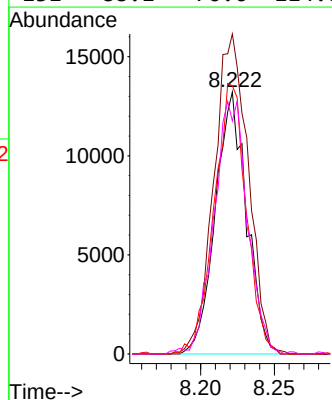
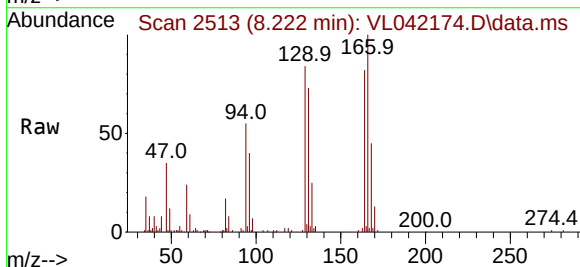
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

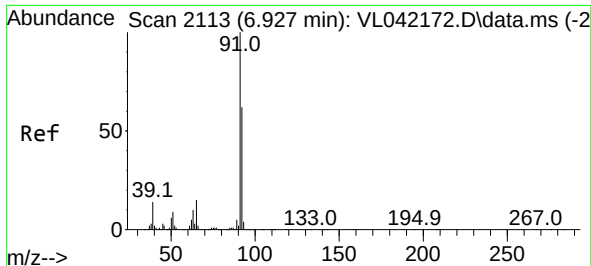
Tgt Ion: 43 Resp: 54680
Ion Ratio Lower Upper
43 100
58 49.8 39.7 59.5
98 0.2 0.1 0.1#



#52
Tetrachloroethene
Concen: 0.919 ppbv
RT: 8.222 min Scan# 2513
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 164 Resp: 19415
Ion Ratio Lower Upper
164 100
166 121.4 102.5 153.7
129 102.4 79.8 119.8
131 88.1 76.6 114.8

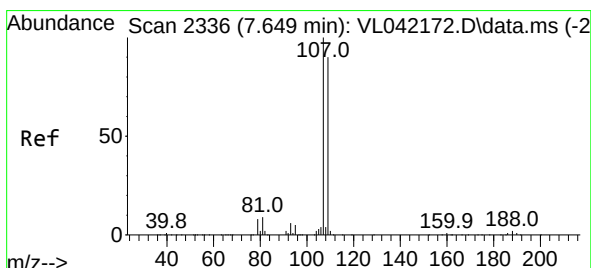
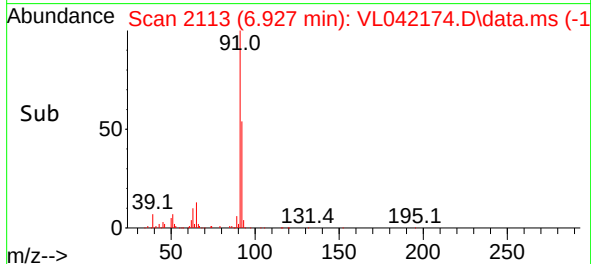
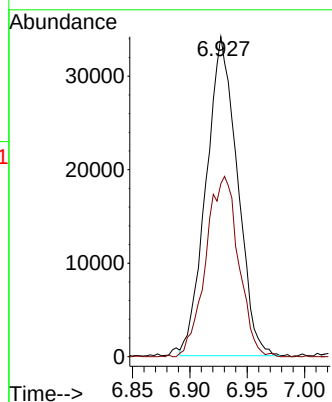
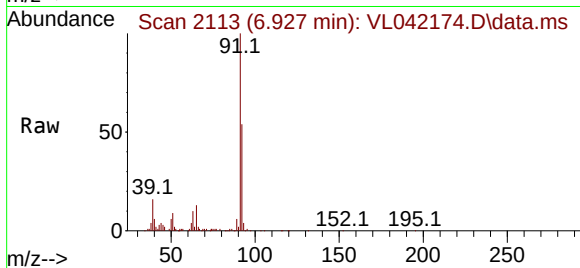




#53
Toluene
Concen: 1.023 ppbv
RT: 6.927 min Scan# 2113
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

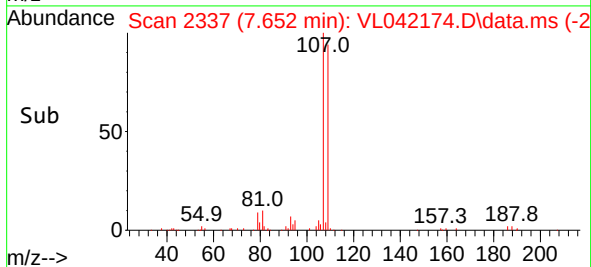
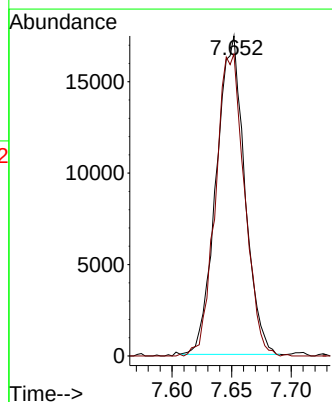
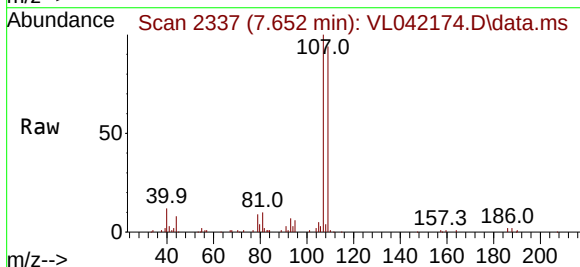
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

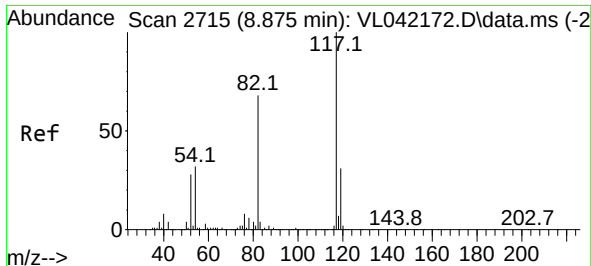
Tgt Ion: 91 Resp: 64612
Ion Ratio Lower Upper
91 100
92 59.4 48.4 72.6



#54
1,2-Dibromoethane
Concen: 1.009 ppbv
RT: 7.652 min Scan# 2337
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 107 Resp: 28879
Ion Ratio Lower Upper
107 100
109 94.8 72.2 108.4

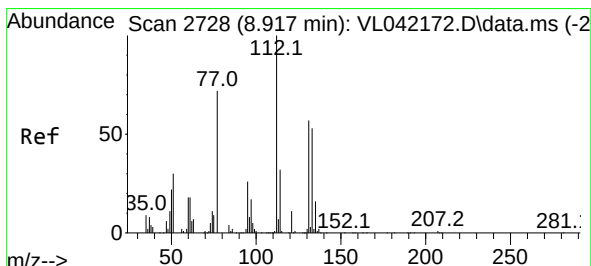
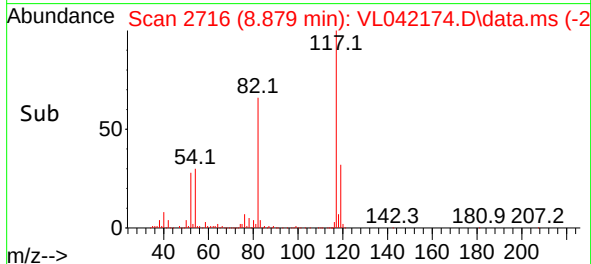
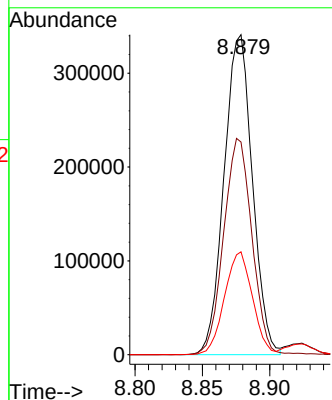
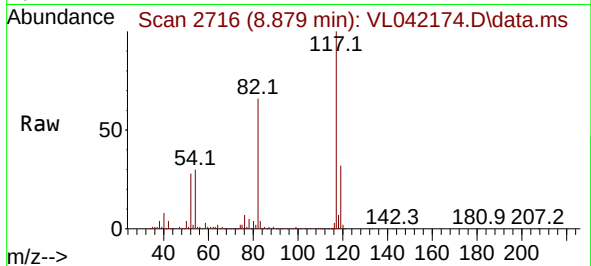




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.879 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

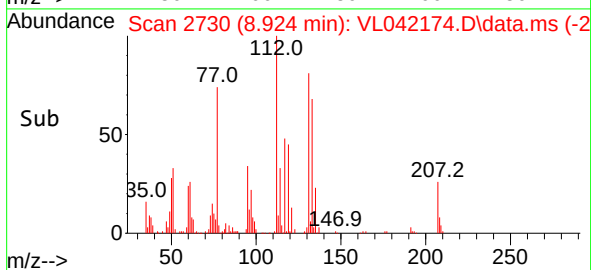
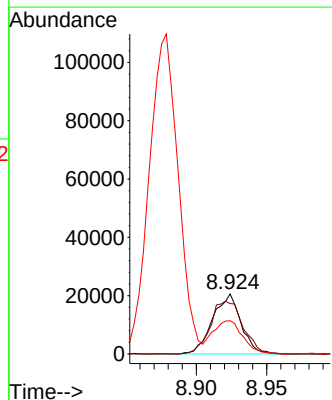
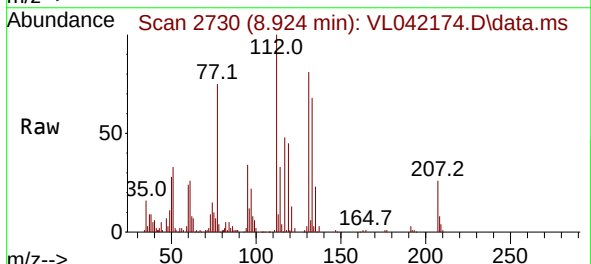
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

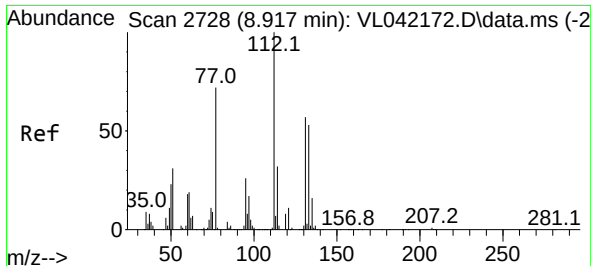
Tgt Ion:117 Resp: 499830
Ion Ratio Lower Upper
117 100
82 67.6 55.8 83.6
119 32.2 25.5 38.3



#56
1,1,1,2-Tetrachloroethane
Concen: 1.045 ppbv
RT: 8.924 min Scan# 2730
Delta R.T. 0.007 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion:131 Resp: 28764
Ion Ratio Lower Upper
131 100
133 101.7 76.6 114.8
119 44.1 49.8 74.6#

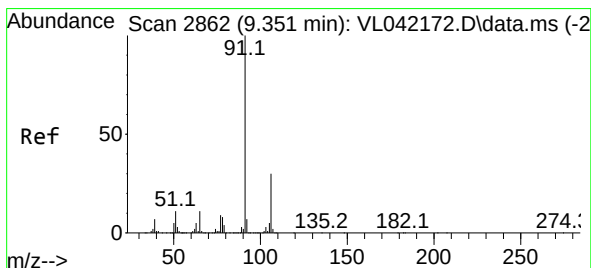
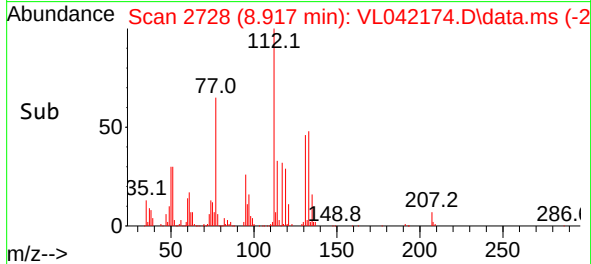
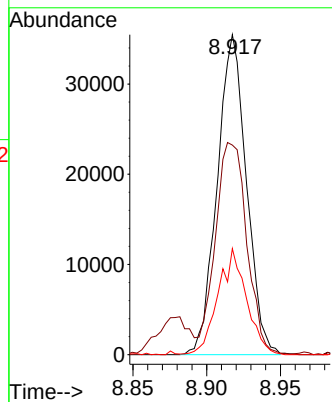
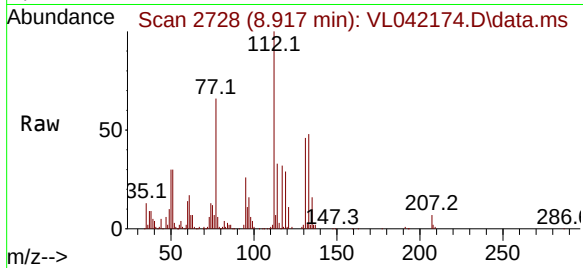




#57
Chlorobenzene
Concen: 1.032 ppbv
RT: 8.917 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

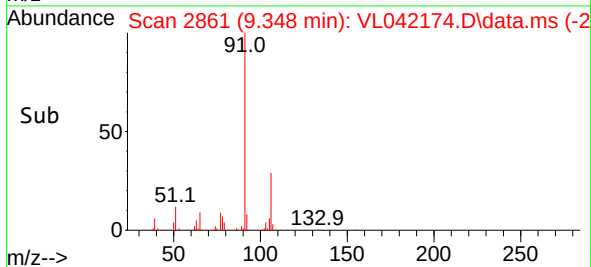
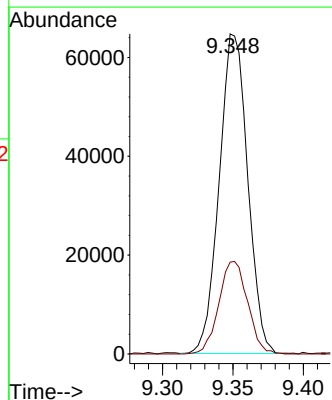
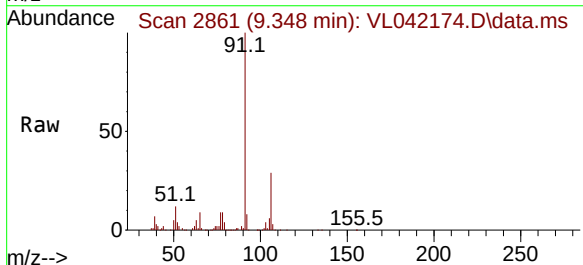
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

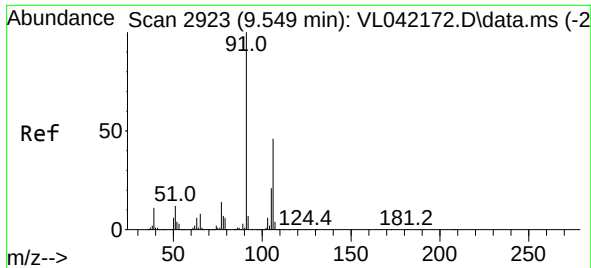
Tgt Ion:112 Resp: 48930
Ion Ratio Lower Upper
112 100
77 65.0 58.2 87.2
114 32.9 29.1 35.5



#58
Ethyl Benzene
Concen: 1.026 ppbv
RT: 9.348 min Scan# 2861
Delta R.T. -0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 91 Resp: 91086
Ion Ratio Lower Upper
91 100
106 28.7 24.2 36.2

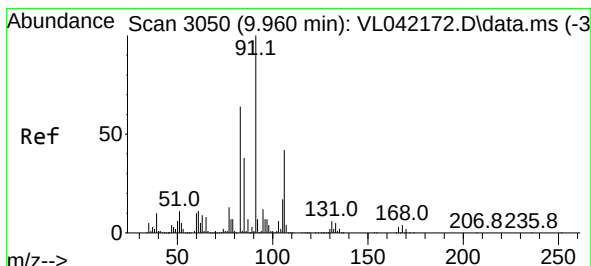
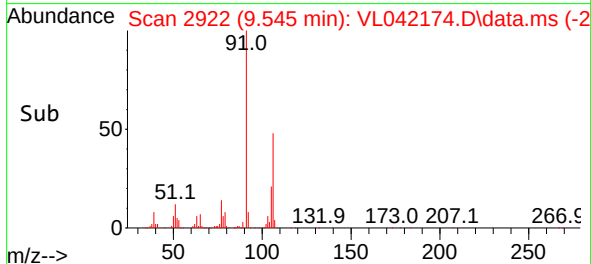
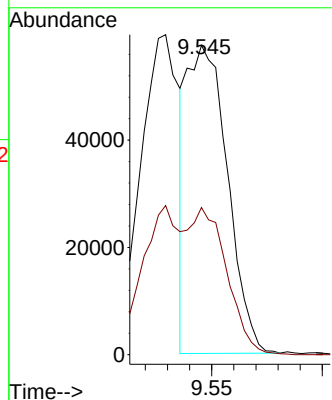
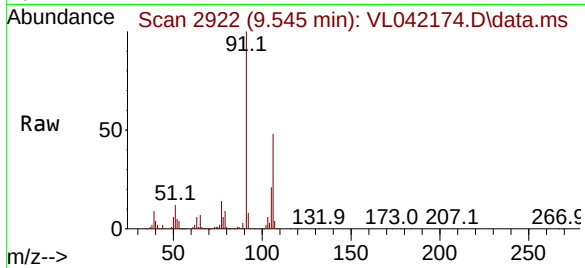




#59
m/p-Xylene
Concen: 1.033 ppbv
RT: 9.545 min Scan# 2923
Delta R.T. -0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

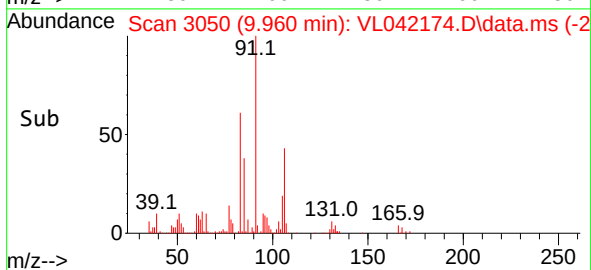
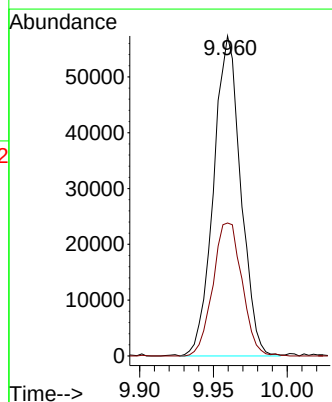
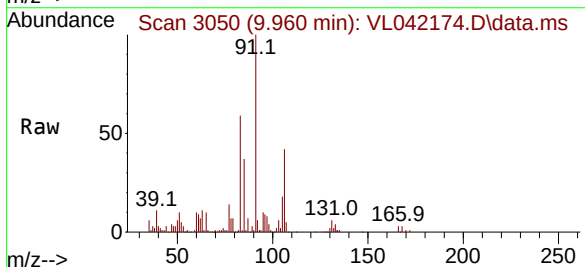
Instrument : MSVOA_1
ClientSampleId : VSTDIC001

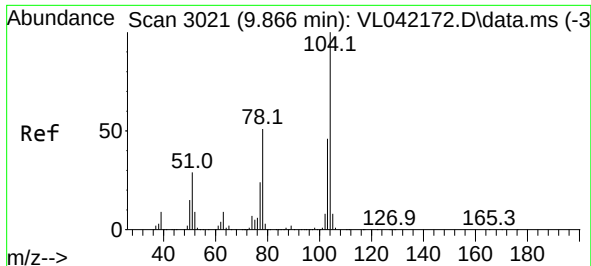
Tgt Ion: 91 Resp: 73295
Ion Ratio Lower Upper
91 100
106 0.0 36.4 54.6#



#60
o-Xylene
Concen: 1.037 ppbv
RT: 9.960 min Scan# 3050
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 91 Resp: 73702
Ion Ratio Lower Upper
91 100
106 44.3 20.8 62.5





#61

Styrene

Concen: 1.027 ppbv

RT: 9.866 min Scan# 3021

Delta R.T. 0.000 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC001

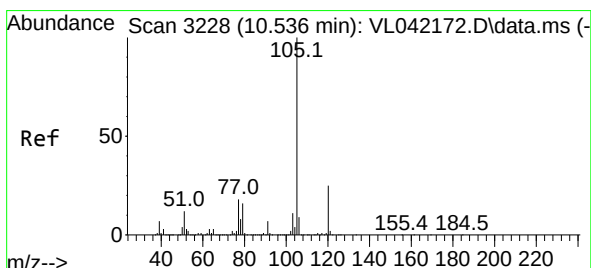
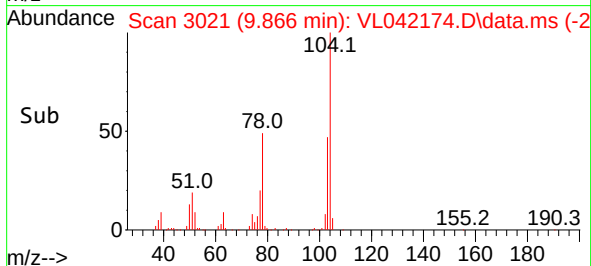
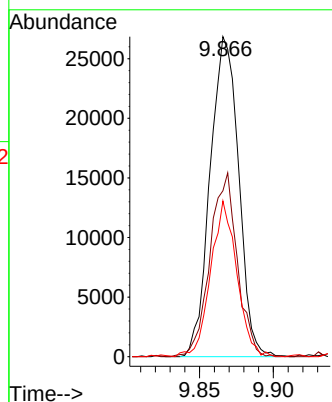
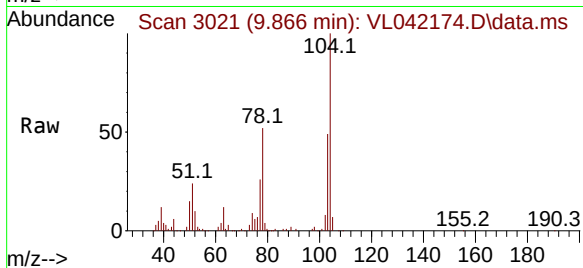
Tgt Ion:104 Resp: 36110

Ion Ratio Lower Upper

104 100

78 54.9 41.8 62.6

103 45.1 37.0 55.4



#62

Isopropylbenzene

Concen: 1.034 ppbv

RT: 10.536 min Scan# 3228

Delta R.T. 0.000 min

Lab File: VL042174.D

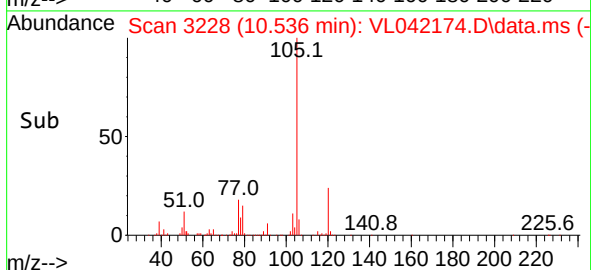
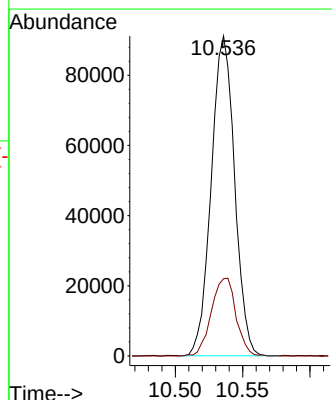
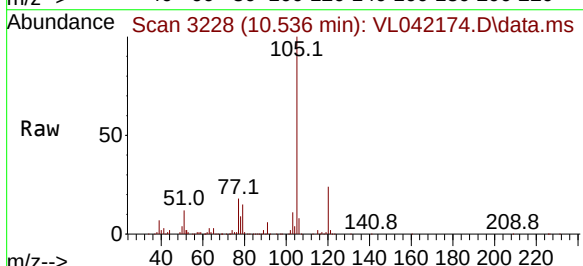
Acq: 27 Mar 2025 09:30

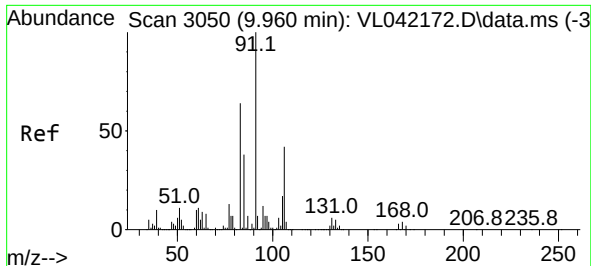
Tgt Ion:105 Resp: 109897

Ion Ratio Lower Upper

105 100

120 25.7 19.9 29.9

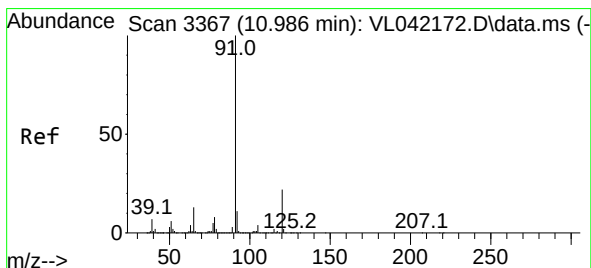
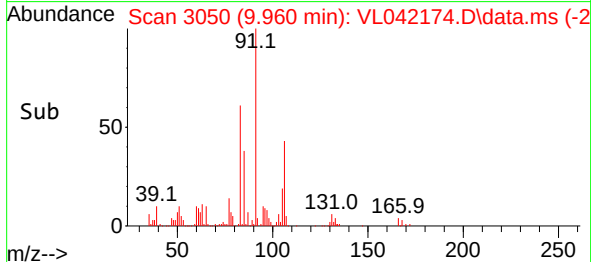
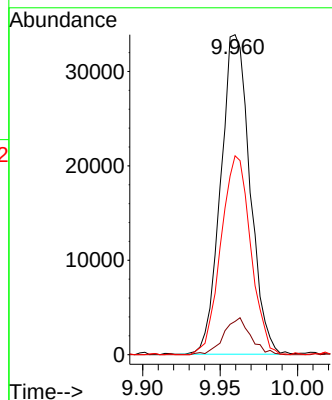
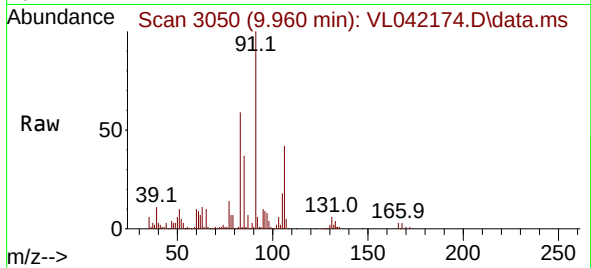




#63
1,1,2,2-Tetrachloroethane
Concen: 1.029 ppbv
RT: 9.960 min Scan# 3050
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

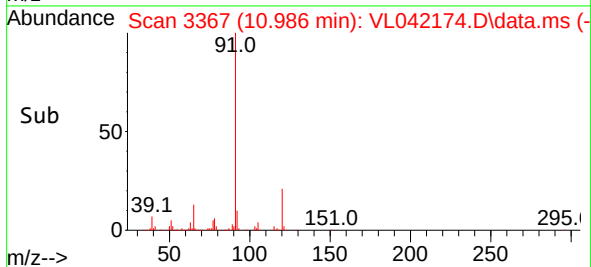
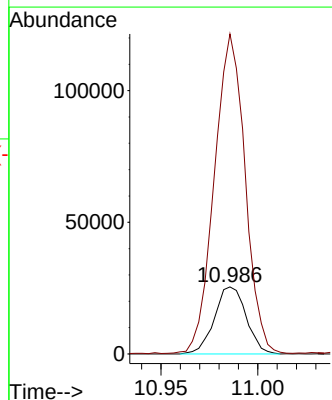
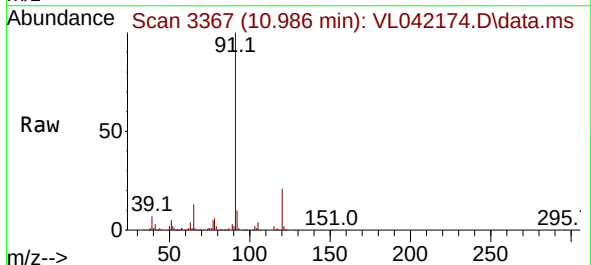
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

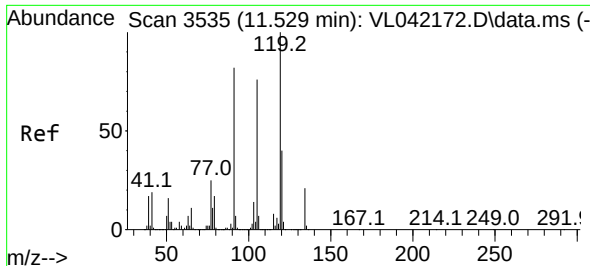
Tgt Ion: 83 Resp: 44431
Ion Ratio Lower Upper
83 100
131 10.6 4.8 14.4
85 64.0 32.5 97.5



#64
n-propylbenzene
Concen: 1.062 ppbv
RT: 10.986 min Scan# 3367
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 120 Resp: 29054
Ion Ratio Lower Upper
120 100
91 466.9 376.9 565.3

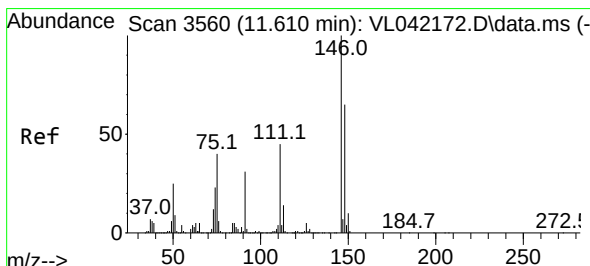
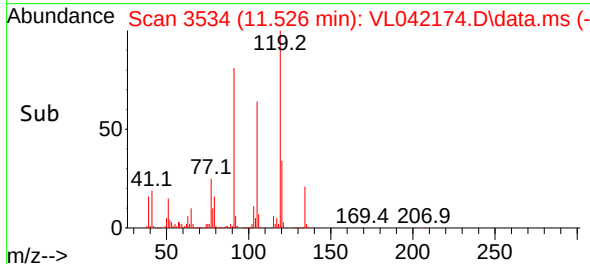
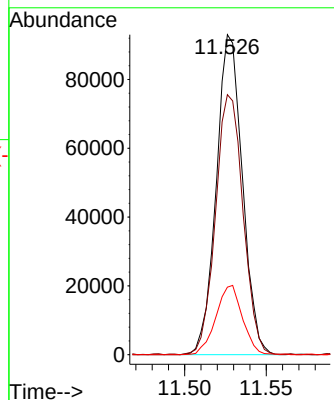
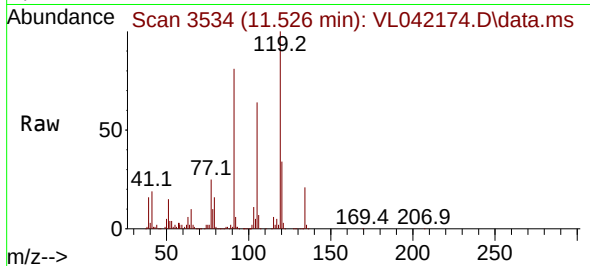




#65
tert-Butylbenzene
Concen: 1.053 ppbv
RT: 11.526 min Scan# 3534
Delta R.T. -0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

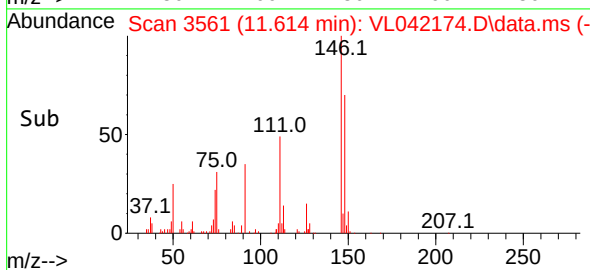
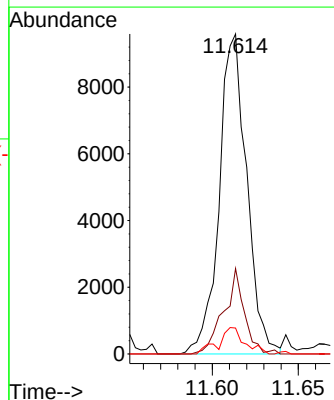
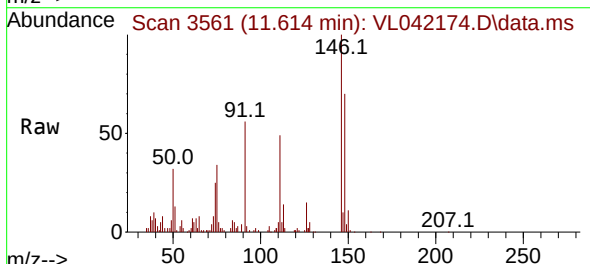
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

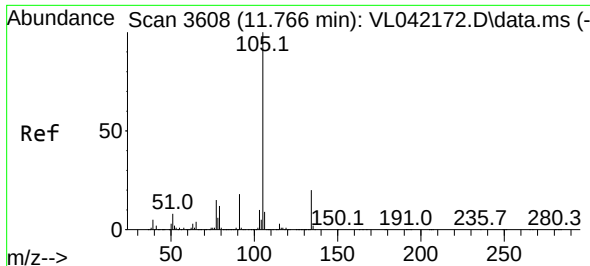
Tgt Ion:119 Resp: 103520
Ion Ratio Lower Upper
119 100
91 85.9 66.0 99.0
134 22.1 16.7 25.1



#66
Benzyl Chloride
Concen: 1.022 ppbv
RT: 11.614 min Scan# 3561
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 91 Resp: 10660
Ion Ratio Lower Upper
91 100
126 20.0 13.8 20.6
128 8.0 4.5 6.7#

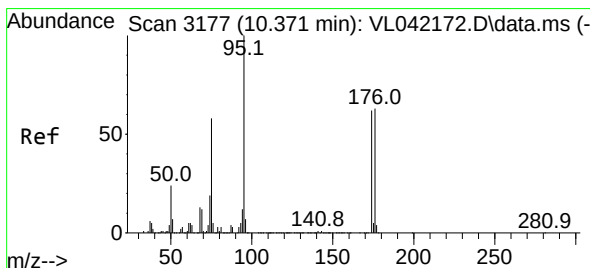
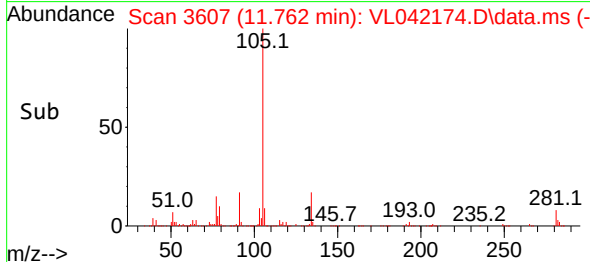
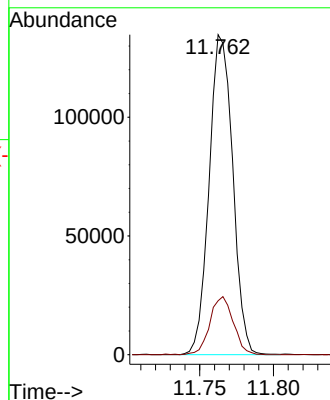
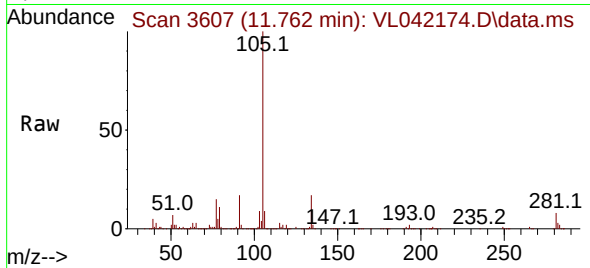




#67
sec-Butylbenzene
Concen: 1.095 ppbv
RT: 11.762 min Scan# 3607
Delta R.T. -0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

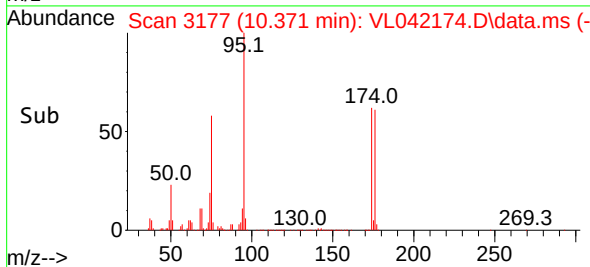
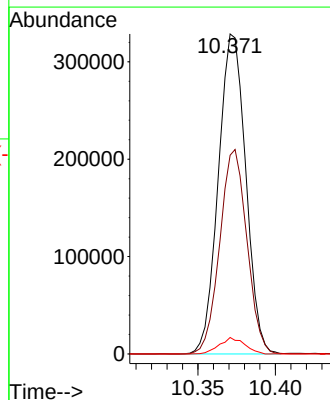
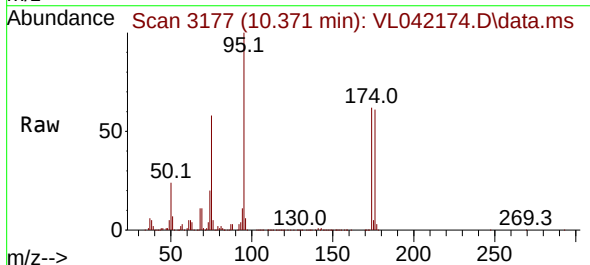
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

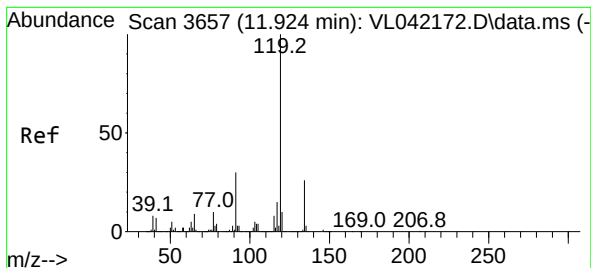
Tgt Ion:105 Resp: 149660
Ion Ratio Lower Upper
105 100
134 18.1 15.5 23.3



#68
1-Bromo-4-Fluorobenzene
Concen: 9.861 ppbv
RT: 10.371 min Scan# 3177
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 95 Resp: 404753
Ion Ratio Lower Upper
95 100
174 63.4 50.6 76.0
175 4.7 3.8 5.6





#69

p-Isopropyltoluene

Concen: 1.084 ppbv

RT: 11.921 min Scan# 3656

Delta R.T. -0.003 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC001

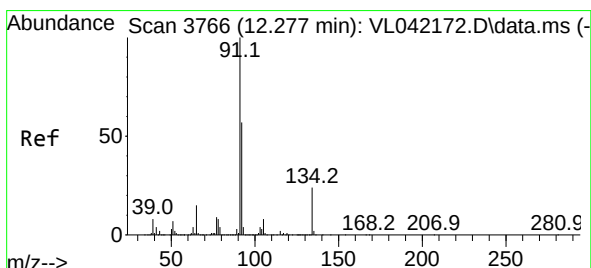
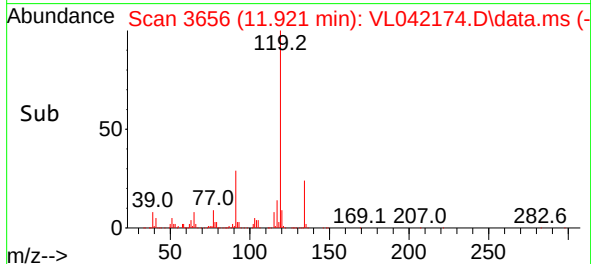
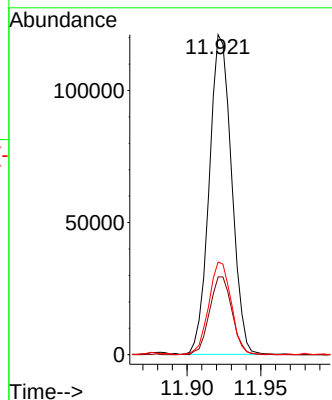
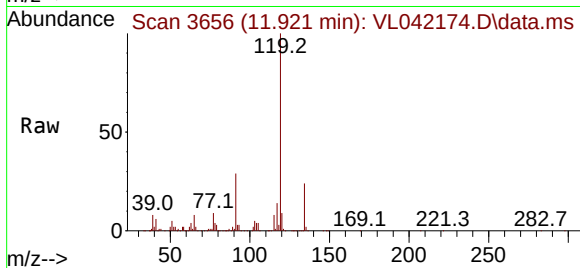
Tgt Ion:119 Resp: 127509

Ion Ratio Lower Upper

119 100

134 24.6 20.4 30.6

91 30.0 23.7 35.5



#70

n-Butylbenzene

Concen: 1.079 ppbv

RT: 12.280 min Scan# 3767

Delta R.T. 0.003 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

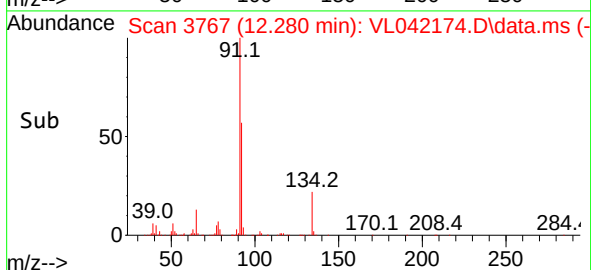
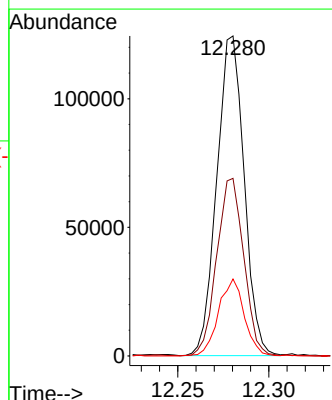
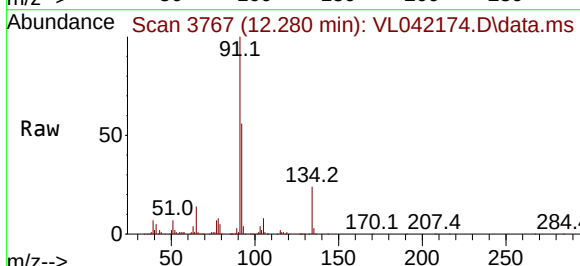
Tgt Ion: 91 Resp: 129860

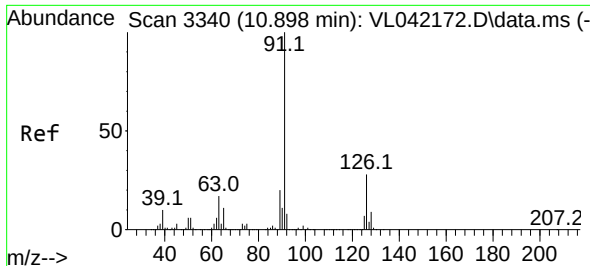
Ion Ratio Lower Upper

91 100

92 55.5 44.9 67.3

134 22.8 19.2 28.8

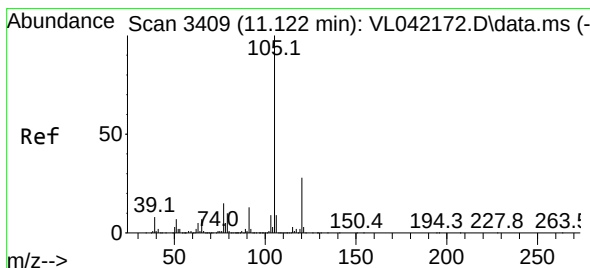
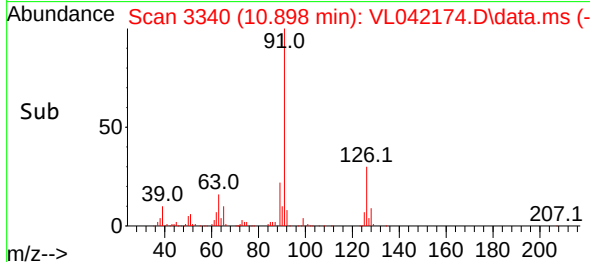
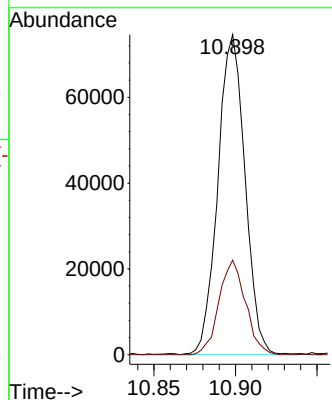
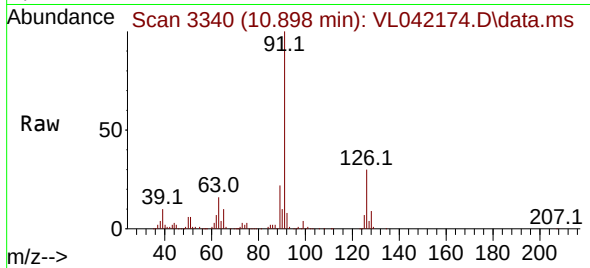




#71
2-Chlorotoluene
Concen: 1.047 ppbv
RT: 10.898 min Scan# 31
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

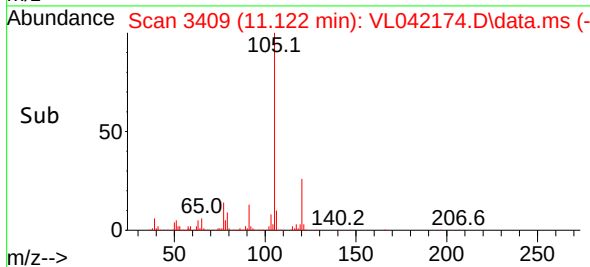
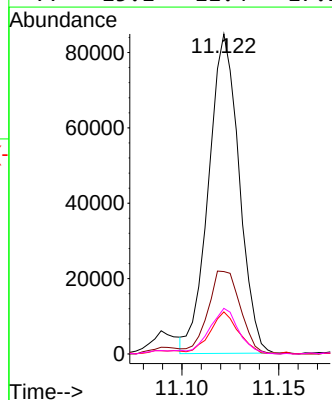
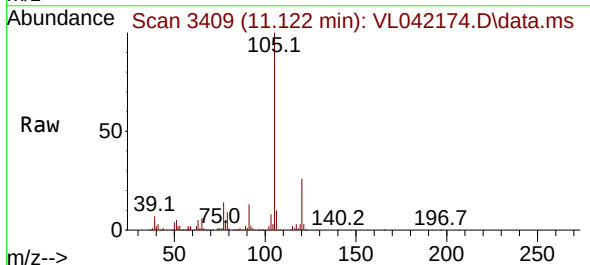
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

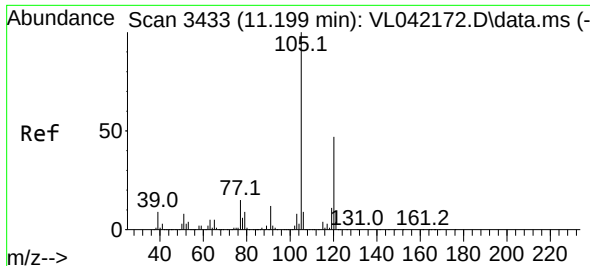
Tgt Ion: 91 Resp: 86356
Ion Ratio Lower Upper
91 100
126 28.8 11.6 46.4



#72
4-Ethyltoluene
Concen: 1.050 ppbv
RT: 11.122 min Scan# 3409
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 105 Resp: 92912
Ion Ratio Lower Upper
105 100
120 29.7 23.4 35.0
91 13.5 10.3 15.5
77 15.1 11.4 17.2

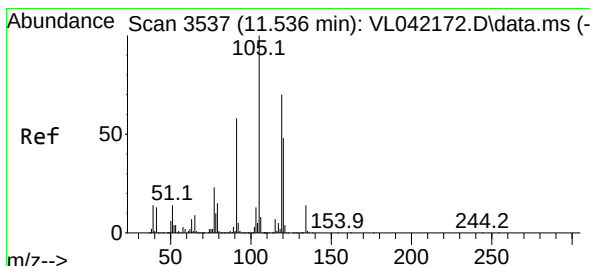
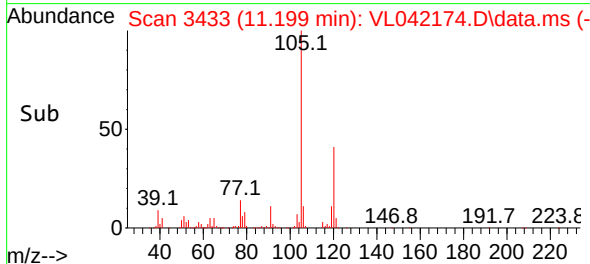
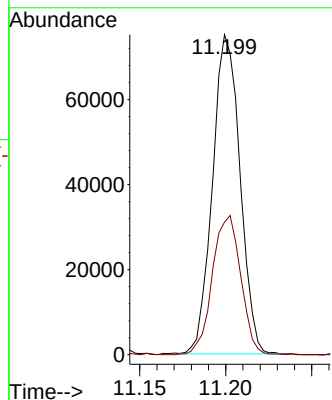
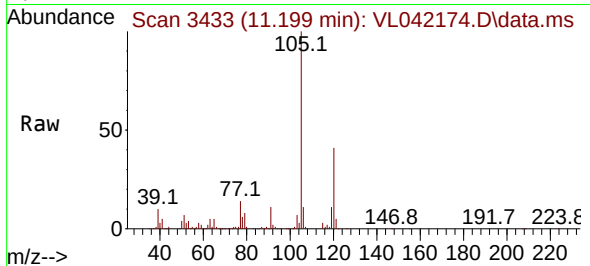




#73
1,3,5-Trimethylbenzene
Concen: 1.080 ppbv
RT: 11.199 min Scan# 3433
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

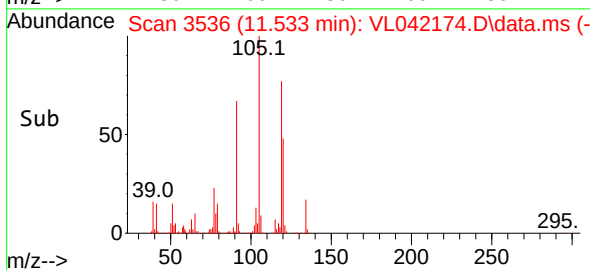
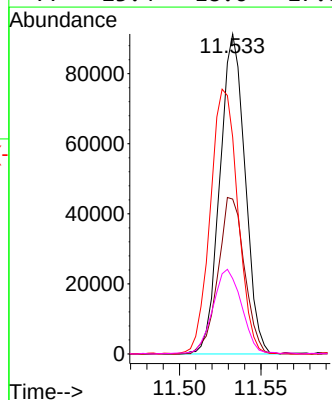
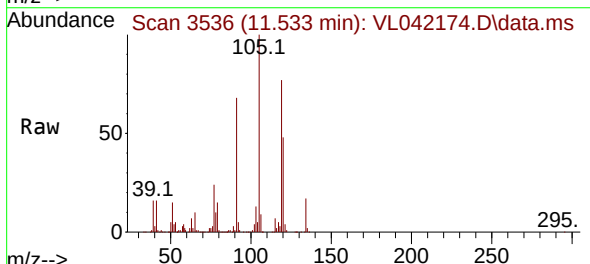
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

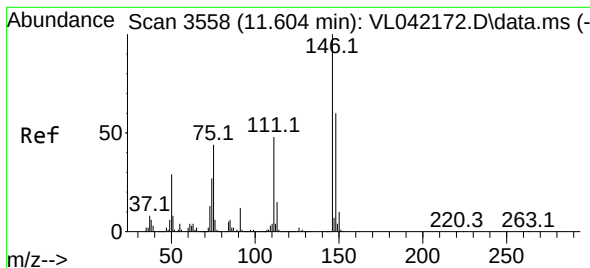
Tgt Ion:105 Resp: 83497
Ion Ratio Lower Upper
105 100
120 41.3 37.4 56.0



#74
1,2,4-Trimethylbenzene
Concen: 1.099 ppbv
RT: 11.533 min Scan# 3536
Delta R.T. -0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion:105 Resp: 97858
Ion Ratio Lower Upper
105 100
120 48.4 38.6 58.0
91 67.6 46.2 69.2
77 23.4 18.6 27.8





#75

1,3-Dichlorobenzene

Concen: 1.046 ppbv

RT: 11.604 min Scan# 3558

Delta R.T. 0.000 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC001

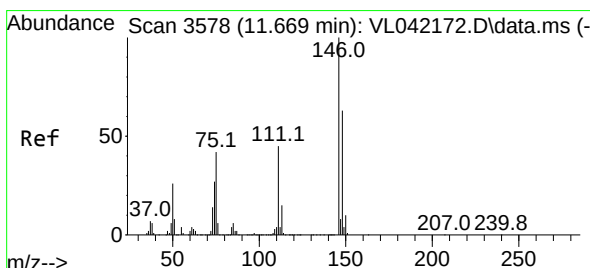
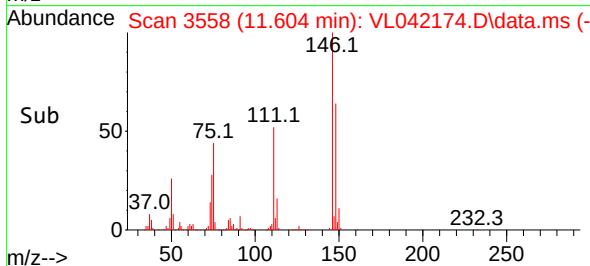
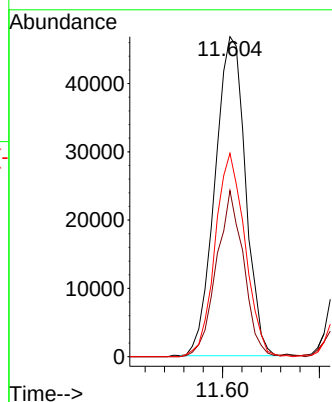
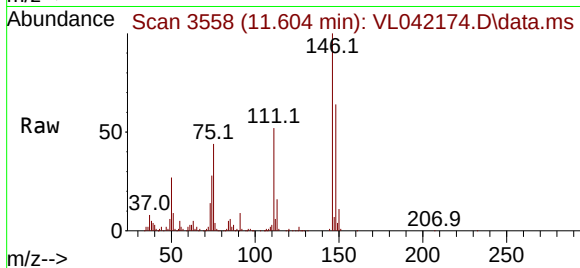
Tgt Ion:146 Resp: 51096

Ion Ratio Lower Upper

146 100

111 46.8 23.8 71.2

148 62.6 31.9 95.9



#76

1,4-Dichlorobenzene

Concen: 1.046 ppbv

RT: 11.669 min Scan# 3578

Delta R.T. 0.000 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

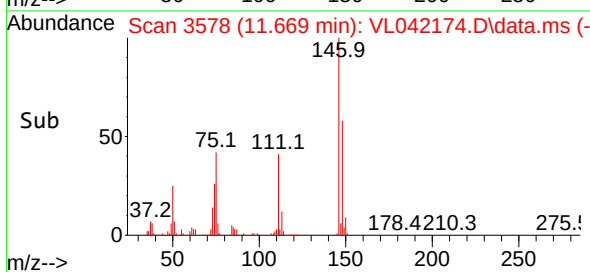
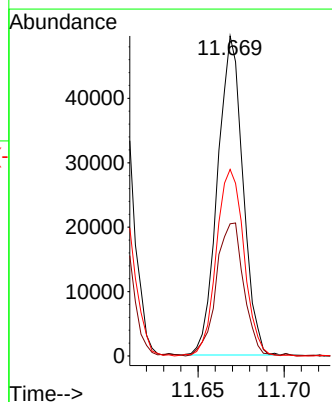
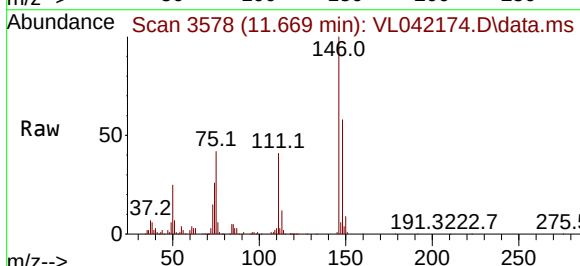
Tgt Ion:146 Resp: 50841

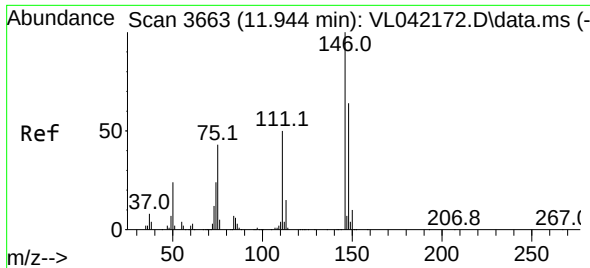
Ion Ratio Lower Upper

146 100

111 45.4 23.0 69.0

148 63.6 31.9 95.7

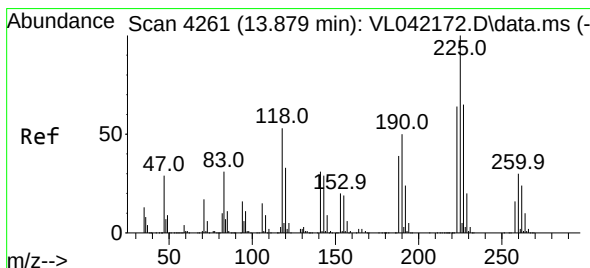
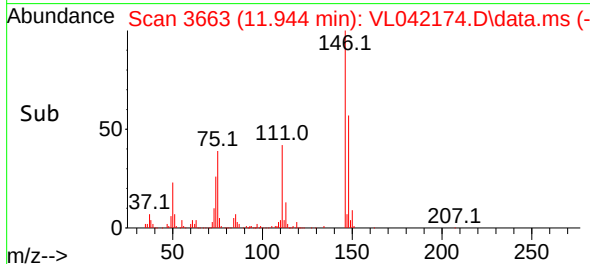
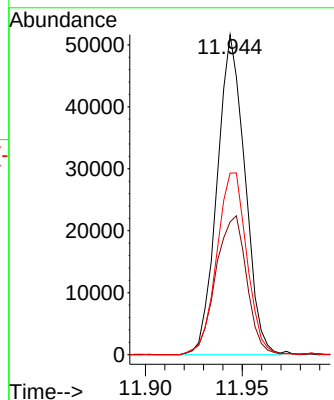
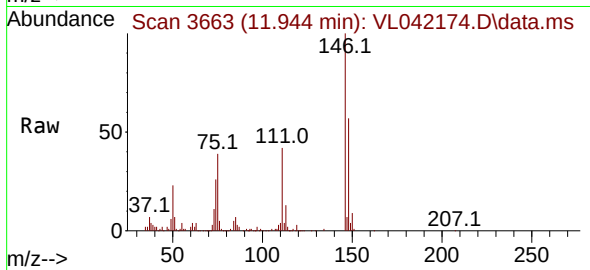




#77
1,2-Dichlorobenzene
Concen: 1.084 ppbv
RT: 11.944 min Scan# 3663
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

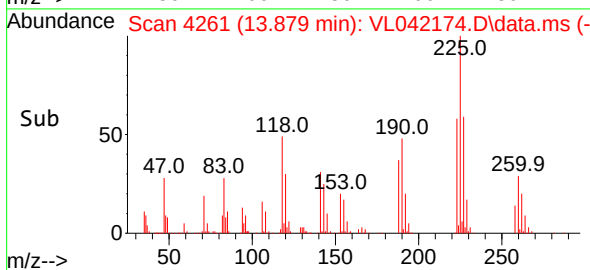
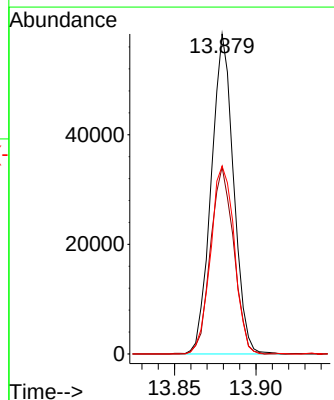
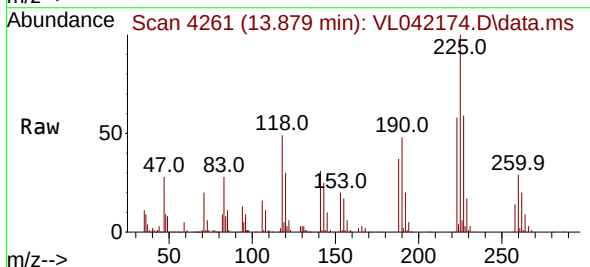
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

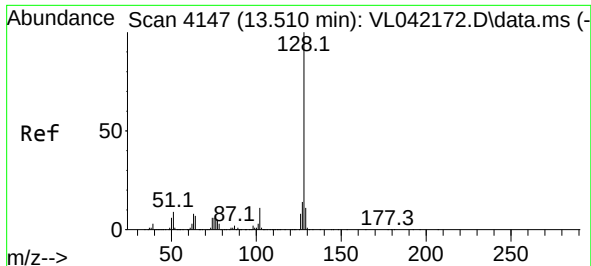
Tgt Ion:	146	Resp:	51523
Ion	Ratio	Lower	Upper
146	100		
111	48.6	24.8	74.3
148	61.9	31.6	94.8



#78
Hexachloro-1,3-Butadiene
Concen: 1.149 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion:	225	Resp:	55611
Ion	Ratio	Lower	Upper
225	100		
223	60.8	50.6	76.0
227	62.3	51.2	76.8





#79

Naphthalene

Concen: 1.120 ppbv

RT: 13.510 min Scan# 4147

Delta R.T. 0.000 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

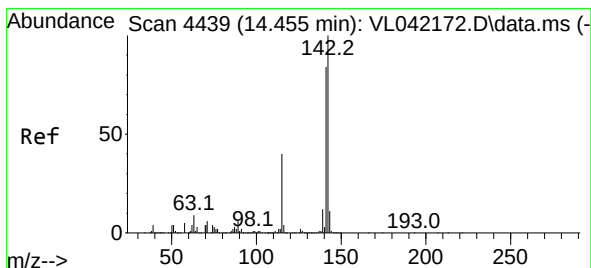
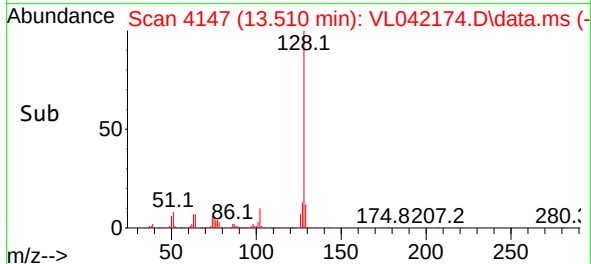
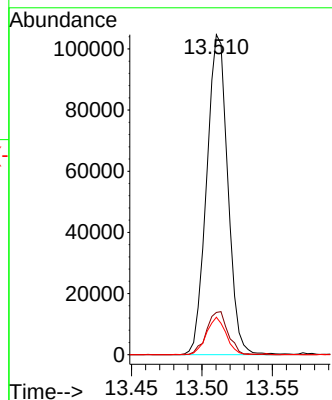
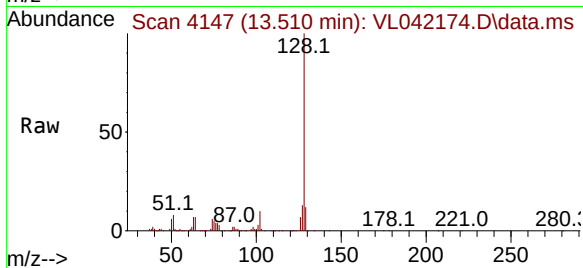
Tgt Ion:128 Resp: 109031

Ion Ratio Lower Upper

128 100

127 13.2 10.8 16.2

129 11.7 9.0 13.4



#80

Naphthalene,2-methyl-

Concen: 0.939 ppbv

RT: 14.455 min Scan# 4439

Delta R.T. 0.000 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

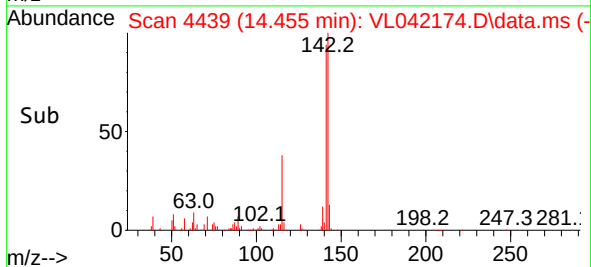
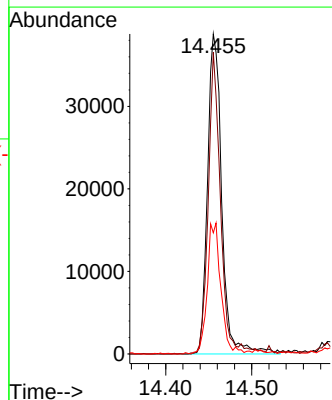
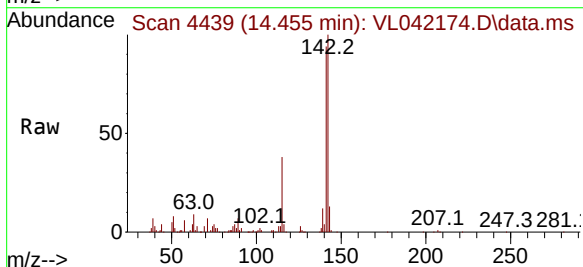
Tgt Ion:142 Resp: 44518

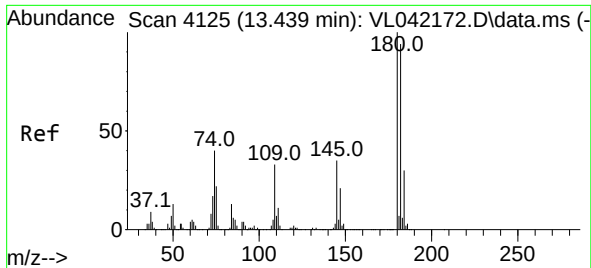
Ion Ratio Lower Upper

142 100

141 83.4 66.3 99.5

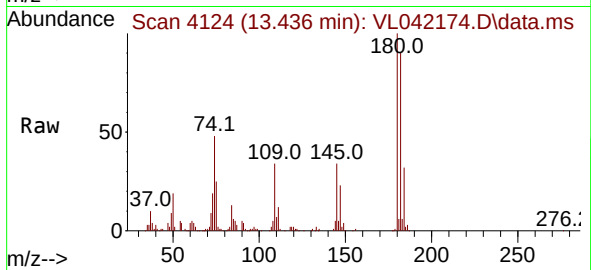
115 41.5 31.6 47.4



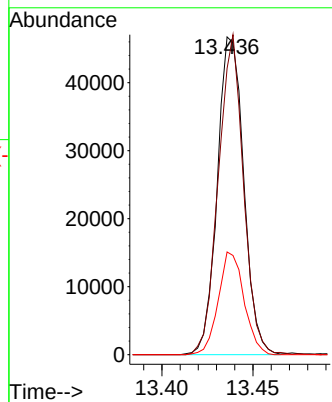
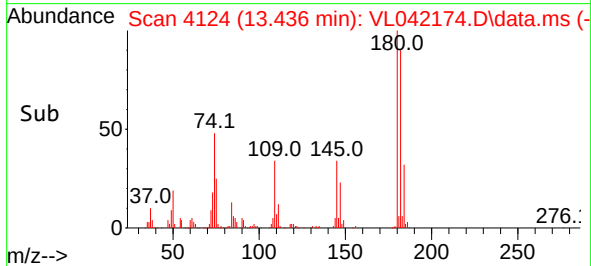


#81
 1,2,4-Trichlorobenzene
 Concen: 1.047 ppbv
 RT: 13.436 min Scan# 41
 Delta R.T. -0.003 min
 Lab File: VL042174.D
 Acq: 27 Mar 2025 09:30

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001



Tgt Ion:	180	Resp:	47040
Ion Ratio	Lower	Upper	
180	100		
182	95.7	75.1	112.7
184	31.4	24.4	36.6



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

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 26 06:05:16 2022
 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	1.557	41	2054	0.167	ppbv	92
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	9635	0.438	ppbv #	70
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	4.545	130	4992	0.230	ppbv	95
39) 1,2-Dichloropropane	4.308	63	10123	0.535	ppbv	92
40) 1,4-Dioxane	4.593	88	4487	0.457	ppbv #	24
41) Tetrahydrofuran	3.059	42	10856	0.502	ppbv	94
42) Bromodichloromethane	4.483	83	20374	0.497	ppbv #	98
43) Methyl Methacrylate	4.875	69	6229	0.284	ppbv #	10
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 : VSTDIC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

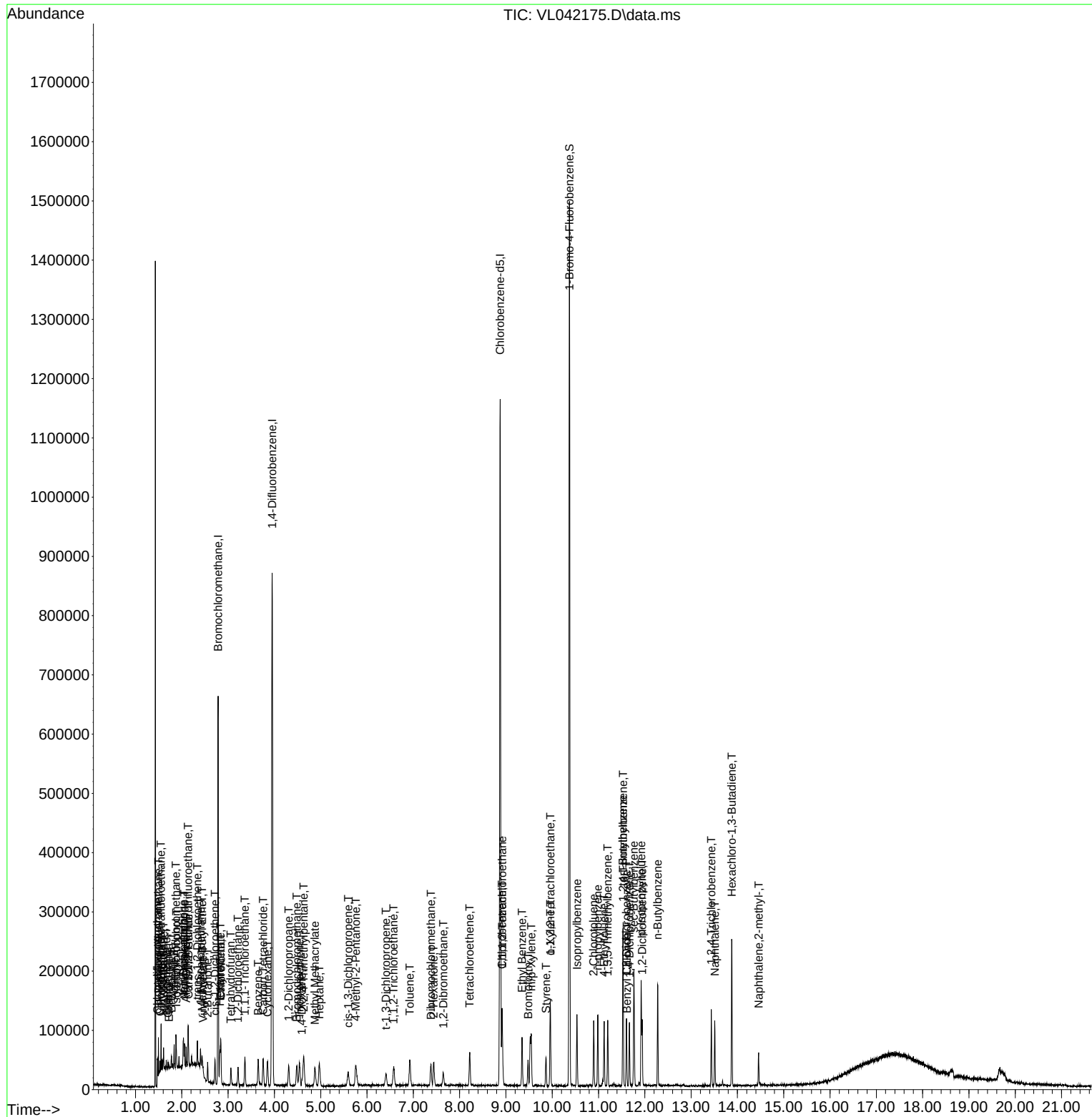
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 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 01:31:23 2025
 Response via : Initial Calibration

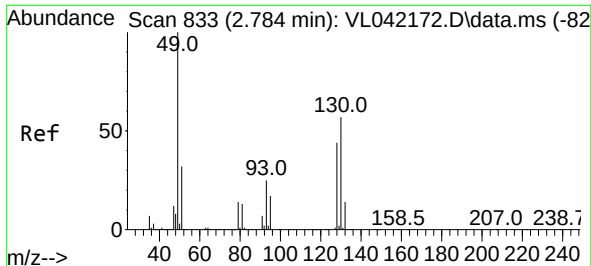
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	8584	0.297	ppbv #	91
47) 1,1,2-Trichloroethane	6.574	97	8374	0.419	ppbv	96
48) Dibromochloromethane	7.380	129	17042	0.503	ppbv	99
49) Bromoform	9.480	173	14828	0.487	ppbv	98
50) 4-Methyl-2-Pentanone	5.758	43	33674	0.559	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	9.548	91	18711	0.272	ppbv #	1
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

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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 26 06:05:16 2022
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration

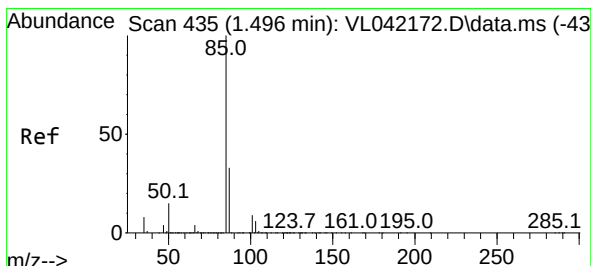
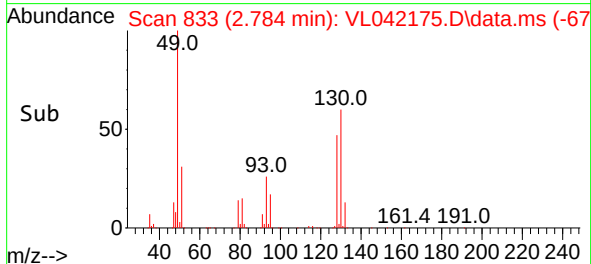
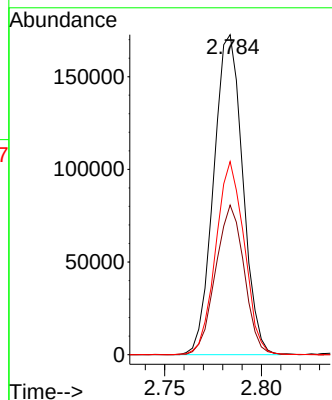
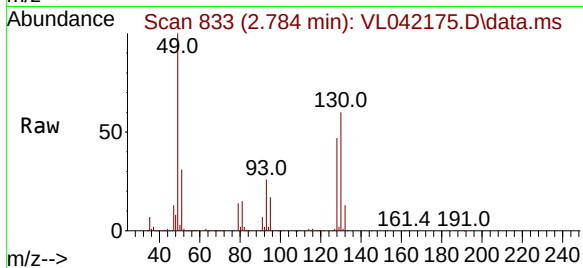




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 833
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

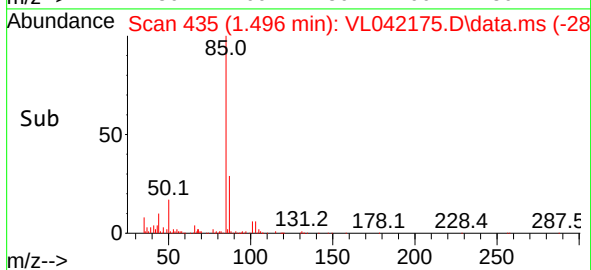
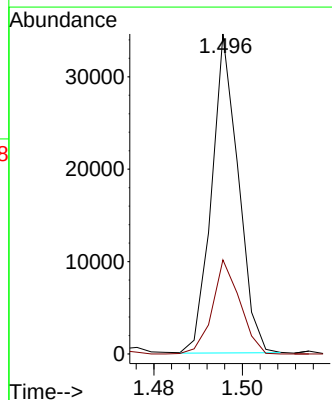
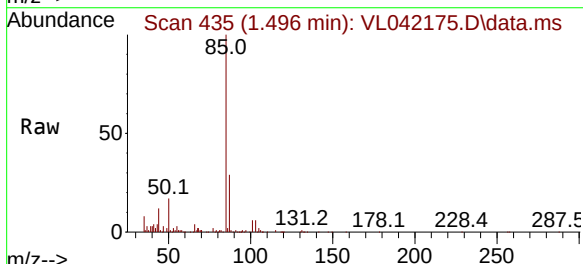
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

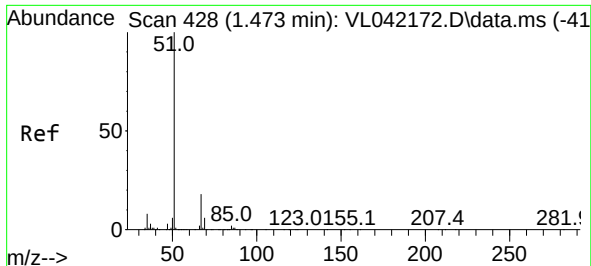
Tgt Ion: 49 Resp: 180502
Ion Ratio Lower Upper
49 100
128 46.1 22.9 68.5
130 59.2 28.8 86.4



#2
Dichlorodifluoromethane
Concen: 0.542 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 85 Resp: 14455
Ion Ratio Lower Upper
85 100
87 29.5 26.1 39.1

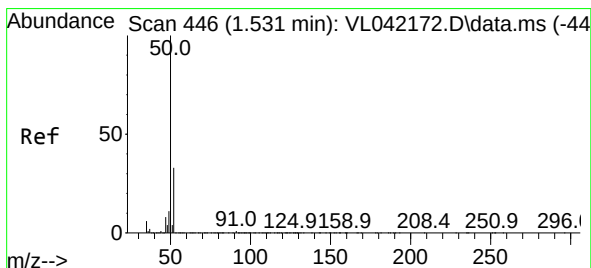
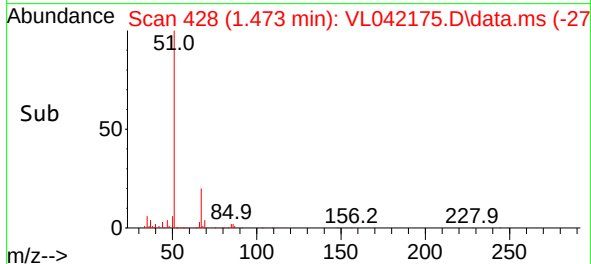
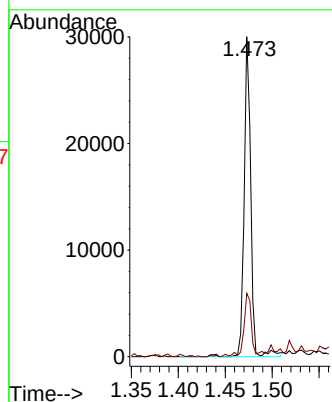
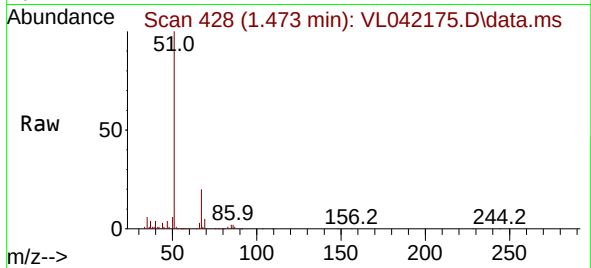




#3
Chlorodifluoromethane
Concen: 0.538 ppbv
RT: 1.473 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

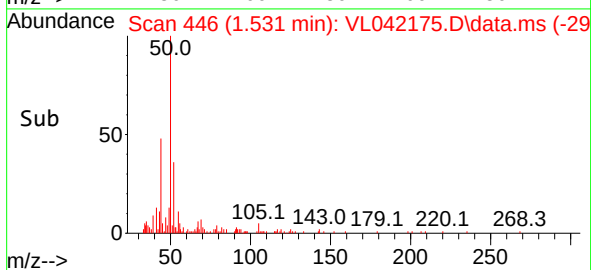
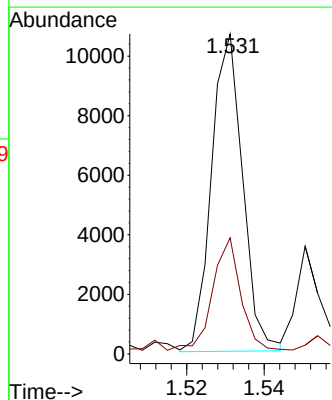
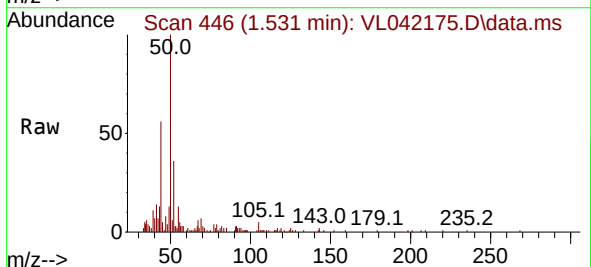
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

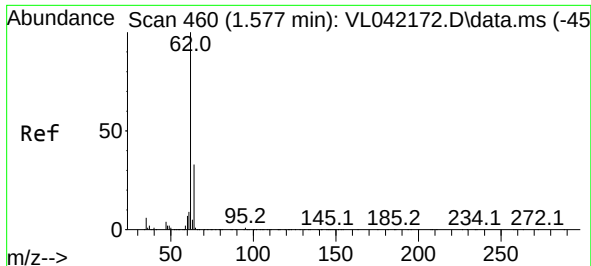
Tgt Ion: 51 Resp: 14637
Ion Ratio Lower Upper
51 100
67 23.6 15.0 22.6#



#4
Chloromethane
Concen: 0.547 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 50 Resp: 5956
Ion Ratio Lower Upper
50 100
52 36.1 26.1 39.1

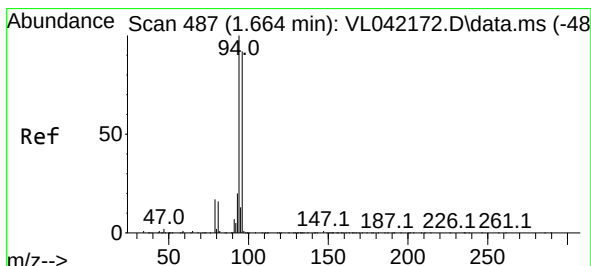
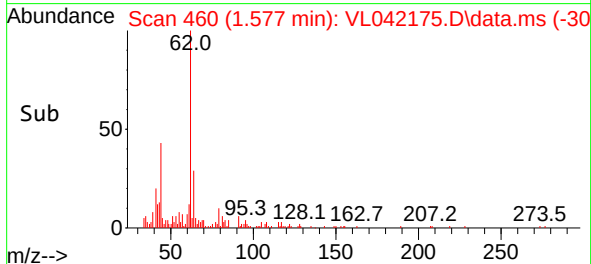
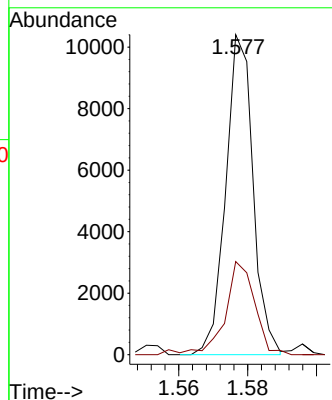
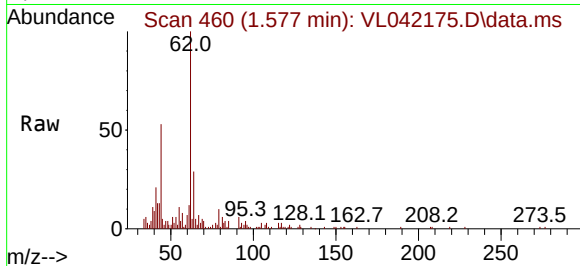




#5
 Vinyl Chloride
 Concen: 0.516 ppbv
 RT: 1.577 min Scan# 460
 Delta R.T. -0.000 min
 Lab File: VL042175.D
 Acq: 27 Mar 2025 10:01

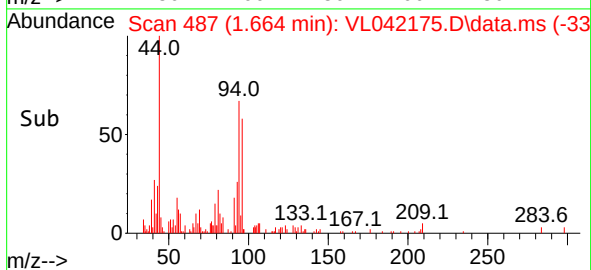
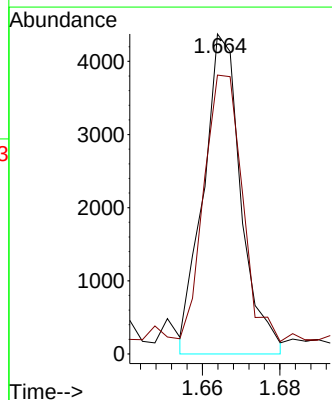
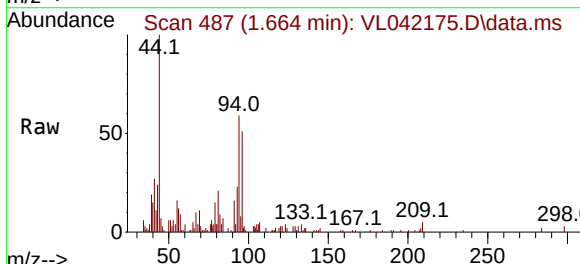
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.5

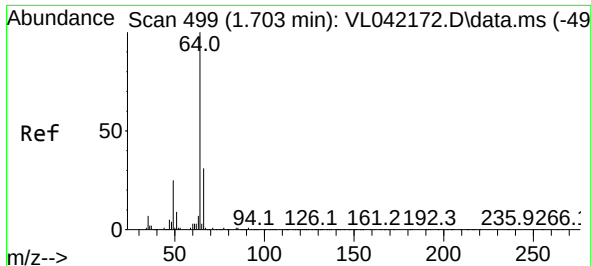
Tgt Ion: 62 Resp: 5732
 Ion Ratio Lower Upper
 62 100
 64 28.5 26.6 40.0



#6
 Bromomethane
 Concen: 0.597 ppbv
 RT: 1.664 min Scan# 487
 Delta R.T. -0.000 min
 Lab File: VL042175.D
 Acq: 27 Mar 2025 10:01

Tgt Ion: 94 Resp: 2949
 Ion Ratio Lower Upper
 94 100
 96 86.2 73.1 109.7

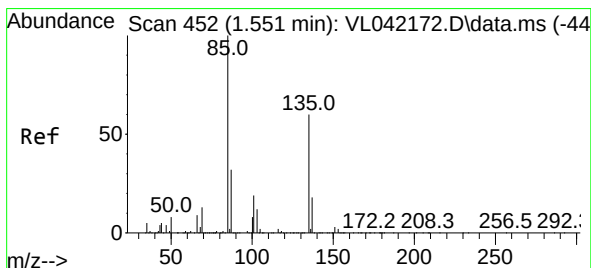
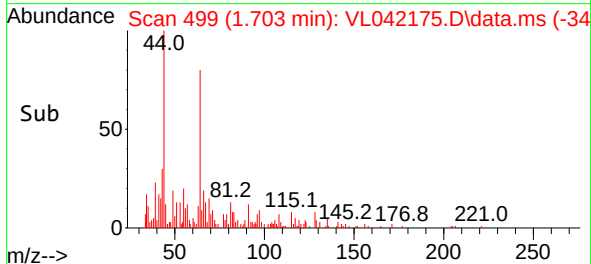
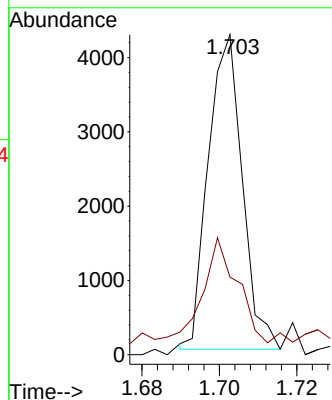
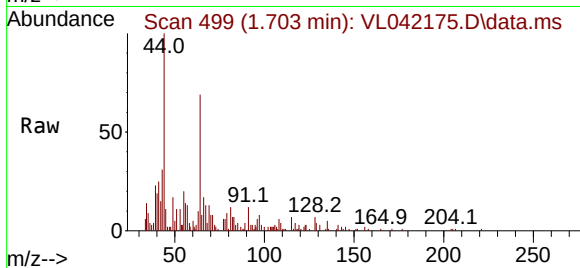




#7
Chloroethane
Concen: 0.591 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

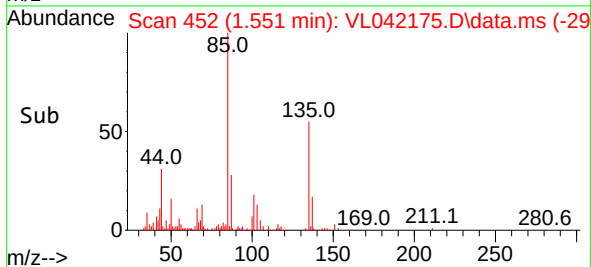
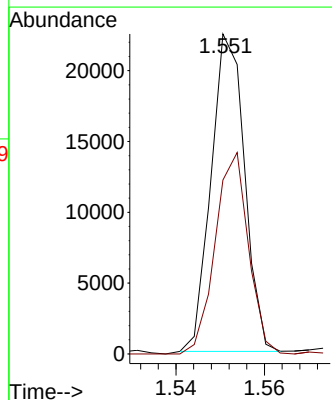
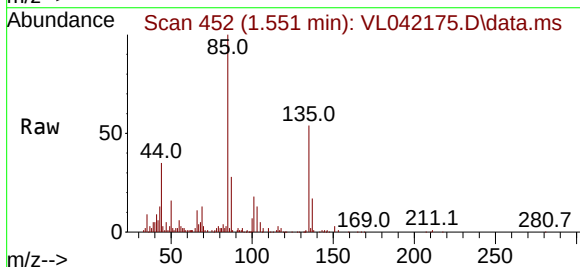
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

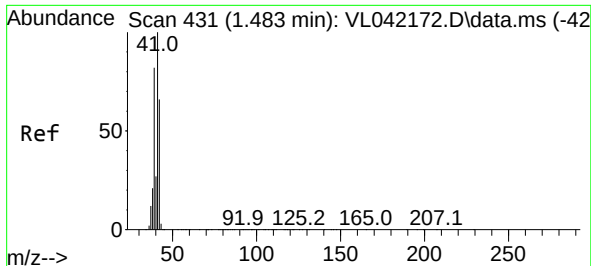
Tgt Ion: 64 Resp: 2582
Ion Ratio Lower Upper
64 100
66 24.2 25.2 37.8#



#8
Dichlorotetrafluoroethane
Concen: 0.519 ppbv
RT: 1.551 min Scan# 452
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 85 Resp: 11783
Ion Ratio Lower Upper
85 100
135 63.7 52.4 78.6

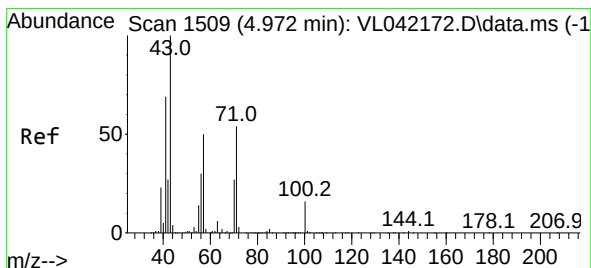
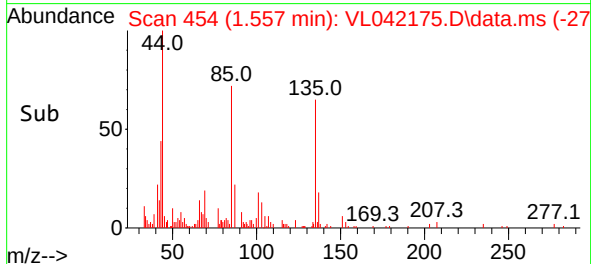
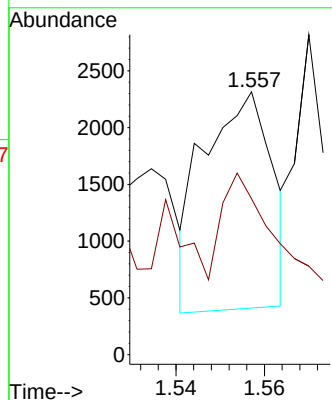
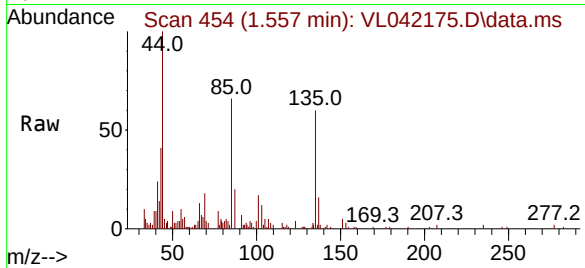




#9
Propene
Concen: 0.167 ppbv
RT: 1.557 min Scan# 41
Delta R.T. 0.074 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

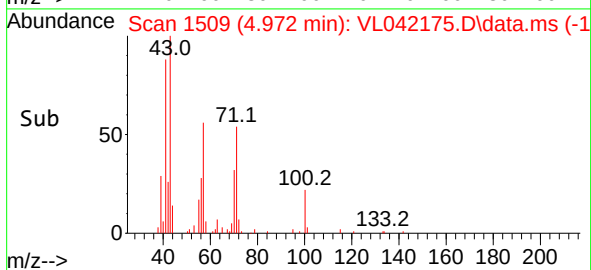
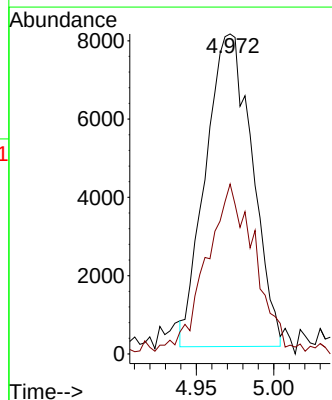
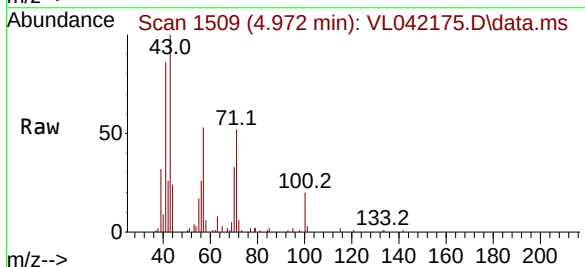
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

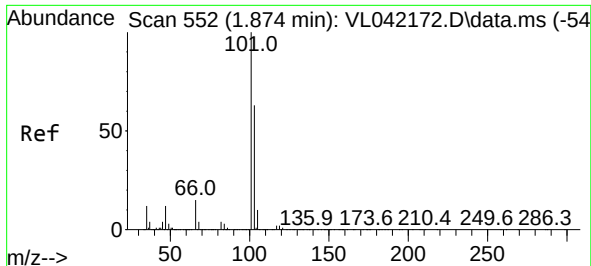
Tgt Ion: 41 Resp: 2054
Ion Ratio Lower Upper
41 100
42 62.9 55.4 83.2



#10
Heptane
Concen: 0.502 ppbv
RT: 4.972 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 43 Resp: 16673
Ion Ratio Lower Upper
43 100
57 57.0 39.4 59.2

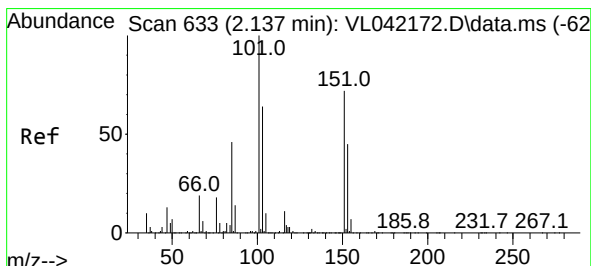
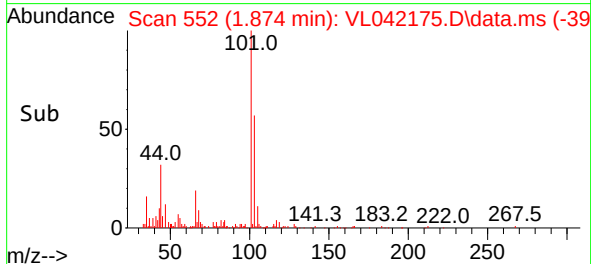
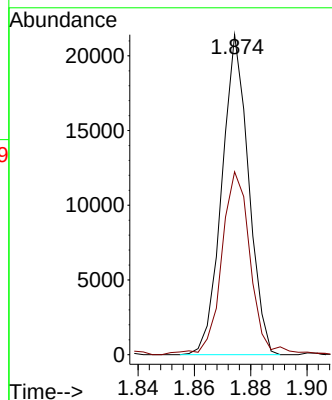
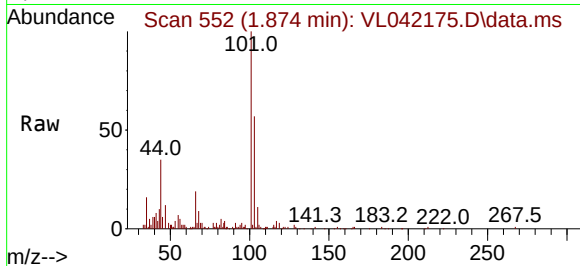




#11
 Trichlorofluoromethane
 Concen: 0.544 ppbv
 RT: 1.874 min Scan# 511
 Delta R.T. -0.000 min
 Lab File: VL042175.D
 Acq: 27 Mar 2025 10:01

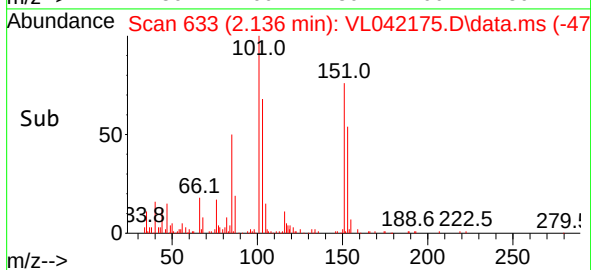
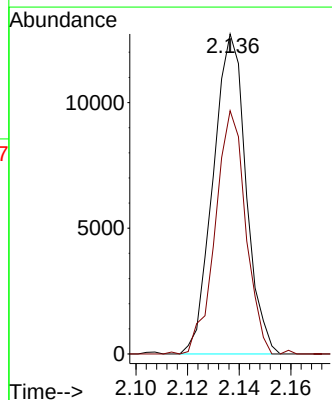
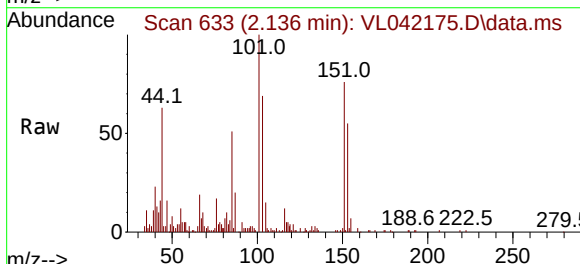
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

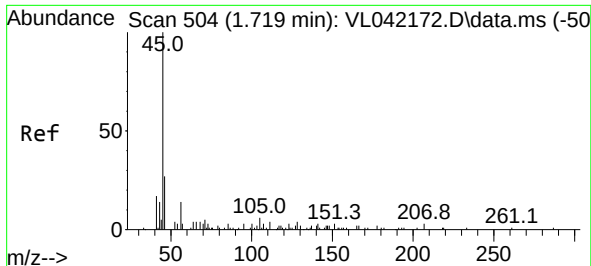
Tgt Ion:101 Resp: 14099
 Ion Ratio Lower Upper
 101 100
 103 56.3 50.2 75.2



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.528 ppbv
 RT: 2.136 min Scan# 633
 Delta R.T. -0.000 min
 Lab File: VL042175.D
 Acq: 27 Mar 2025 10:01

Tgt Ion:101 Resp: 11252
 Ion Ratio Lower Upper
 101 100
 151 70.6 57.1 85.7

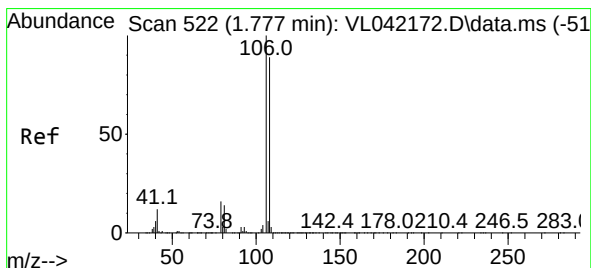
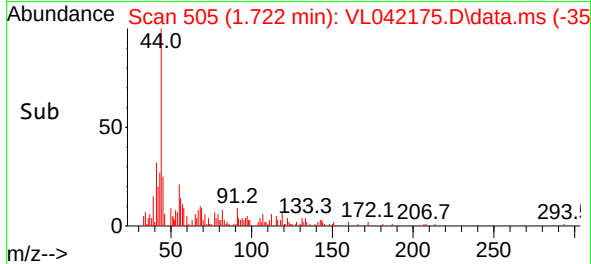
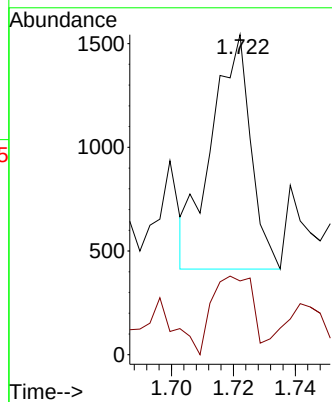
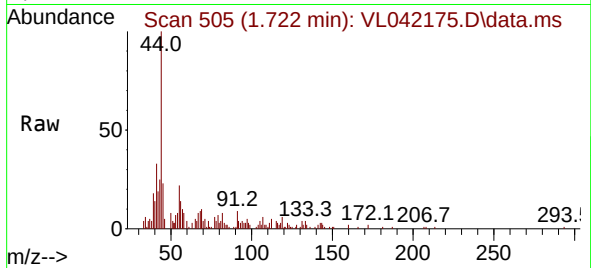




#13
Ethanol
Concen: 1.038 ppbv
RT: 1.722 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

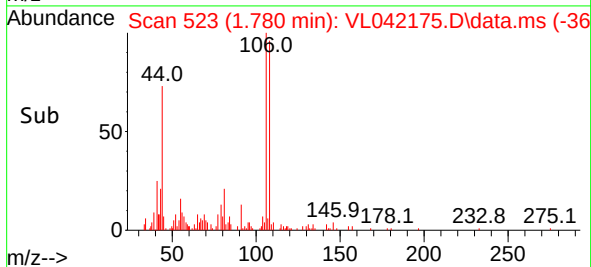
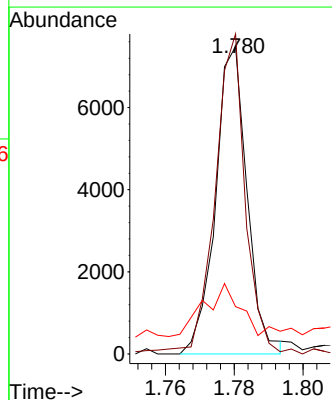
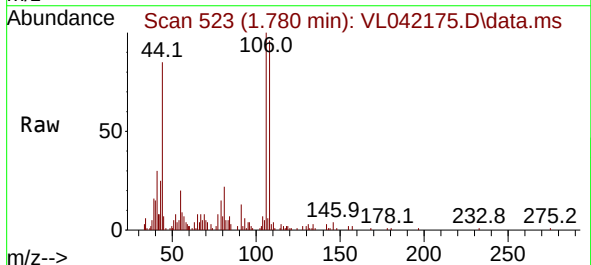
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

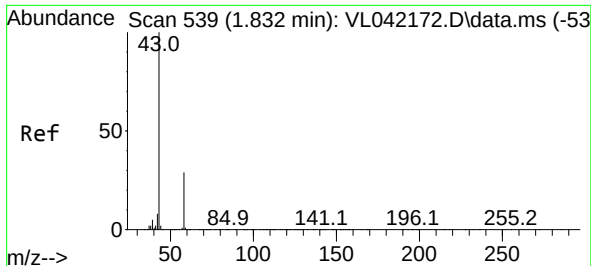
Tgt Ion: 45 Resp: 997
Ion Ratio Lower Upper
45 100
46 94.5 20.2 80.8#



#14
Bromoethene
Concen: 0.584 ppbv
RT: 1.780 min Scan# 523
Delta R.T. 0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 108 Resp: 4770
Ion Ratio Lower Upper
108 100
106 101.3 86.8 130.2
79 42.6 15.0 22.6#

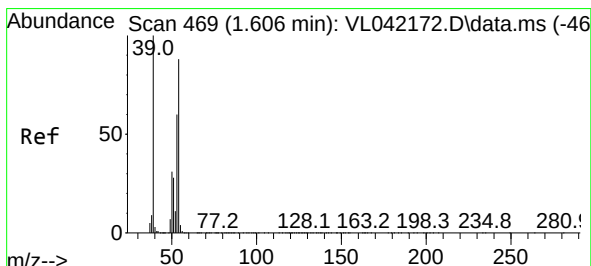
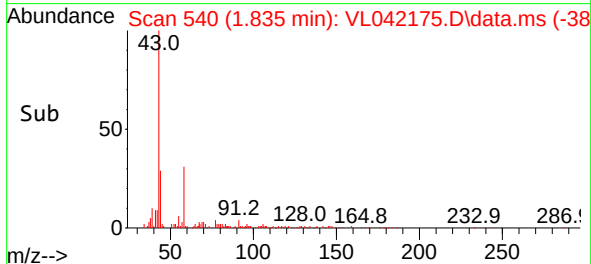
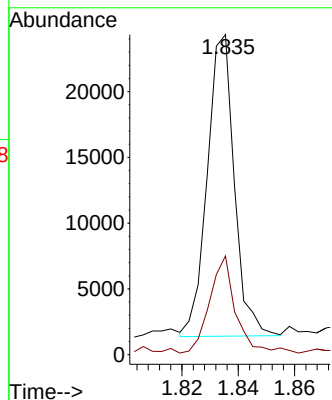
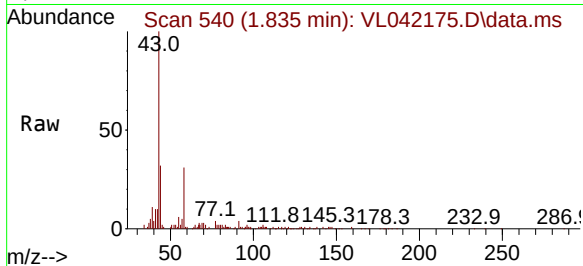




#15
Acetone
Concen: 0.607 ppbv
RT: 1.835 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

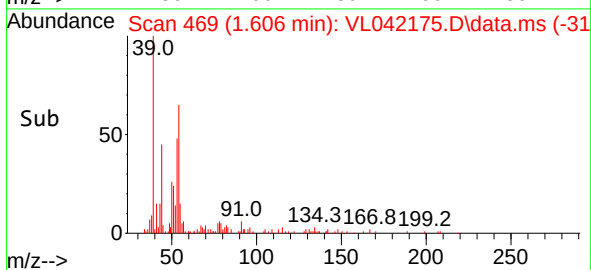
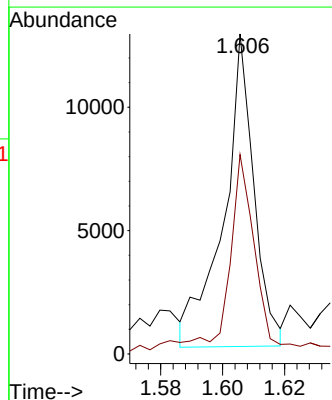
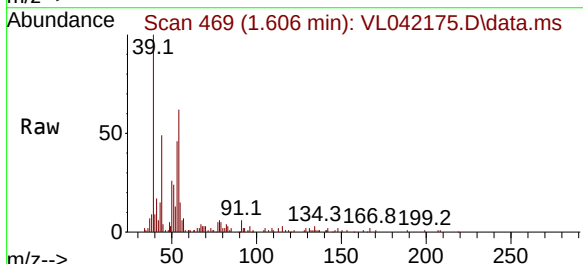
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

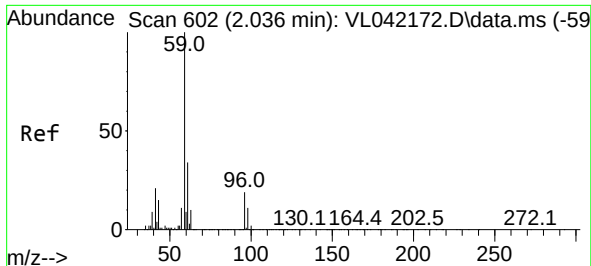
Tgt Ion: 43 Resp: 15331
Ion Ratio Lower Upper
43 100
58 37.1 23.2 34.8#



#16
1,3-Butadiene
Concen: 0.757 ppbv
RT: 1.606 min Scan# 469
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 39 Resp: 8594
Ion Ratio Lower Upper
39 100
54 60.7 60.7 91.1





#17

tert-Butyl alcohol

Concen: 0.556 ppbv

RT: 2.039 min Scan# 60

Delta R.T. 0.003 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

Instrument :

MSVOA_1

ClientSampleId :

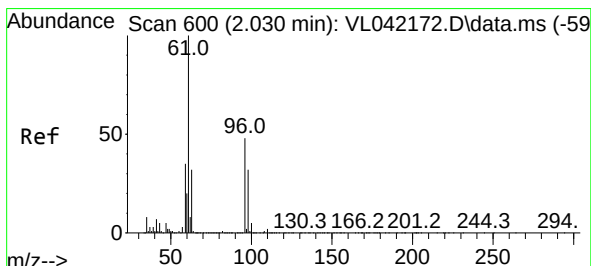
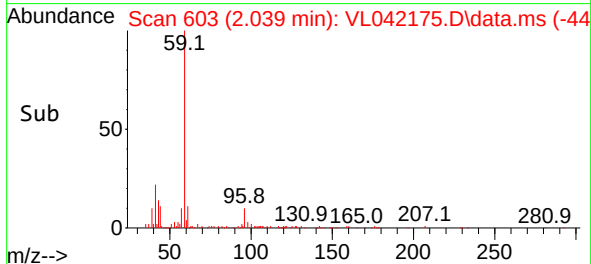
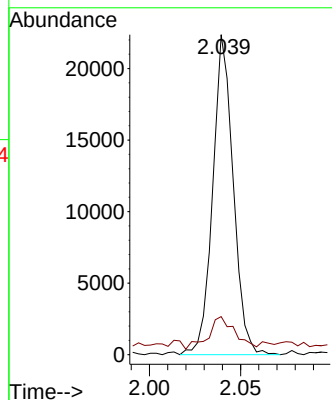
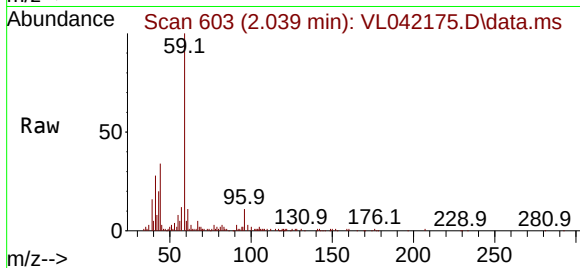
VSTDIC0.5

Tgt Ion: 59 Resp: 17467

Ion Ratio Lower Upper

59 100

57 12.1 8.9 13.3



#18

1,1-Dichloroethene

Concen: 0.565 ppbv

RT: 2.030 min Scan# 600

Delta R.T. -0.000 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

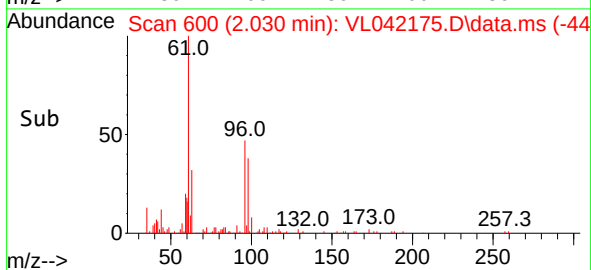
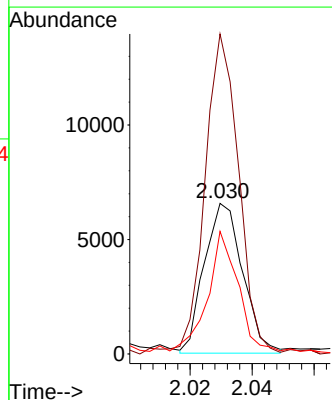
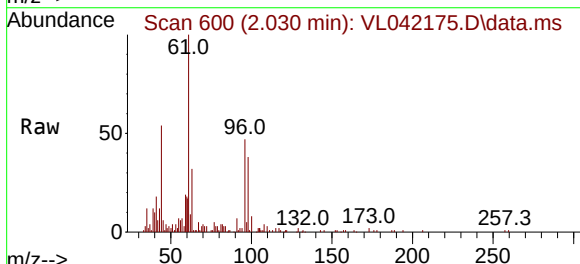
Tgt Ion: 96 Resp: 5634

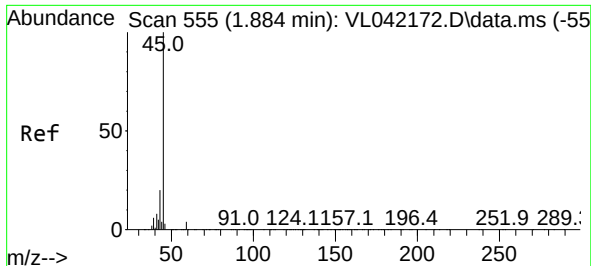
Ion Ratio Lower Upper

96 100

61 216.6 167.6 251.4

98 81.2 53.5 80.3#

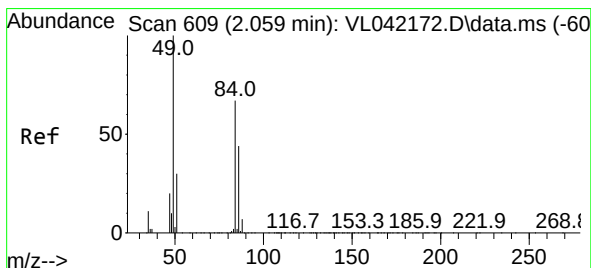
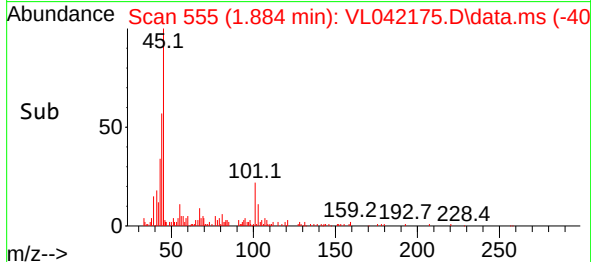
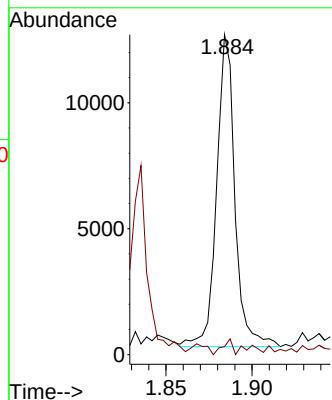
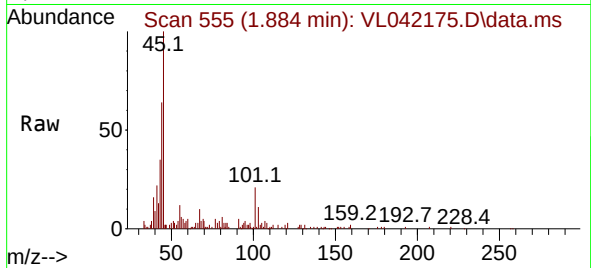




#19
Isopropyl Alcohol
Concen: 0.644 ppbv
RT: 1.884 min Scan# 511
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

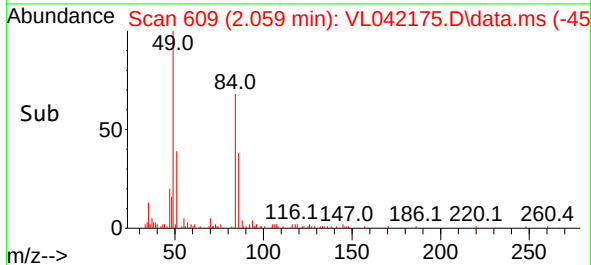
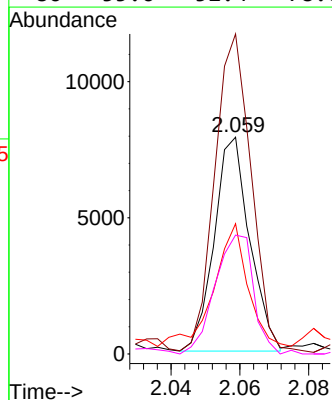
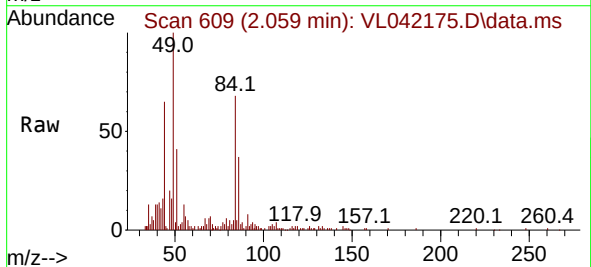
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

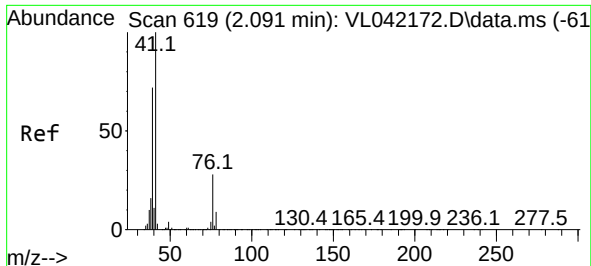
Tgt Ion: 45 Resp: 9171
Ion Ratio Lower Upper
45 100
58 5.5 36.9 55.3#



#20
Methylene Chloride
Concen: 0.599 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 84 Resp: 5634
Ion Ratio Lower Upper
84 100
49 148.1 120.2 180.4
51 56.1 37.4 56.0#
86 55.6 52.4 78.6

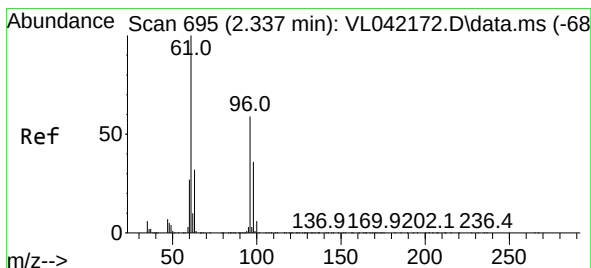
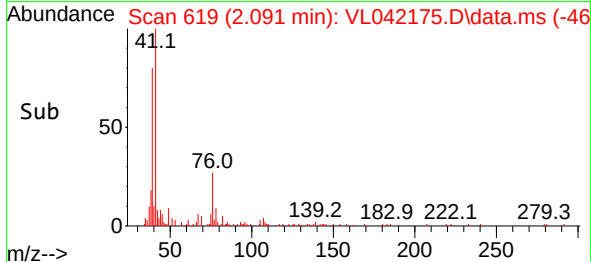
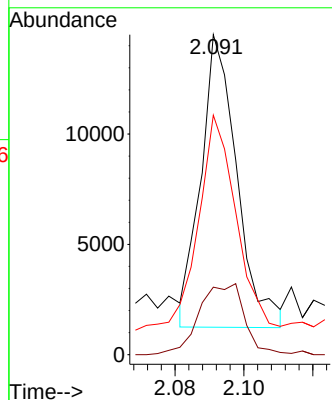
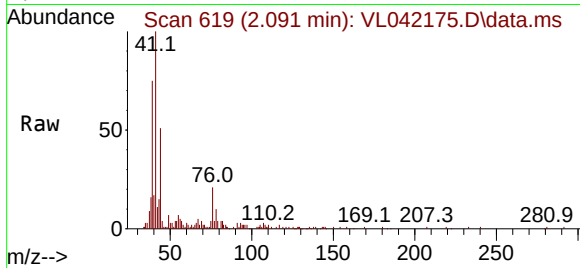




#21
 Allyl Chloride
 Concen: 0.541 ppbv
 RT: 2.091 min Scan# 619
 Delta R.T. -0.000 min
 Lab File: VL042175.D
 Acq: 27 Mar 2025 10:01

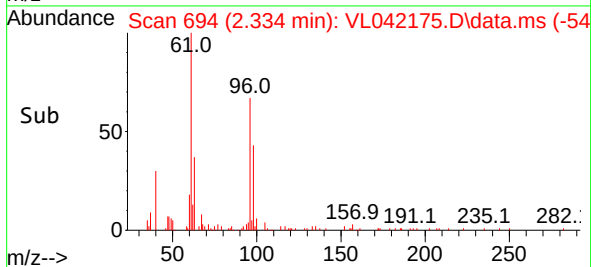
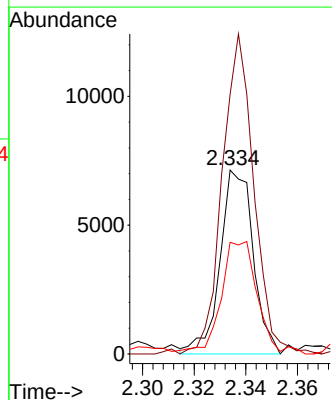
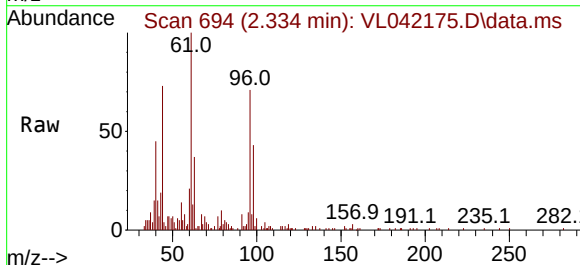
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

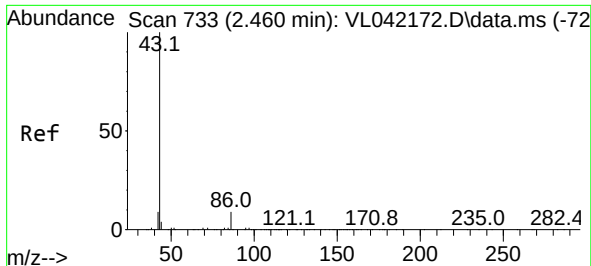
Tgt Ion:	41	Resp:	9632
Ion	Ratio	Lower	Upper
41	100		
76	30.9	24.1	36.1
39	88.9	61.1	91.7



#22
 trans-1,2-Dichloroethene
 Concen: 0.546 ppbv
 RT: 2.334 min Scan# 694
 Delta R.T. -0.003 min
 Lab File: VL042175.D
 Acq: 27 Mar 2025 10:01

Tgt Ion:	96	Resp:	6353
Ion	Ratio	Lower	Upper
96	100		
61	141.3	136.6	204.8
98	59.4	49.4	74.2

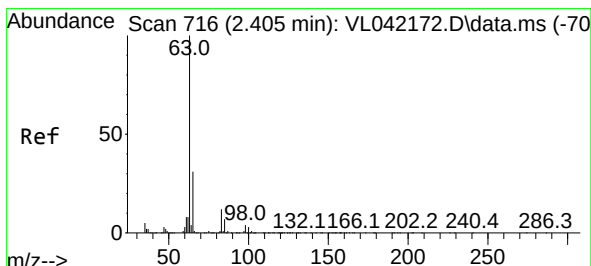
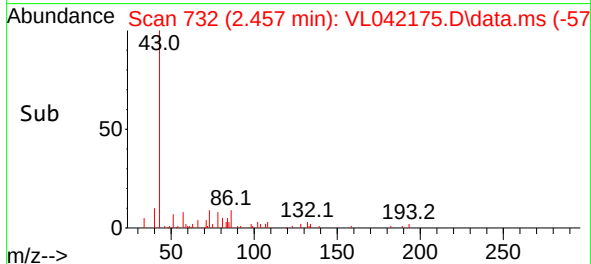
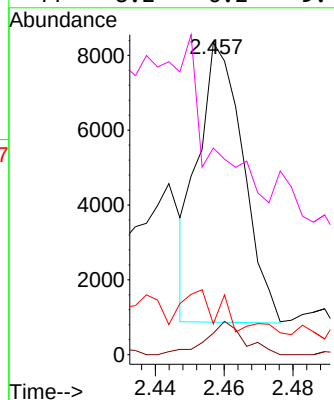
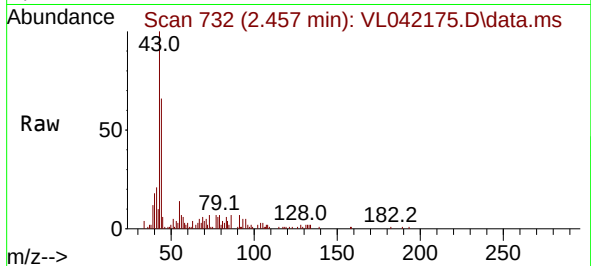




#23
Vinyl Acetate
Concen: 0.649 ppbv
RT: 2.457 min Scan# 716
Delta R.T. -0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

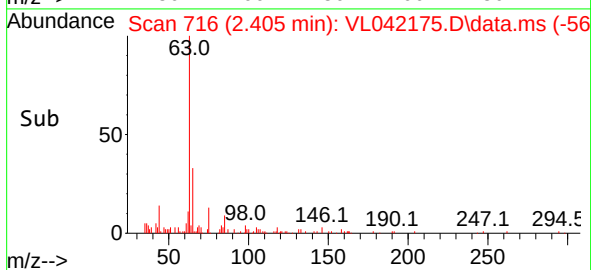
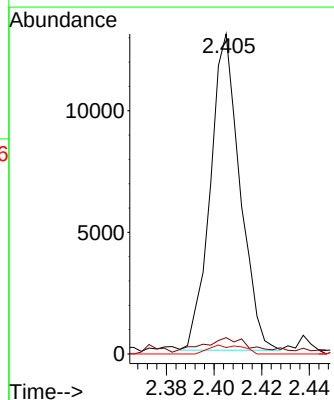
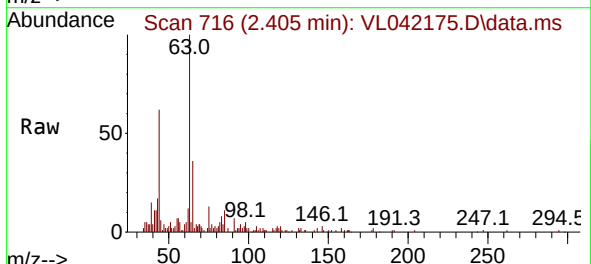
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

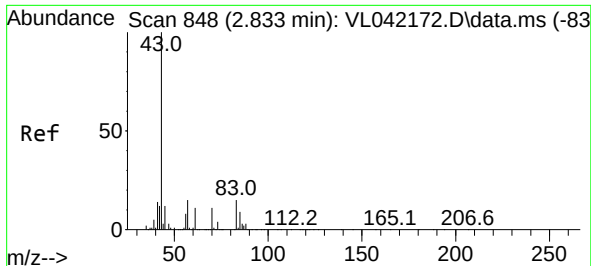
Tgt Ion:	43	Resp:	6809
Ion	Ratio	Lower	Upper
43	100		
86	7.7	5.5	8.3
42	3.2	8.6	13.0#
44	8.2	6.2	9.4



#24
1,1-Dichloroethane
Concen: 0.527 ppbv
RT: 2.405 min Scan# 716
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion:	63	Resp:	11258
Ion	Ratio	Lower	Upper
63	100		
98	3.7	2.3	6.8
100	2.0	1.6	4.7

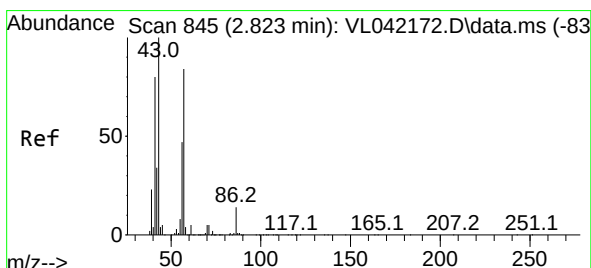
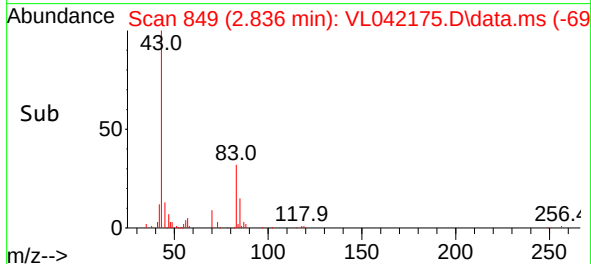
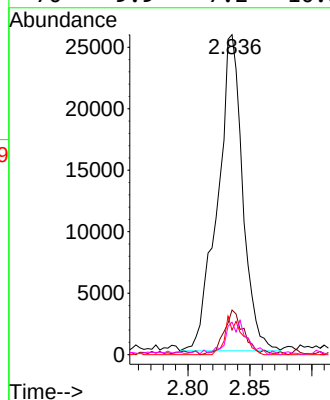
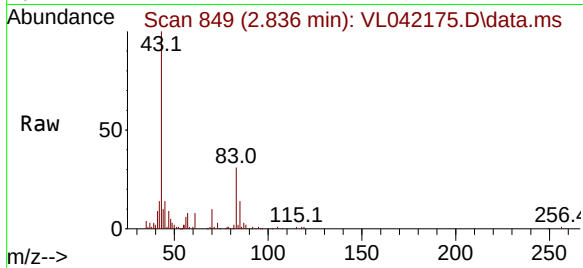




#25
Ethyl Acetate
Concen: 0.553 ppbv
RT: 2.836 min Scan# 84
Delta R.T. 0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

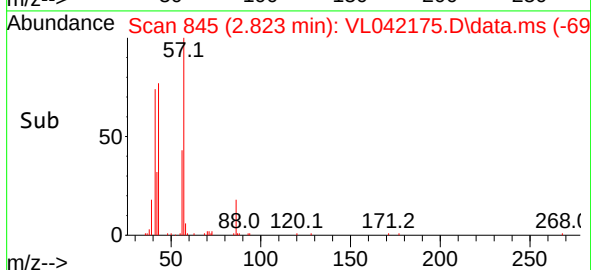
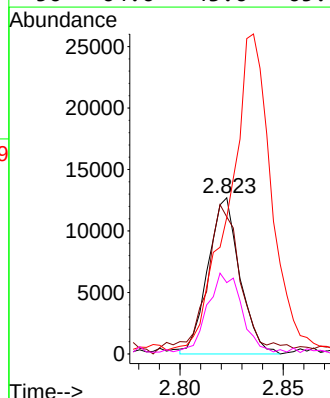
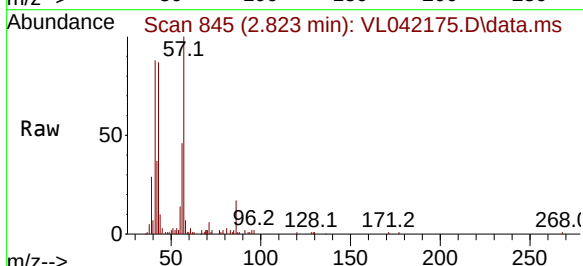
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

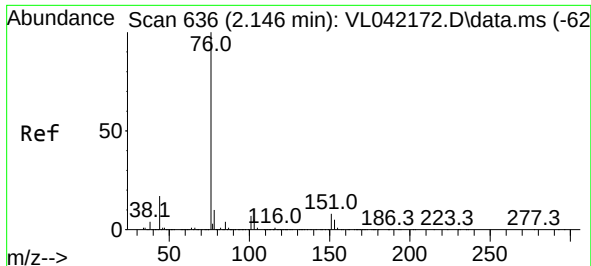
Tgt Ion: 43	Resp: 36258
Ion Ratio	Lower Upper
43 100	
45 11.2	8.2 12.2
61 8.3	7.3 10.9
70 9.9	7.2 10.8



#26
Hexane
Concen: 0.538 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 57	Resp: 13605
Ion Ratio	Lower Upper
57 100	
41 92.1	76.6 114.8
43 273.4	207.8 311.8
56 64.6	43.6 65.4

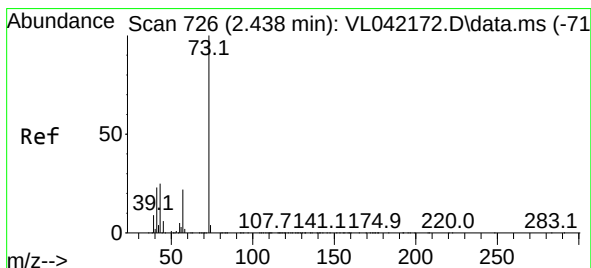
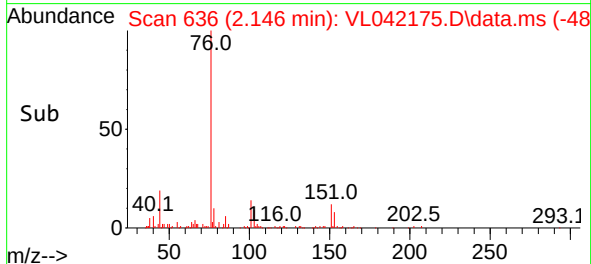
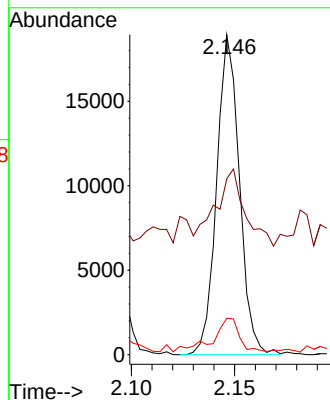
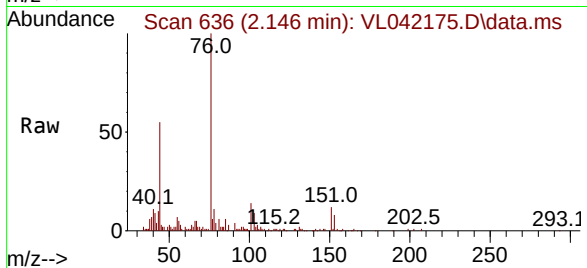




#27
Carbon Disulfide
Concen: 0.535 ppbv
RT: 2.146 min Scan# 61
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

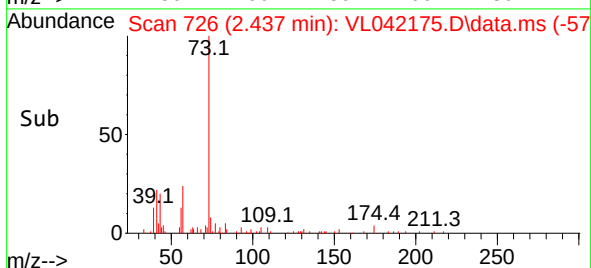
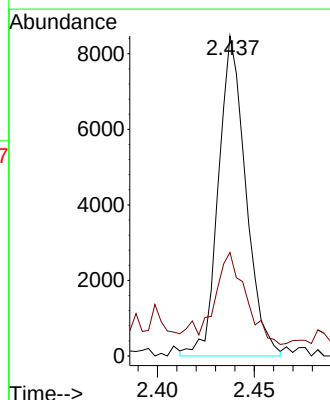
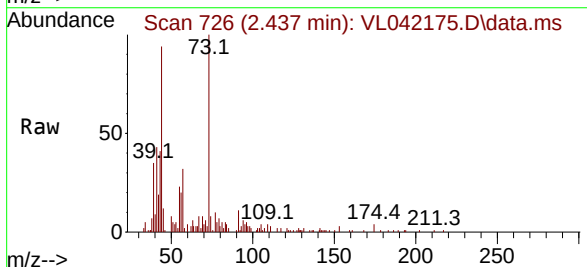
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

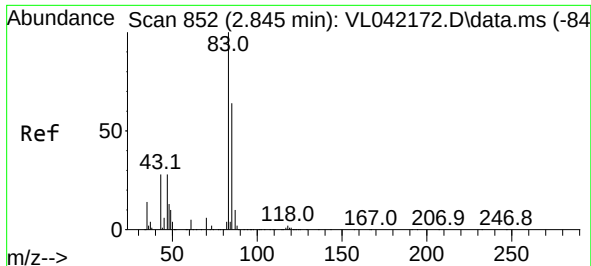
Tgt Ion: 76 Resp: 14510
Ion Ratio Lower Upper
76 100
44 115.5 14.7 22.1#
78 14.9 9.3 13.9#



#28
Methyl tert-Butyl Ether
Concen: 0.527 ppbv
RT: 2.437 min Scan# 726
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 73 Resp: 8310
Ion Ratio Lower Upper
73 100
57 31.1 20.5 30.7#





#29

Chloroform

Concen: 0.544 ppbv

RT: 2.845 min Scan# 852

Delta R.T. -0.000 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

Instrument :

MSVOA_L

ClientSampleId :

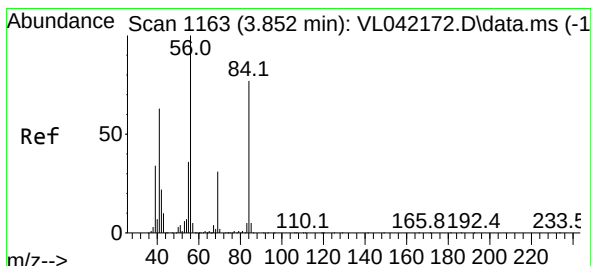
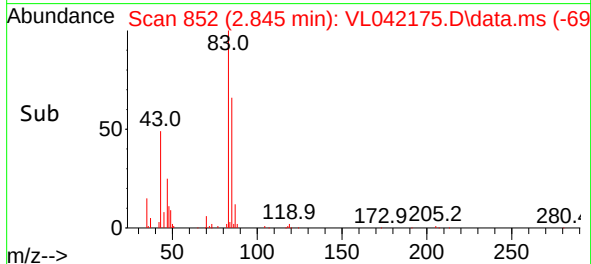
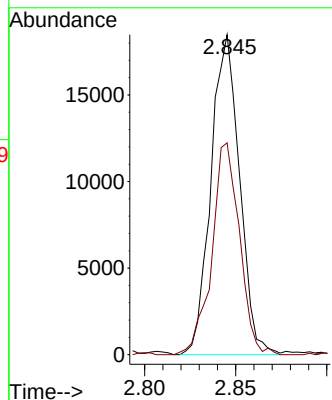
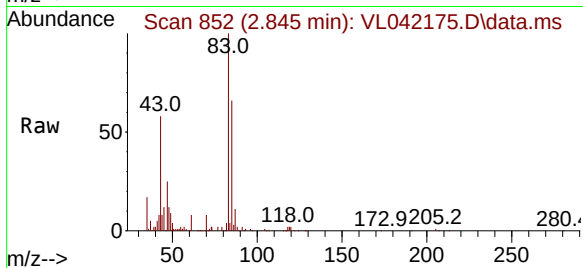
VSTDIC0.5

Tgt Ion: 83 Resp: 20149

Ion Ratio Lower Upper

83 100

85 66.2 51.4 77.2



#30

Cyclohexane

Concen: 0.438 ppbv

RT: 3.852 min Scan# 1163

Delta R.T. -0.000 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

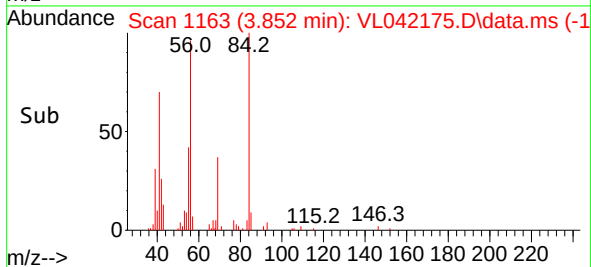
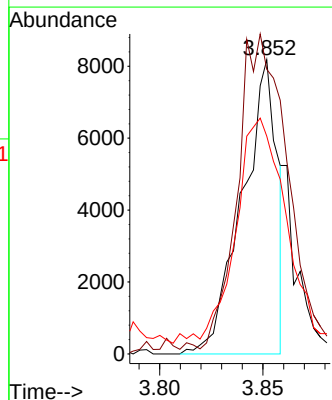
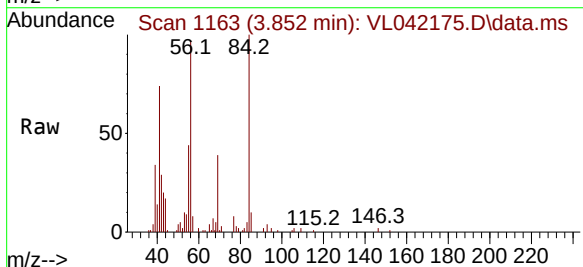
Tgt Ion: 84 Resp: 9635

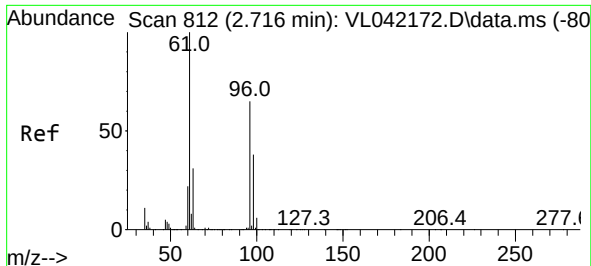
Ion Ratio Lower Upper

84 100

56 158.1 102.8 154.2#

41 117.1 66.5 99.7#

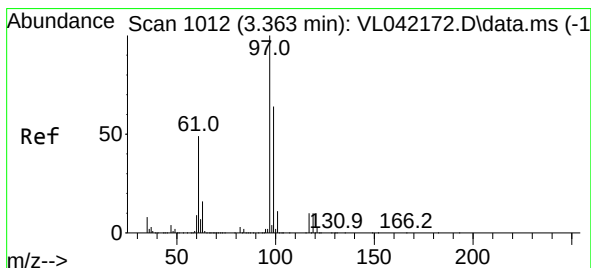
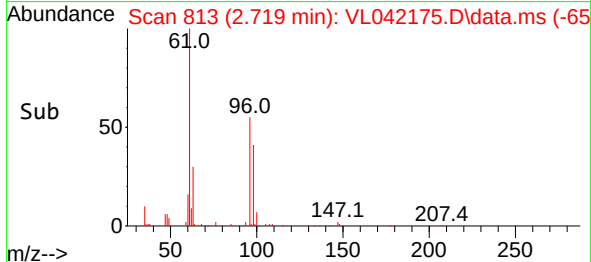
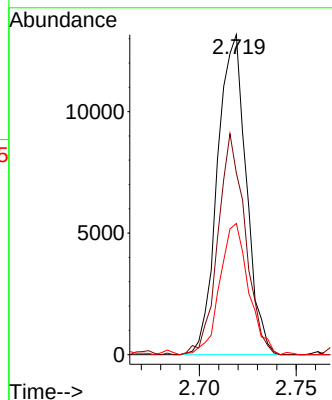
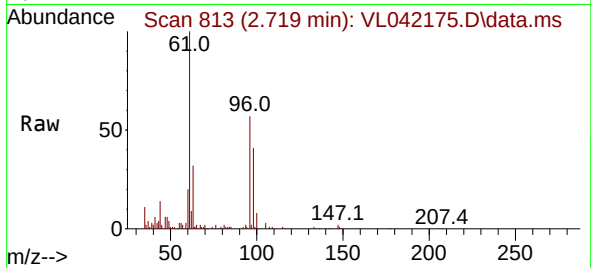




#31
 cis-1,2-Dichloroethene
 Concen: 0.529 ppbv
 RT: 2.719 min Scan# 81
 Delta R.T. 0.003 min
 Lab File: VL042175.D
 Acq: 27 Mar 2025 10:01

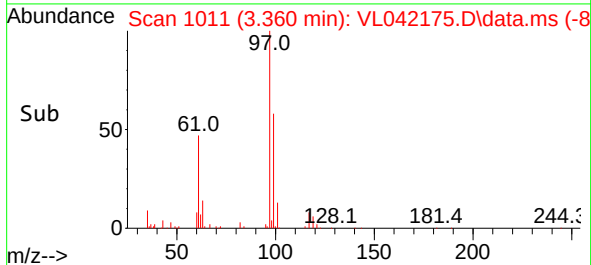
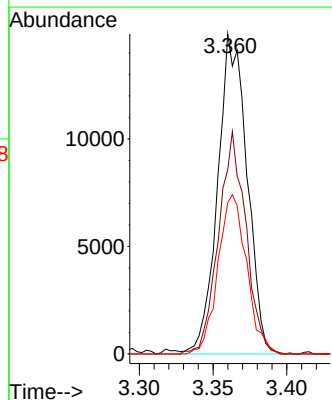
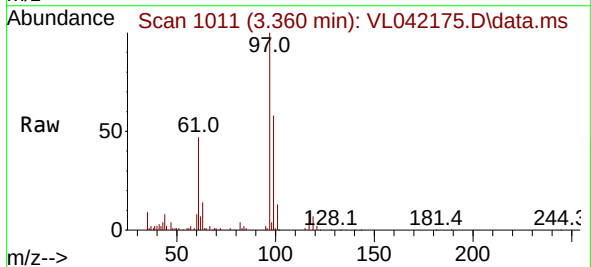
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

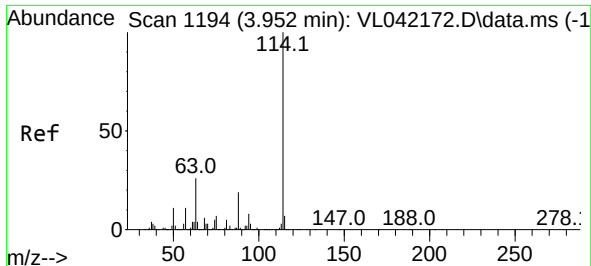
Tgt Ion: 61 Resp: 13601
 Ion Ratio Lower Upper
 61 100
 96 56.8 51.8 77.8
 98 41.0 30.6 46.0



#32
 1,1,1-Trichloroethane
 Concen: 0.485 ppbv
 RT: 3.360 min Scan# 1011
 Delta R.T. -0.003 min
 Lab File: VL042175.D
 Acq: 27 Mar 2025 10:01

Tgt Ion: 97 Resp: 20567
 Ion Ratio Lower Upper
 97 100
 99 64.8 51.5 77.3
 61 48.6 38.7 58.1





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.952 min Scan# 1194

Delta R.T. -0.000 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.5

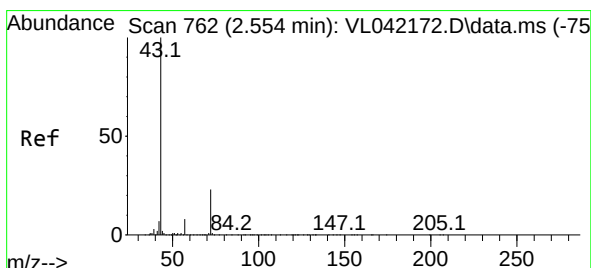
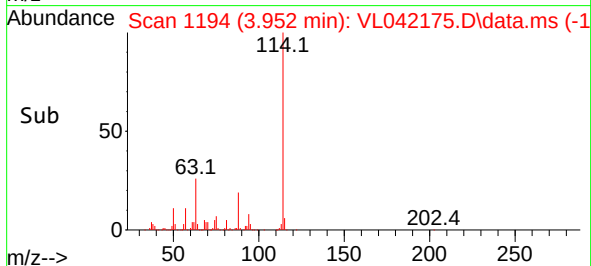
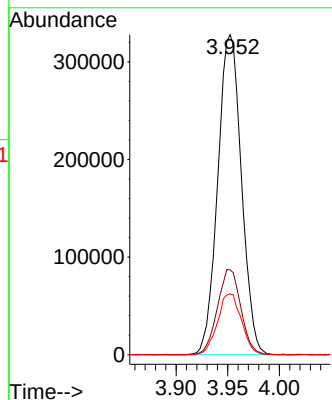
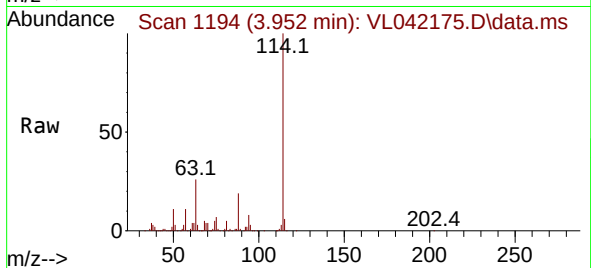
Tgt Ion:114 Resp: 523832

Ion Ratio Lower Upper

114 100

63 26.4 20.7 31.1

88 19.1 15.0 22.4



#34

2-Butanone

Concen: 0.520 ppbv

RT: 2.557 min Scan# 763

Delta R.T. 0.003 min

Lab File: VL042175.D

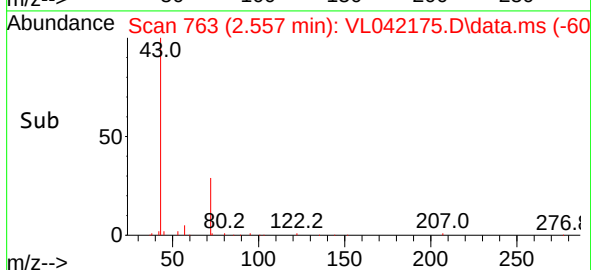
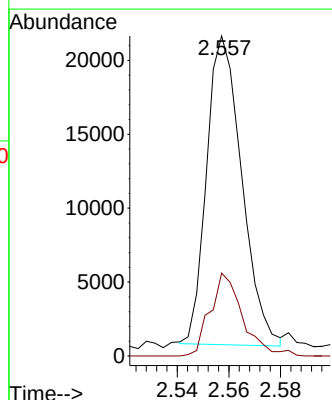
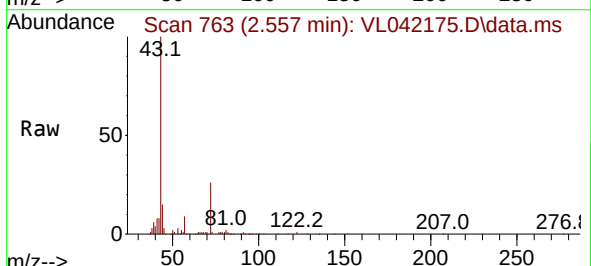
Acq: 27 Mar 2025 10:01

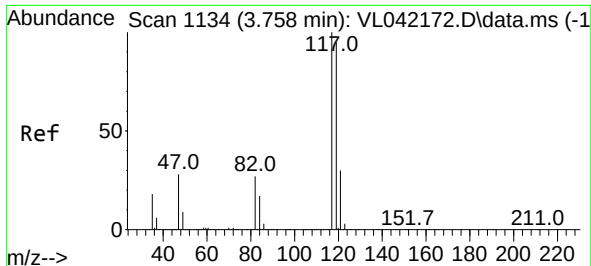
Tgt Ion: 43 Resp: 19739

Ion Ratio Lower Upper

43 100

72 24.8 18.2 27.2

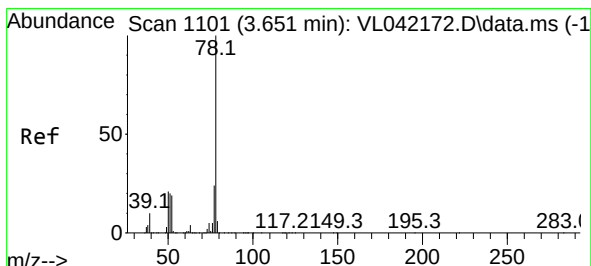
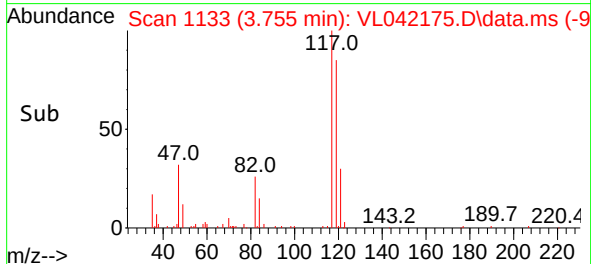
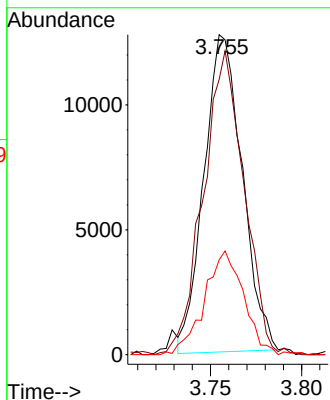
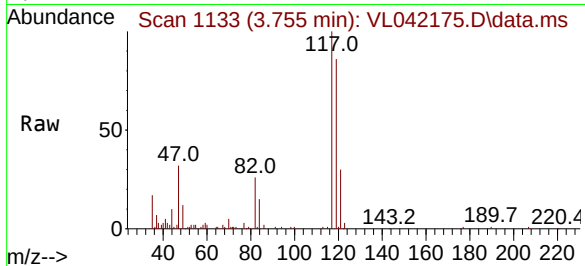




#35
Carbon Tetrachloride
Concen: 0.460 ppbv
RT: 3.755 min Scan# 1134
Delta R.T. -0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

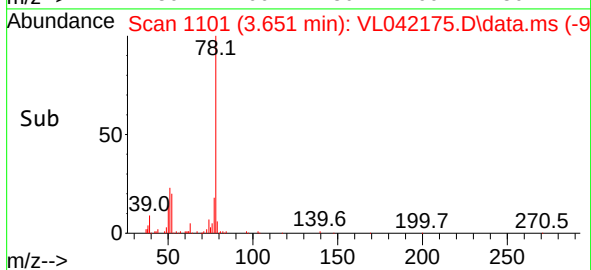
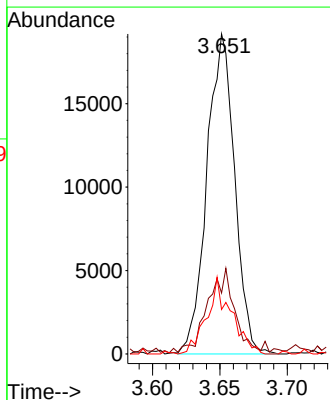
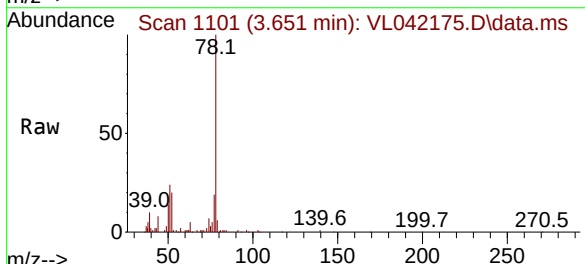
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

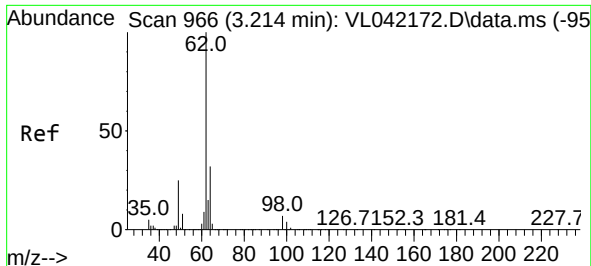
Tgt Ion:117 Resp: 18558
Ion Ratio Lower Upper
117 100
119 86.4 76.2 114.2
121 30.1 24.2 36.4



#36
Benzene
Concen: 0.529 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 78 Resp: 27488
Ion Ratio Lower Upper
78 100
77 18.5 19.1 28.7#
50 13.9 16.6 24.8#

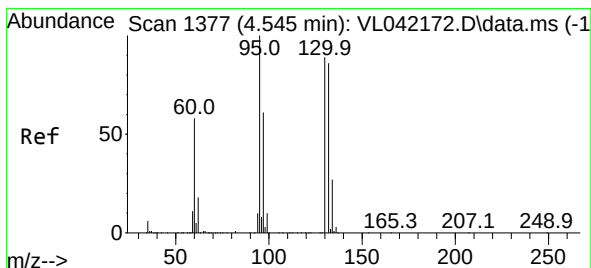
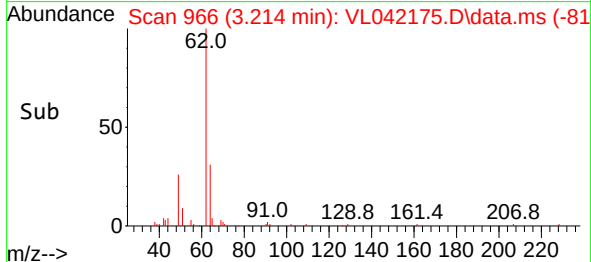
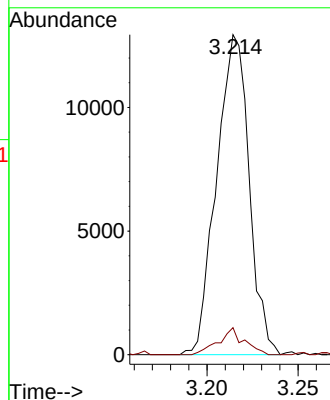
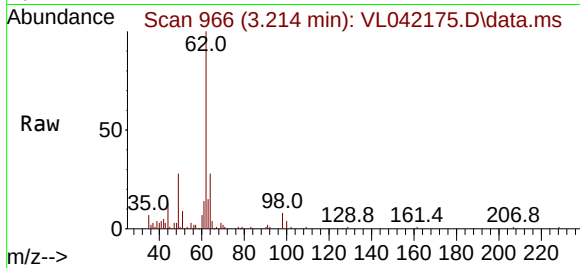




#37
1,2-Dichloroethane
Concen: 0.540 ppbv
RT: 3.214 min Scan# 966
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

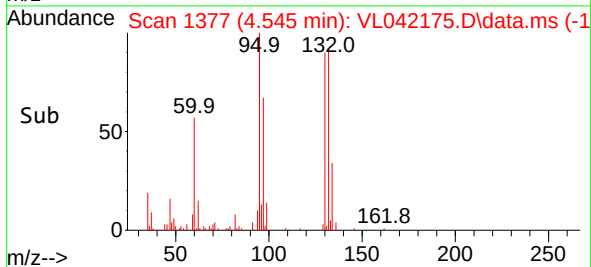
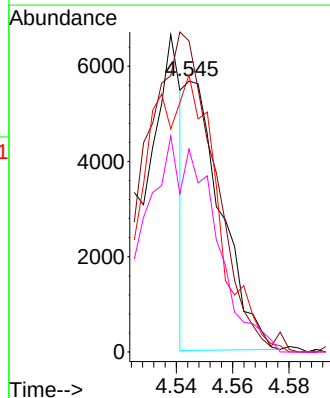
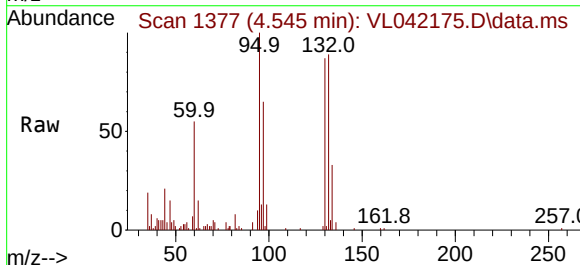
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

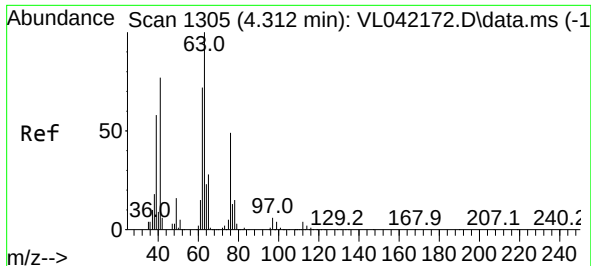
Tgt Ion: 62 Resp: 16062
Ion Ratio Lower Upper
62 100
98 7.0 5.4 8.2



#38
Trichloroethene
Concen: 0.230 ppbv
RT: 4.545 min Scan# 1377
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion:130 Resp: 4992
Ion Ratio Lower Upper
130 100
95 108.5 89.8 134.8
132 100.9 77.4 116.2
97 75.6 55.1 82.7





#39

1,2-Dichloropropane

Concen: 0.535 ppbv

RT: 4.308 min Scan# 1

Delta R.T. -0.003 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

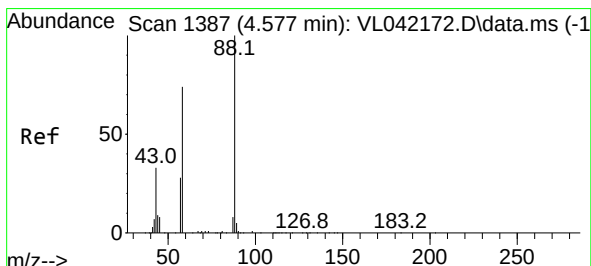
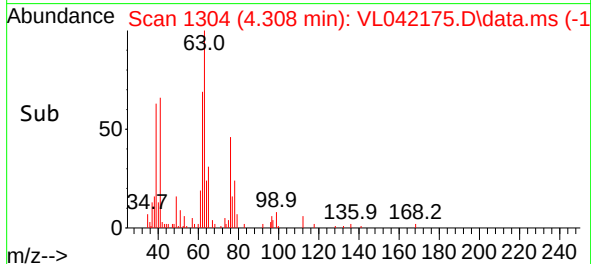
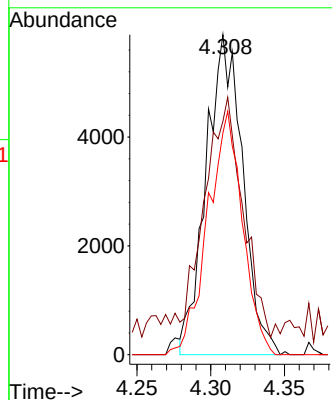
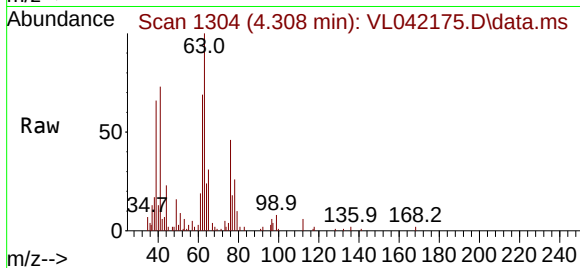
Tgt Ion: 63 Resp: 10123

Ion Ratio Lower Upper

63 100

41 66.4 61.7 92.5

62 69.3 57.6 86.4



#40

1,4-Dioxane

Concen: 0.457 ppbv

RT: 4.593 min Scan# 1392

Delta R.T. 0.016 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

Tgt Ion: 88 Resp: 4487

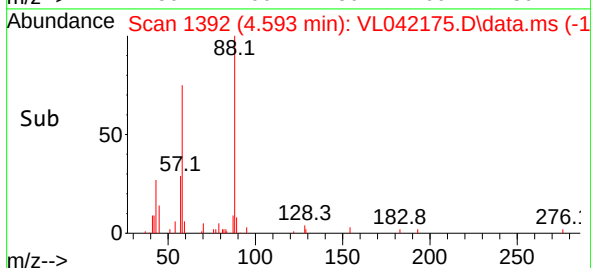
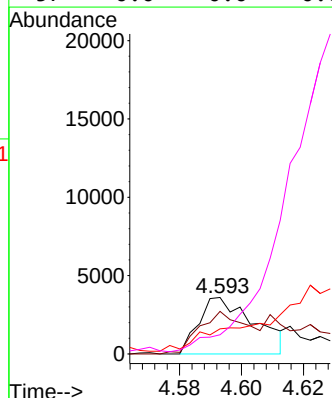
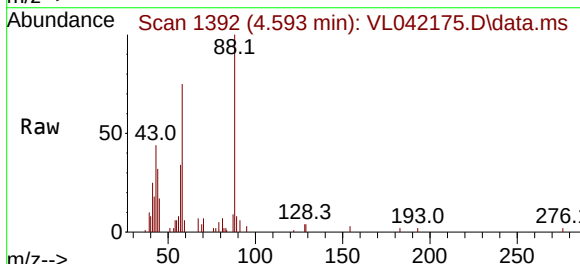
Ion Ratio Lower Upper

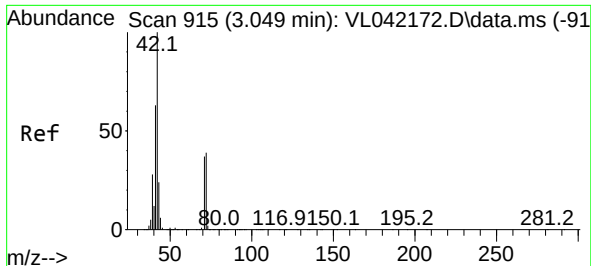
88 100

58 151.6 62.7 94.1#

43 0.0 23.0 34.4#

57 0.0 0.0 0.0

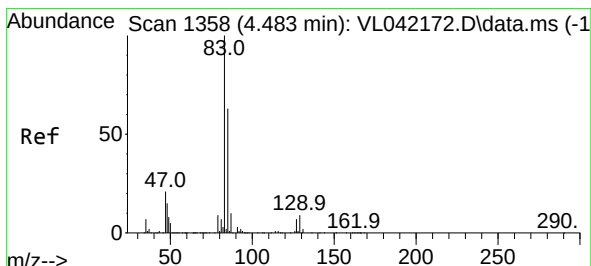
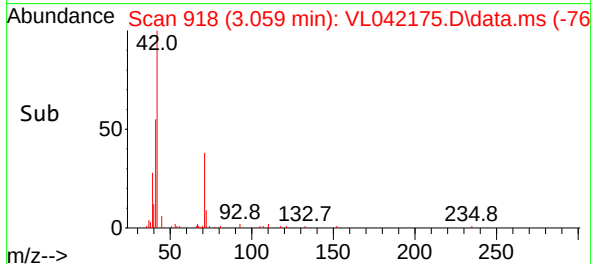
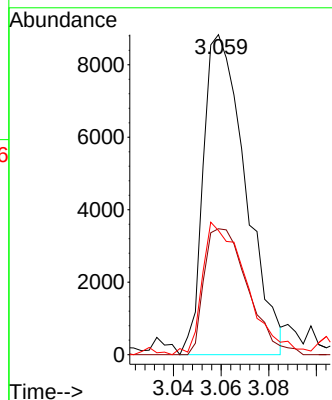
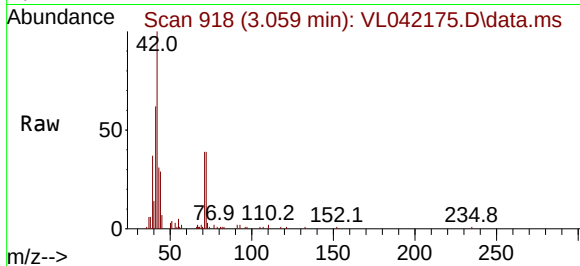




#41
Tetrahydrofuran
Concen: 0.502 ppbv
RT: 3.059 min Scan# 915
Delta R.T. 0.010 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

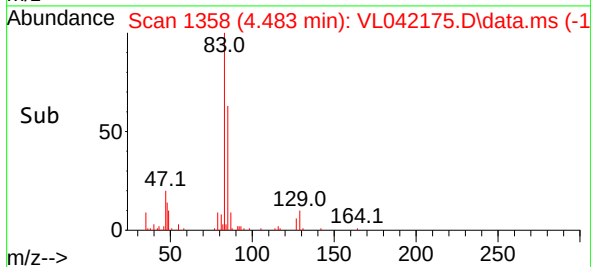
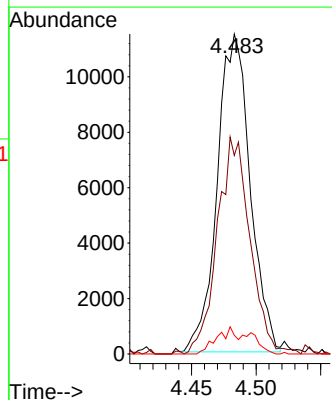
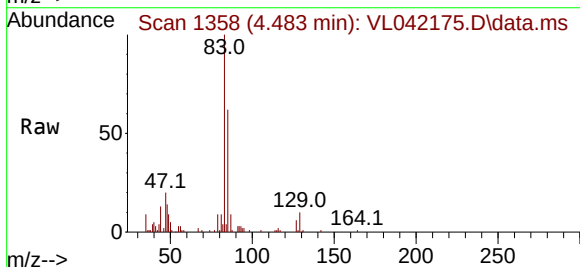
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

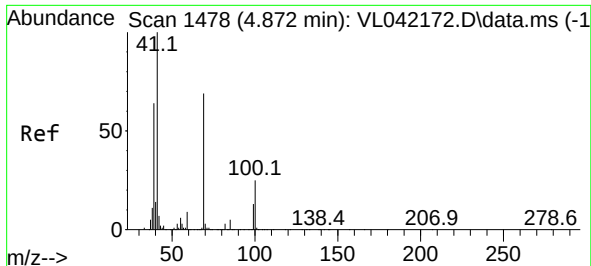
Tgt Ion: 42 Resp: 10856
Ion Ratio Lower Upper
42 100
72 40.7 31.4 47.0
71 43.1 30.2 45.4



#42
Bromodichloromethane
Concen: 0.497 ppbv
RT: 4.483 min Scan# 1358
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 83 Resp: 20374
Ion Ratio Lower Upper
83 100
85 61.6 50.5 75.7
127 5.9 5.9 8.9#

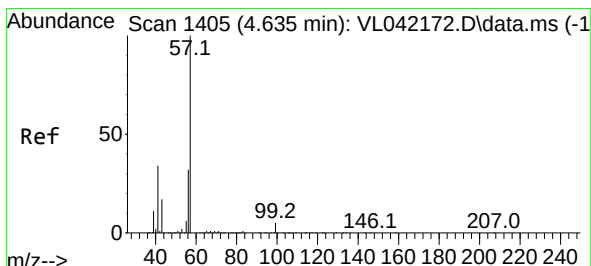
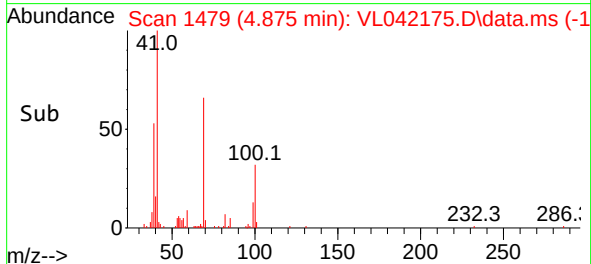
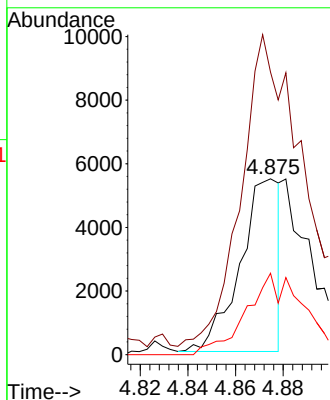
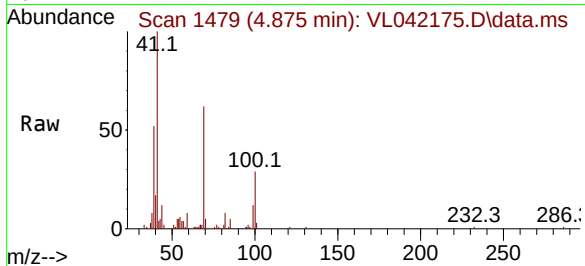




#43
Methyl Methacrylate
Concen: 0.284 ppbv
RT: 4.875 min Scan# 1478
Delta R.T. 0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

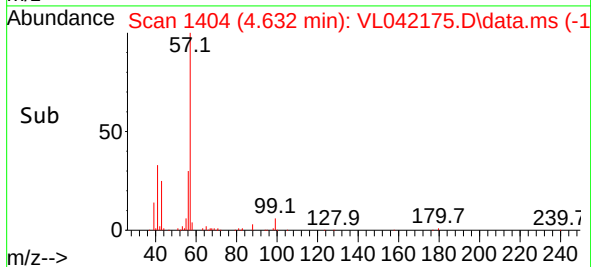
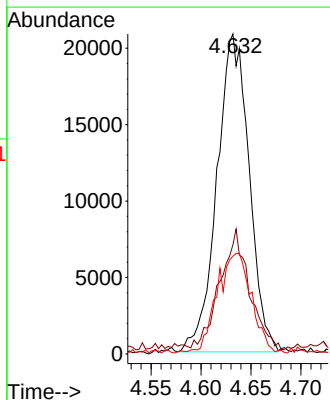
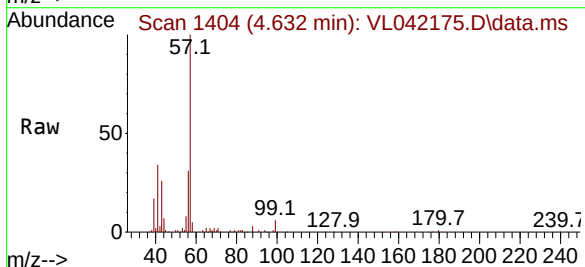
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

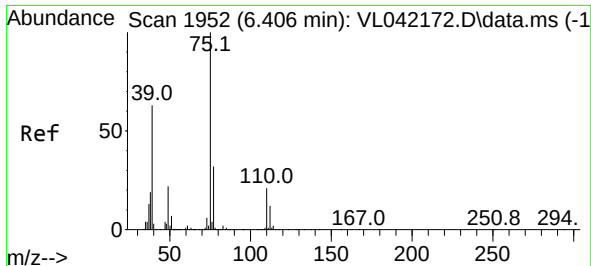
Tgt Ion: 69 Resp: 6229
Ion Ratio Lower Upper
69 100
41 279.4 123.8 185.6#
100 70.5 28.4 42.6#



#44
2,2,4-Trimethylpentane
Concen: 0.532 ppbv
RT: 4.632 min Scan# 1404
Delta R.T. -0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 57 Resp: 46646
Ion Ratio Lower Upper
57 100
41 36.7 26.8 40.2
56 34.3 25.6 38.4

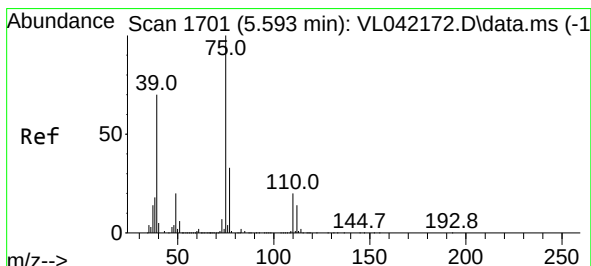
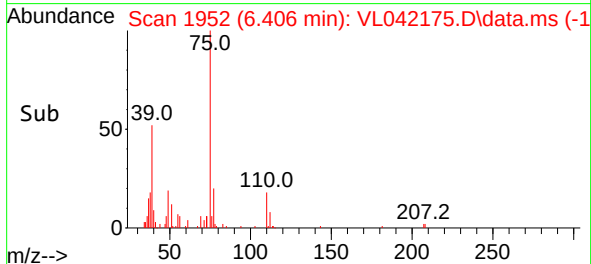
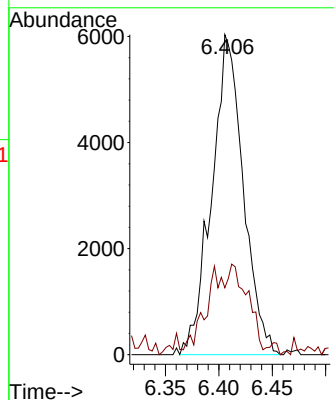
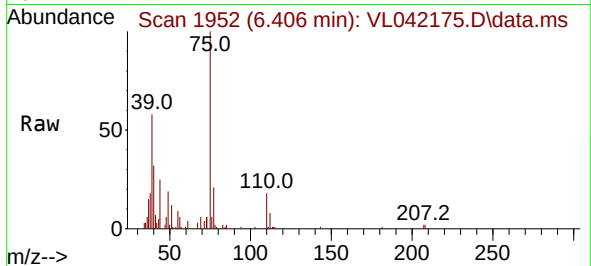




#45
 t-1,3-Dichloropropene
 Concen: 0.526 ppbv
 RT: 6.406 min Scan# 1952
 Delta R.T. -0.000 min
 Lab File: VL042175.D
 Acq: 27 Mar 2025 10:01

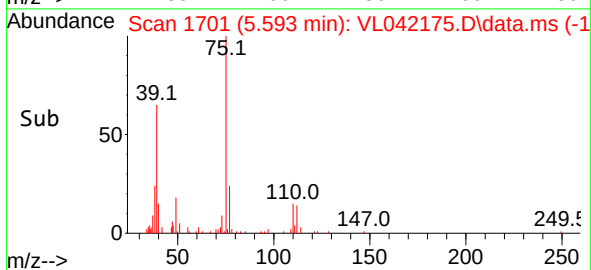
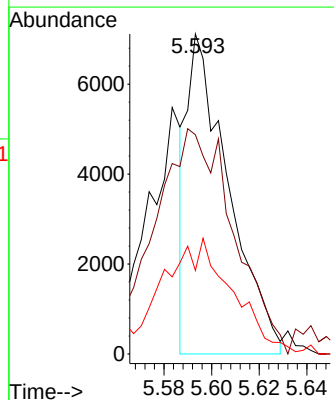
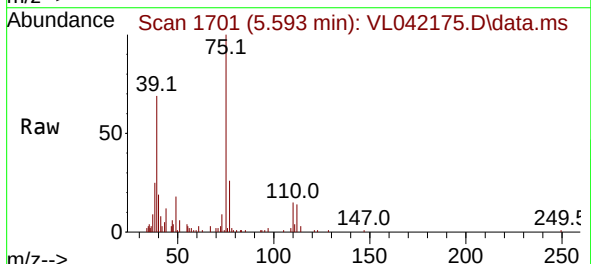
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

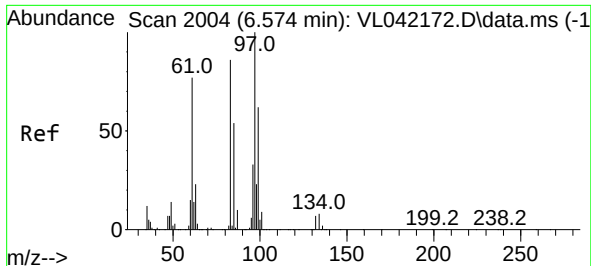
Tgt Ion: 75 Resp: 12404
 Ion Ratio Lower Upper
 75 100
 77 20.9 26.0 39.0#



#46
 cis-1,3-Dichloropropene
 Concen: 0.297 ppbv
 RT: 5.593 min Scan# 1701
 Delta R.T. -0.000 min
 Lab File: VL042175.D
 Acq: 27 Mar 2025 10:01

Tgt Ion: 75 Resp: 8584
 Ion Ratio Lower Upper
 75 100
 39 65.0 55.8 83.6
 77 23.4 26.0 39.0#





#47

1,1,2-Trichloroethane

Concen: 0.419 ppbv

RT: 6.574 min Scan# 2004

Delta R.T. -0.000 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion: 97 Resp: 8374

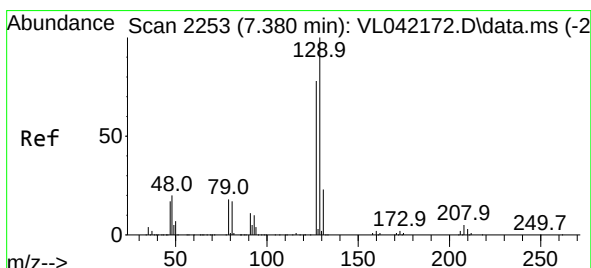
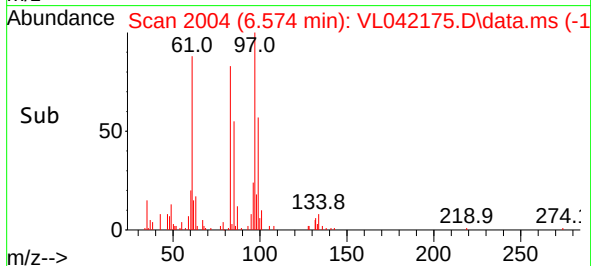
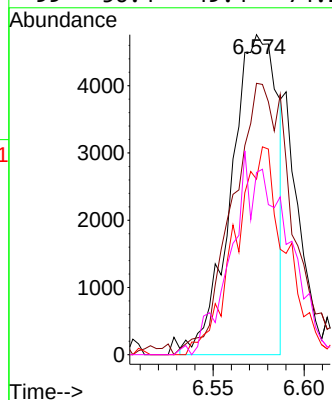
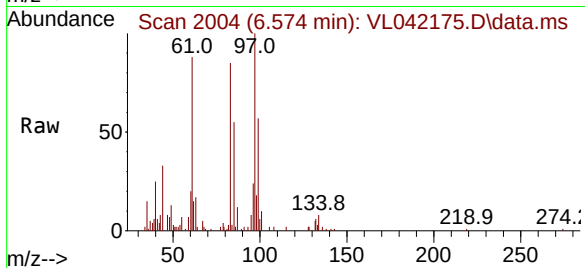
Ion Ratio Lower Upper

97 100

83 84.5 69.2 103.8

85 55.9 43.1 64.7

99 56.4 49.4 74.2



#48

Dibromochloromethane

Concen: 0.503 ppbv

RT: 7.380 min Scan# 2253

Delta R.T. -0.000 min

Lab File: VL042175.D

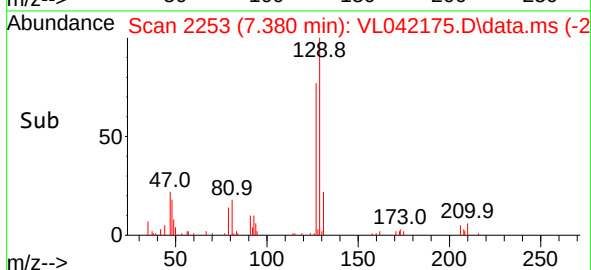
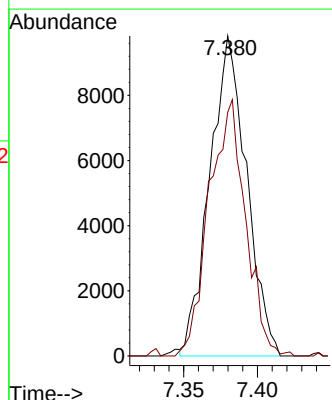
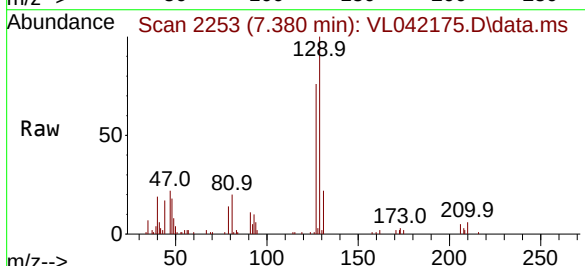
Acq: 27 Mar 2025 10:01

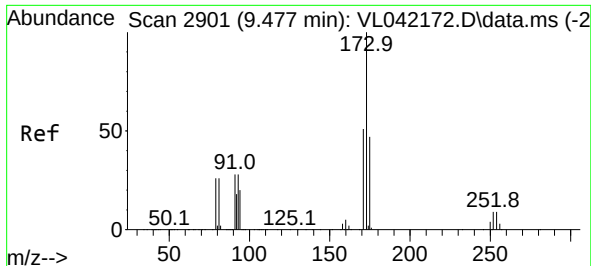
Tgt Ion: 129 Resp: 17042

Ion Ratio Lower Upper

129 100

127 79.4 39.1 117.2

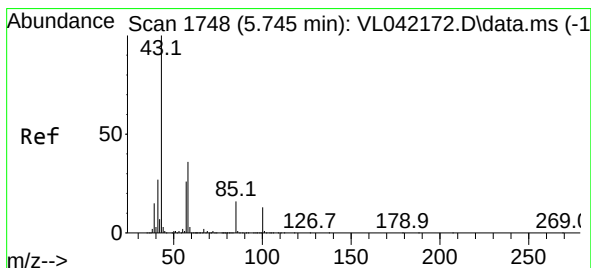
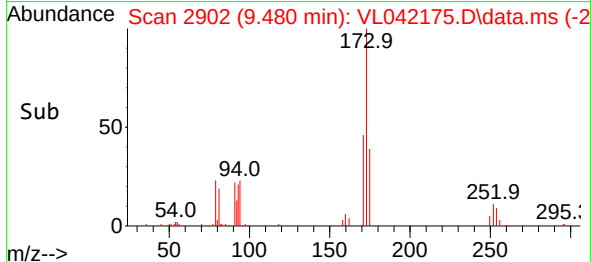
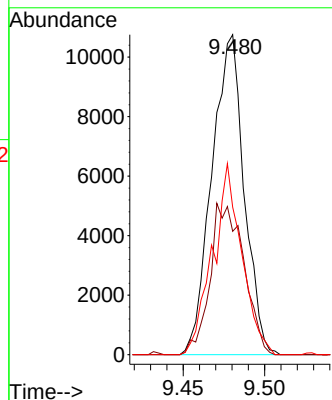
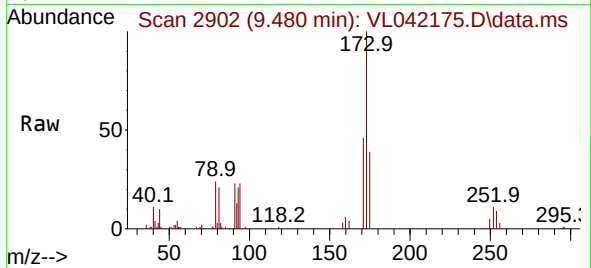




#49
Bromoform
Concen: 0.487 ppbv
RT: 9.480 min Scan# 2901
Delta R.T. 0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

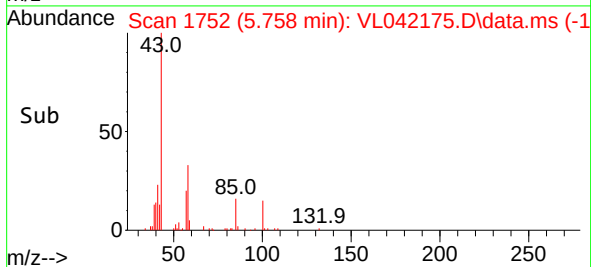
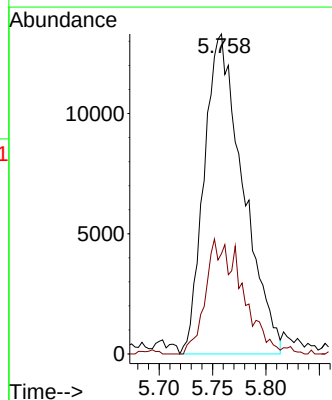
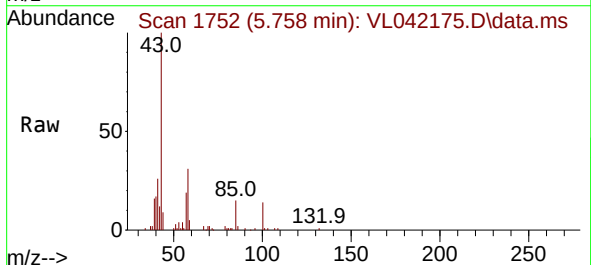
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

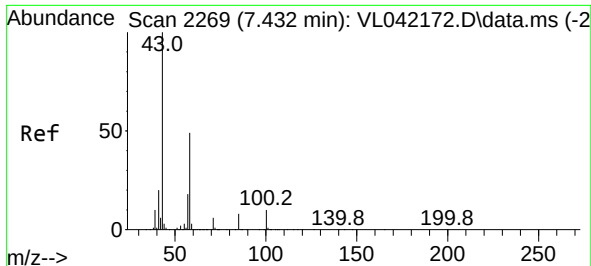
Tgt Ion:173 Resp: 14828
Ion Ratio Lower Upper
173 100
175 49.7 38.6 57.8
171 53.8 41.8 62.6



#50
4-Methyl-2-Pentanone
Concen: 0.559 ppbv
RT: 5.758 min Scan# 1752
Delta R.T. 0.013 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 43 Resp: 33674
Ion Ratio Lower Upper
43 100
58 34.4 29.0 43.6

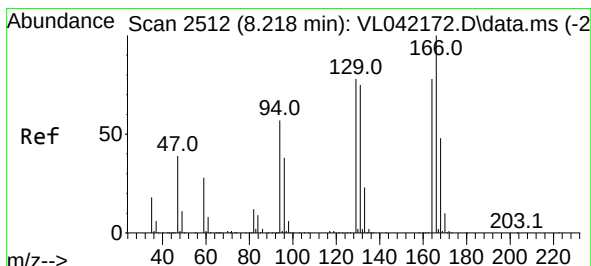
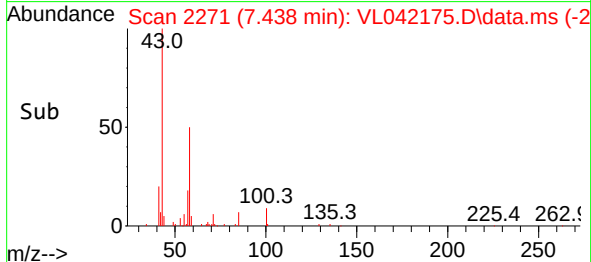
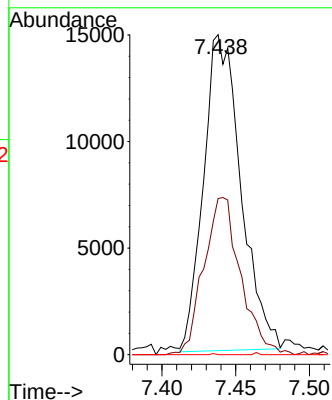
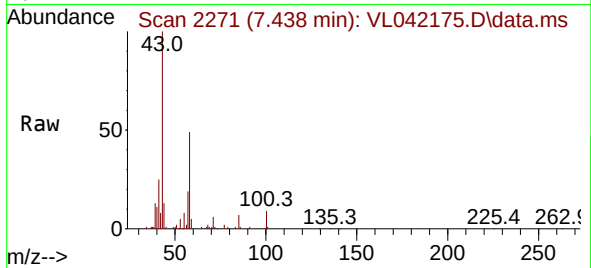




#51
2-Hexanone
Concen: 0.523 ppbv
RT: 7.438 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

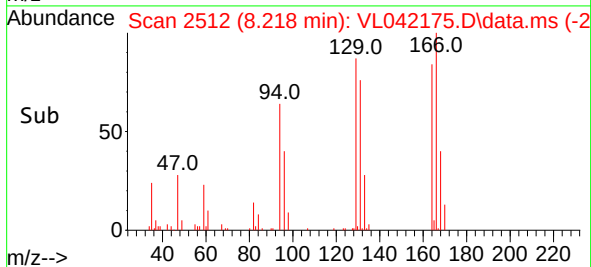
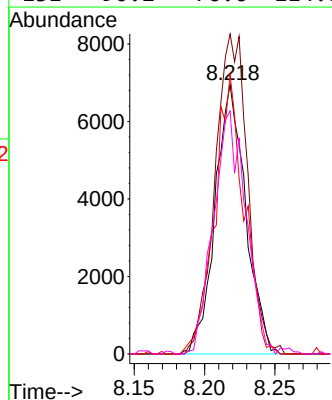
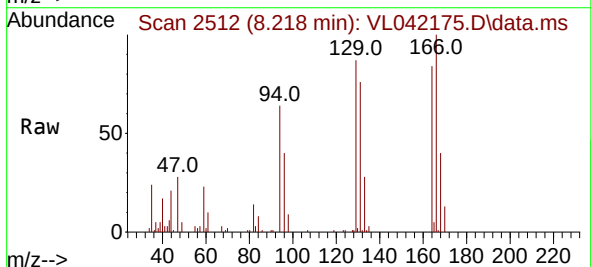
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

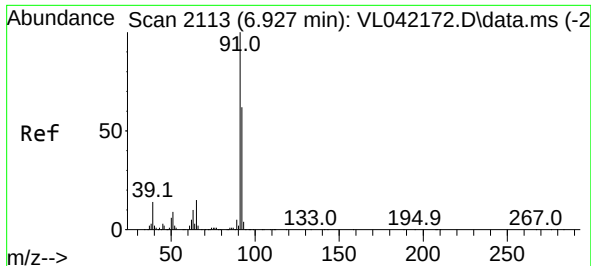
Tgt Ion: 43 Resp: 26154
Ion Ratio Lower Upper
43 100
58 49.8 39.7 59.5
98 0.0 0.1 0.1#



#52
Tetrachloroethene
Concen: 0.510 ppbv
RT: 8.218 min Scan# 2512
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 164 Resp: 10502
Ion Ratio Lower Upper
164 100
166 118.9 102.5 153.7
129 103.8 79.8 119.8
131 90.2 76.6 114.8

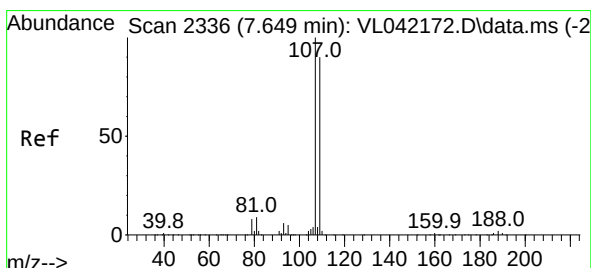
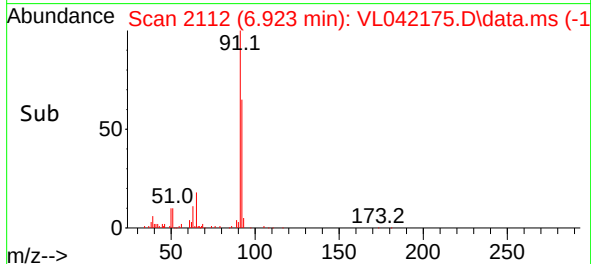
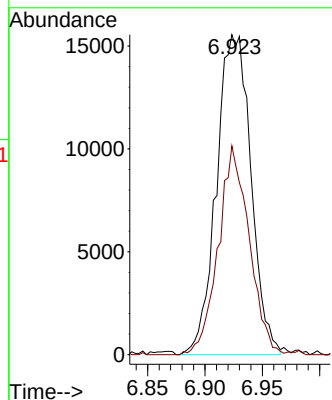
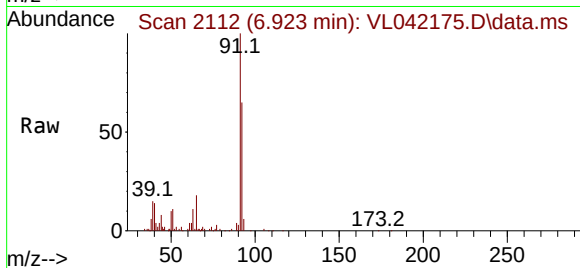




#53
Toluene
Concen: 0.527 ppbv
RT: 6.923 min Scan# 2113
Delta R.T. -0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

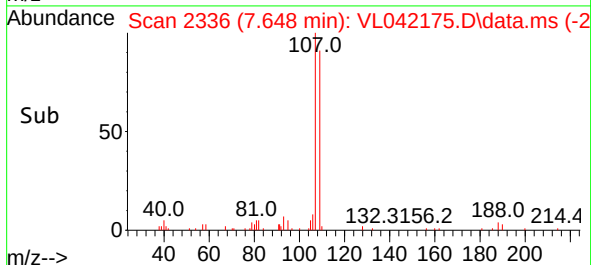
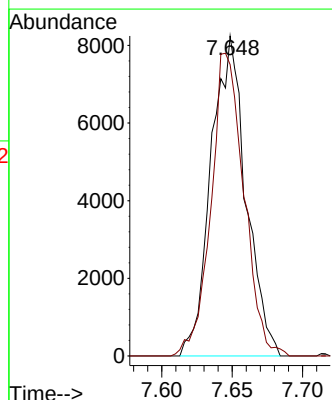
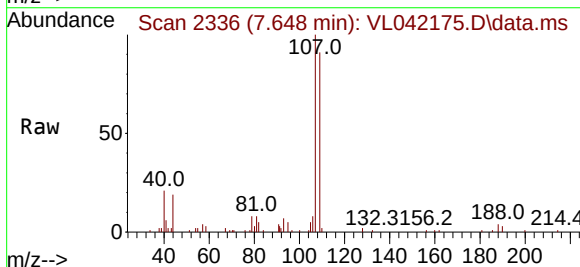
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

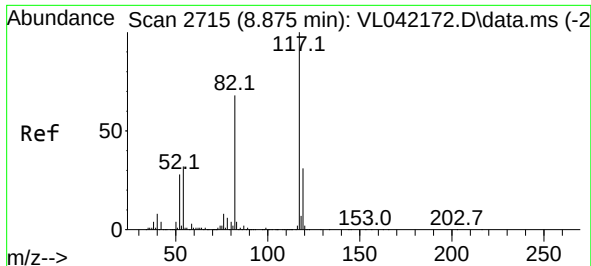
Tgt Ion: 91 Resp: 32444
Ion Ratio Lower Upper
91 100
92 58.9 48.4 72.6



#54
1,2-Dibromoethane
Concen: 0.510 ppbv
RT: 7.648 min Scan# 2336
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 107 Resp: 14220
Ion Ratio Lower Upper
107 100
109 89.1 72.2 108.4

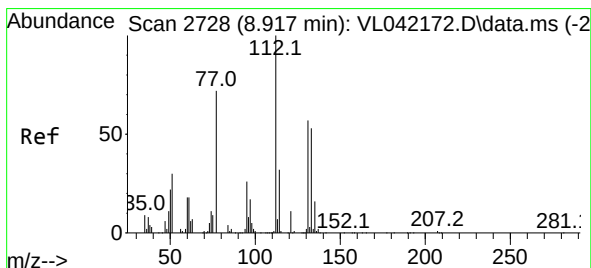
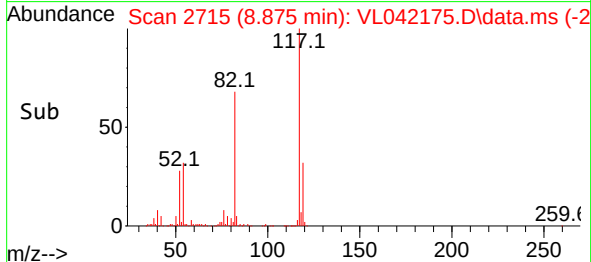
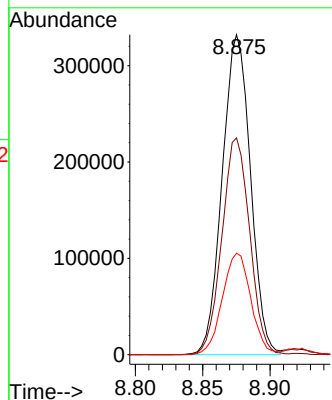
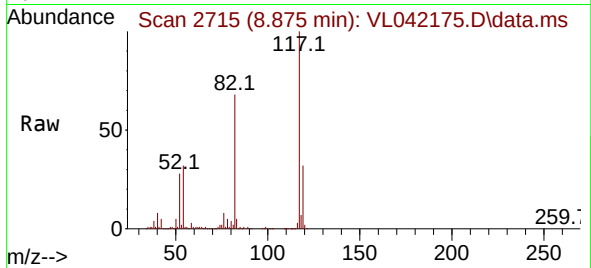




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

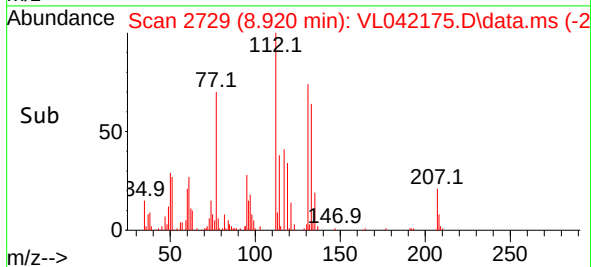
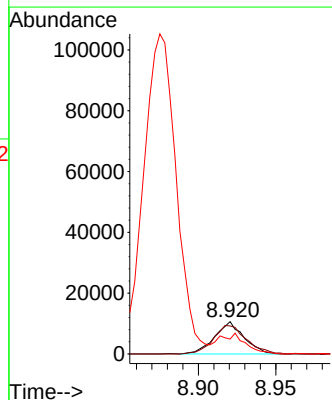
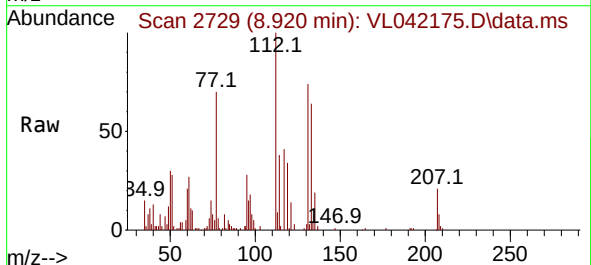
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

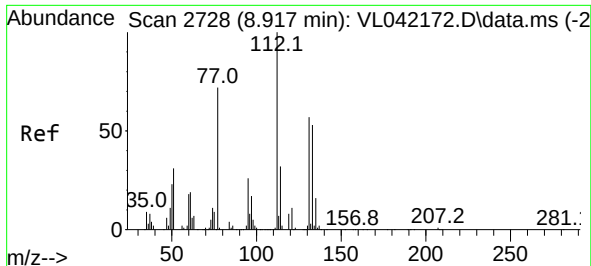
Tgt Ion:117 Resp: 485078
Ion Ratio Lower Upper
117 100
82 67.0 55.8 83.6
119 33.7 25.5 38.3



#56
1,1,1,2-Tetrachloroethane
Concen: 0.523 ppbv
RT: 8.920 min Scan# 2729
Delta R.T. 0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion:131 Resp: 13959
Ion Ratio Lower Upper
131 100
133 99.6 76.6 114.8
119 1170.3 49.8 74.6#

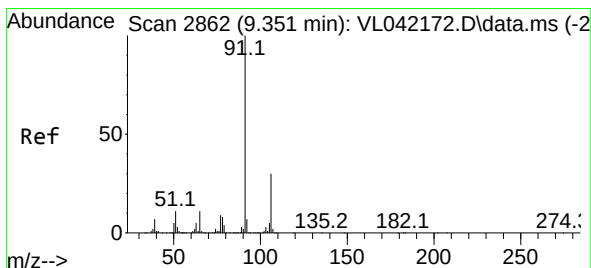
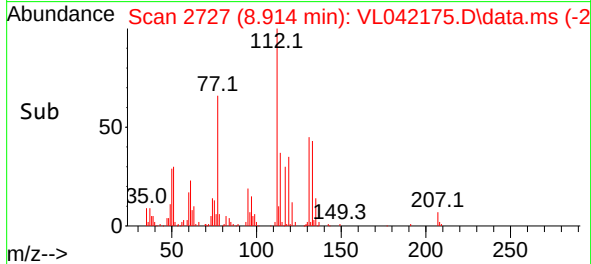
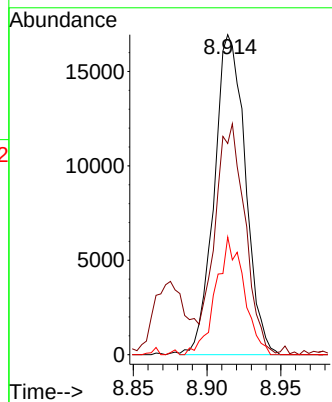
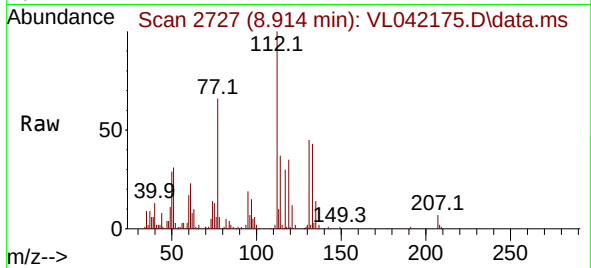




#57
Chlorobenzene
Concen: 0.540 ppbv
RT: 8.914 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

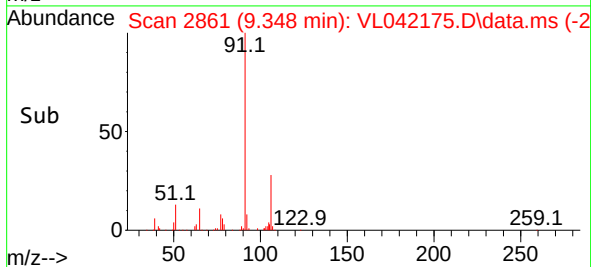
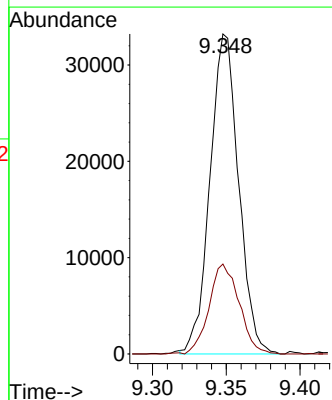
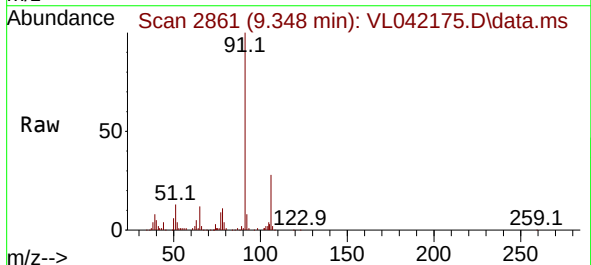
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

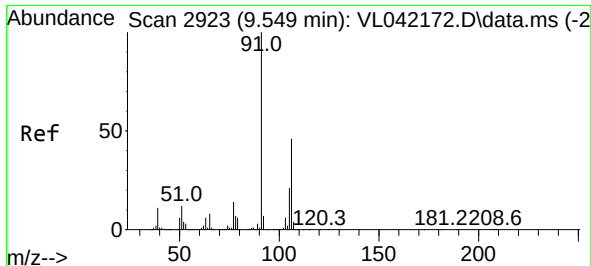
Tgt Ion:112 Resp: 24826
Ion Ratio Lower Upper
112 100
77 65.1 58.2 87.2
114 36.8 29.1 35.5#



#58
Ethyl Benzene
Concen: 0.521 ppbv
RT: 9.348 min Scan# 2861
Delta R.T. -0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 91 Resp: 44862
Ion Ratio Lower Upper
91 100
106 28.1 24.2 36.2





#59

m/p-Xylene

Concen: 0.272 ppbv

RT: 9.548 min Scan# 2923

Delta R.T. -0.000 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

Instrument :

MSVOA_1

ClientSampleId :

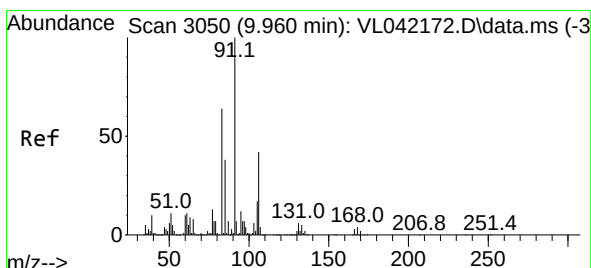
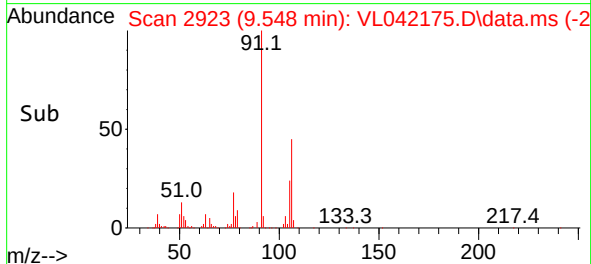
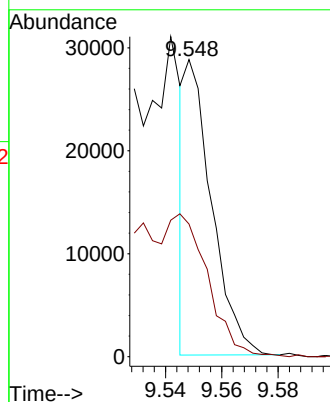
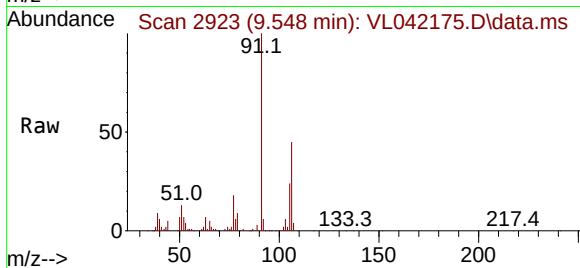
VSTDIC0.5

Tgt Ion: 91 Resp: 18711

Ion Ratio Lower Upper

91 100

106 176.2 36.4 54.6#



#60

o-Xylene

Concen: 0.535 ppbv

RT: 9.959 min Scan# 3050

Delta R.T. -0.000 min

Lab File: VL042175.D

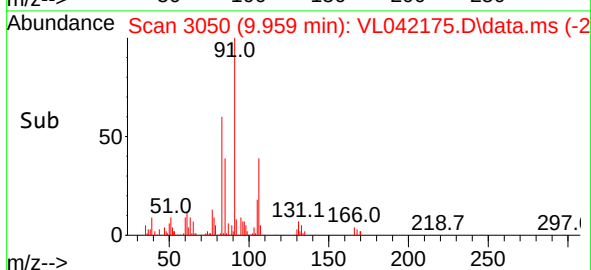
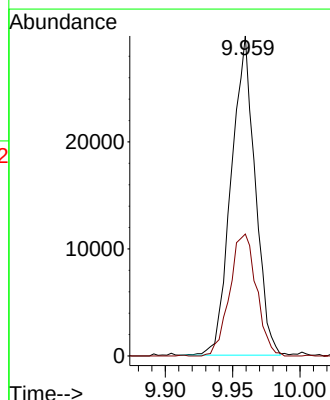
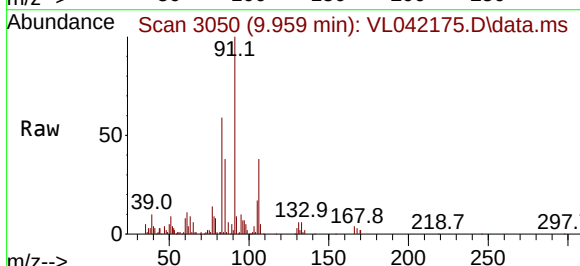
Acq: 27 Mar 2025 10:01

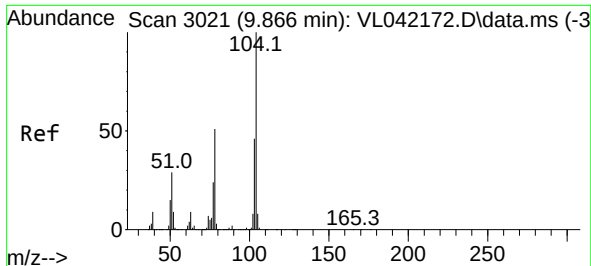
Tgt Ion: 91 Resp: 36879

Ion Ratio Lower Upper

91 100

106 42.7 20.8 62.5

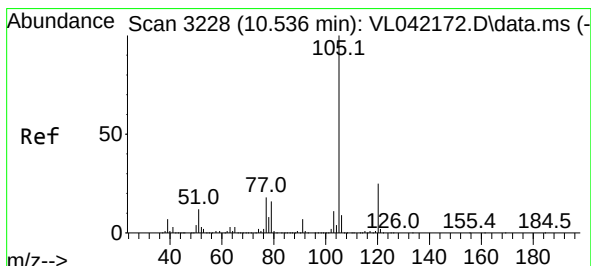
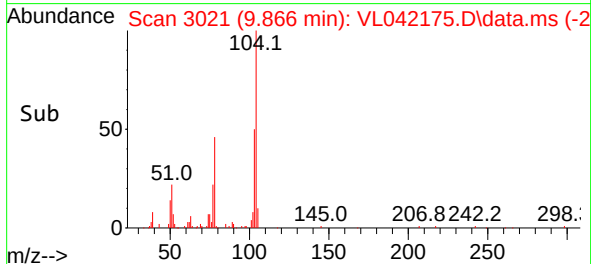
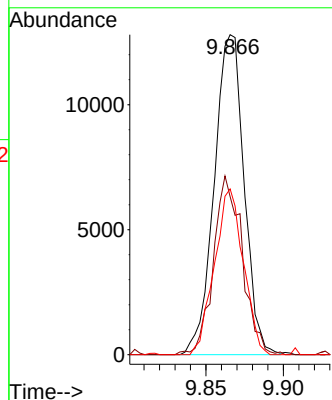
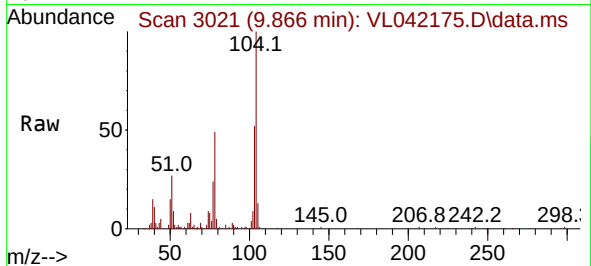




#61
Styrene
Concen: 0.504 ppbv
RT: 9.866 min Scan# 3021
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

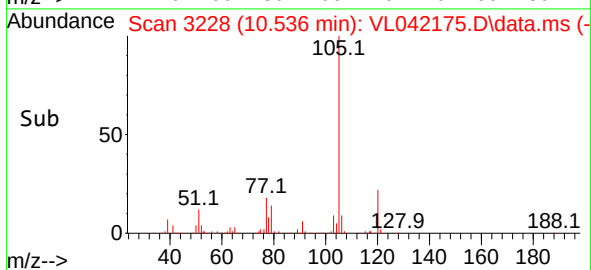
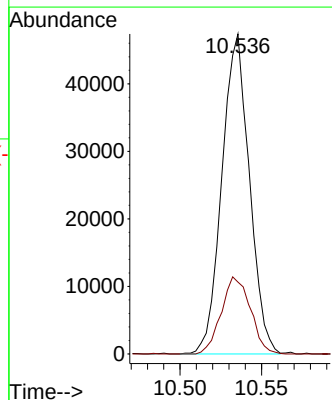
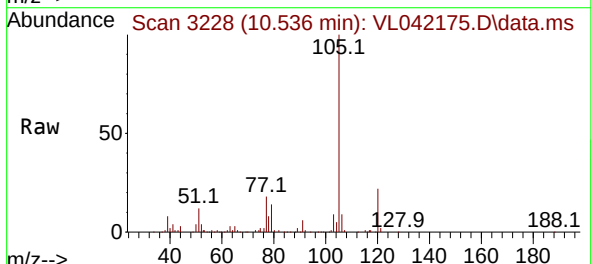
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

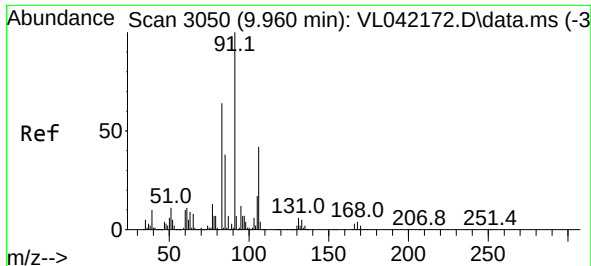
Tgt Ion:104 Resp: 17198
Ion Ratio Lower Upper
104 100
78 53.7 41.8 62.6
103 50.2 37.0 55.4



#62
Isopropylbenzene
Concen: 0.538 ppbv
RT: 10.536 min Scan# 3228
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion:105 Resp: 55531
Ion Ratio Lower Upper
105 100
120 25.5 19.9 29.9

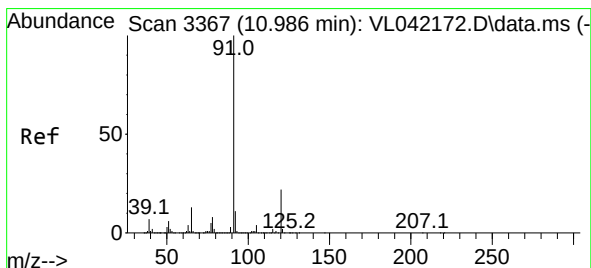
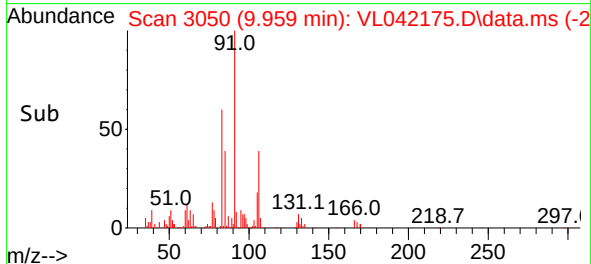
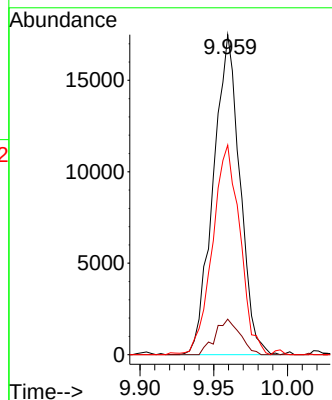
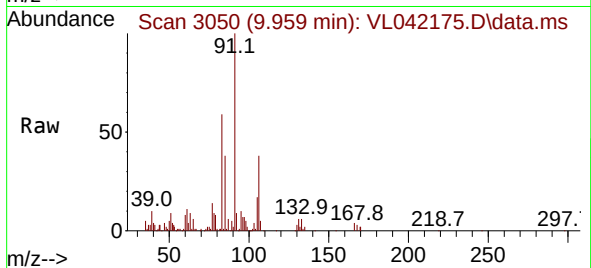




#63
1,1,2,2-Tetrachloroethane
Concen: 0.525 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

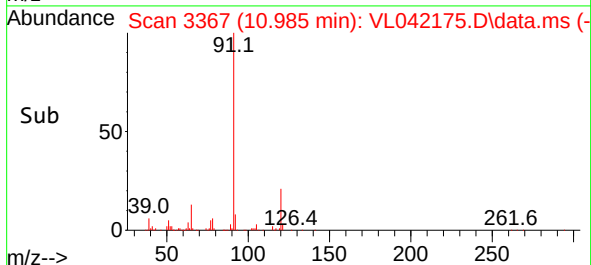
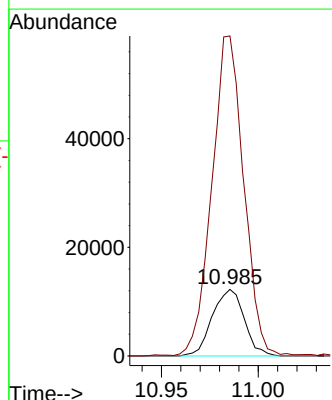
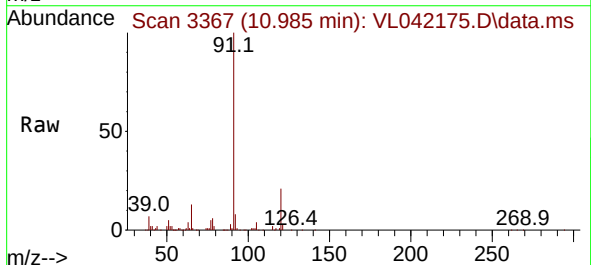
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

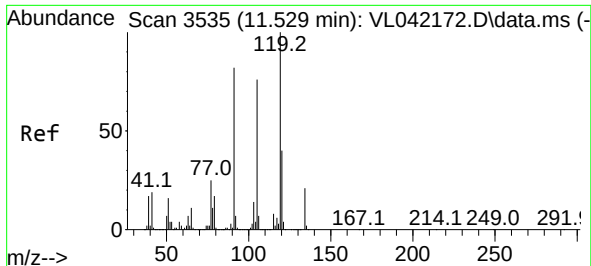
Tgt Ion:	83	Resp:	21989
Ion	Ratio	Lower	Upper
83	100		
131	10.4	4.8	14.4
85	68.1	32.5	97.5



#64
n-propylbenzene
Concen: 0.528 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion:	120	Resp:	14030
Ion	Ratio	Lower	Upper
120	100		
91	483.1	376.9	565.3

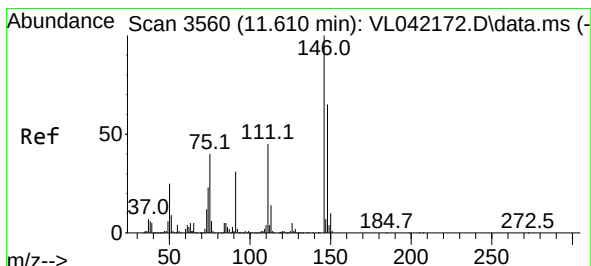
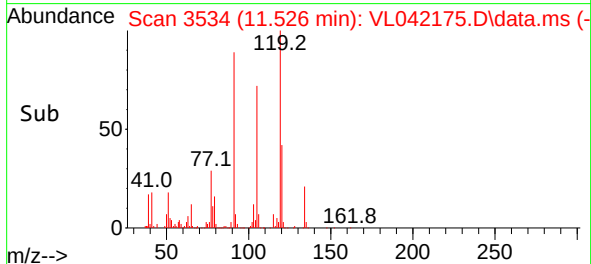
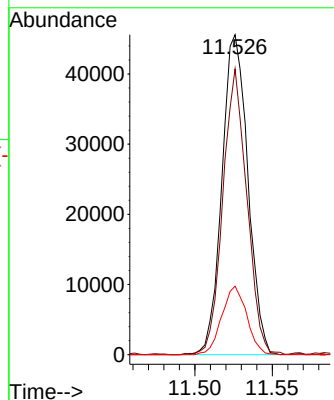
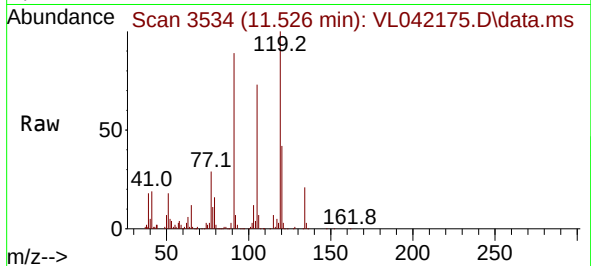




#65
tert-Butylbenzene
Concen: 0.557 ppbv
RT: 11.526 min Scan# 3534
Delta R.T. -0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

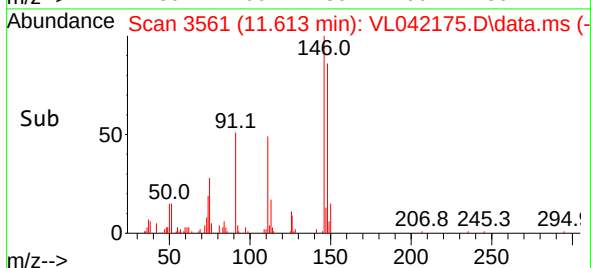
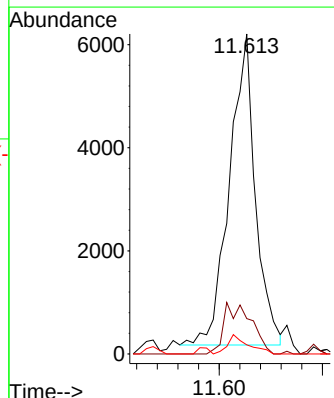
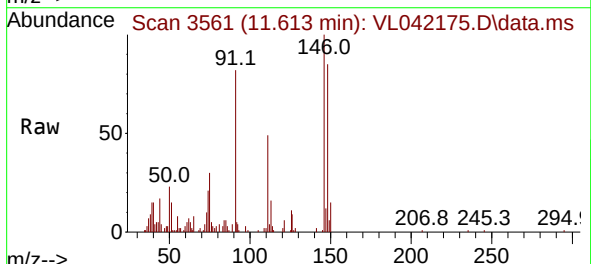
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

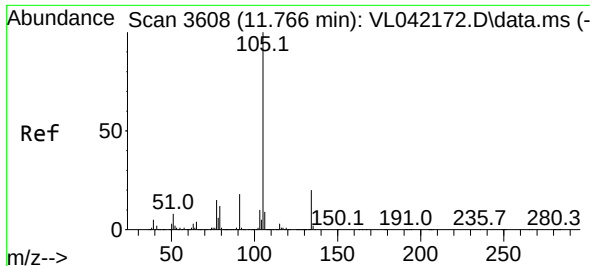
Tgt Ion:	119	Resp:	53115
Ion Ratio	Lower	Upper	
119	100		
91	82.9	66.0	99.0
134	20.6	16.7	25.1



#66
Benzyl Chloride
Concen: 0.520 ppbv
RT: 11.613 min Scan# 3561
Delta R.T. 0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion:	91	Resp:	5263
Ion Ratio	Lower	Upper	
91	100		
126	18.7	13.8	20.6
128	5.8	4.5	6.7

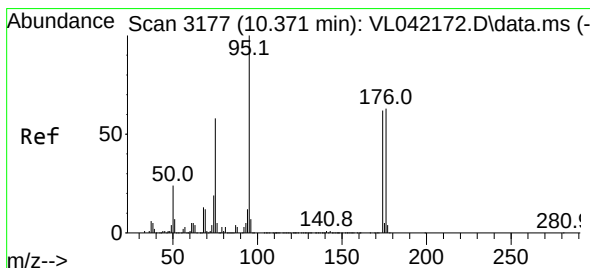
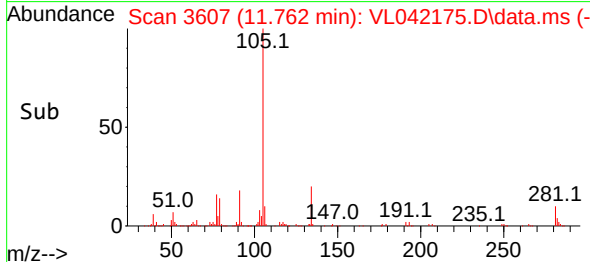
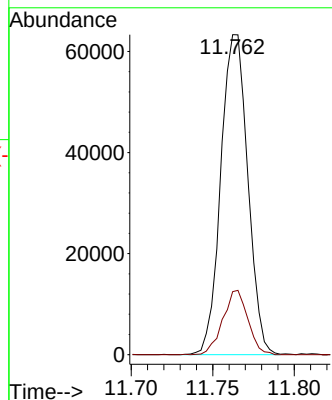
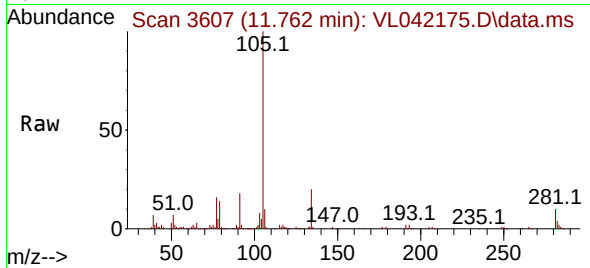




#67
 sec-Butylbenzene
 Concen: 0.550 ppbv
 RT: 11.762 min Scan# 3608
 Delta R.T. -0.003 min
 Lab File: VL042175.D
 Acq: 27 Mar 2025 10:01

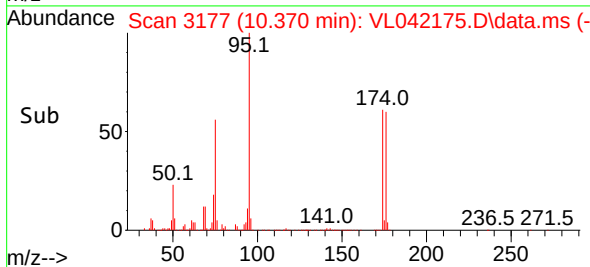
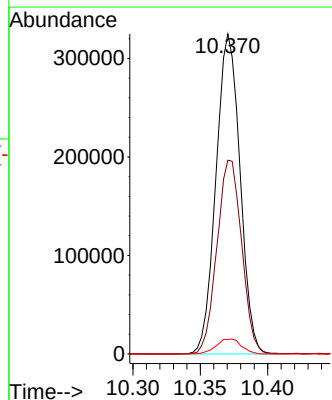
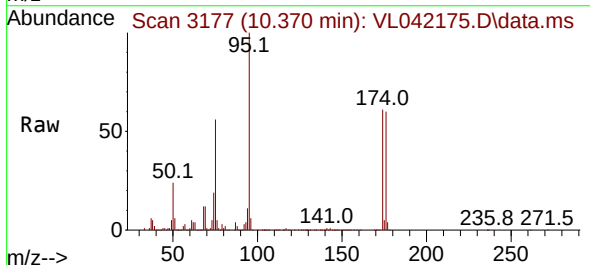
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.5

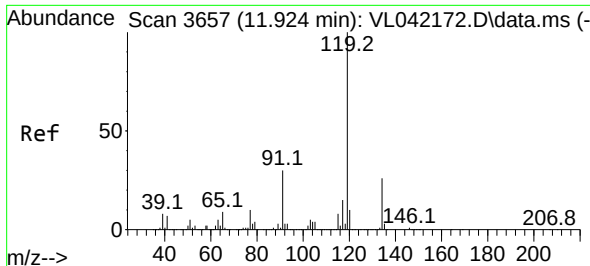
Tgt Ion:105 Resp: 72879
 Ion Ratio Lower Upper
 105 100
 134 18.6 15.5 23.3



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.130 ppbv
 RT: 10.370 min Scan# 3177
 Delta R.T. -0.000 min
 Lab File: VL042175.D
 Acq: 27 Mar 2025 10:01

Tgt Ion: 95 Resp: 403513
 Ion Ratio Lower Upper
 95 100
 174 62.3 50.6 76.0
 175 4.9 3.8 5.6

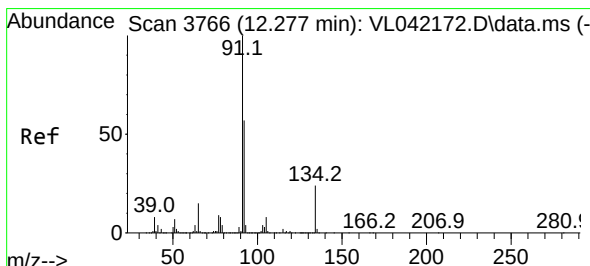
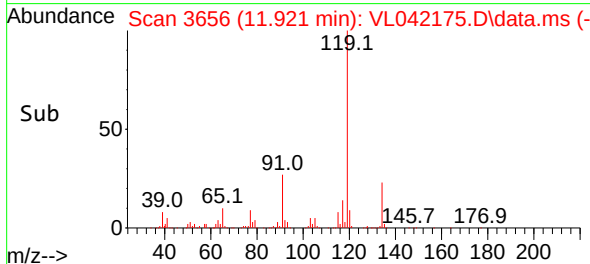
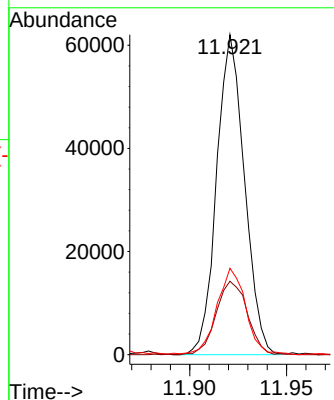
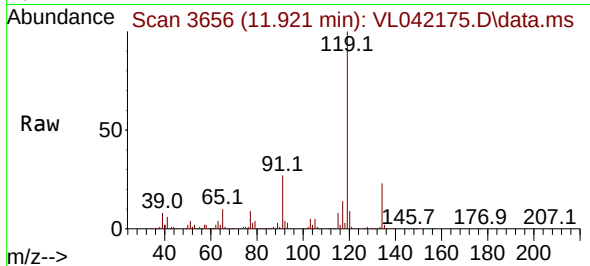




#69
p-Isopropyltoluene
Concen: 0.542 ppbv
RT: 11.921 min Scan# 30
Delta R.T. -0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

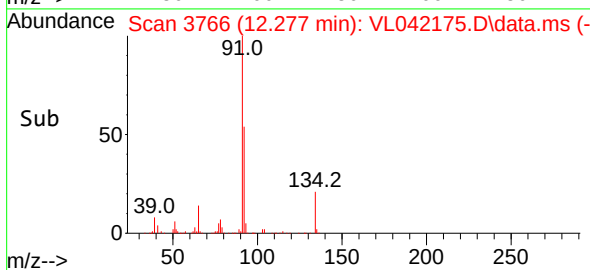
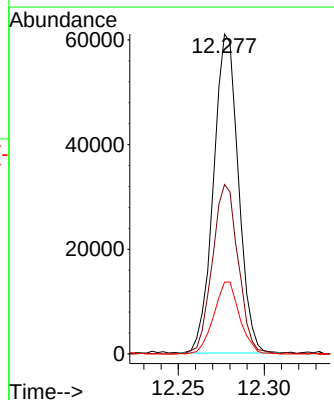
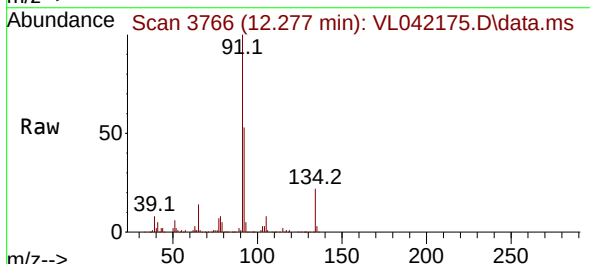
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

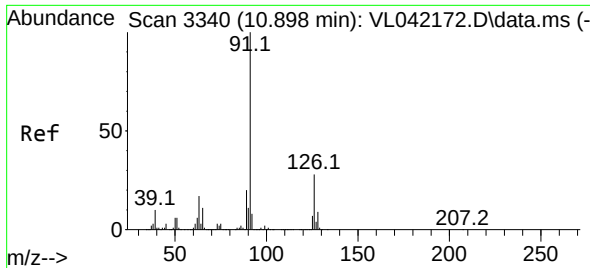
Tgt Ion:119 Resp: 61933
Ion Ratio Lower Upper
119 100
134 25.8 20.4 30.6
91 29.4 23.7 35.5



#70
n-Butylbenzene
Concen: 0.527 ppbv
RT: 12.277 min Scan# 3766
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 91 Resp: 61507
Ion Ratio Lower Upper
91 100
92 55.3 44.9 67.3
134 23.4 19.2 28.8

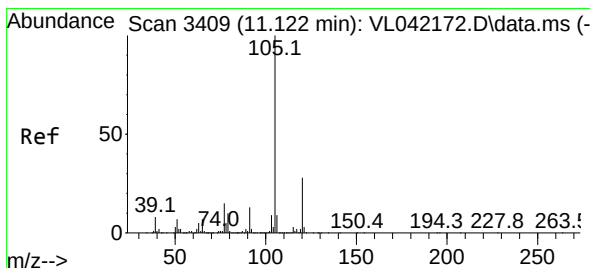
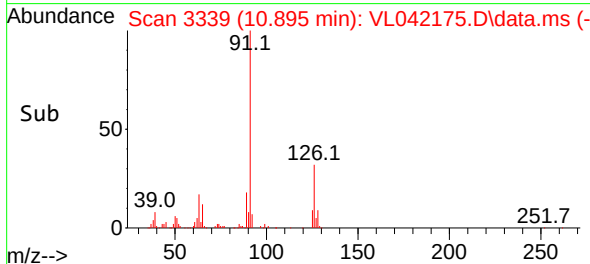
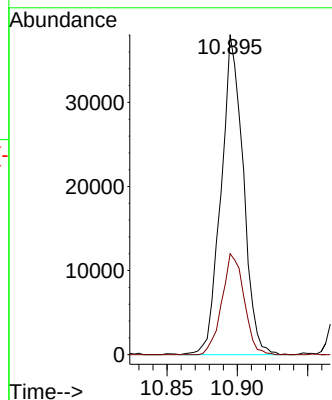
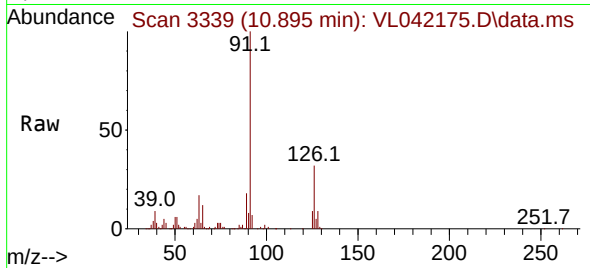




#71
2-Chlorotoluene
Concen: 0.520 ppbv
RT: 10.895 min Scan# 31
Delta R.T. -0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

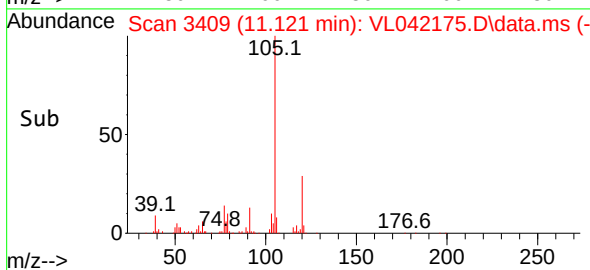
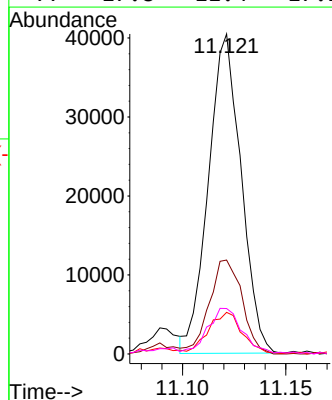
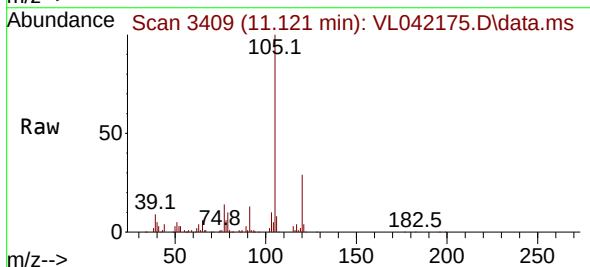
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

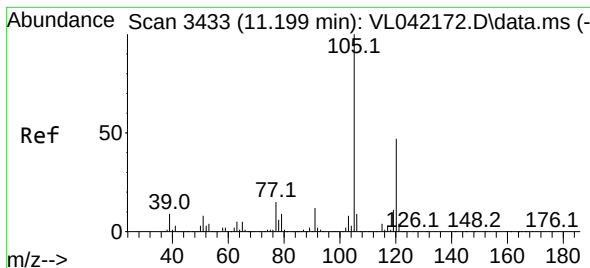
Tgt Ion: 91 Resp: 41637
Ion Ratio Lower Upper
91 100
126 31.7 11.6 46.4



#72
4-Ethyltoluene
Concen: 0.518 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 105 Resp: 44473
Ion Ratio Lower Upper
105 100
120 32.3 23.4 35.0
91 14.9 10.3 15.5
77 17.8 11.4 17.2#

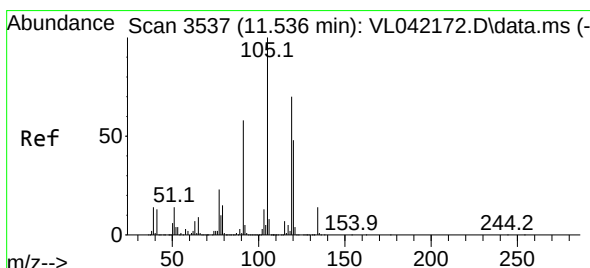
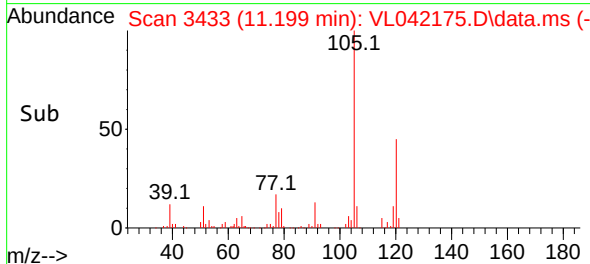
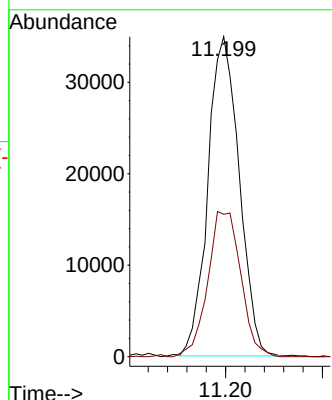
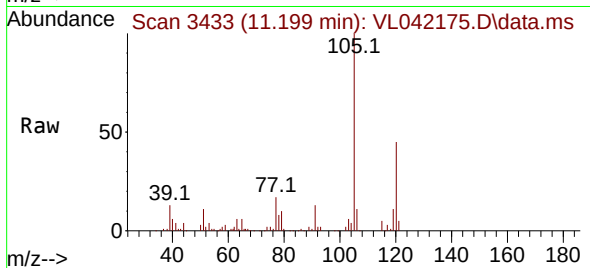




#73
1,3,5-Trimethylbenzene
Concen: 0.523 ppbv
RT: 11.199 min Scan# 3433
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

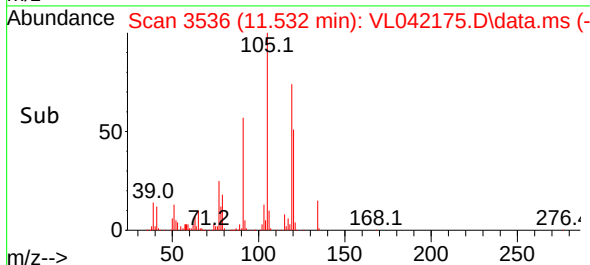
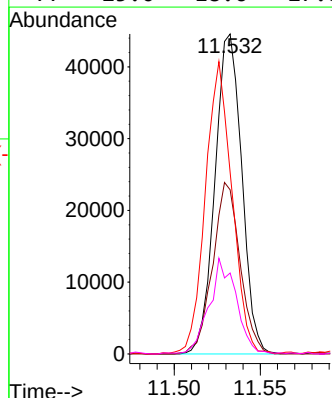
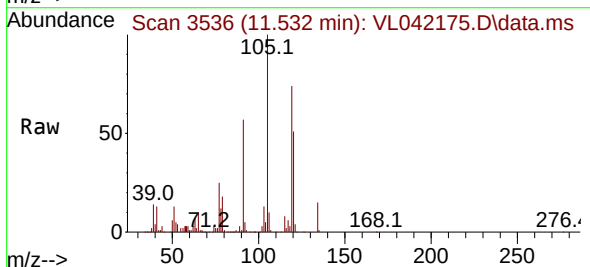
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

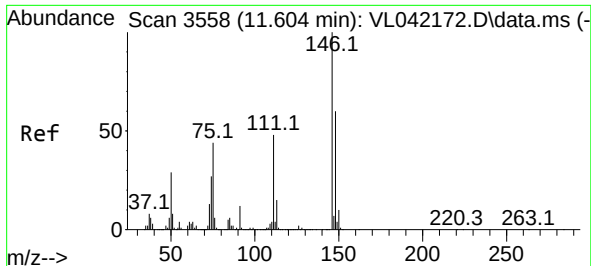
Tgt Ion:105 Resp: 39190
Ion Ratio Lower Upper
105 100
120 44.6 37.4 56.0



#74
1,2,4-Trimethylbenzene
Concen: 0.560 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. -0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion:105 Resp: 48370
Ion Ratio Lower Upper
105 100
120 51.3 38.6 58.0
91 56.5 46.2 69.2
77 25.0 18.6 27.8

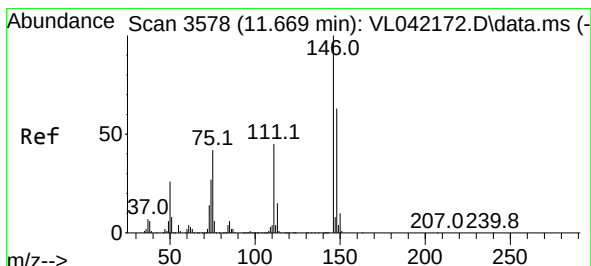
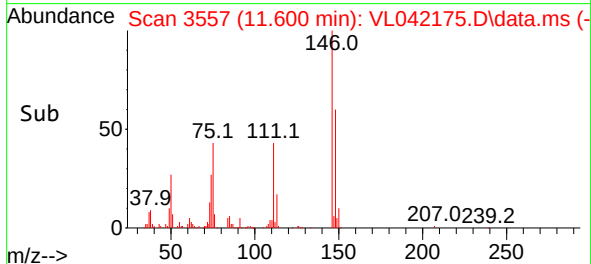
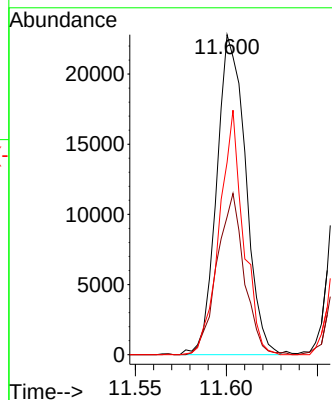
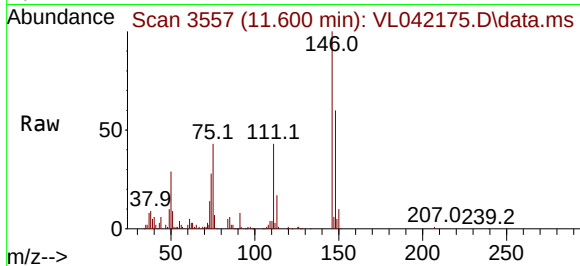




#75
1,3-Dichlorobenzene
Concen: 0.530 ppbv
RT: 11.600 min Scan# 3558
Delta R.T. -0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

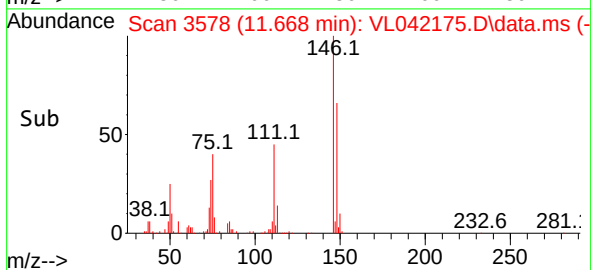
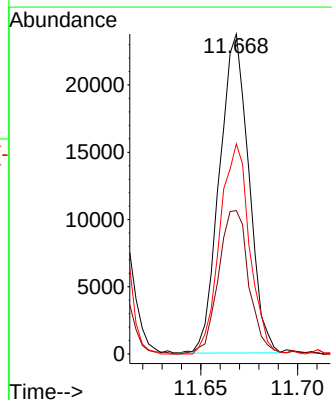
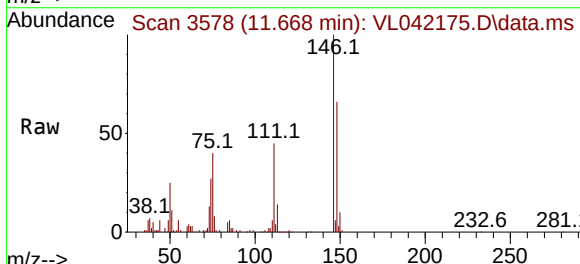
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

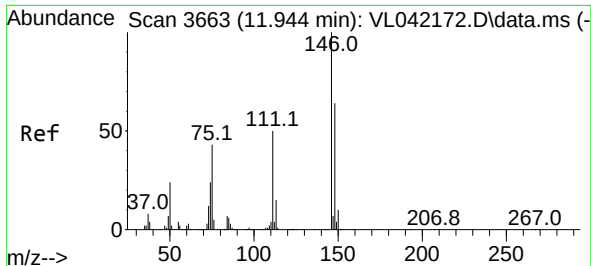
Tgt Ion:146 Resp: 25122
Ion Ratio Lower Upper
146 100
111 47.5 23.8 71.2
148 63.7 31.9 95.9



#76
1,4-Dichlorobenzene
Concen: 0.530 ppbv
RT: 11.668 min Scan# 3578
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion:146 Resp: 24991
Ion Ratio Lower Upper
146 100
111 47.0 23.0 69.0
148 67.5 31.9 95.7

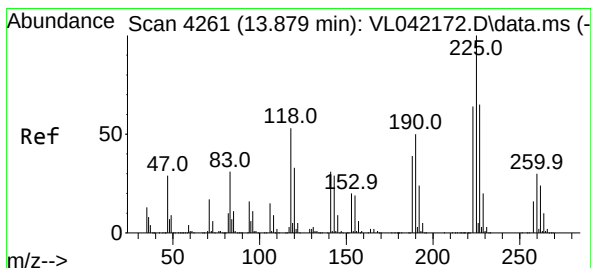
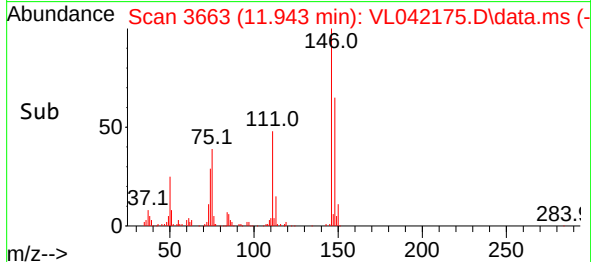
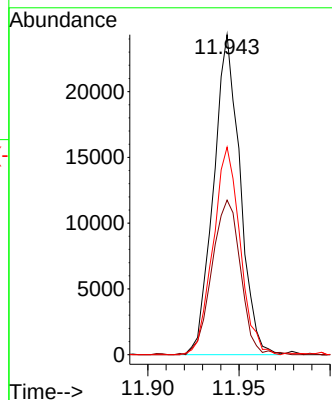
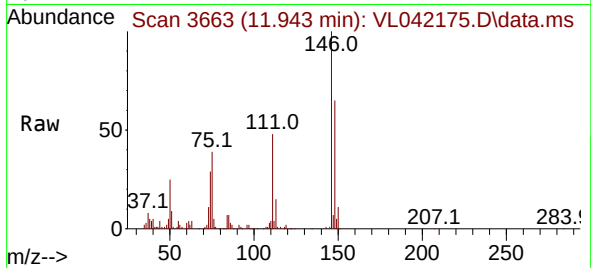




#77
1,2-Dichlorobenzene
Concen: 0.532 ppbv
RT: 11.943 min Scan# 3663
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

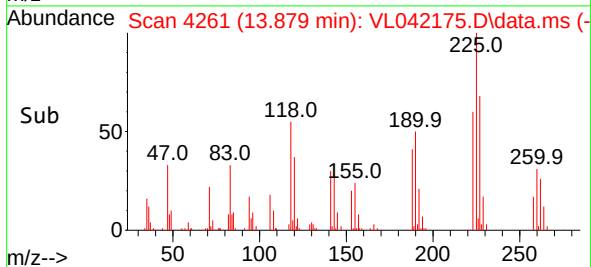
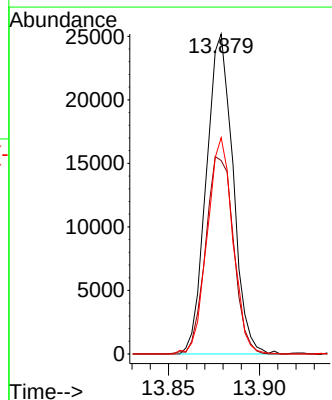
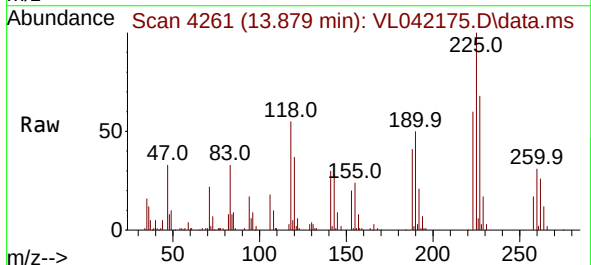
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

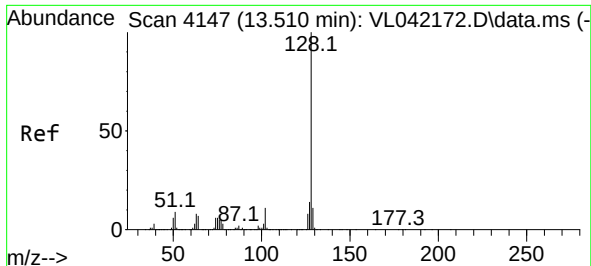
Tgt Ion:	146	Resp:	24548
Ion Ratio	Lower	Upper	
146	100		
111	52.2	24.8	74.3
148	66.6	31.6	94.8



#78
Hexachloro-1,3-Butadiene
Concen: 0.546 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion:	225	Resp:	25636
Ion Ratio	Lower	Upper	
225	100		
223	64.5	50.6	76.0
227	64.8	51.2	76.8

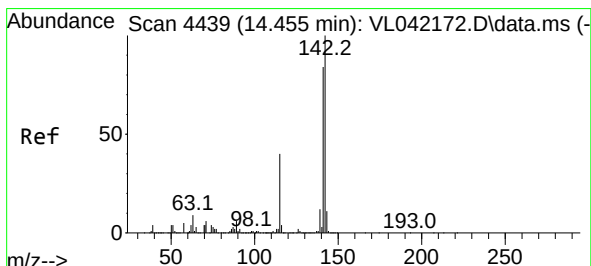
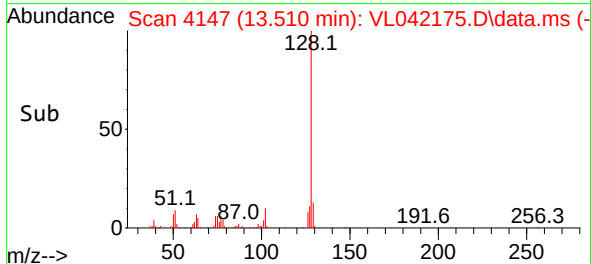
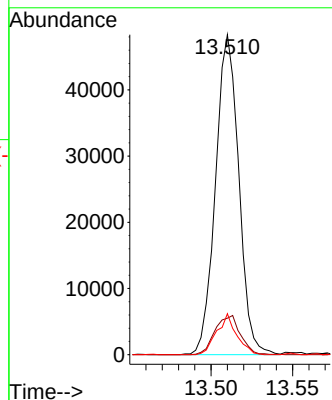
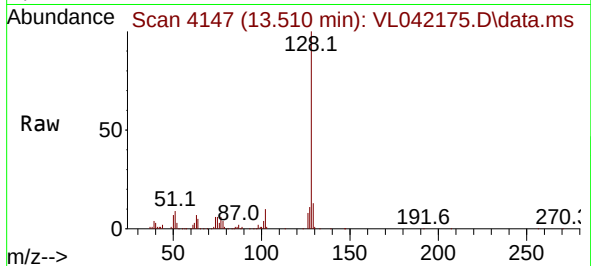




#79
Naphthalene
Concen: 0.508 ppbv
RT: 13.510 min Scan# 4147
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

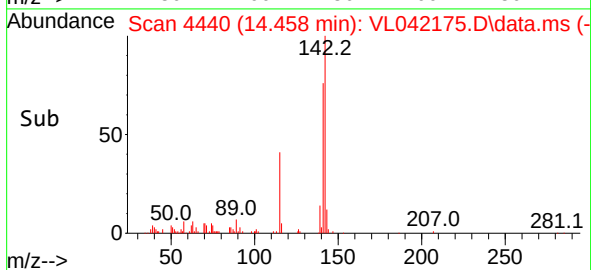
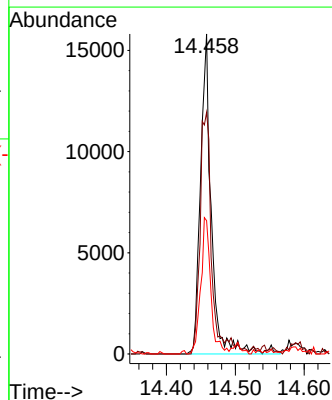
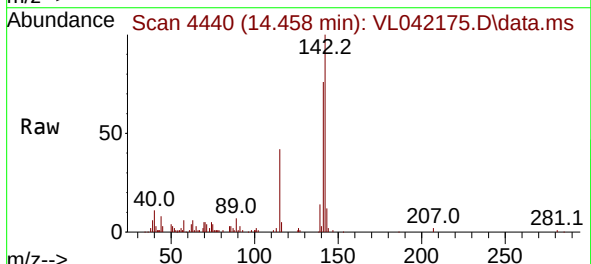
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

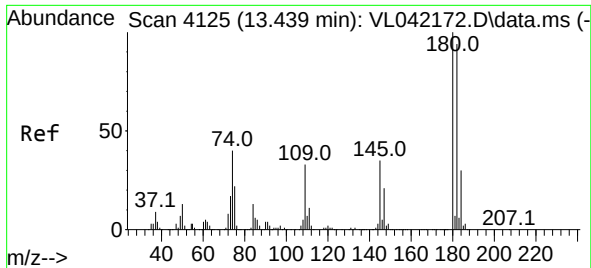
Tgt Ion:128 Resp: 47990
Ion Ratio Lower Upper
128 100
127 11.4 10.8 16.2
129 12.8 9.0 13.4



#80
Naphthalene,2-methyl-
Concen: 0.380 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. 0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion:142 Resp: 17486
Ion Ratio Lower Upper
142 100
141 83.3 66.3 99.5
115 43.5 31.6 47.4

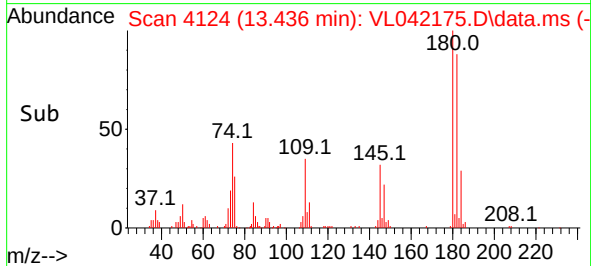
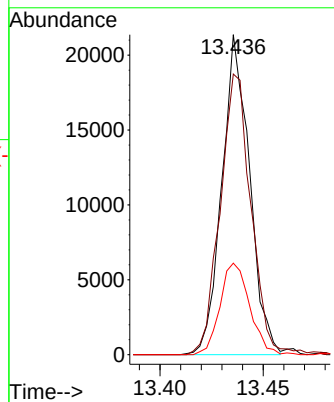
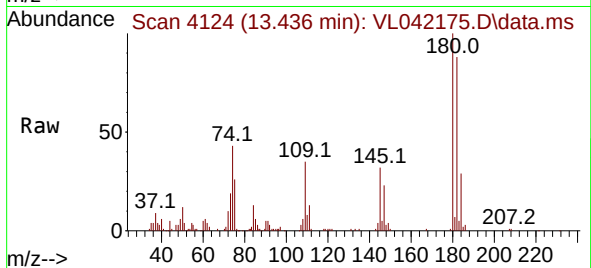




#81
 1,2,4-Trichlorobenzene
 Concen: 0.457 ppbv
 RT: 13.436 min Scan# 41
 Delta R.T. -0.003 min
 Lab File: VL042175.D
 Acq: 27 Mar 2025 10:01

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tgt Ion:180 Resp: 19924
 Ion Ratio Lower Upper
 180 100
 182 97.9 75.1 112.7
 184 31.1 24.4 36.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042176.D
 Acq On : 27 Mar 2025 10:32
 Operator : SY/MD
 Sample : VSTDIC0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

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 26 06:05:16 2022

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	
2) Dichlorodifluoromethane	1.554	85	2353	0.088	ppbv	100
3) Chlorodifluoromethane	1.476	51	3006	0.110	ppbv #	40
4) Chloromethane	1.531	50	1330	0.122	ppbv #	53
5) Vinyl Chloride	1.580	62	1274	0.115	ppbv #	42
6) Bromomethane	1.667	94	537	0.109	ppbv #	73
7) Chloroethane	1.703	64	616	0.141	ppbv #	49
8) Dichlorotetrafluoroethane	1.554	85	2353	0.104	ppbv	92
9) Propene	1.486	41	1664	0.135	ppbv #	44
11) Trichlorofluoromethane	1.878	101	2644	0.102	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.136	101	2551	0.120	ppbv #	81
13) Ethanol	1.716	45	721	0.750	ppbv	60
14) Bromoethene	1.780	108	956	0.117	ppbv #	11
15) Acetone	1.835	43	5179	0.205	ppbv	92
16) 1,3-Butadiene	1.609	39	1912	0.168	ppbv	94
17) tert-Butyl alcohol	2.046	59	3546	0.113	ppbv #	30
18) 1,1-Dichloroethene	2.033	96	1155	0.116	ppbv #	72
19) Isopropyl Alcohol	1.891	45	1838	0.129	ppbv #	49
20) Methylene Chloride	2.059	84	2388	0.254	ppbv #	88
21) Allyl Chloride	2.091	41	3040	0.171	ppbv #	77
22) trans-1,2-Dichloroethene	2.722	96	1512	0.130	ppbv	99
23) Vinyl Acetate	2.457	43	1746	0.166	ppbv #	1
24) 1,1-Dichloroethane	2.408	63	2446	0.114	ppbv #	92
25) Ethyl Acetate	2.842	43	6359	0.097	ppbv #	80
26) Hexane	2.823	57	3126	0.123	ppbv #	5
27) Carbon Disulfide	2.149	76	3075	0.113	ppbv #	1
28) Methyl tert-Butyl Ether	2.438	73	875	0.055	ppbv #	49
29) Chloroform	2.845	83	4120	0.111	ppbv	92
30) Cyclohexane	3.855	84	1113	0.051	ppbv #	1
31) cis-1,2-Dichloroethene	2.722	61	2587	0.101	ppbv	95
32) 1,1,1-Trichloroethane	3.366	97	2773	0.065	ppbv #	50
34) 2-Butanone	2.564	43	4331	0.113	ppbv	91
35) Carbon Tetrachloride	3.768	117	3523	0.087	ppbv #	71
36) Benzene	3.658	78	5031	0.096	ppbv #	82
37) 1,2-Dichloroethane	3.218	62	2942	0.098	ppbv	97
39) 1,2-Dichloropropane	3.959	63	135792	7.123	ppbv #	22
40) 1,4-Dioxane	4.616	88	843	0.085	ppbv #	25
42) Bromodichloromethane	4.490	83	4103	0.099	ppbv #	94
43) Methyl Methacrylate	4.878	69	930	0.042	ppbv #	1
45) t-1,3-Dichloropropene	6.419	75	1449	0.061	ppbv #	64
48) Dibromochloromethane	7.383	129	2284	0.067	ppbv	68
49) Bromoform	9.480	173	2928	0.095	ppbv	94
51) 2-Hexanone	7.448	43	4284	0.085	ppbv #	87
53) Toluene	6.930	91	3144	0.051	ppbv #	25

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 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

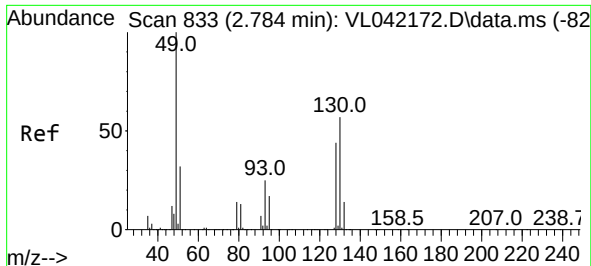
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 ClientSampleId :
 VSTDICC0.1

Quant Time: Mar 28 01:35:34 2025
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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 01:31:23 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) 1,2-Dibromoethane	7.652	107	1864	0.066	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.924	131	2963	0.112	ppbv #	1
57) Chlorobenzene	8.917	112	4904	0.107	ppbv #	74
58) Ethyl Benzene	9.354	91	8648	0.101	ppbv	93
59) m/p-Xylene	9.545	91	6005	0.088	ppbv #	12
60) o-Xylene	9.959	91	8048	0.118	ppbv	96
61) Styrene	9.872	104	1723	0.051	ppbv #	25
62) Isopropylbenzene	10.536	105	10359	0.101	ppbv	97
63) 1,1,2,2-Tetrachloroethane	9.959	83	1910	0.046	ppbv #	25
64) n-propylbenzene	10.989	120	2375	0.090	ppbv #	62
65) tert-Butylbenzene	11.526	119	9418	0.099	ppbv	94
66) Benzyl Chloride	11.617	91	844	0.084	ppbv #	86
67) sec-Butylbenzene	11.765	105	13775	0.105	ppbv	96
69) p-Isopropyltoluene	11.924	119	11366	0.100	ppbv	98
70) n-Butylbenzene	12.280	91	10697	0.092	ppbv	97
71) 2-Chlorotoluene	10.898	91	8347	0.105	ppbv	98
72) 4-Ethyltoluene	11.125	105	8579	0.101	ppbv #	84
73) 1,3,5-Trimethylbenzene	11.202	105	8407	0.113	ppbv	91
74) 1,2,4-Trimethylbenzene	11.536	105	10341	0.121	ppbv #	95
75) 1,3-Dichlorobenzene	11.604	146	4426	0.094	ppbv	94
76) 1,4-Dichlorobenzene	11.672	146	4552	0.097	ppbv	95
77) 1,2-Dichlorobenzene	11.947	146	4867	0.106	ppbv	93
78) Hexachloro-1,3-Butadiene	13.882	225	4755	0.102	ppbv	94
79) Naphthalene	13.513	128	7882	0.084	ppbv #	92
80) Naphthalene,2-methyl-	14.471	142	2174	0.048	ppbv #	78
81) 1,2,4-Trichlorobenzene	13.442	180	2557	0.059	ppbv	98

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

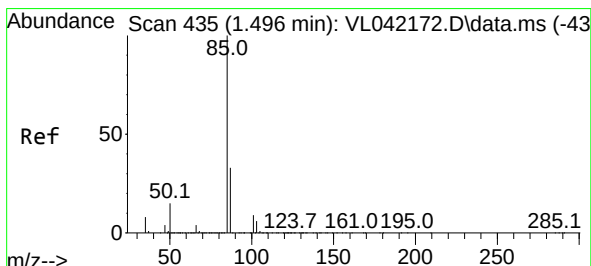
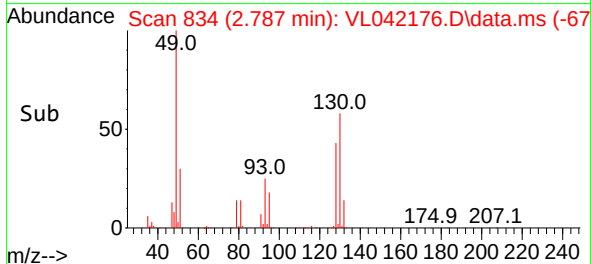
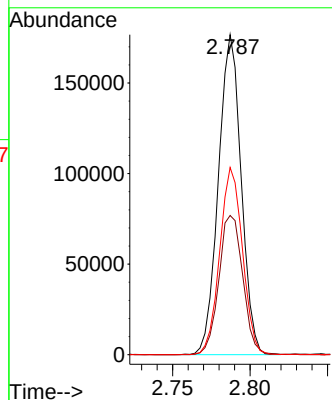
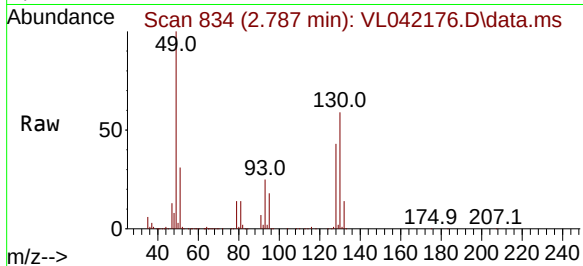
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- 16
- 17
- 18



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

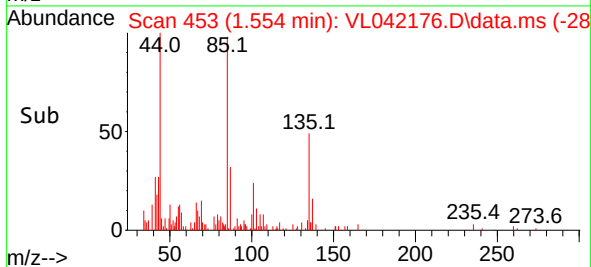
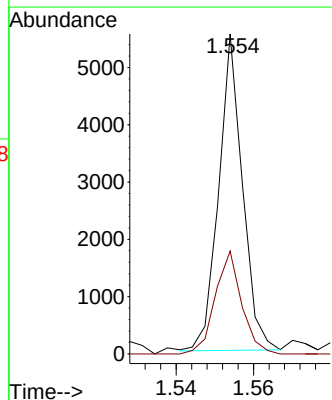
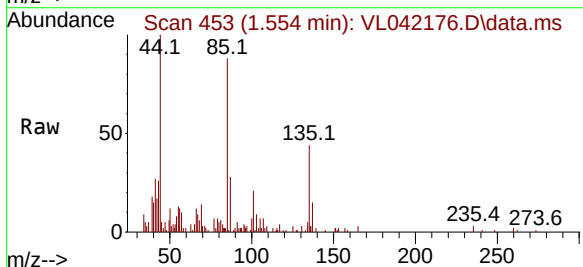
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ClientSampleId :
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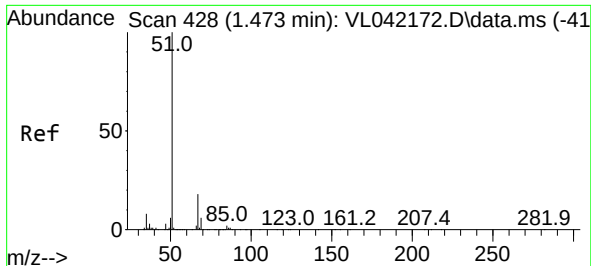
Tgt Ion: 49 Resp: 180740
Ion Ratio Lower Upper
49 100
128 45.6 22.9 68.5
130 58.5 28.8 86.4



#2
Dichlorodifluoromethane
Concen: 0.088 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.058 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion: 85 Resp: 2353
Ion Ratio Lower Upper
85 100
87 32.5 26.1 39.1

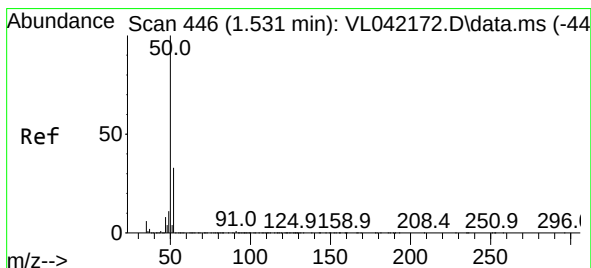
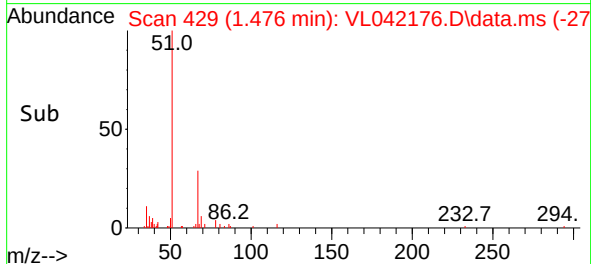
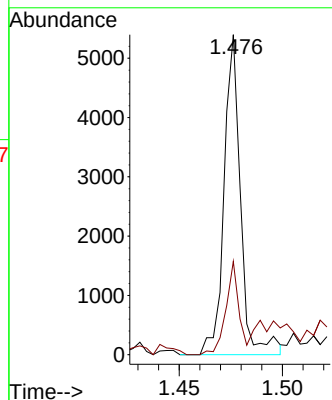
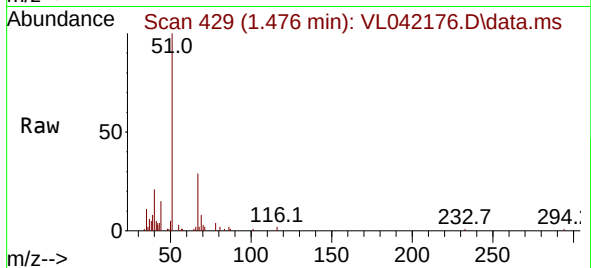




#3
Chlorodifluoromethane
Concen: 0.110 ppbv
RT: 1.476 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

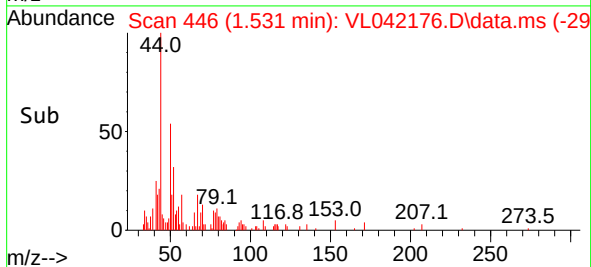
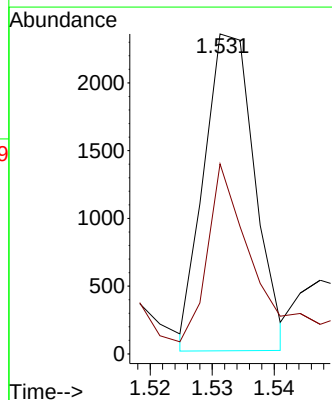
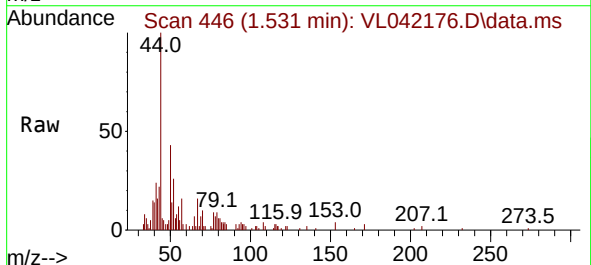
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

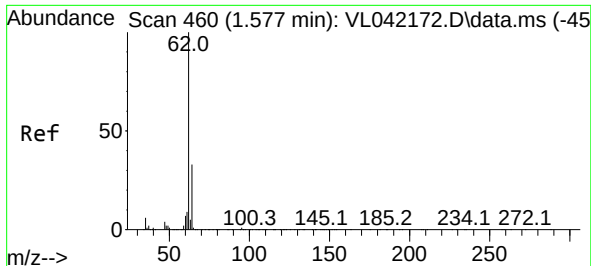
Tgt Ion: 51 Resp: 3006
Ion Ratio Lower Upper
51 100
67 45.8 15.0 22.6#



#4
Chloromethane
Concen: 0.122 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion: 50 Resp: 1330
Ion Ratio Lower Upper
50 100
52 59.3 26.1 39.1#

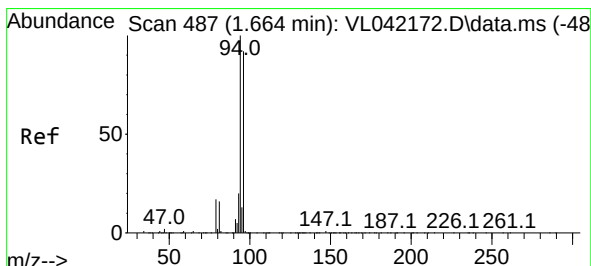
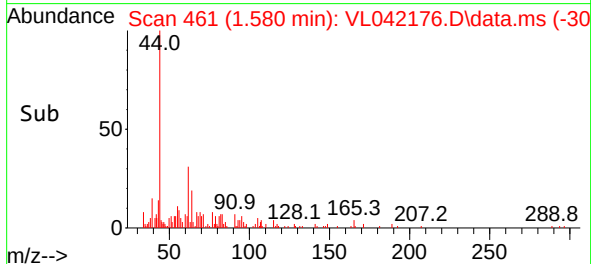
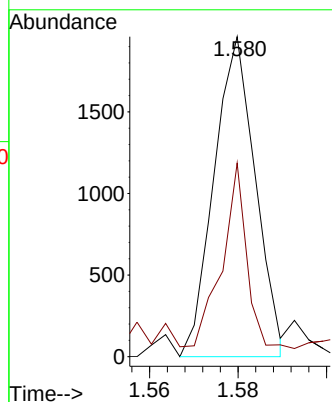
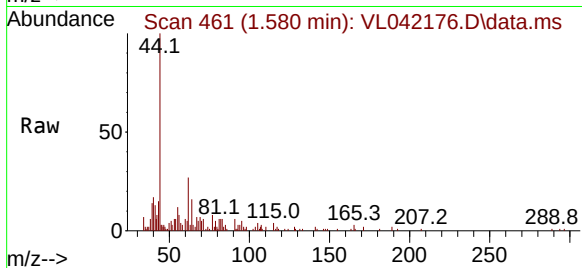




#5
Vinyl Chloride
Concen: 0.115 ppbv
RT: 1.580 min Scan# 461
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

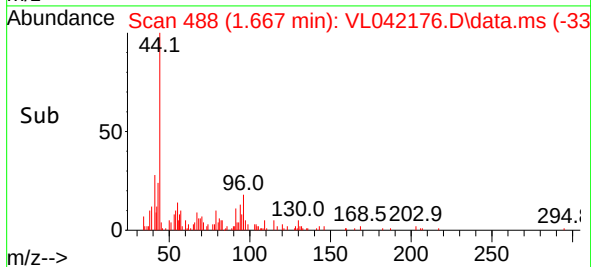
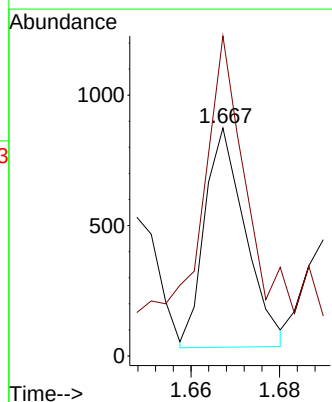
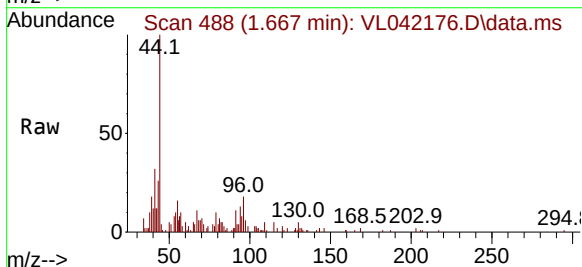
Instrument :
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ClientSampleId :
VSTDIC0.1

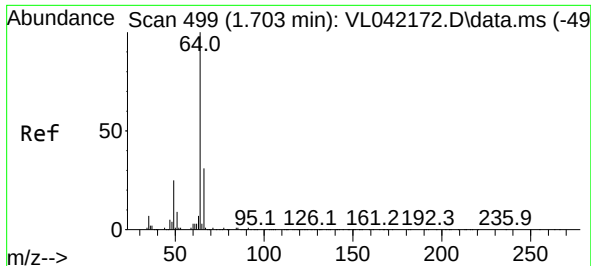
Tgt Ion: 62 Resp: 1274
Ion Ratio Lower Upper
62 100
64 66.4 26.6 40.0#



#6
Bromomethane
Concen: 0.109 ppbv
RT: 1.667 min Scan# 488
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion: 94 Resp: 537
Ion Ratio Lower Upper
94 100
96 116.6 73.1 109.7#

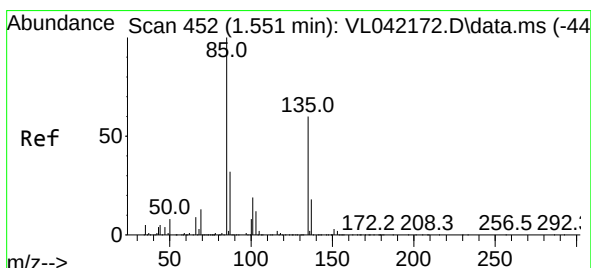
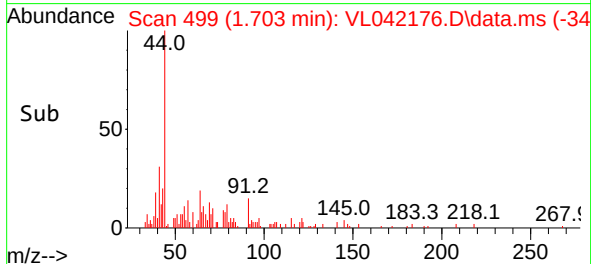
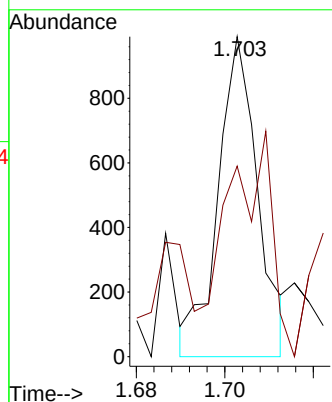
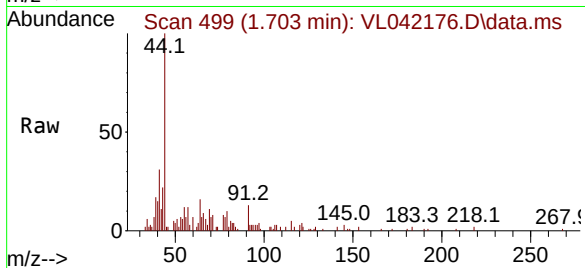




#7
Chloroethane
Concen: 0.141 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

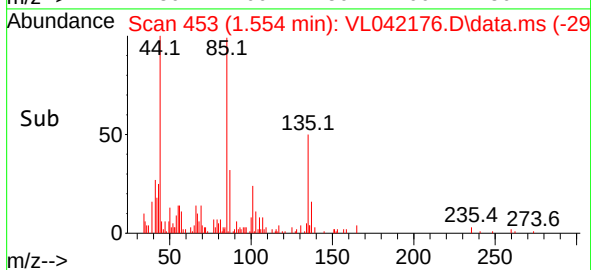
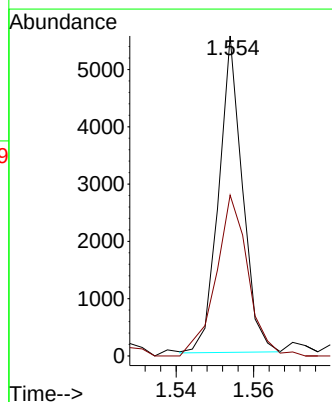
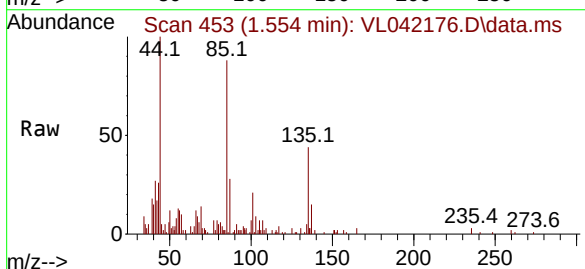
Instrument :
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ClientSampleId :
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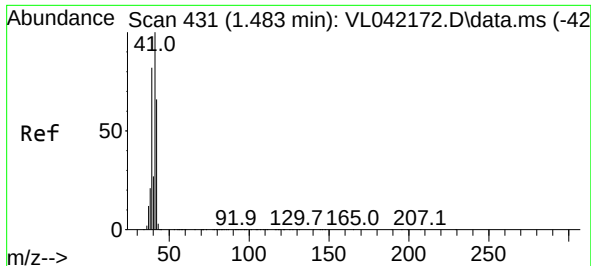
Tgt Ion: 64 Resp: 616
Ion Ratio Lower Upper
64 100
66 59.5 25.2 37.8#



#8
Dichlorotetrafluoroethane
Concen: 0.104 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion: 85 Resp: 2353
Ion Ratio Lower Upper
85 100
135 71.7 52.4 78.6





#9

Propene

Concen: 0.135 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042176.D

Acq: 27 Mar 2025 10:32

Instrument :

MSVOA_1

ClientSampleId :

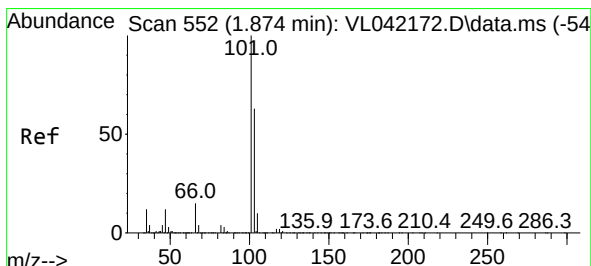
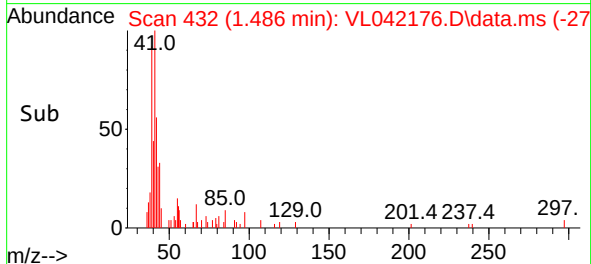
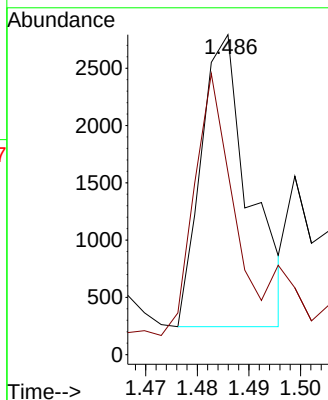
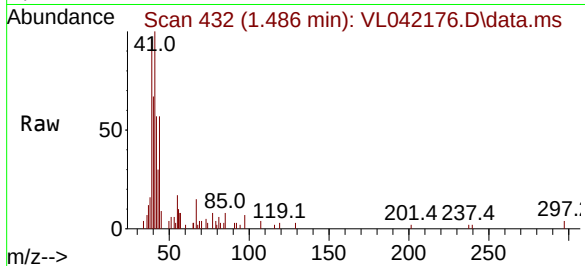
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Tgt Ion: 41 Resp: 1664

Ion Ratio Lower Upper

41 100

42 115.3 55.4 83.2#



#11

Trichlorofluoromethane

Concen: 0.102 ppbv

RT: 1.878 min Scan# 553

Delta R.T. 0.003 min

Lab File: VL042176.D

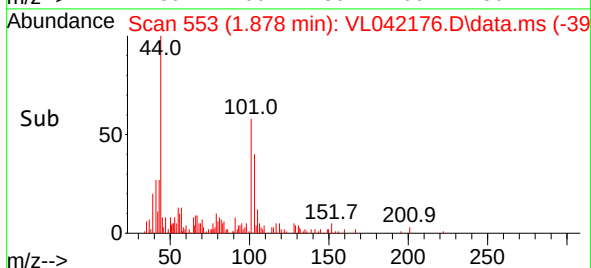
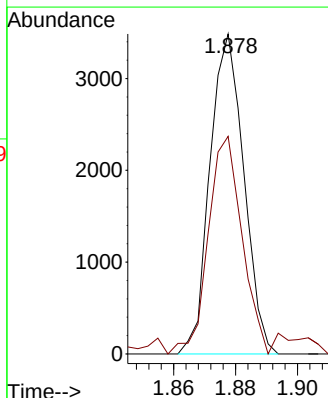
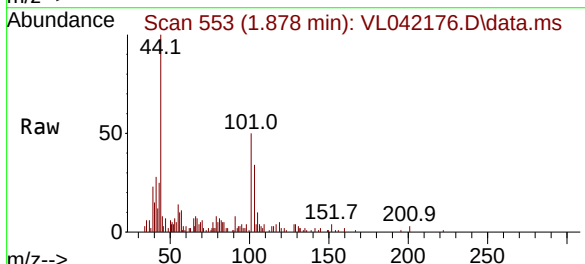
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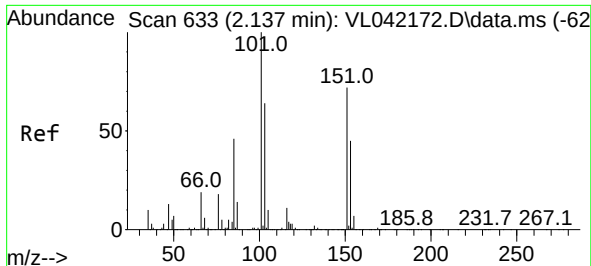
Tgt Ion:101 Resp: 2644

Ion Ratio Lower Upper

101 100

103 64.7 50.2 75.2

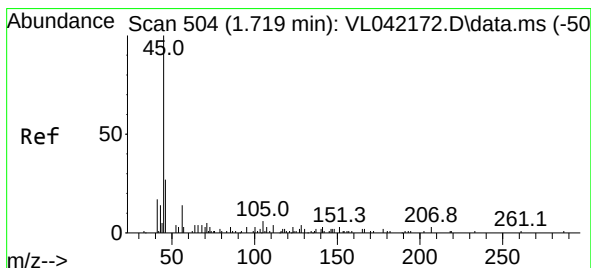
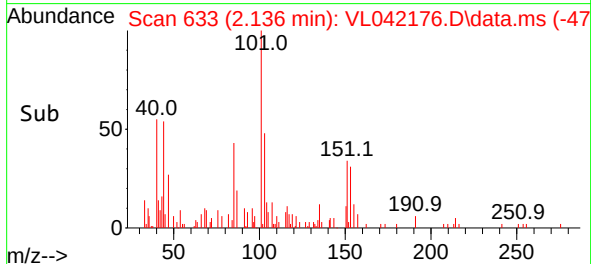
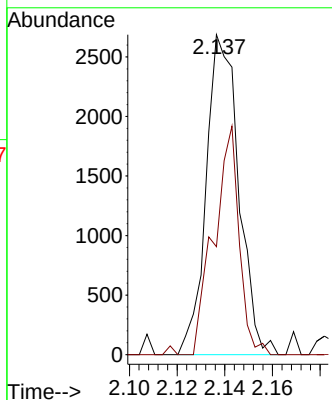
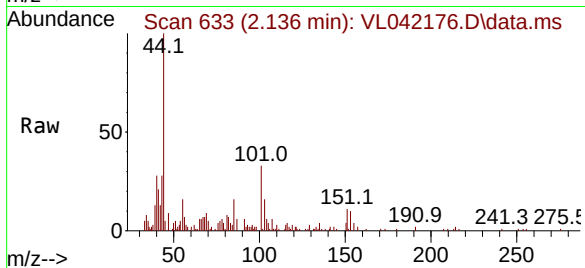




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.120 ppbv
RT: 2.136 min Scan# 611
Delta R.T. -0.000 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

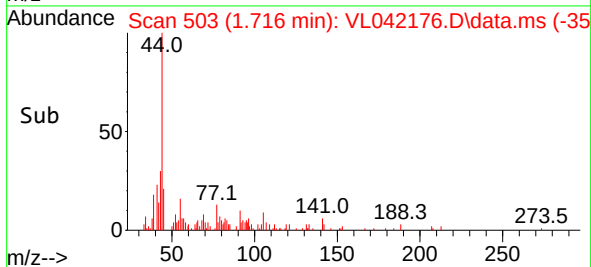
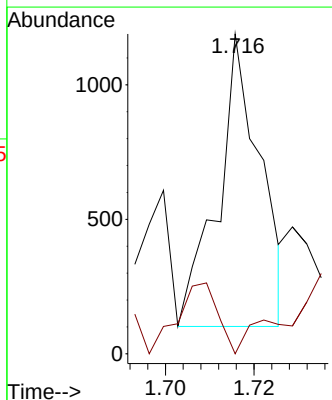
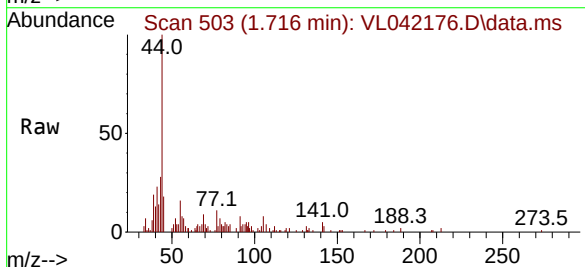
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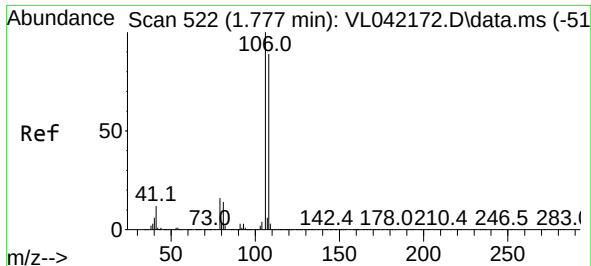
Tgt Ion:101 Resp: 2551
Ion Ratio Lower Upper
101 100
151 55.7 57.1 85.7#



#13
Ethanol
Concen: 0.750 ppbv
RT: 1.716 min Scan# 503
Delta R.T. -0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion: 45 Resp: 721
Ion Ratio Lower Upper
45 100
46 22.9 20.2 80.8

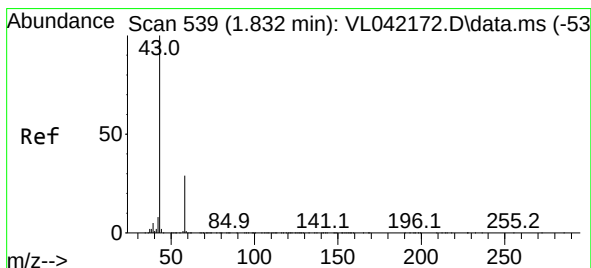
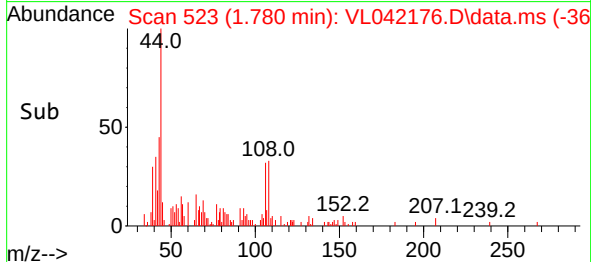
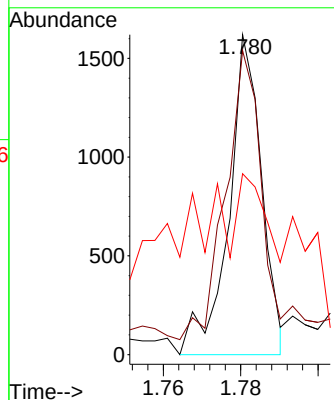
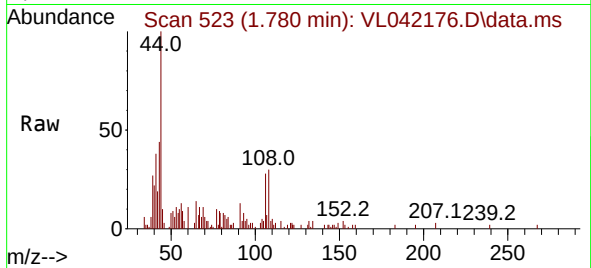




#14
Bromoethene
Concen: 0.117 ppbv
RT: 1.780 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

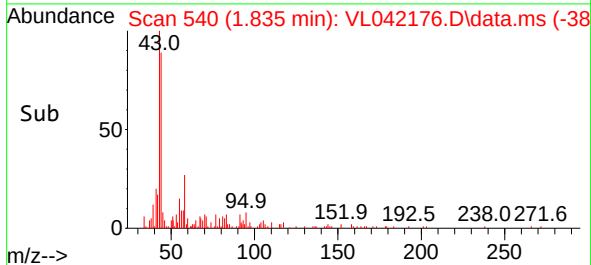
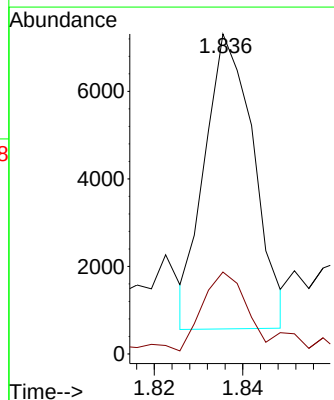
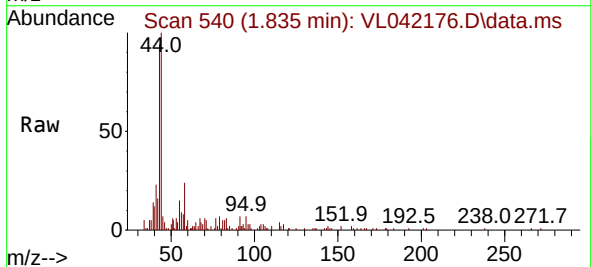
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

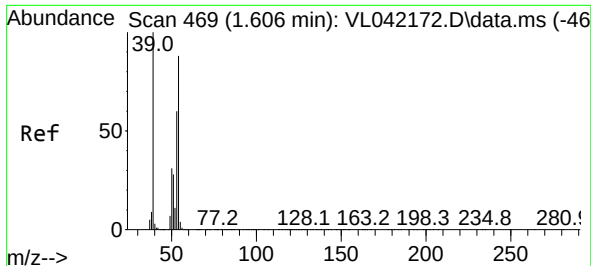
Tgt Ion:108 Resp: 956
Ion Ratio Lower Upper
108 100
106 177.0 86.8 130.2#
79 120.6 15.0 22.6#



#15
Acetone
Concen: 0.205 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion: 43 Resp: 5179
Ion Ratio Lower Upper
43 100
58 33.1 23.2 34.8

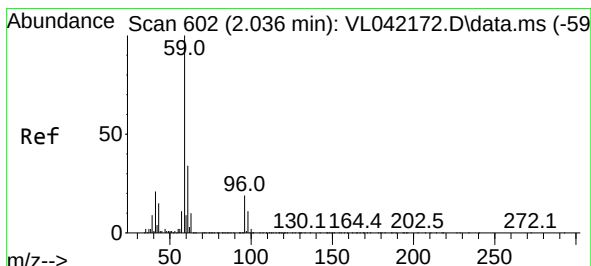
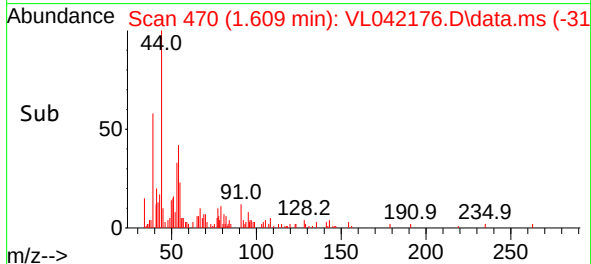
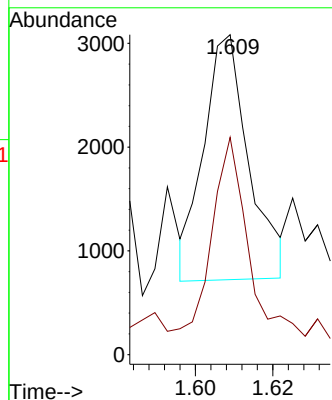
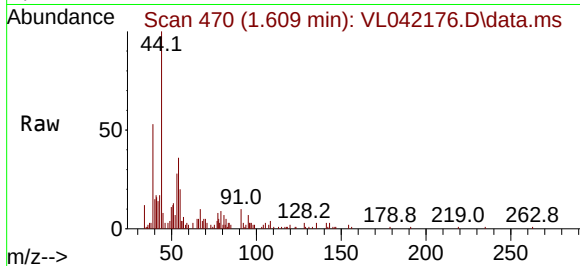




#16
1,3-Butadiene
Concen: 0.168 ppbv
RT: 1.609 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

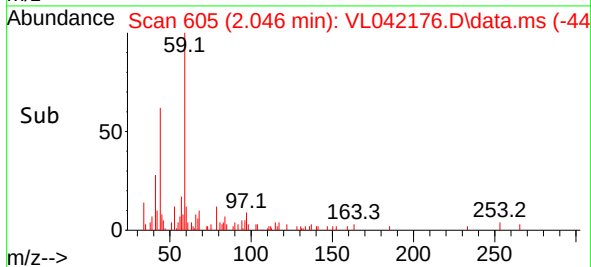
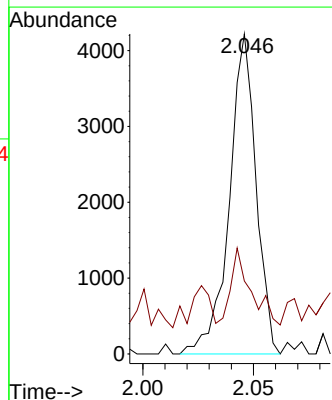
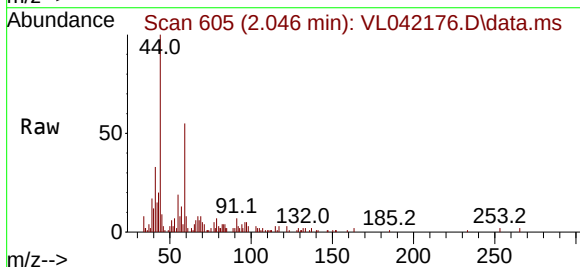
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

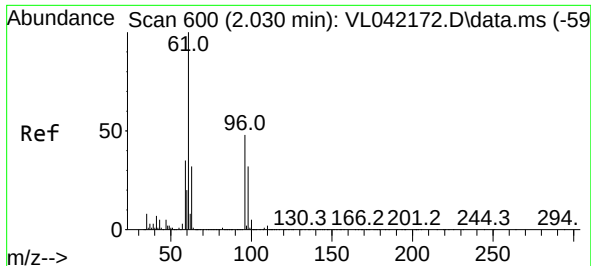
Tgt Ion: 39 Resp: 1912
Ion Ratio Lower Upper
39 100
54 70.7 60.7 91.1



#17
tert-Butyl alcohol
Concen: 0.113 ppbv
RT: 2.046 min Scan# 605
Delta R.T. 0.010 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion: 59 Resp: 3546
Ion Ratio Lower Upper
59 100
57 37.8 8.9 13.3#

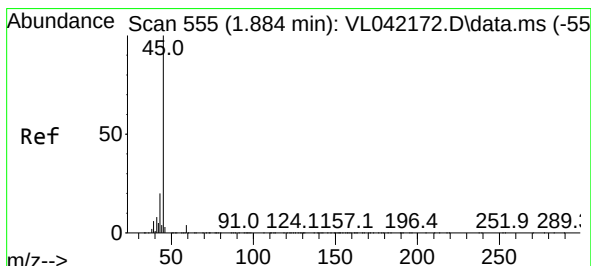
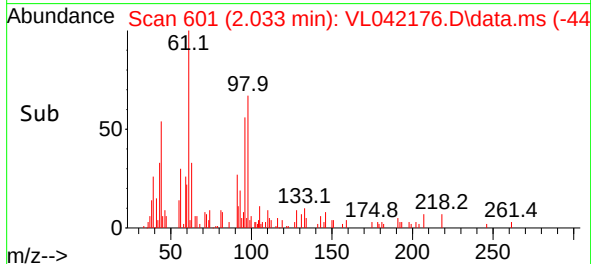
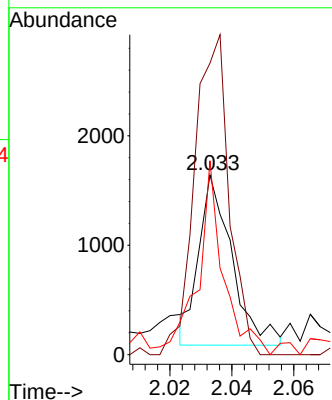
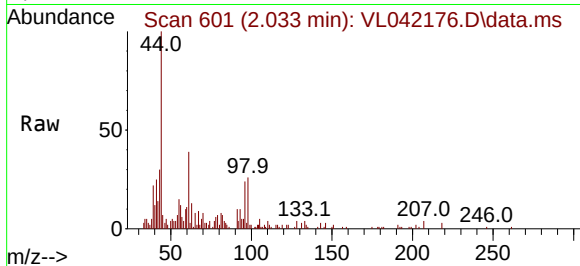




#18
1,1-Dichloroethene
Concen: 0.116 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

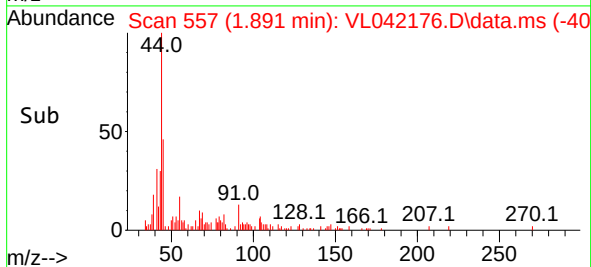
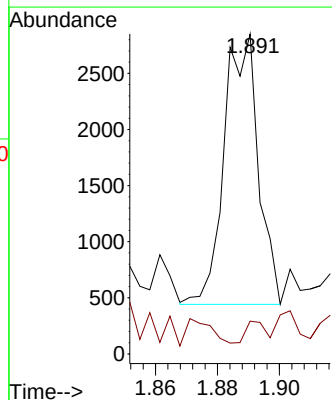
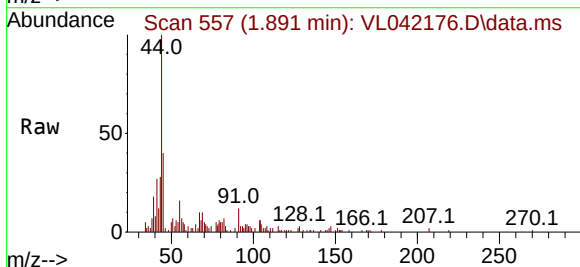
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

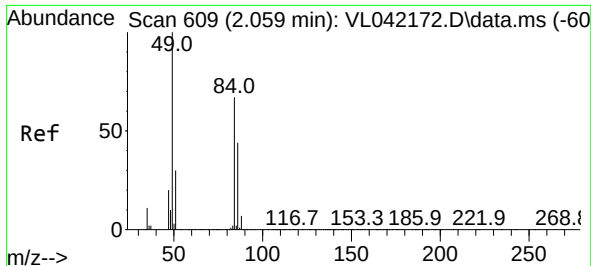
Tgt Ion: 96 Resp: 1155
Ion Ratio Lower Upper
96 100
61 179.9 167.6 251.4
98 112.6 53.5 80.3#



#19
Isopropyl Alcohol
Concen: 0.129 ppbv
RT: 1.891 min Scan# 557
Delta R.T. 0.006 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion: 45 Resp: 1838
Ion Ratio Lower Upper
45 100
58 12.5 36.9 55.3#

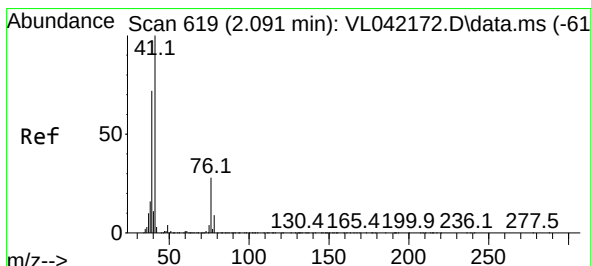
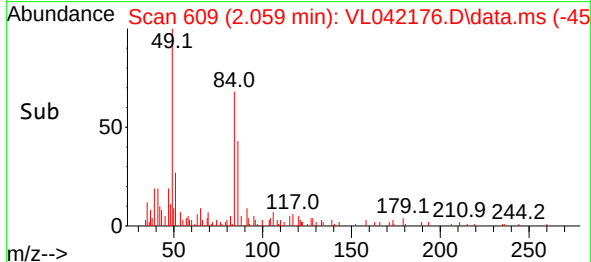
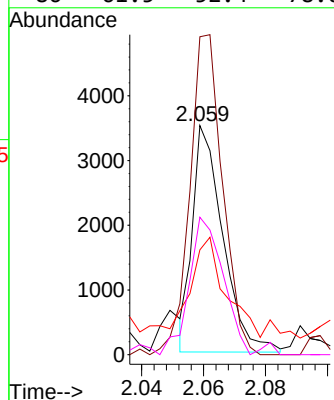
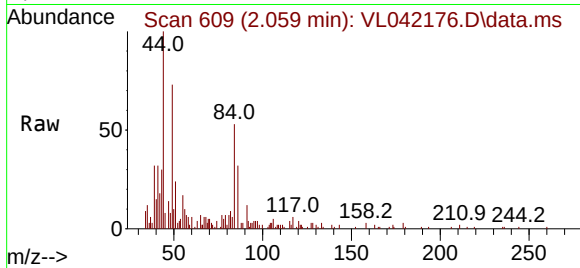




#20
Methylene Chloride
Concen: 0.254 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

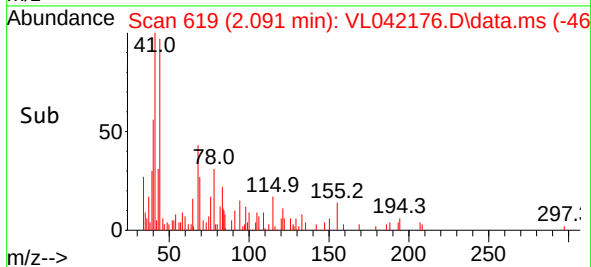
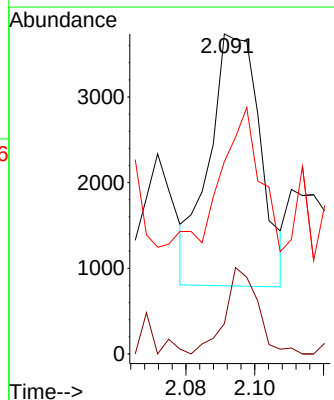
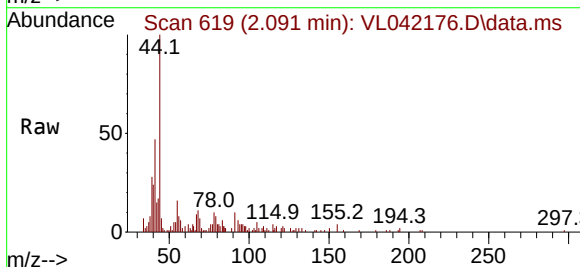
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

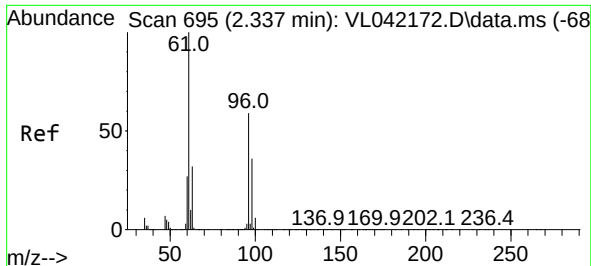
Tgt Ion:	84	Resp:	2388
Ion	Ratio	Lower	Upper
84	100		
49	132.5	120.2	180.4
51	37.3	37.4	56.0#
86	61.5	52.4	78.6



#21
Allyl Chloride
Concen: 0.171 ppbv
RT: 2.091 min Scan# 619
Delta R.T. -0.000 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion:	41	Resp:	3040
Ion	Ratio	Lower	Upper
41	100		
76	21.8	24.1	36.1#
39	98.7	61.1	91.7#

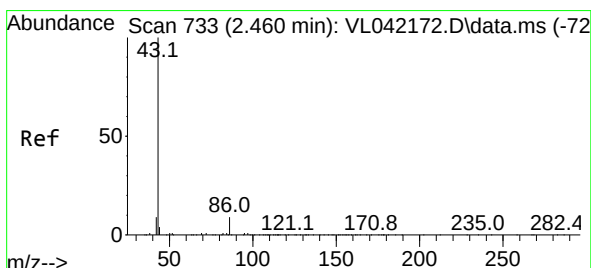
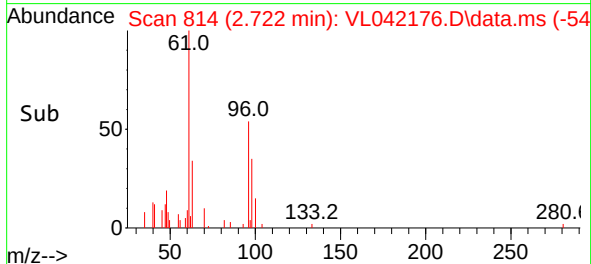
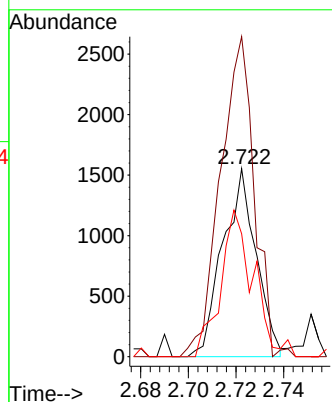
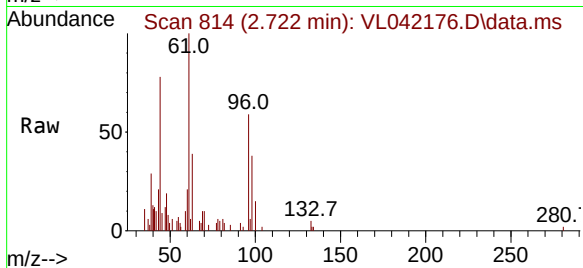




#22
trans-1,2-Dichloroethene
Concen: 0.130 ppbv
RT: 2.722 min Scan# 814
Delta R.T. 0.385 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

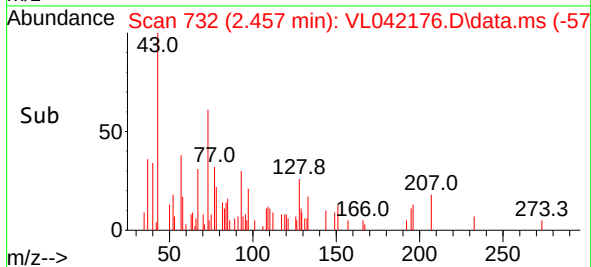
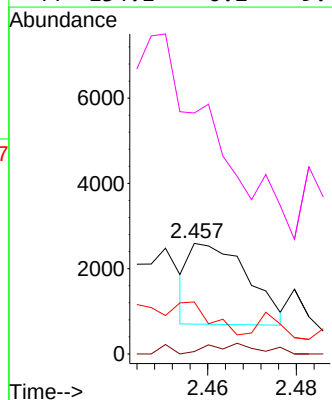
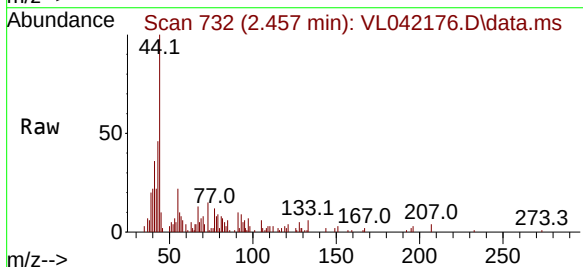
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

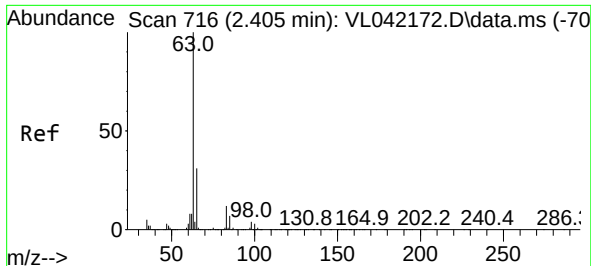
Tgt Ion: 96 Resp: 1512
Ion Ratio Lower Upper
96 100
61 170.3 136.6 204.8
98 65.4 49.4 74.2



#23
Vinyl Acetate
Concen: 0.166 ppbv
RT: 2.457 min Scan# 732
Delta R.T. -0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion: 43 Resp: 1746
Ion Ratio Lower Upper
43 100
86 3.5 5.5 8.3#
42 32.0 8.6 13.0#
44 134.1 6.2 9.4#

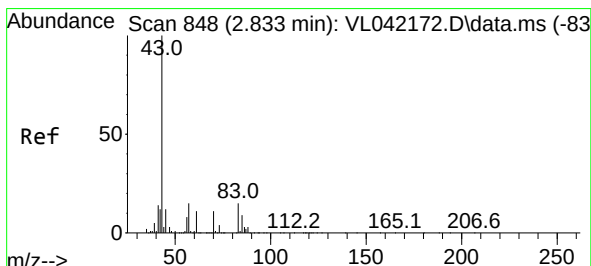
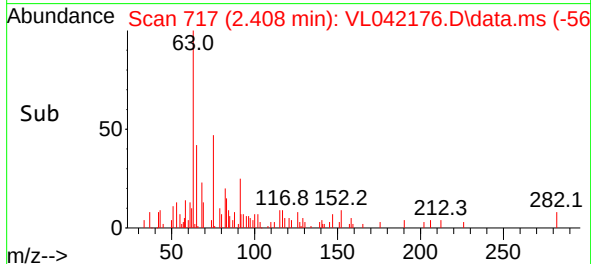
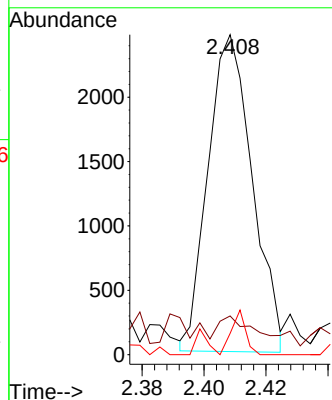
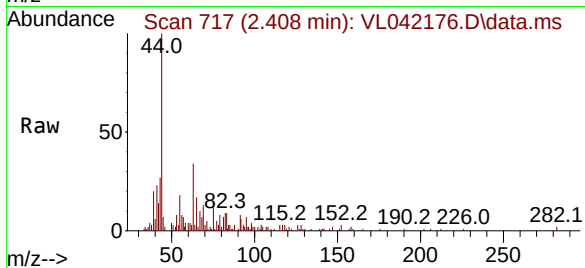




#24
1,1-Dichloroethane
Concen: 0.114 ppbv
RT: 2.408 min Scan# 716
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

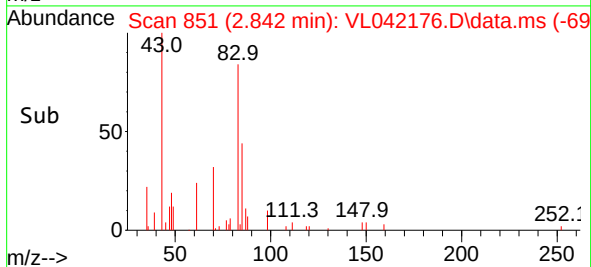
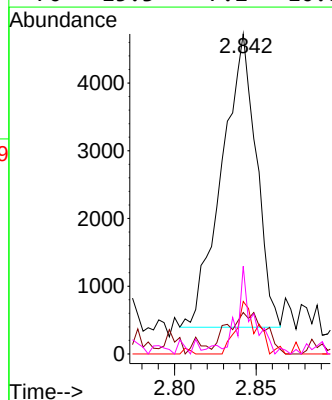
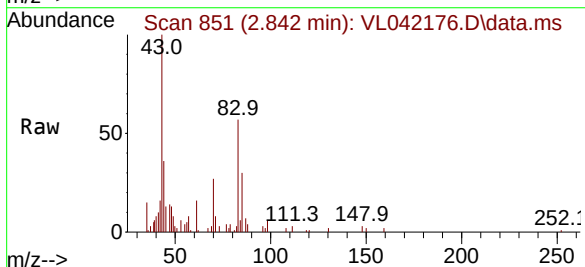
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

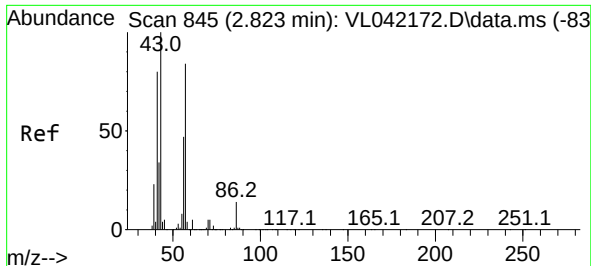
Tgt Ion:	63	Resp:	2446
Ion Ratio	Lower	Upper	
63	100		
98	6.3	2.3	6.8
100	6.9	1.6	4.7#



#25
Ethyl Acetate
Concen: 0.097 ppbv
RT: 2.842 min Scan# 851
Delta R.T. 0.010 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion:	43	Resp:	6359
Ion Ratio	Lower	Upper	
43	100		
45	22.8	8.2	12.2#
61	11.2	7.3	10.9#
70	15.3	7.2	10.8#

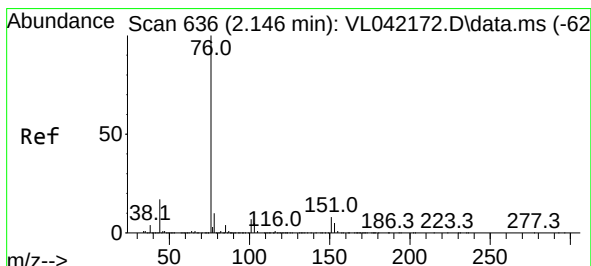
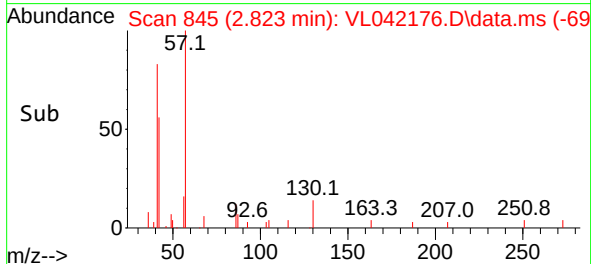
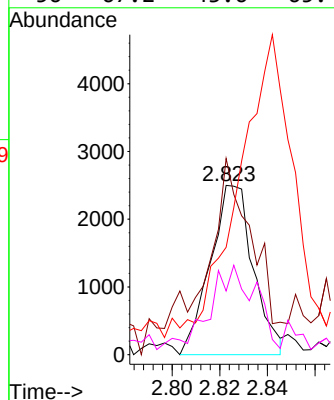
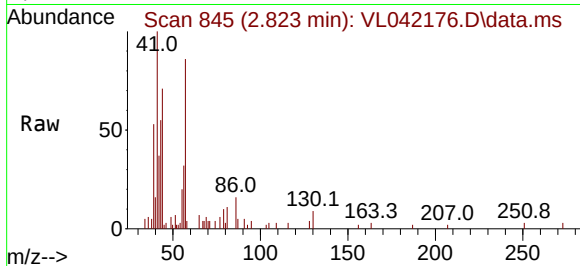




#26
Hexane
Concen: 0.123 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.000 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

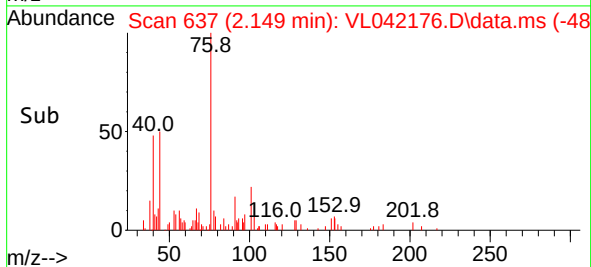
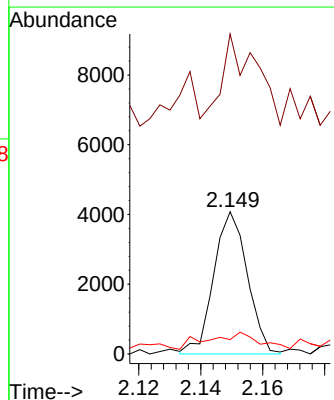
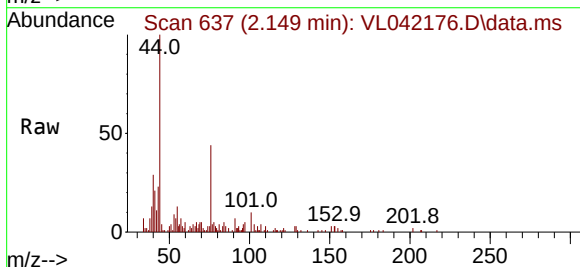
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

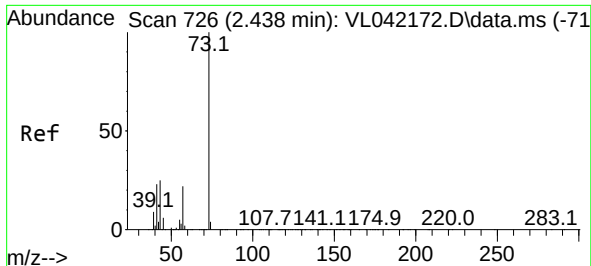
Tgt Ion:	57	Resp:	3126
Ion Ratio	Lower	Upper	
57	100		
41	96.0	76.6	114.8
43	0.0	207.8	311.8#
56	67.2	43.6	65.4#



#27
Carbon Disulfide
Concen: 0.113 ppbv
RT: 2.149 min Scan# 637
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion:	76	Resp:	3075
Ion Ratio	Lower	Upper	
76	100		
44	436.3	14.7	22.1#
78	28.7	9.3	13.9#

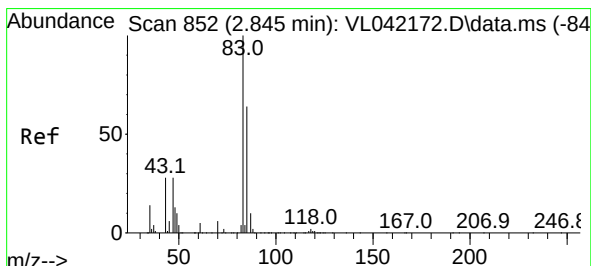
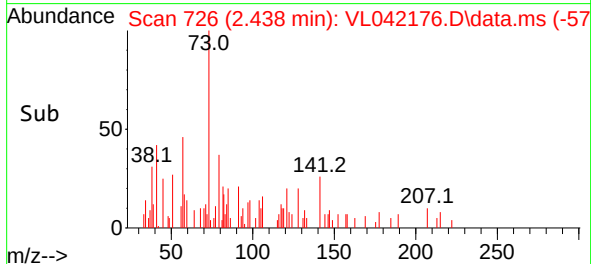
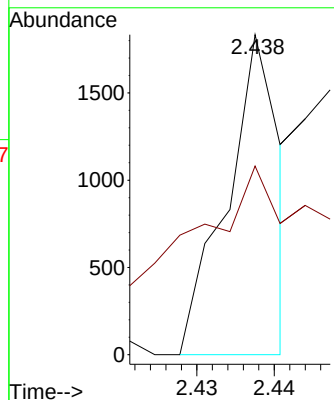
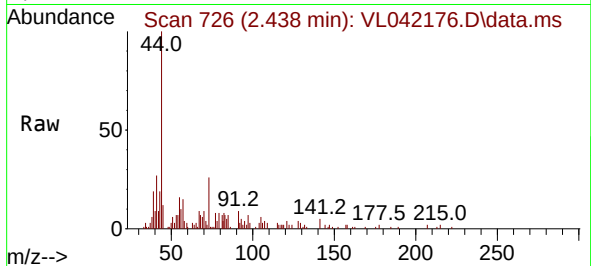




#28
Methyl tert-Butyl Ether
Concen: 0.055 ppbv
RT: 2.438 min Scan# 71
Delta R.T. -0.000 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

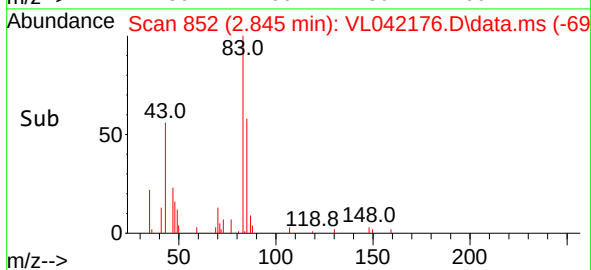
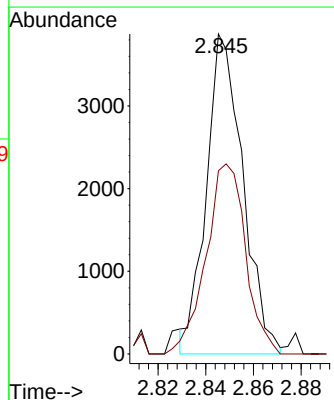
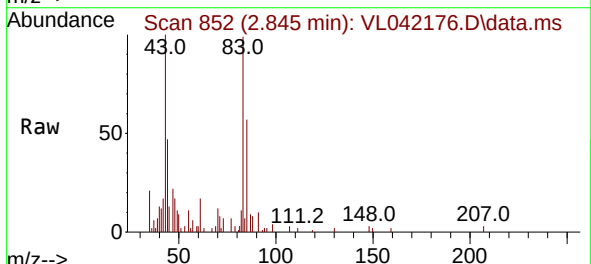
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

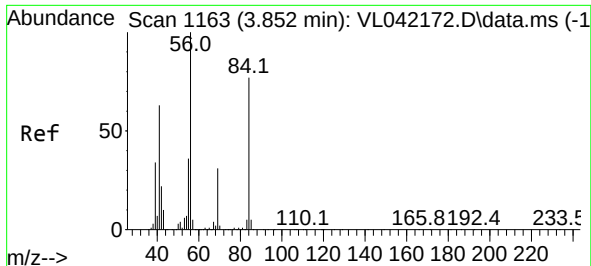
Tgt Ion: 73 Resp: 875
Ion Ratio Lower Upper
73 100
57 0.0 20.5 30.7#



#29
Chloroform
Concen: 0.111 ppbv
RT: 2.845 min Scan# 852
Delta R.T. -0.000 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion: 83 Resp: 4120
Ion Ratio Lower Upper
83 100
85 58.4 51.4 77.2

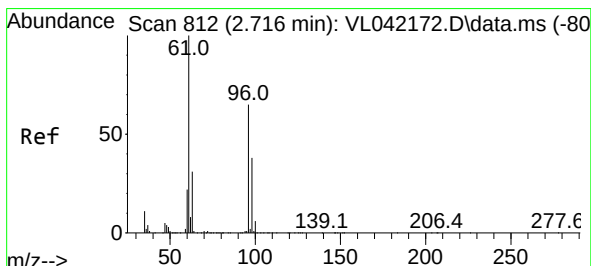
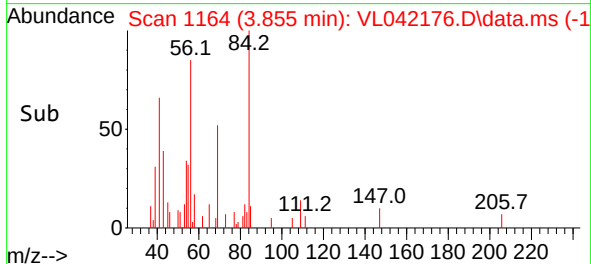
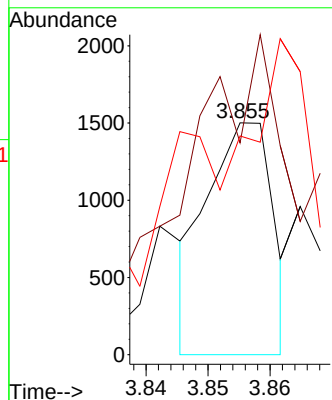
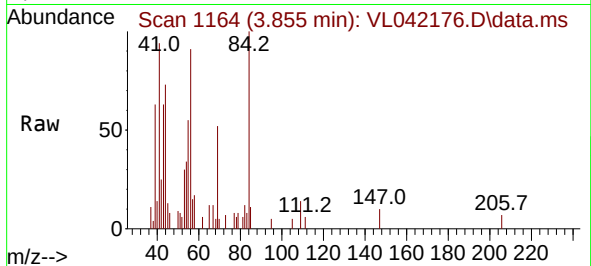




#30
Cyclohexane
Concen: 0.051 ppbv
RT: 3.855 min Scan# 1163
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

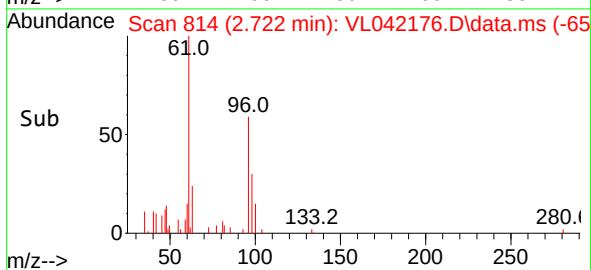
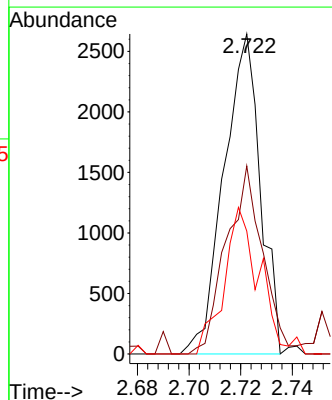
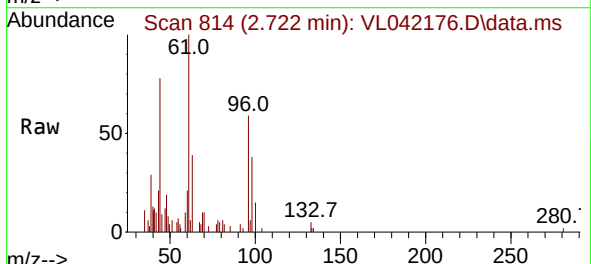
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

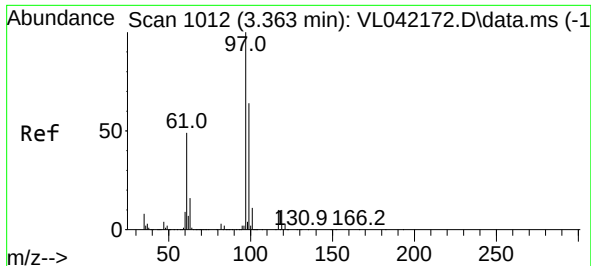
Tgt Ion: 84 Resp: 1113
Ion Ratio Lower Upper
84 100
56 0.0 102.8 154.2#
41 0.0 66.5 99.7#



#31
cis-1,2-Dichloroethene
Concen: 0.101 ppbv
RT: 2.722 min Scan# 814
Delta R.T. 0.006 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion: 61 Resp: 2587
Ion Ratio Lower Upper
61 100
96 58.7 51.8 77.8
98 38.4 30.6 46.0

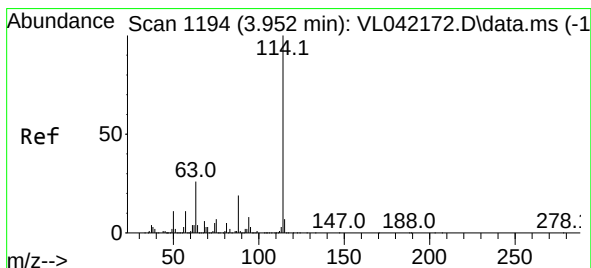
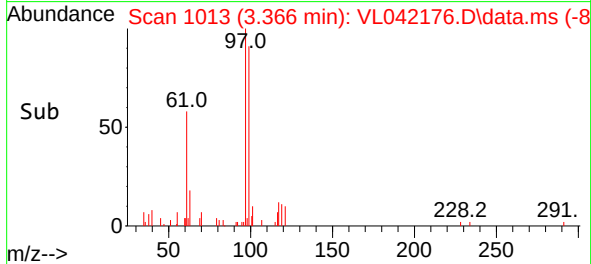
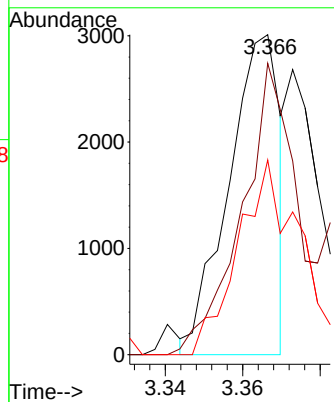
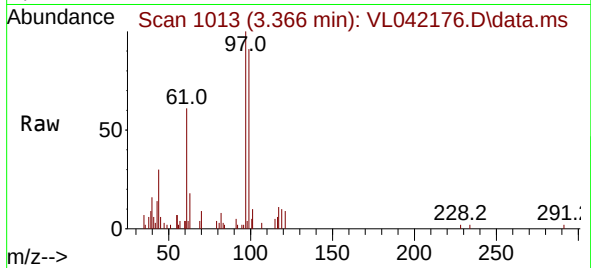




#32
 1,1,1-Trichloroethane
 Concen: 0.065 ppbv
 RT: 3.366 min Scan# 1012
 Delta R.T. 0.003 min
 Lab File: VL042176.D
 Acq: 27 Mar 2025 10:32

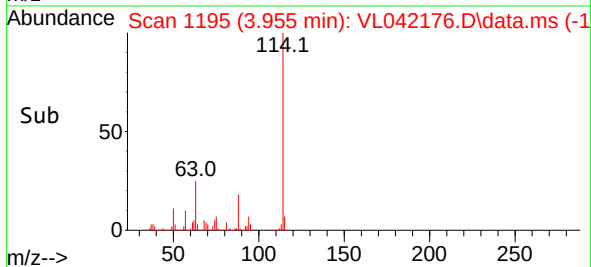
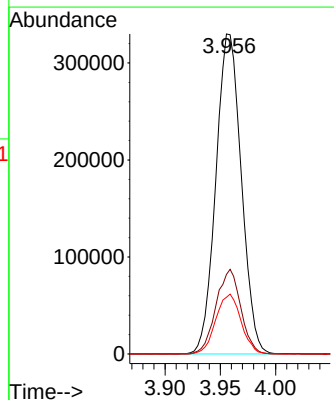
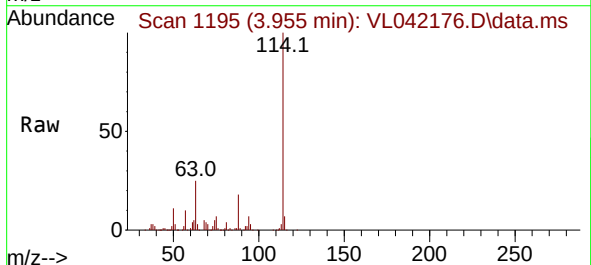
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

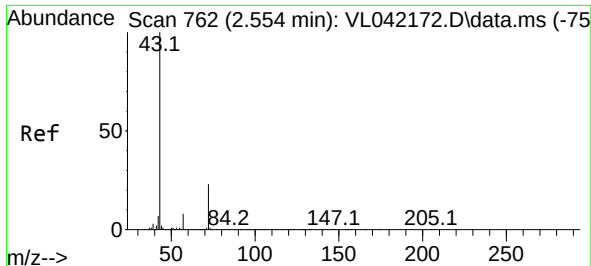
Tgt Ion: 97 Resp: 2773
 Ion Ratio Lower Upper
 97 100
 99 111.5 51.5 77.3#
 61 73.8 38.7 58.1#



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.955 min Scan# 1195
 Delta R.T. 0.003 min
 Lab File: VL042176.D
 Acq: 27 Mar 2025 10:32

Tgt Ion: 114 Resp: 528028
 Ion Ratio Lower Upper
 114 100
 63 25.8 20.7 31.1
 88 18.5 15.0 22.4

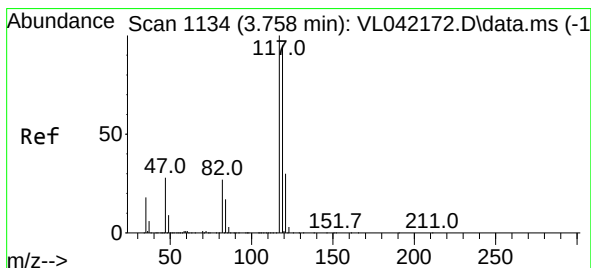
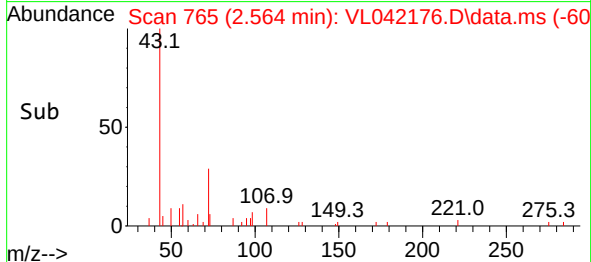
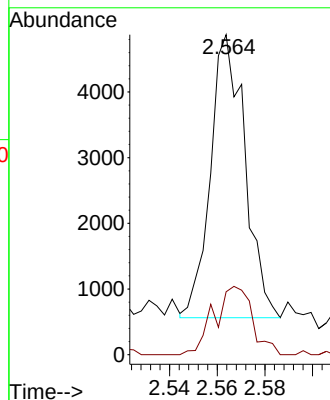
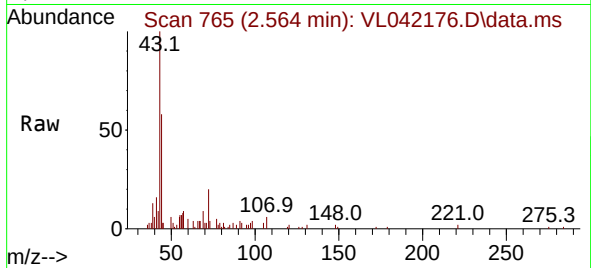




#34
2-Butanone
Concen: 0.113 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.010 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

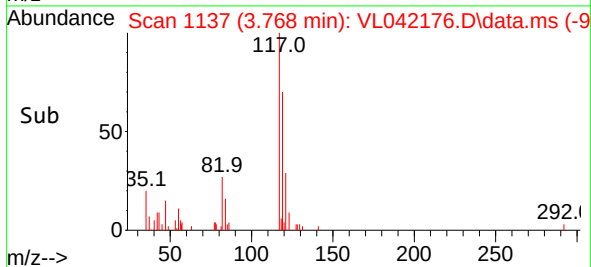
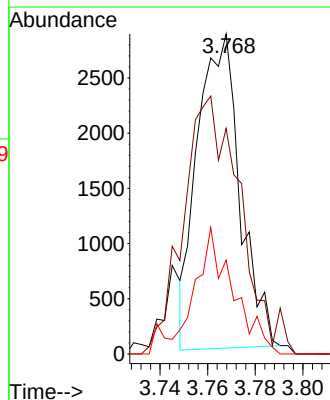
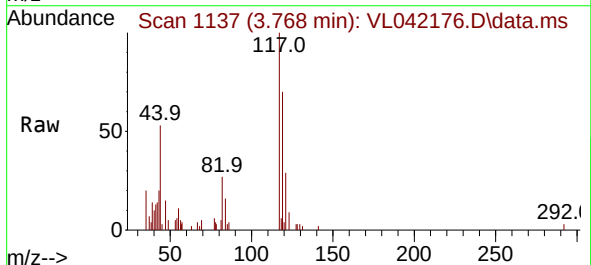
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

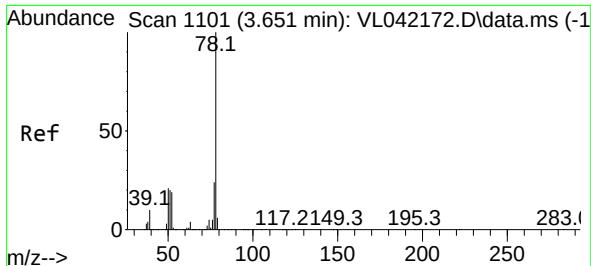
Tgt Ion: 43 Resp: 4331
Ion Ratio Lower Upper
43 100
72 27.0 18.2 27.2



#35
Carbon Tetrachloride
Concen: 0.087 ppbv
RT: 3.768 min Scan# 1137
Delta R.T. 0.010 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion: 117 Resp: 3523
Ion Ratio Lower Upper
117 100
119 57.7 76.2 114.2#
121 30.1 24.2 36.4

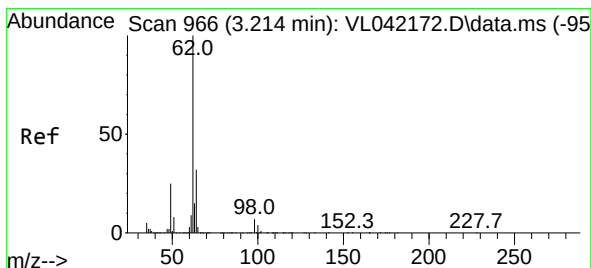
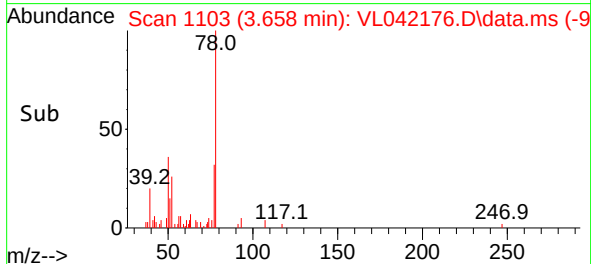
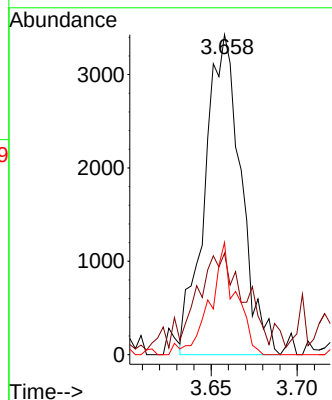
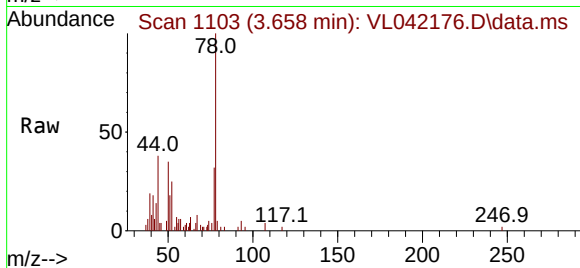




#36
Benzene
Concen: 0.096 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. 0.006 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

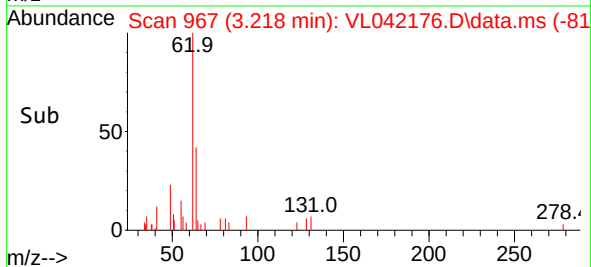
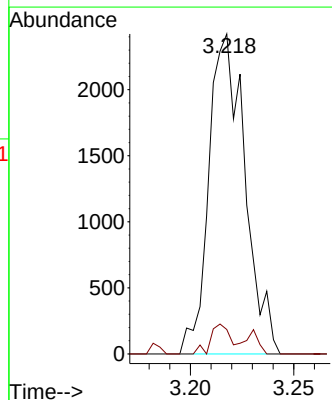
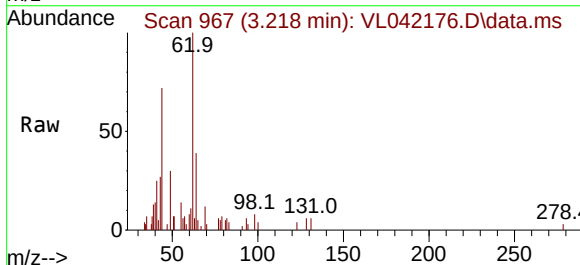
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

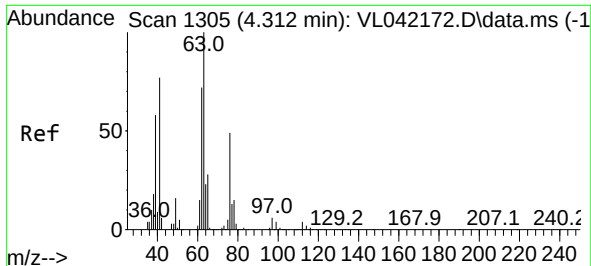
Tgt Ion: 78 Resp: 5031
Ion Ratio Lower Upper
78 100
77 27.2 19.1 28.7
50 35.0 16.6 24.8#



#37
1,2-Dichloroethane
Concen: 0.098 ppbv
RT: 3.218 min Scan# 967
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion: 62 Resp: 2942
Ion Ratio Lower Upper
62 100
98 7.7 5.4 8.2





#39

1,2-Dichloropropane

Concen: 7.123 ppbv

RT: 3.959 min Scan# 1196

Delta R.T. -0.353 min

Lab File: VL042176.D

Acq: 27 Mar 2025 10:32

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

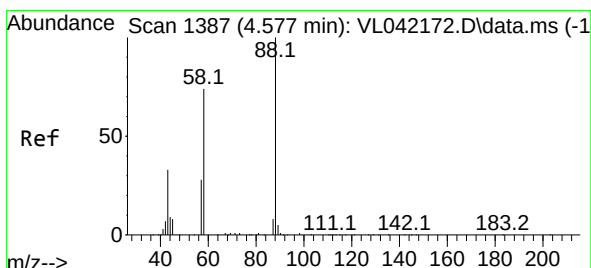
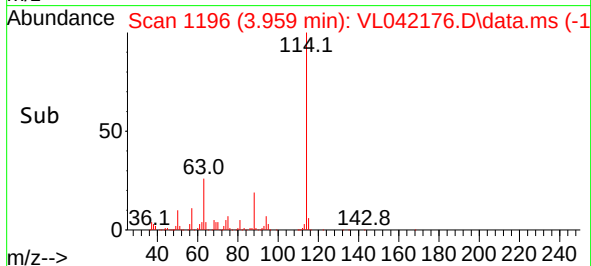
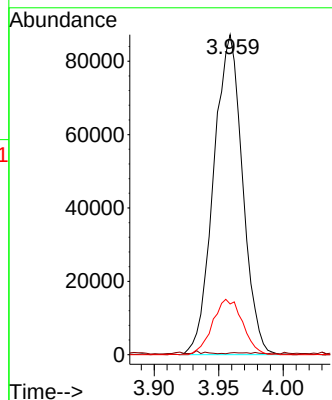
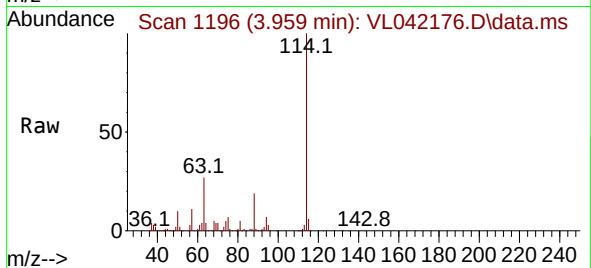
Tgt Ion: 63 Resp: 135792

Ion Ratio Lower Upper

63 100

41 0.3 61.7 92.5#

62 15.9 57.6 86.4#



#40

1,4-Dioxane

Concen: 0.085 ppbv

RT: 4.616 min Scan# 1399

Delta R.T. 0.039 min

Lab File: VL042176.D

Acq: 27 Mar 2025 10:32

Tgt Ion: 88 Resp: 843

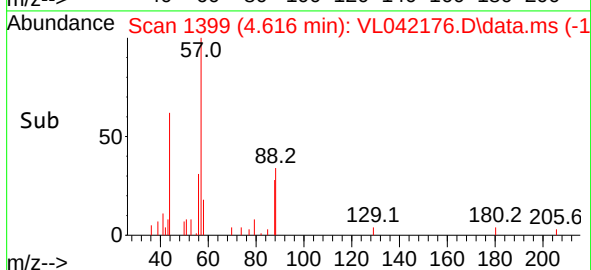
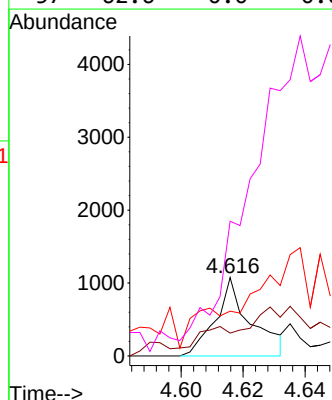
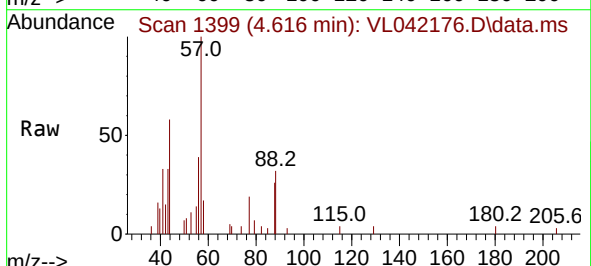
Ion Ratio Lower Upper

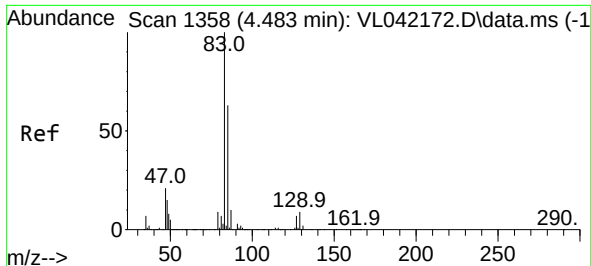
88 100

58 0.0 62.7 94.1#

43 47.9 23.0 34.4#

57 62.6 0.0 0.0#

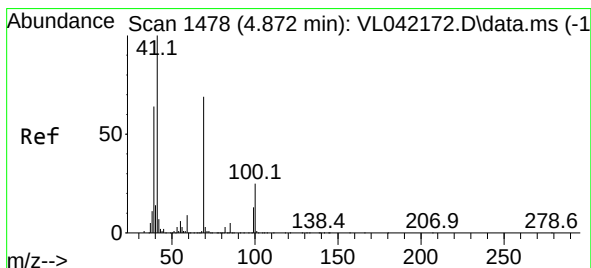
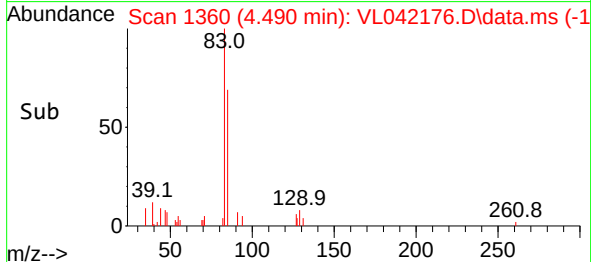
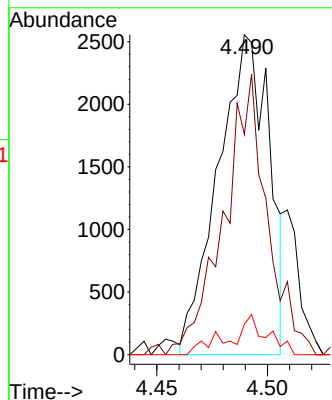
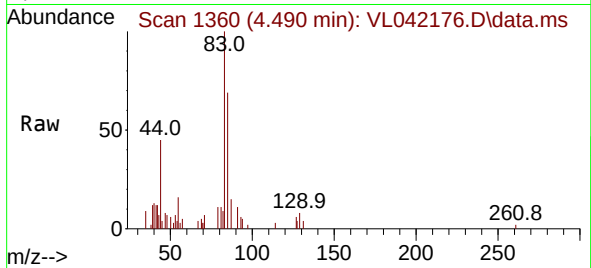




#42
Bromodichloromethane
Concen: 0.099 ppbv
RT: 4.490 min Scan# 11
Delta R.T. 0.006 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

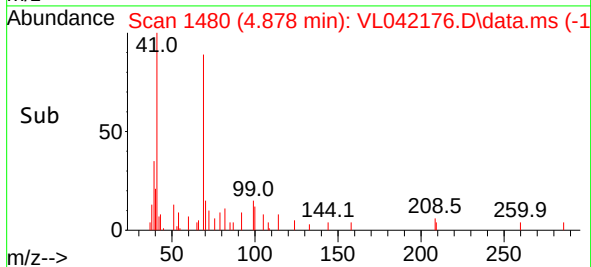
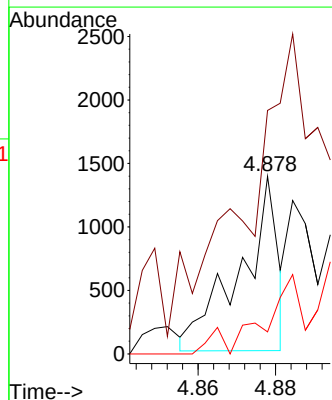
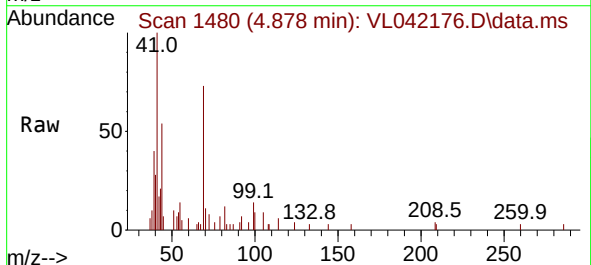
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

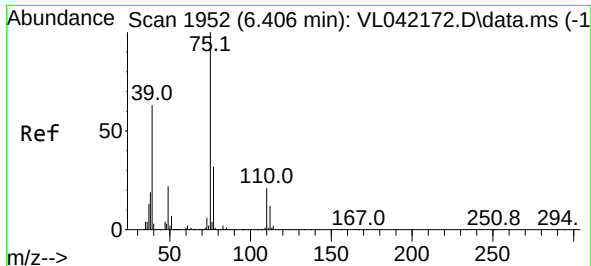
Tgt Ion: 83 Resp: 4103
Ion Ratio Lower Upper
83 100
85 67.5 50.5 75.7
127 9.8 5.9 8.9#



#43
Methyl Methacrylate
Concen: 0.042 ppbv
RT: 4.878 min Scan# 1480
Delta R.T. 0.006 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion: 69 Resp: 930
Ion Ratio Lower Upper
69 100
41 0.0 123.8 185.6#
100 0.0 28.4 42.6#





#45

t-1,3-Dichloropropene

Concen: 0.061 ppbv

RT: 6.419 min Scan# 1952

Delta R.T. 0.013 min

Lab File: VL042176.D

Acq: 27 Mar 2025 10:32

Instrument :

MSVOA_1

ClientSampleId :

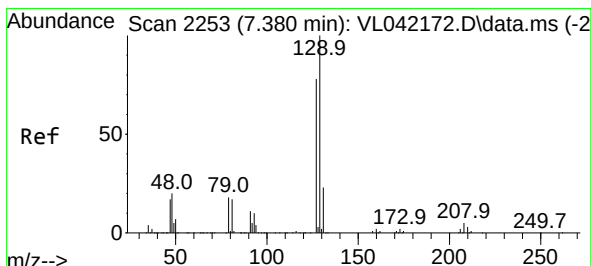
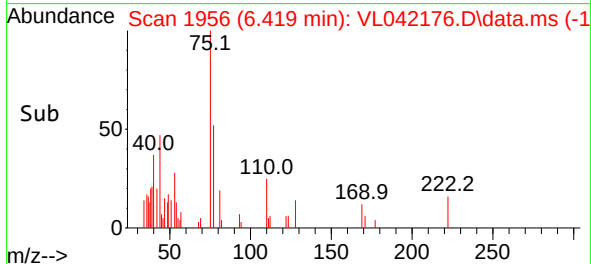
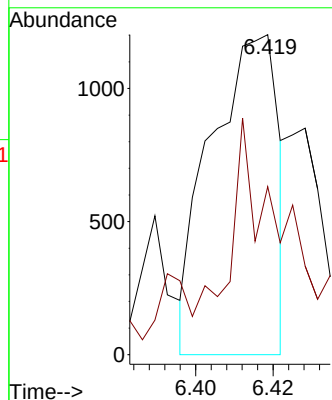
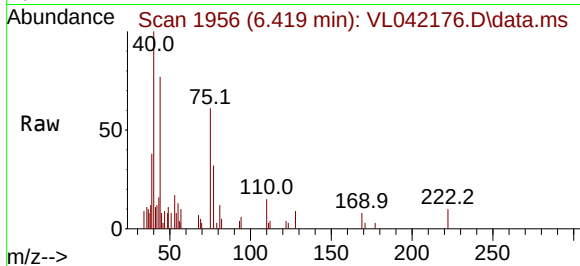
VSTDIC0.1

Tgt Ion: 75 Resp: 1449

Ion Ratio Lower Upper

75 100

77 52.5 26.0 39.0#



#48

Dibromochloromethane

Concen: 0.067 ppbv

RT: 7.383 min Scan# 2254

Delta R.T. 0.003 min

Lab File: VL042176.D

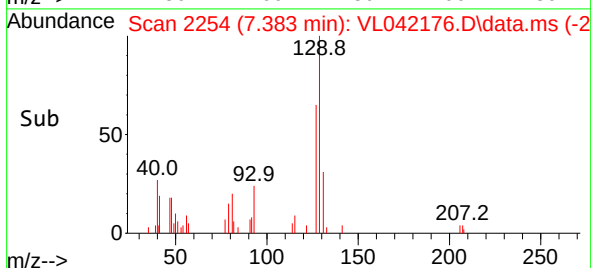
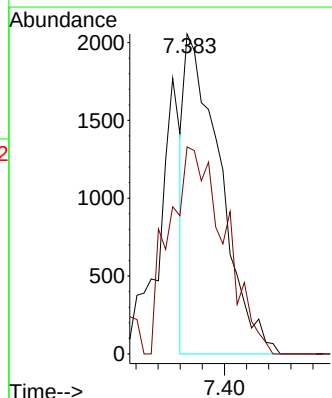
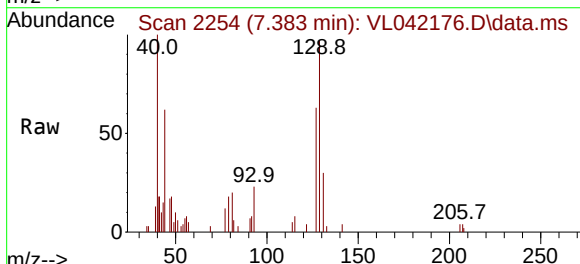
Acq: 27 Mar 2025 10:32

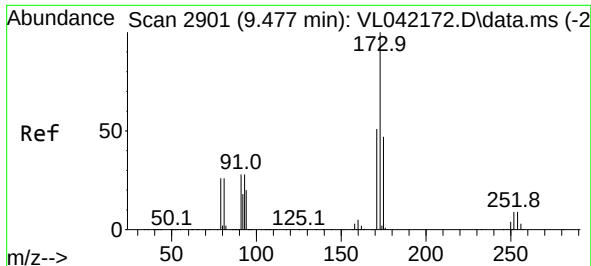
Tgt Ion: 129 Resp: 2284

Ion Ratio Lower Upper

129 100

127 106.0 39.1 117.2

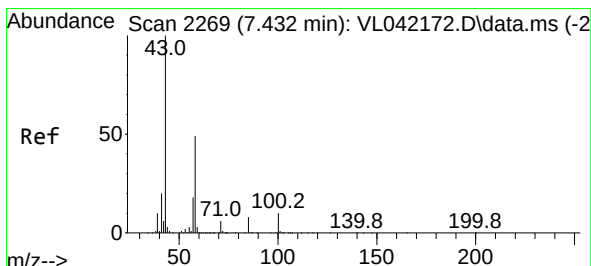
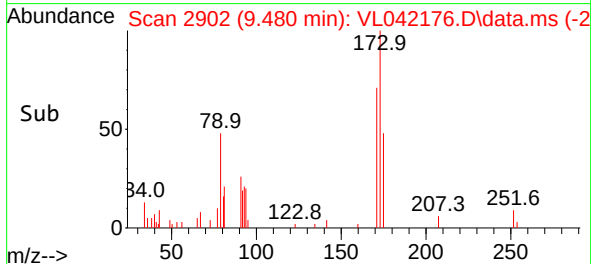
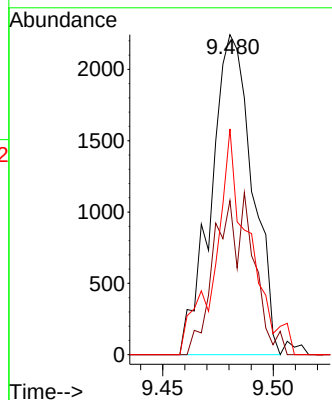
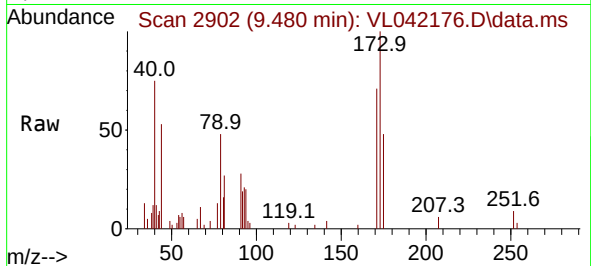




#49
Bromoform
Concen: 0.095 ppbv
RT: 9.480 min Scan# 2901
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

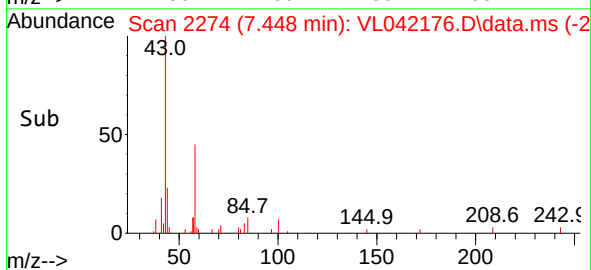
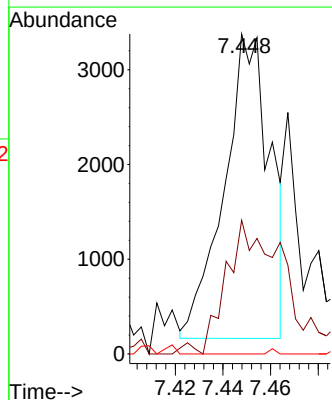
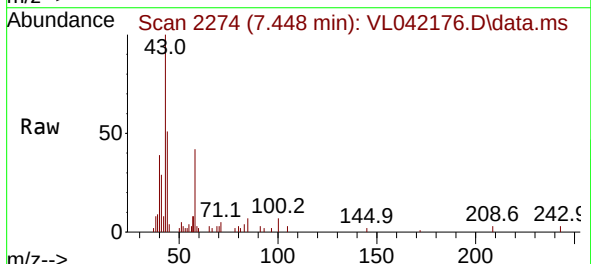
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

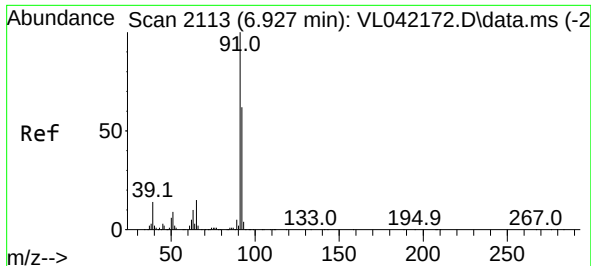
Tgt Ion:173 Resp: 2928
Ion Ratio Lower Upper
173 100
175 46.4 38.6 57.8
171 58.1 41.8 62.6



#51
2-Hexanone
Concen: 0.085 ppbv
RT: 7.448 min Scan# 2274
Delta R.T. 0.016 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion: 43 Resp: 4284
Ion Ratio Lower Upper
43 100
58 58.3 39.7 59.5
98 0.0 0.1 0.1#

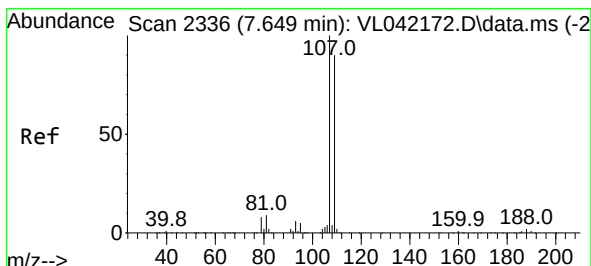
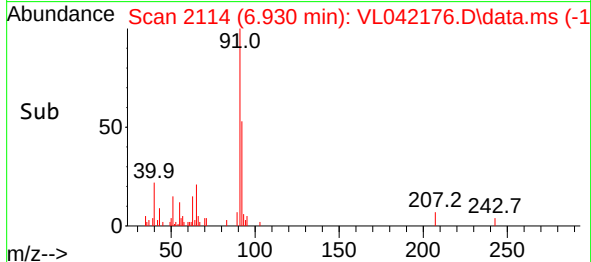
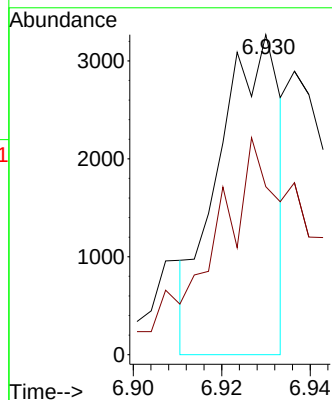
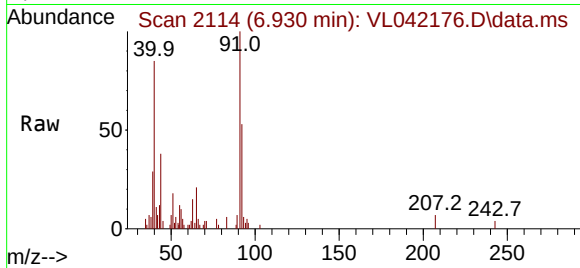




#53
Toluene
Concen: 0.051 ppbv
RT: 6.930 min Scan# 2114
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

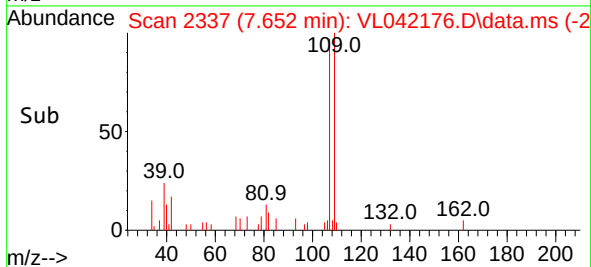
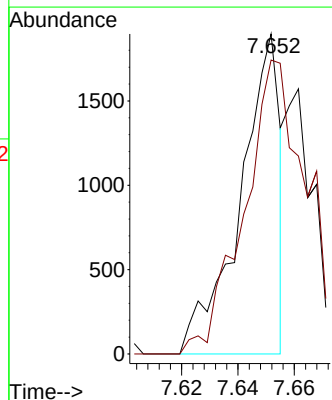
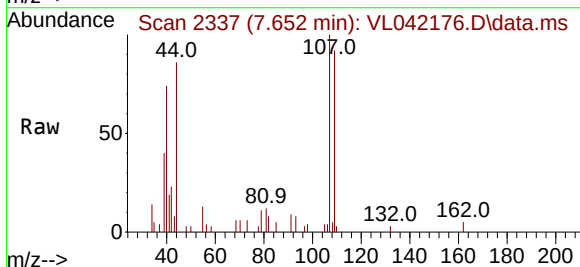
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

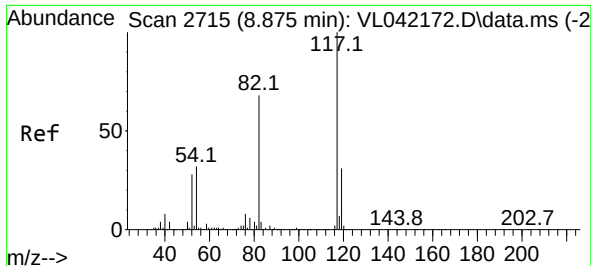
Tgt Ion: 91 Resp: 3144
Ion Ratio Lower Upper
91 100
92 117.7 48.4 72.6#



#54
1,2-Dibromoethane
Concen: 0.066 ppbv
RT: 7.652 min Scan# 2337
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion:107 Resp: 1864
Ion Ratio Lower Upper
107 100
109 91.8 72.2 108.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.878 min Scan# 21

Delta R.T. 0.003 min

Lab File: VL042176.D

Acq: 27 Mar 2025 10:32

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

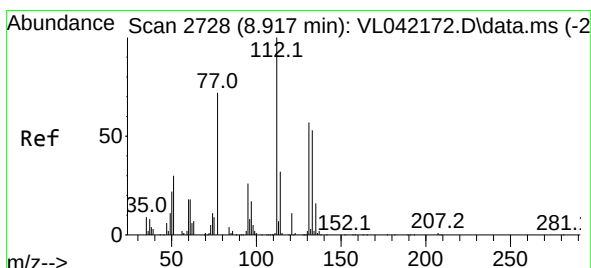
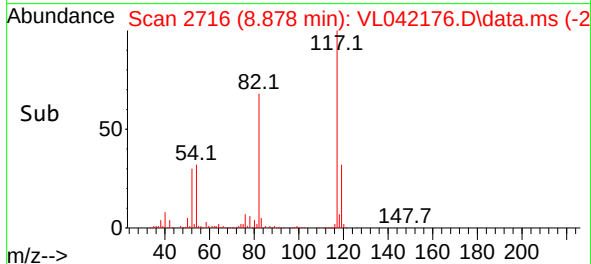
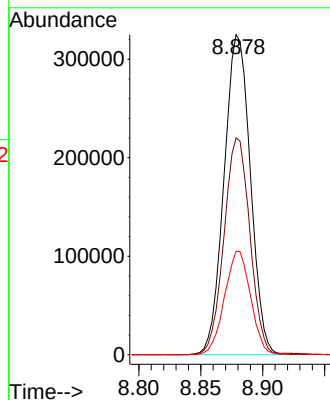
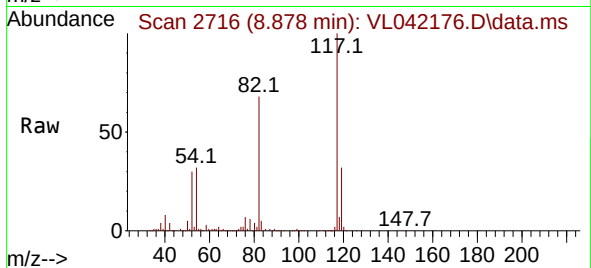
Tgt Ion:117 Resp: 481506

Ion Ratio Lower Upper

117 100

82 66.7 55.8 83.6

119 32.3 25.5 38.3



#56

1,1,1,2-Tetrachloroethane

Concen: 0.112 ppbv

RT: 8.924 min Scan# 2730

Delta R.T. 0.006 min

Lab File: VL042176.D

Acq: 27 Mar 2025 10:32

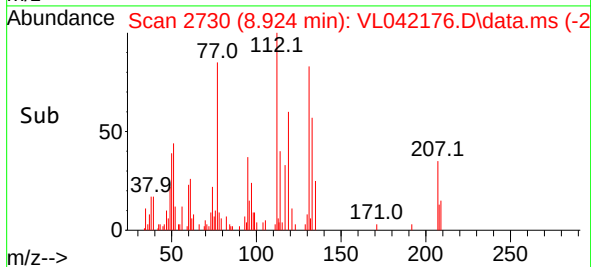
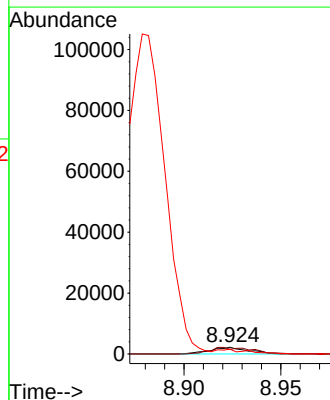
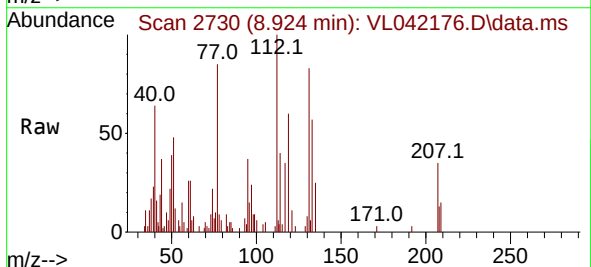
Tgt Ion:131 Resp: 2963

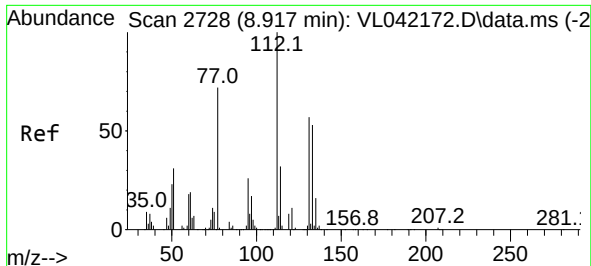
Ion Ratio Lower Upper

131 100

133 115.5 76.6 114.8#

119 5254.7 49.8 74.6#

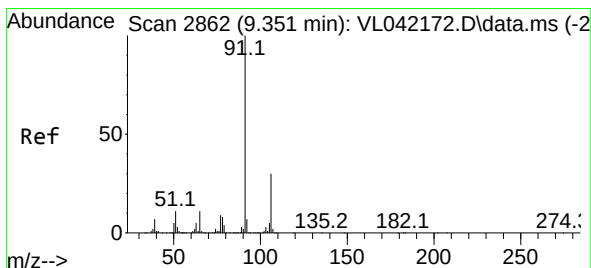
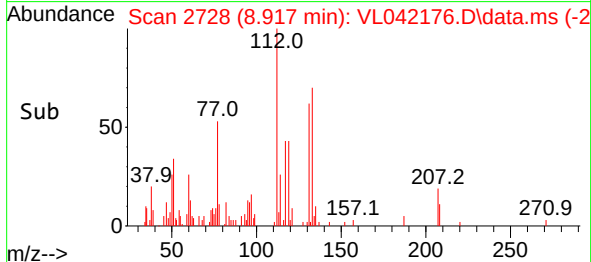
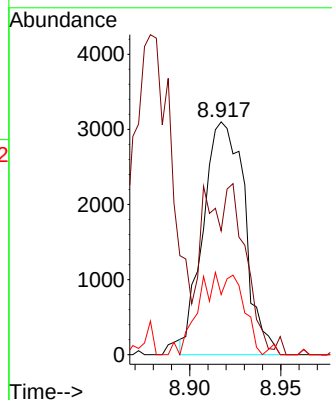
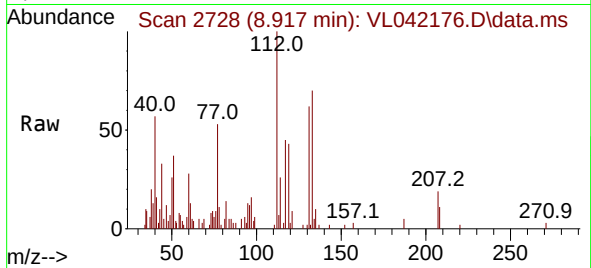




#57
Chlorobenzene
Concen: 0.107 ppbv
RT: 8.917 min Scan# 211
Delta R.T. -0.000 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

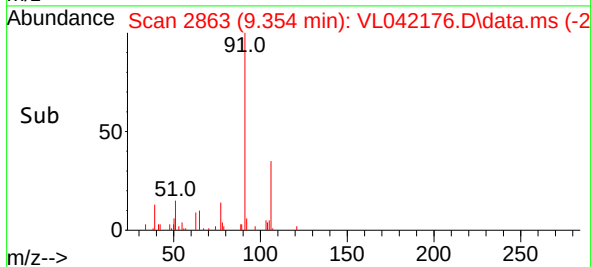
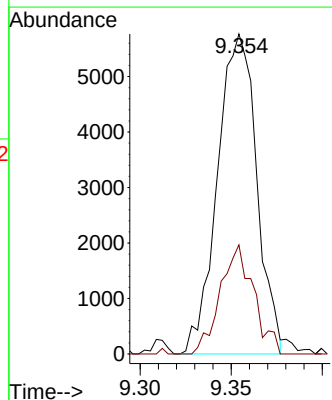
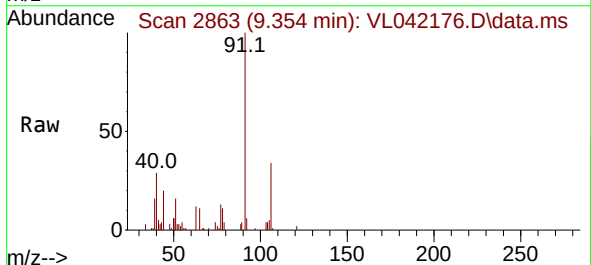
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC0.1

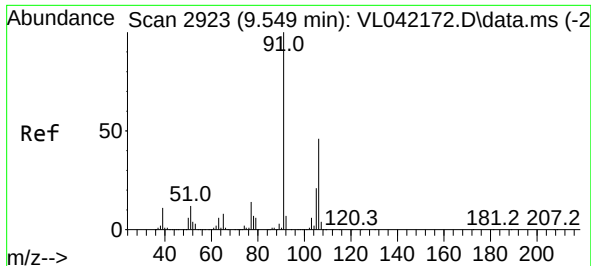
Tgt Ion	Ratio	Lower	Upper
112	100		
77	45.4	58.2	87.2#
114	25.8	29.1	35.5#



#58
Ethyl Benzene
Concen: 0.101 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion	Ratio	Lower	Upper
91	100		
106	34.1	24.2	36.2

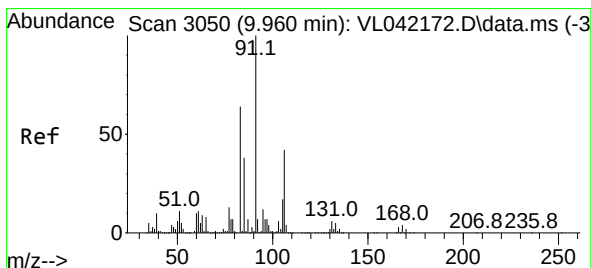
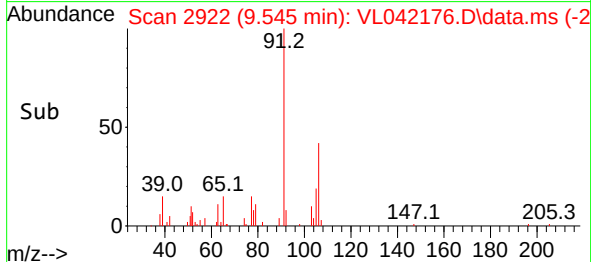
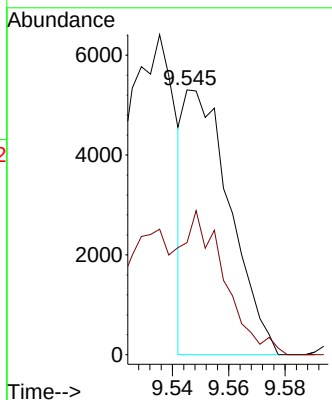
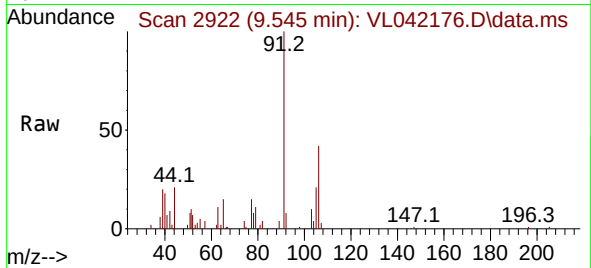




#59
m/p-Xylene
Concen: 0.088 ppbv
RT: 9.545 min Scan# 2923
Delta R.T. -0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

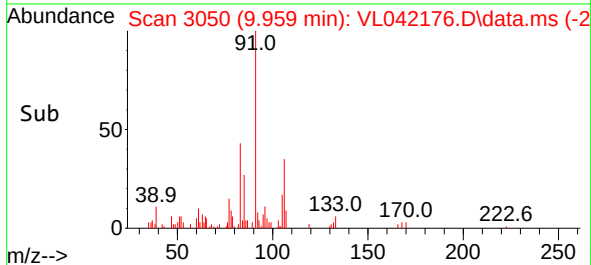
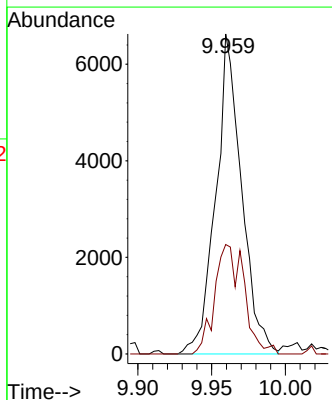
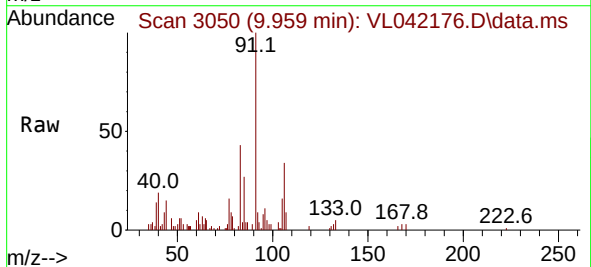
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

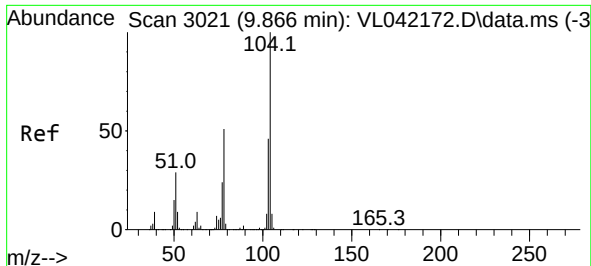
Tgt Ion: 91 Resp: 6005
Ion Ratio Lower Upper
91 100
106 103.4 36.4 54.6#



#60
o-Xylene
Concen: 0.118 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.000 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion: 91 Resp: 8048
Ion Ratio Lower Upper
91 100
106 39.0 20.8 62.5

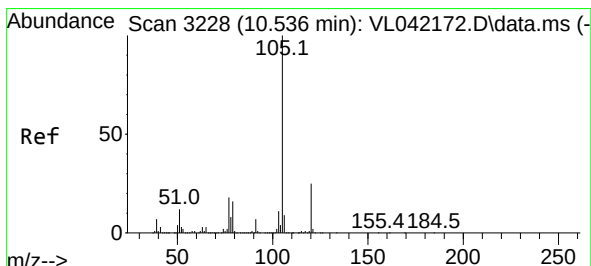
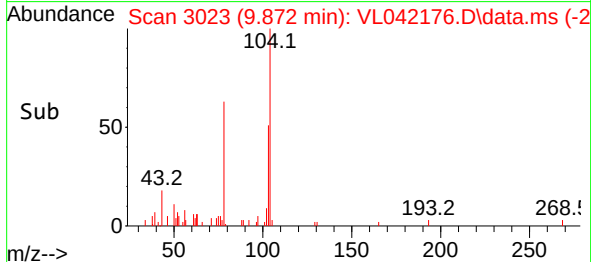
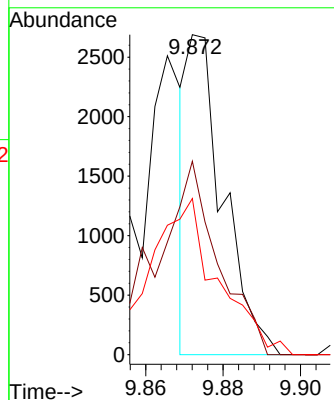
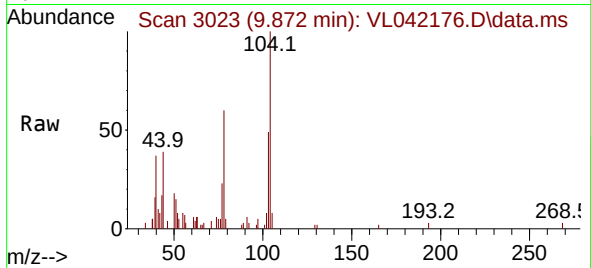




#61
Styrene
Concen: 0.051 ppbv
RT: 9.872 min Scan# 3021
Delta R.T. 0.006 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

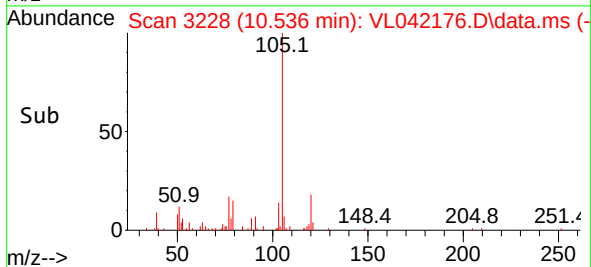
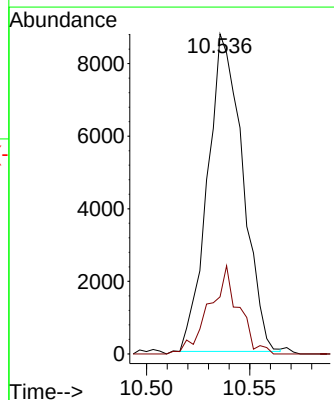
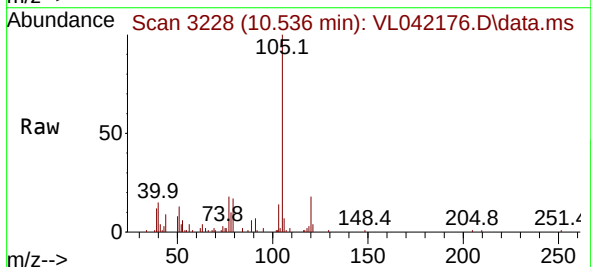
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

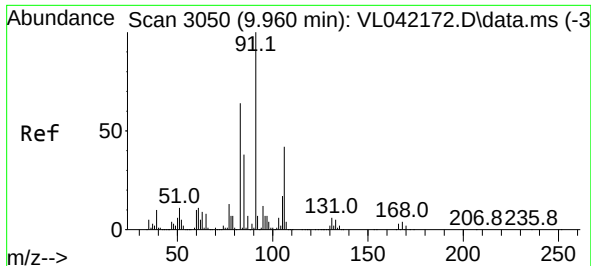
Tgt Ion:104 Resp: 1723
Ion Ratio Lower Upper
104 100
78 105.9 41.8 62.6#
103 95.0 37.0 55.4#



#62
Isopropylbenzene
Concen: 0.101 ppbv
RT: 10.536 min Scan# 3228
Delta R.T. -0.000 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion:105 Resp: 10359
Ion Ratio Lower Upper
105 100
120 23.2 19.9 29.9





#63

1,1,2,2-Tetrachloroethane

Concen: 0.046 ppbv

RT: 9.959 min Scan# 3050

Delta R.T. -0.000 min

Lab File: VL042176.D

Acq: 27 Mar 2025 10:32

Instrument :

MSVOA_1

ClientSampleId :

VSTDICC0.1

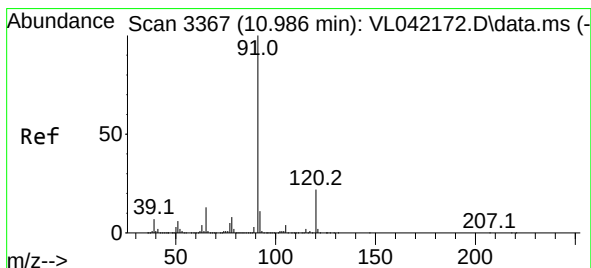
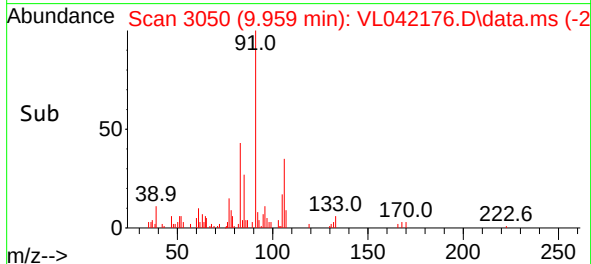
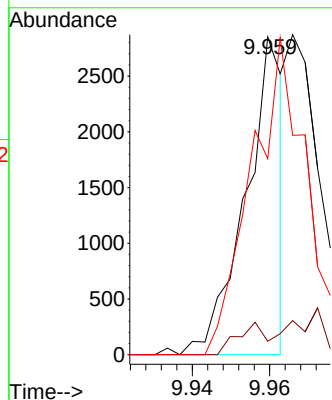
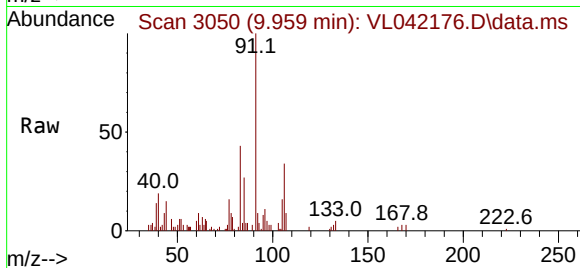
Tgt Ion: 83 Resp: 1910

Ion Ratio Lower Upper

83 100

131 0.0 4.8 14.4#

85 0.0 32.5 97.5#



#64

n-propylbenzene

Concen: 0.090 ppbv

RT: 10.989 min Scan# 3368

Delta R.T. 0.003 min

Lab File: VL042176.D

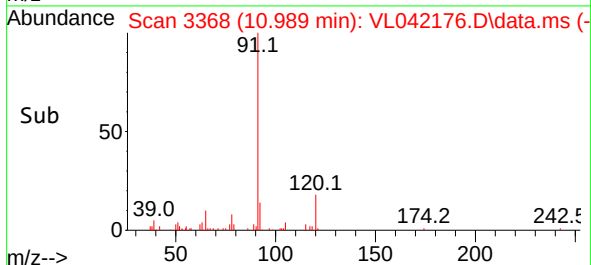
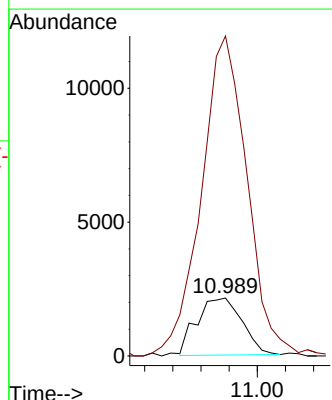
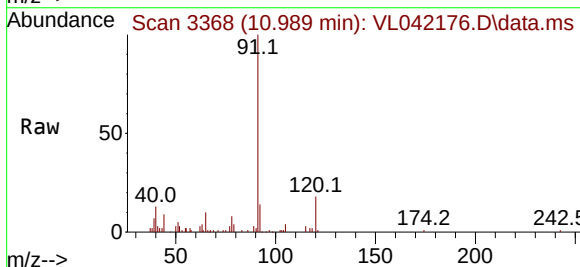
Acq: 27 Mar 2025 10:32

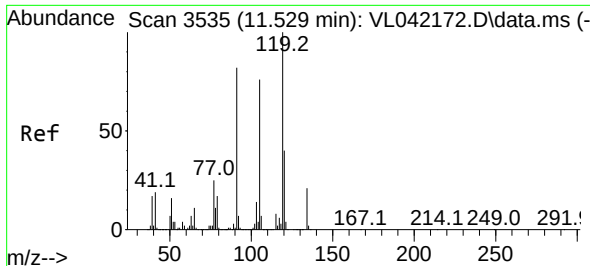
Tgt Ion: 120 Resp: 2375

Ion Ratio Lower Upper

120 100

91 572.3 376.9 565.3#

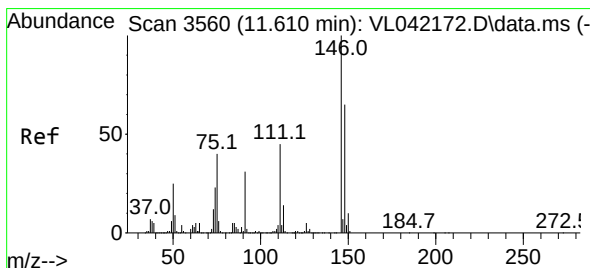
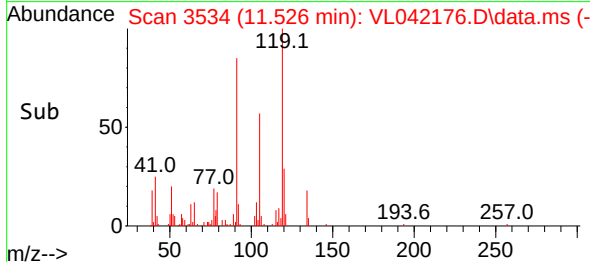
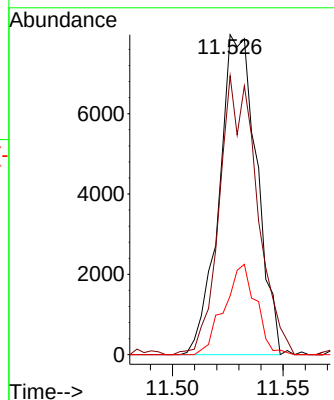
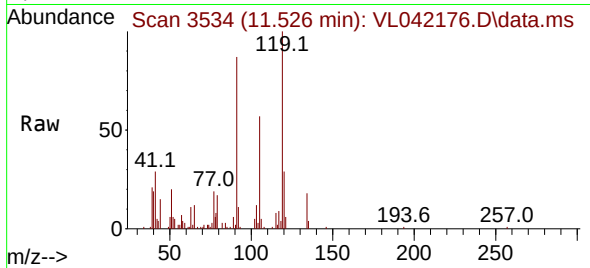




#65
tert-Butylbenzene
Concen: 0.099 ppbv
RT: 11.526 min Scan# 3534
Delta R.T. -0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

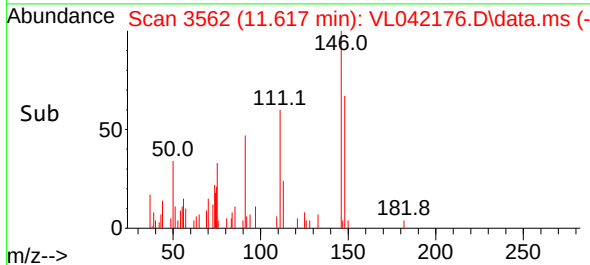
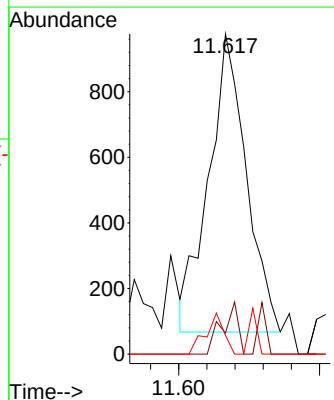
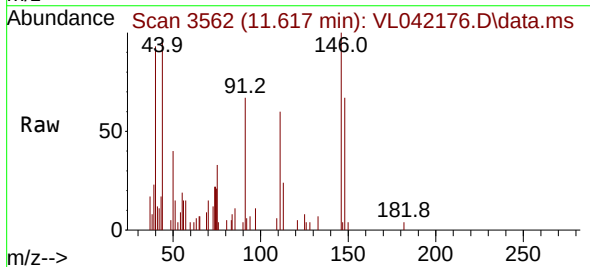
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

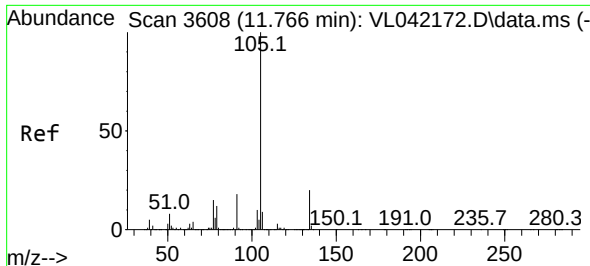
Tgt Ion:119 Resp: 9418
Ion Ratio Lower Upper
119 100
91 87.8 66.0 99.0
134 23.9 16.7 25.1



#66
Benzyl Chloride
Concen: 0.084 ppbv
RT: 11.617 min Scan# 3562
Delta R.T. 0.006 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion: 91 Resp: 844
Ion Ratio Lower Upper
91 100
126 11.0 13.8 20.6#
128 10.0 4.5 6.7#

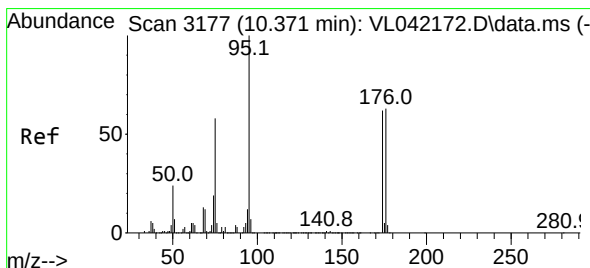
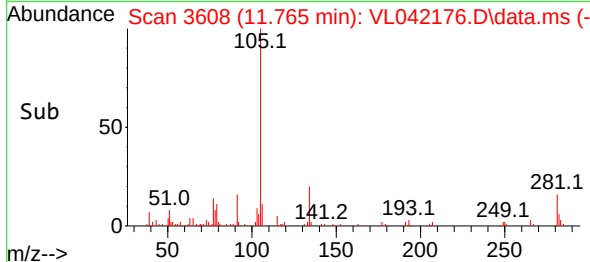
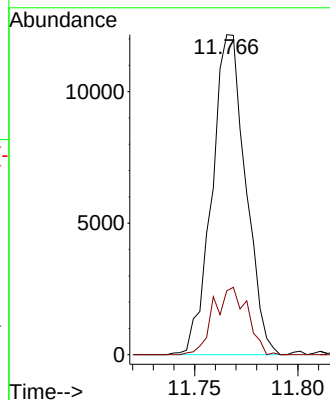
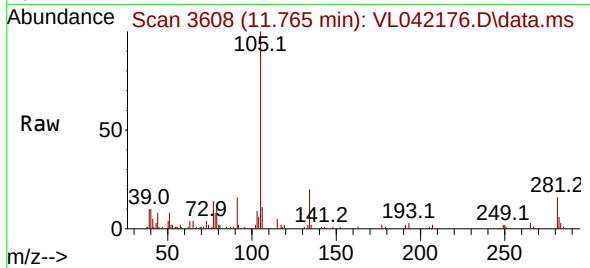




#67
 sec-Butylbenzene
 Concen: 0.105 ppbv
 RT: 11.765 min Scan# 3178
 Delta R.T. -0.000 min
 Lab File: VL042176.D
 Acq: 27 Mar 2025 10:32

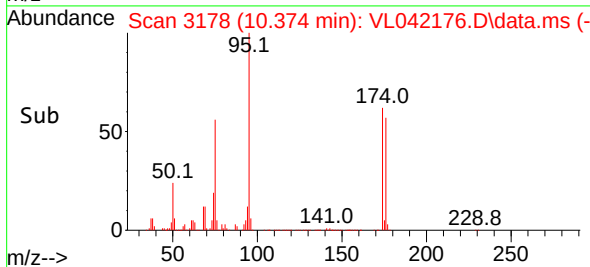
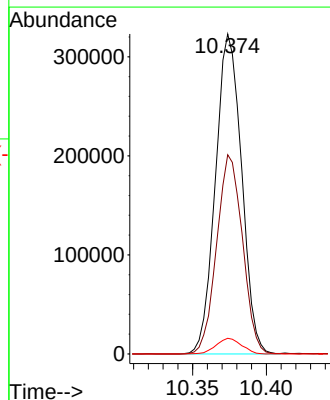
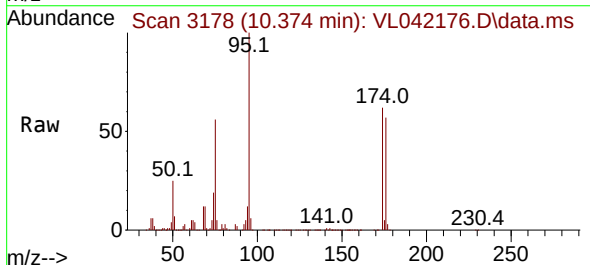
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

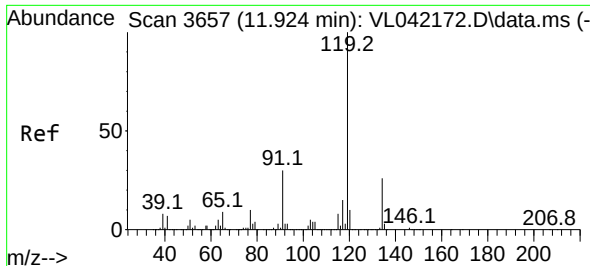
Tgt Ion:105 Resp: 13775
 Ion Ratio Lower Upper
 105 100
 134 21.2 15.5 23.3



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.067 ppbv
 RT: 10.374 min Scan# 3178
 Delta R.T. 0.003 min
 Lab File: VL042176.D
 Acq: 27 Mar 2025 10:32

Tgt Ion: 95 Resp: 398069
 Ion Ratio Lower Upper
 95 100
 174 61.5 50.6 76.0
 175 4.8 3.8 5.6

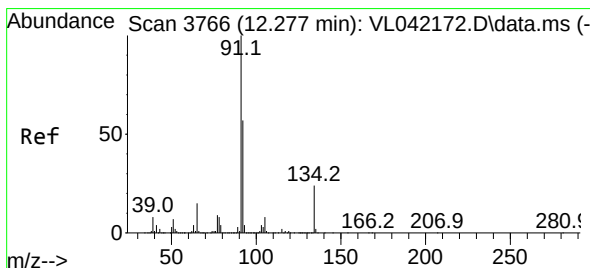
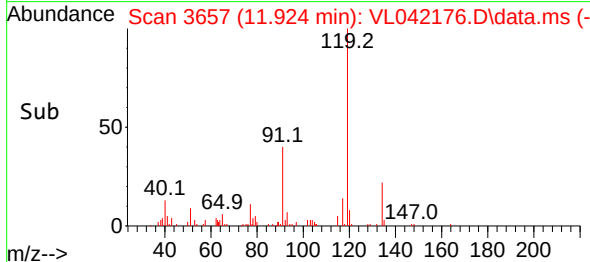
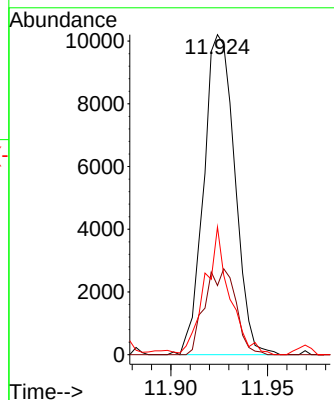
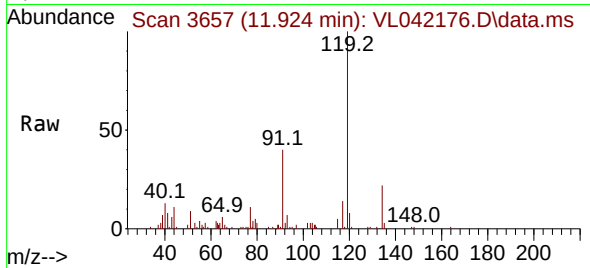




#69
p-Isopropyltoluene
Concen: 0.100 ppbv
RT: 11.924 min Scan# 30
Delta R.T. -0.000 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

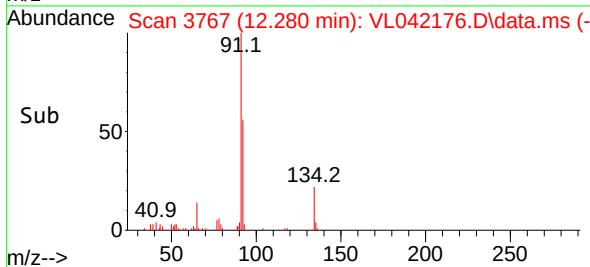
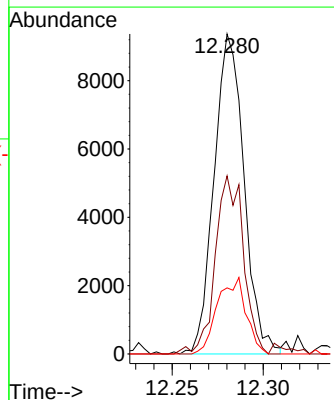
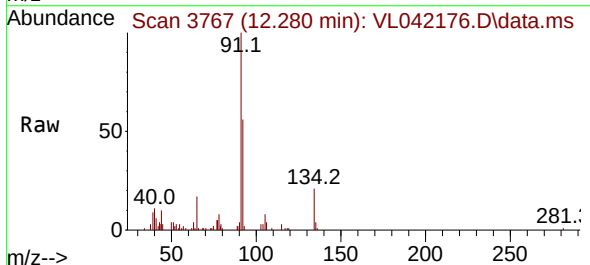
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

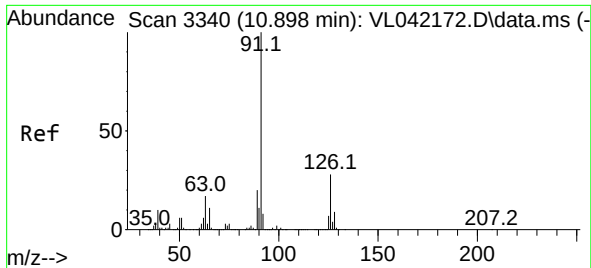
Tgt Ion:	119	Resp:	11366
Ion	Ratio	Lower	Upper
119	100		
134	26.8	20.4	30.6
91	30.7	23.7	35.5



#70
n-Butylbenzene
Concen: 0.092 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion:	91	Resp:	10697
Ion	Ratio	Lower	Upper
91	100		
92	54.0	44.9	67.3
134	22.9	19.2	28.8

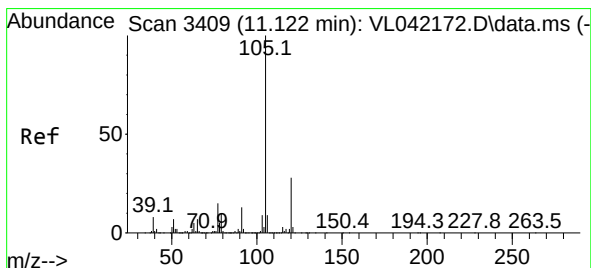
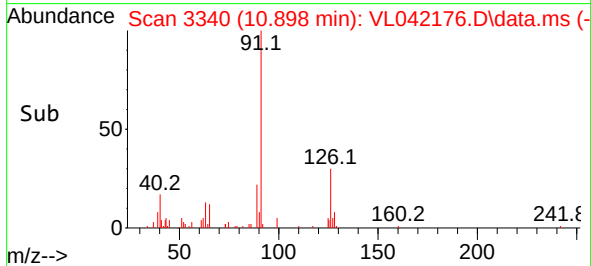
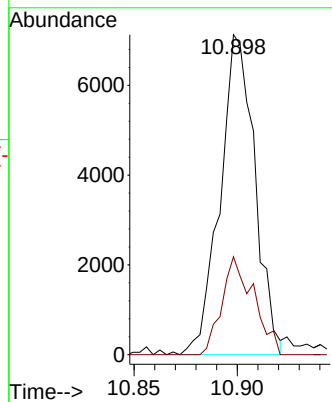
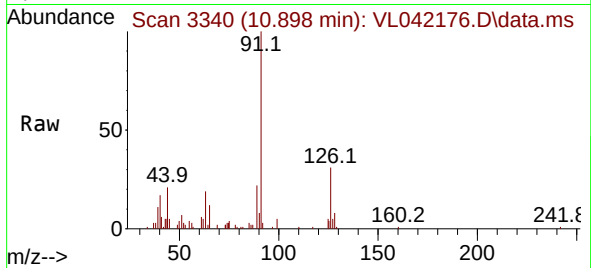




#71
2-Chlorotoluene
Concen: 0.105 ppbv
RT: 10.898 min Scan# 310
Delta R.T. -0.000 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

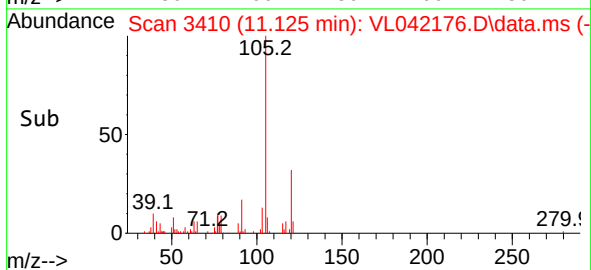
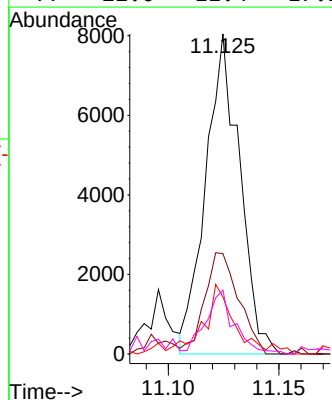
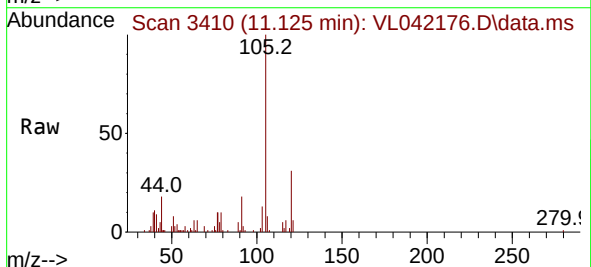
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

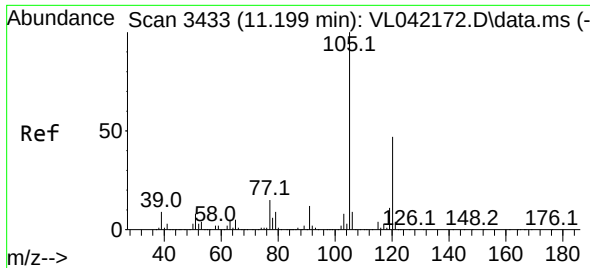
Tgt Ion: 91 Resp: 8347
Ion Ratio Lower Upper
91 100
126 28.0 11.6 46.4



#72
4-Ethyltoluene
Concen: 0.101 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion: 105 Resp: 8579
Ion Ratio Lower Upper
105 100
120 36.1 23.4 35.0#
91 21.4 10.3 15.5#
77 22.0 11.4 17.2#

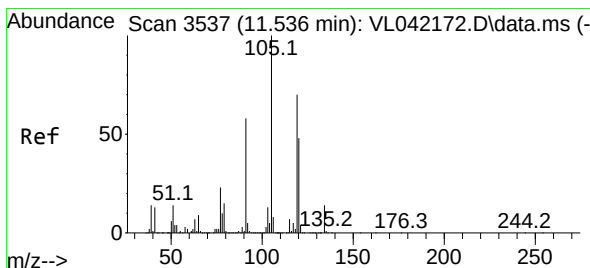
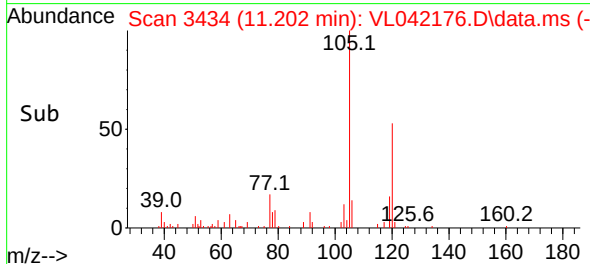
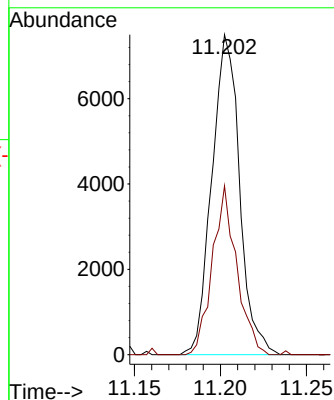
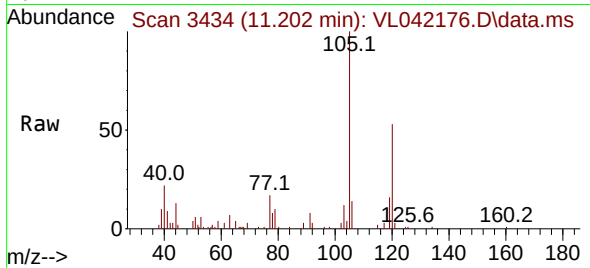




#73
1,3,5-Trimethylbenzene
Concen: 0.113 ppbv
RT: 11.202 min Scan# 3434
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

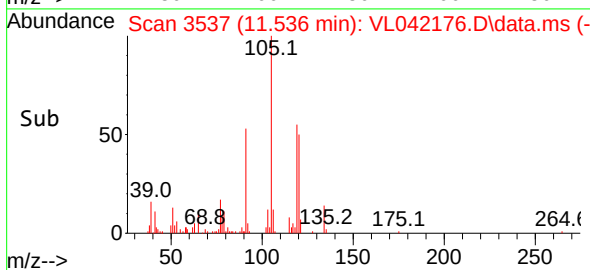
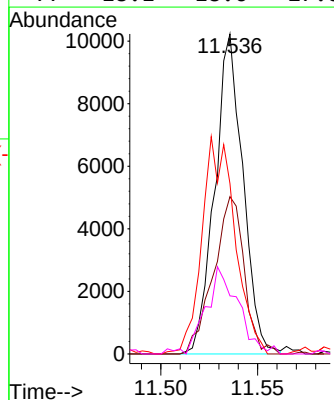
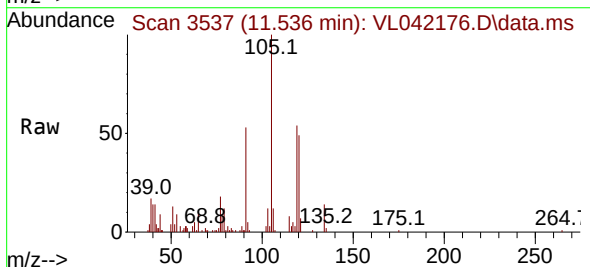
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

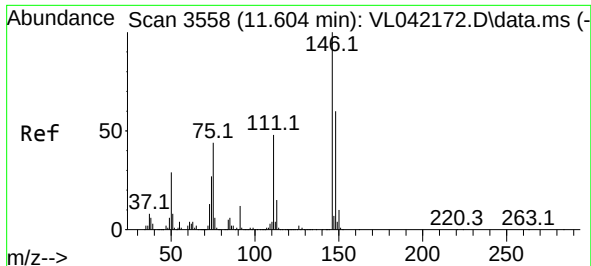
Tgt Ion:105 Resp: 8407
Ion Ratio Lower Upper
105 100
120 52.7 37.4 56.0



#74
1,2,4-Trimethylbenzene
Concen: 0.121 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. -0.000 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion:105 Resp: 10341
Ion Ratio Lower Upper
105 100
120 49.2 38.6 58.0
91 53.2 46.2 69.2
77 18.1 18.6 27.8#

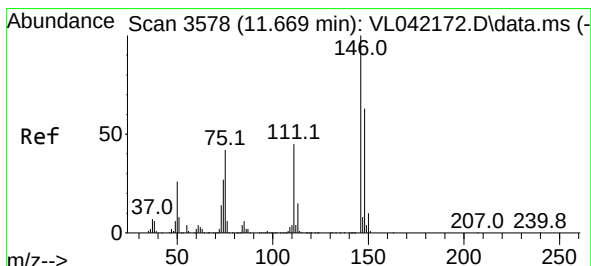
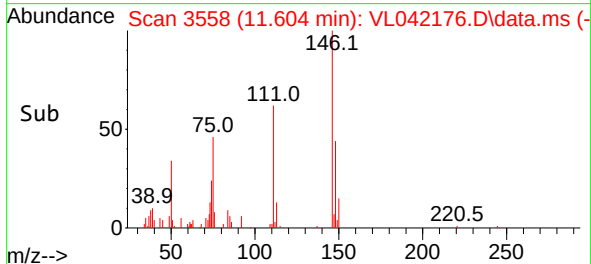
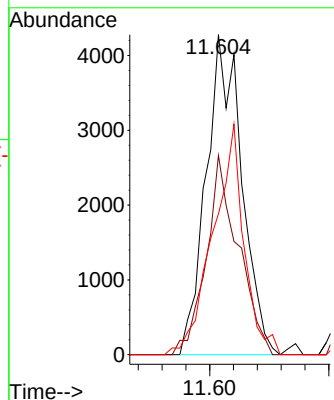
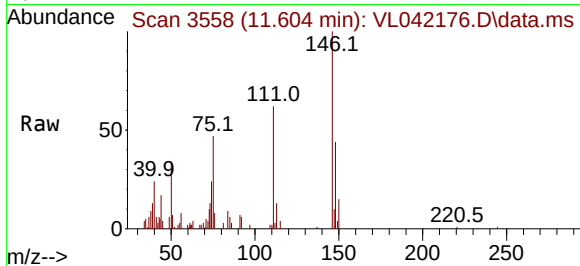




#75
1,3-Dichlorobenzene
Concen: 0.094 ppbv
RT: 11.604 min Scan# 3558
Delta R.T. -0.000 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

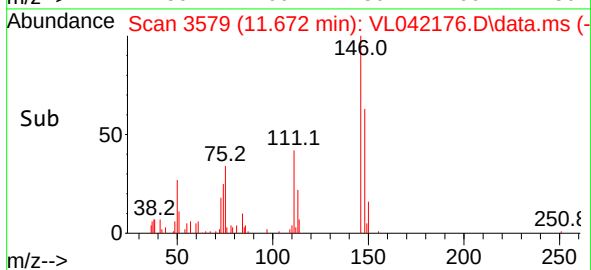
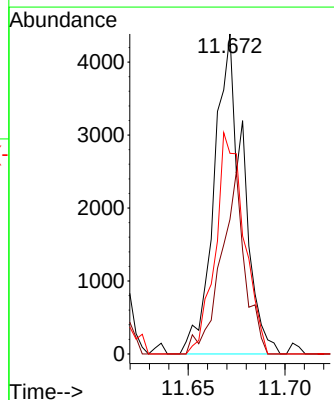
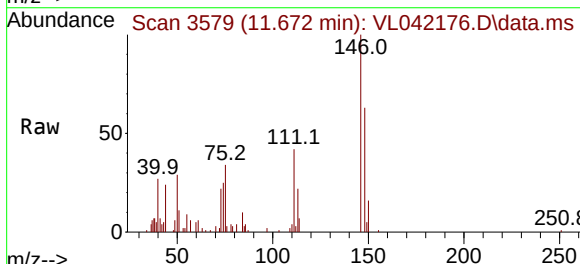
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

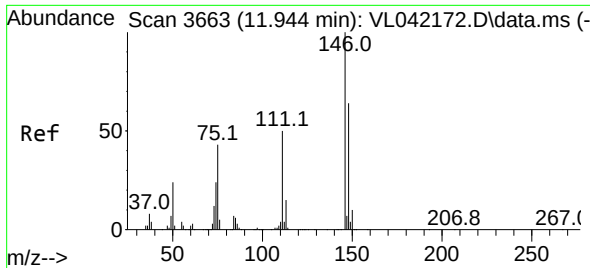
Tgt Ion:	146	Resp:	4426
Ion	Ratio	Lower	Upper
146	100		
111	56.3	23.8	71.2
148	62.9	31.9	95.9



#76
1,4-Dichlorobenzene
Concen: 0.097 ppbv
RT: 11.672 min Scan# 3579
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion:	146	Resp:	4552
Ion	Ratio	Lower	Upper
146	100		
111	47.6	23.0	69.0
148	68.6	31.9	95.7

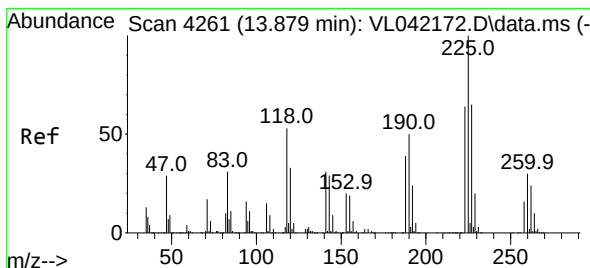
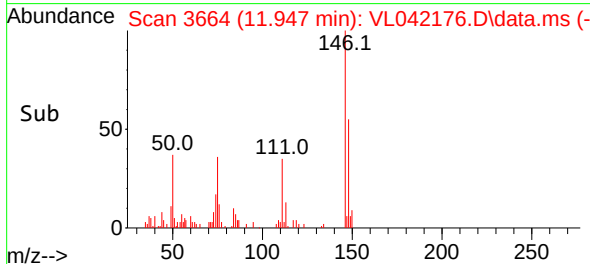
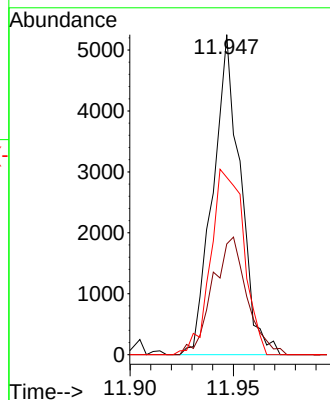
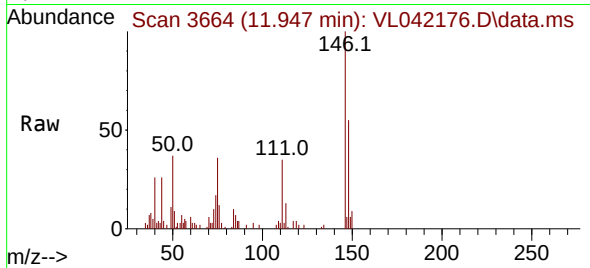




#77
1,2-Dichlorobenzene
Concen: 0.106 ppbv
RT: 11.947 min Scan# 3663
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

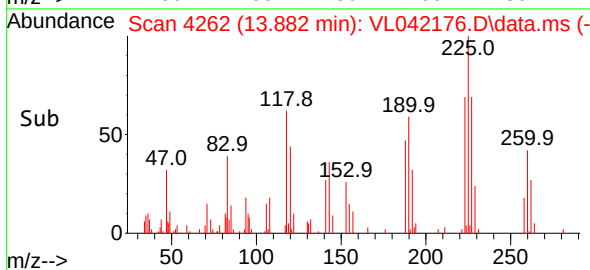
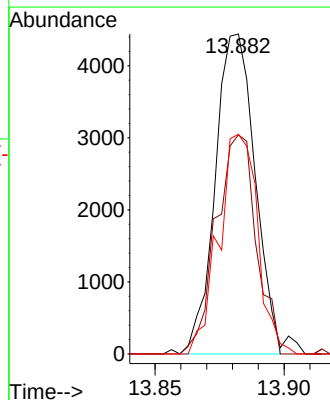
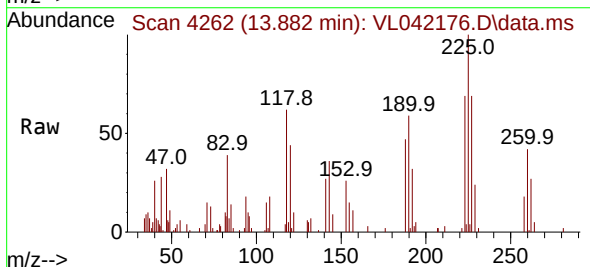
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

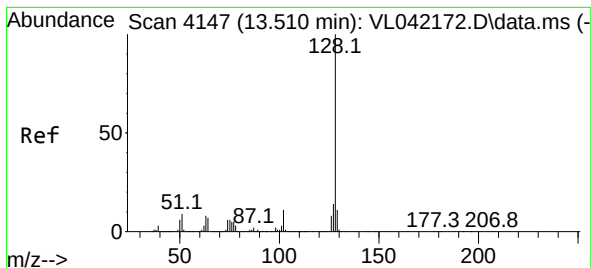
Tgt Ion:146	Resp:	4867
Ion Ratio	Lower	Upper
146	100	
111	45.8	24.8 74.3
148	69.7	31.6 94.8



#78
Hexachloro-1,3-Butadiene
Concen: 0.102 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion:225	Resp:	4755
Ion Ratio	Lower	Upper
225	100	
223	68.9	50.6 76.0
227	67.4	51.2 76.8

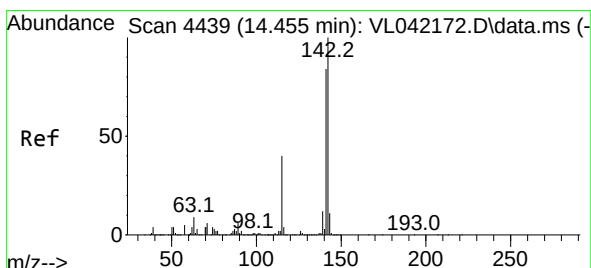
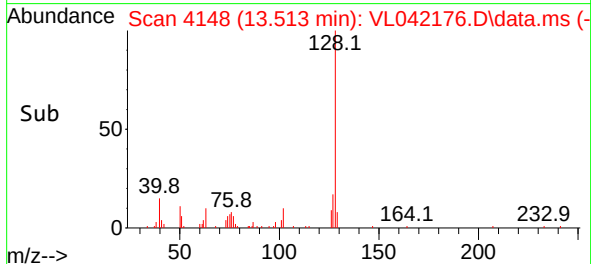
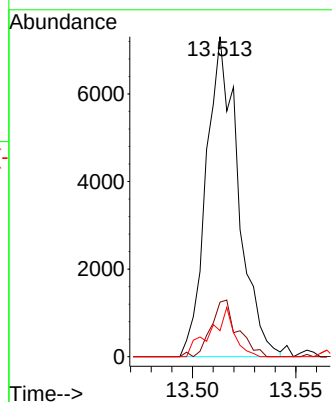
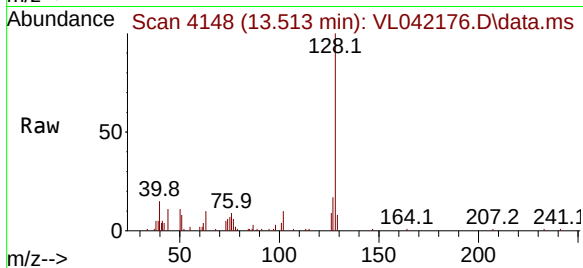




#79
Naphthalene
Concen: 0.084 ppbv
RT: 13.513 min Scan# 4147
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

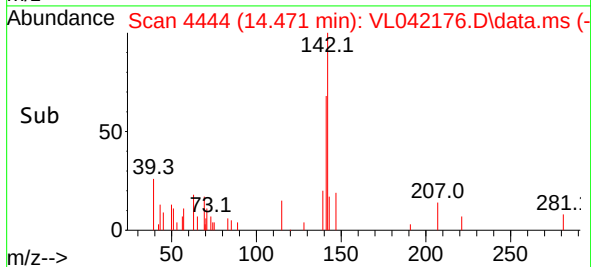
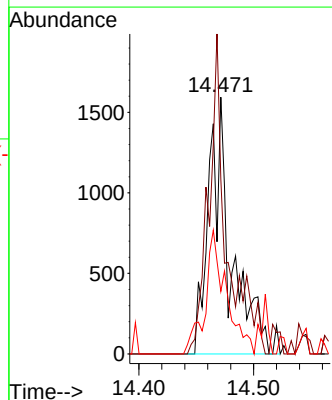
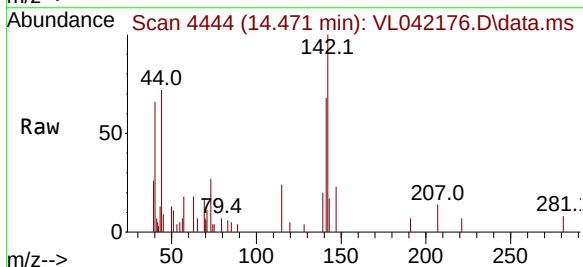
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

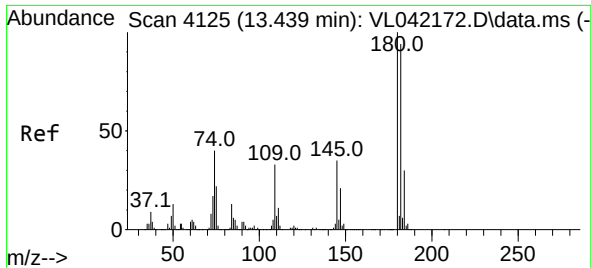
Tgt Ion:128 Resp: 7882
Ion Ratio Lower Upper
128 100
127 17.1 10.8 16.2#
129 8.1 9.0 13.4#



#80
Naphthalene,2-methyl-
Concen: 0.048 ppbv
RT: 14.471 min Scan# 4444
Delta R.T. 0.016 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

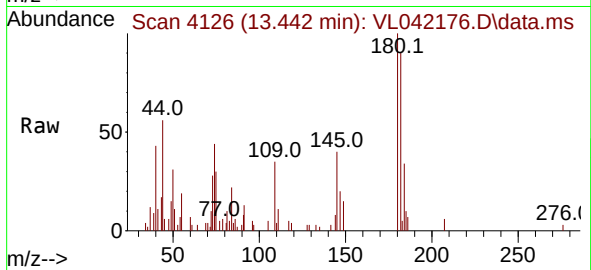
Tgt Ion:142 Resp: 2174
Ion Ratio Lower Upper
142 100
141 109.3 66.3 99.5#
115 44.3 31.6 47.4



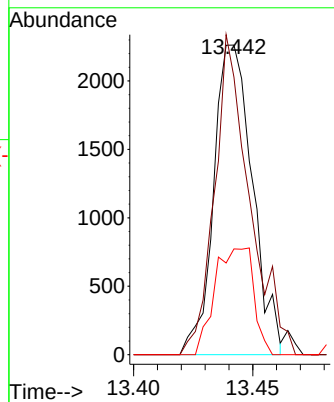
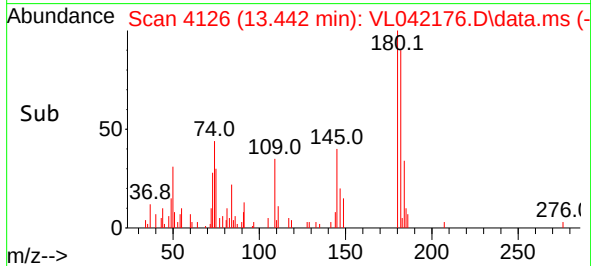


#81
 1,2,4-Trichlorobenzene
 Concen: 0.059 ppbv
 RT: 13.442 min Scan# 41
 Delta R.T. 0.003 min
 Lab File: VL042176.D
 Acq: 27 Mar 2025 10:32

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1



Tgt Ion:	180	Resp:	2557
Ion	Ratio	Lower	Upper
180	100		
182	93.6	75.1	112.7
184	34.5	24.4	36.6



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

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_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 01:31:23 2025
 Response via : Initial Calibration

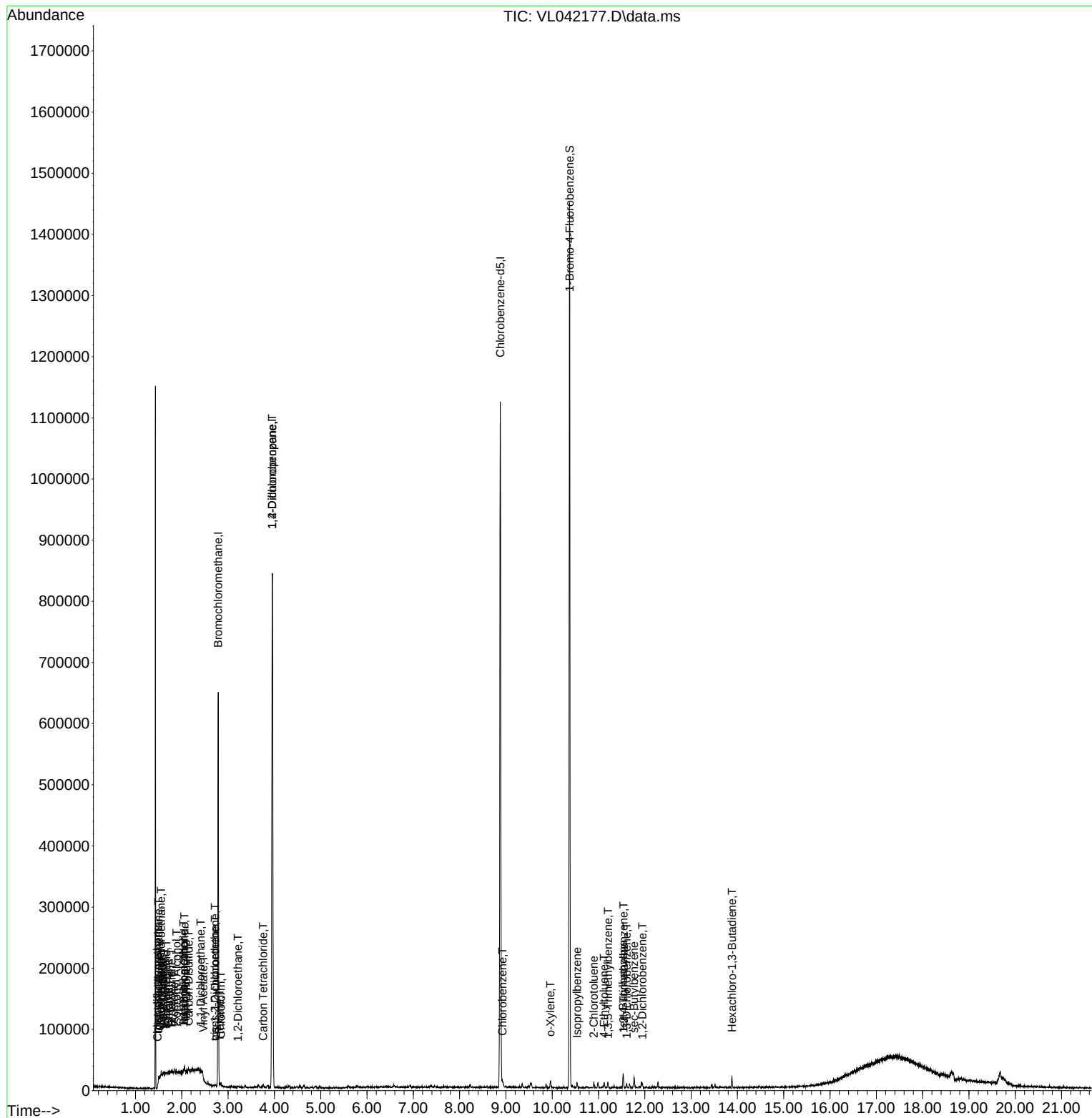
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.787	49	178058	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	512915	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	475617	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	389935	9.983	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.800%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.496	85	914	0.035	ppbv #	73
3) Chlorodifluoromethane	1.476	51	1354	0.050	ppbv #	1
4) Chloromethane	1.531	50	675	0.063	ppbv #	86
5) Vinyl Chloride	1.580	62	534	0.049	ppbv #	79
6) Bromomethane	1.670	94	483	0.099	ppbv #	9
7) Chloroethane	1.703	64	361	0.084	ppbv #	45
8) Dichlorotetrafluoroethane	1.554	85	815	0.036	ppbv #	79
13) Ethanol	1.719	45	312	0.329	ppbv #	27
14) Bromoethene	1.780	108	482	0.060	ppbv #	31
15) Acetone	1.835	43	3574	0.144	ppbv #	63
16) 1,3-Butadiene	1.606	39	1101	0.098	ppbv #	57
17) tert-Butyl alcohol	2.043	59	1215	0.039	ppbv #	1
18) 1,1-Dichloroethene	2.036	96	560	0.057	ppbv #	38
19) Isopropyl Alcohol	1.887	45	1071	0.076	ppbv #	30
20) Methylene Chloride	2.059	84	1823	0.197	ppbv #	91
21) Allyl Chloride	2.091	41	1518	0.086	ppbv #	29
22) trans-1,2-Dichloroethene	2.719	96	586	0.051	ppbv	96
23) Vinyl Acetate	2.463	43	689	0.067	ppbv #	1
24) 1,1-Dichloroethane	2.412	63	961	0.046	ppbv #	72
26) Hexane	2.819	57	1040	0.042	ppbv #	46
27) Carbon Disulfide	2.149	76	1061	0.040	ppbv #	1
29) Chloroform	2.848	83	1619	0.044	ppbv	92
31) cis-1,2-Dichloroethene	2.719	61	846	0.033	ppbv	92
35) Carbon Tetrachloride	3.758	117	1520	0.039	ppbv #	42
37) 1,2-Dichloroethane	3.214	62	1029	0.035	ppbv #	88
39) 1,2-Dichloropropane	3.955	63	136518	7.372	ppbv #	23
57) Chlorobenzene	8.924	112	1382	0.031	ppbv #	61
60) o-Xylene	9.959	91	2844	0.042	ppbv	96
62) Isopropylbenzene	10.535	105	3380	0.033	ppbv	95
65) tert-Butylbenzene	11.529	119	3543	0.038	ppbv	98
67) sec-Butylbenzene	11.765	105	4317	0.033	ppbv	92
71) 2-Chlorotoluene	10.898	91	2666	0.034	ppbv	97
72) 4-Ethyltoluene	11.121	105	3017	0.036	ppbv #	64
73) 1,3,5-Trimethylbenzene	11.205	105	3101	0.042	ppbv	94
74) 1,2,4-Trimethylbenzene	11.539	105	5313	0.063	ppbv #	73
75) 1,3-Dichlorobenzene	11.607	146	1577	0.034	ppbv	90
77) 1,2-Dichlorobenzene	11.947	146	1591	0.035	ppbv	92
78) Hexachloro-1,3-Butadiene	13.882	225	1821	0.040	ppbv	94

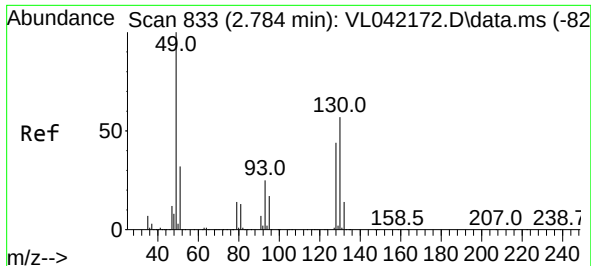
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

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_L Fri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration

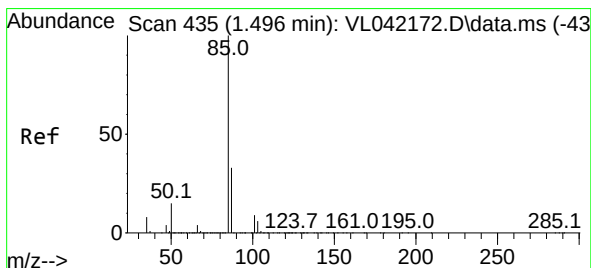
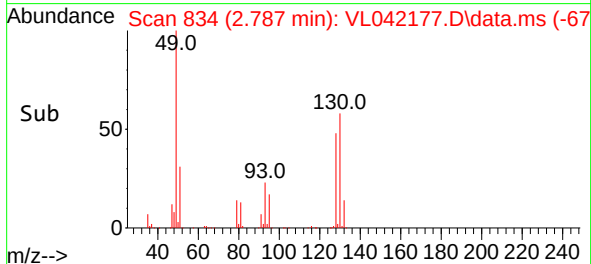
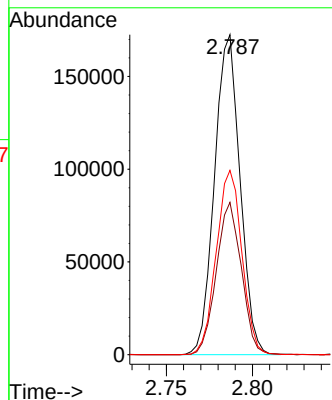
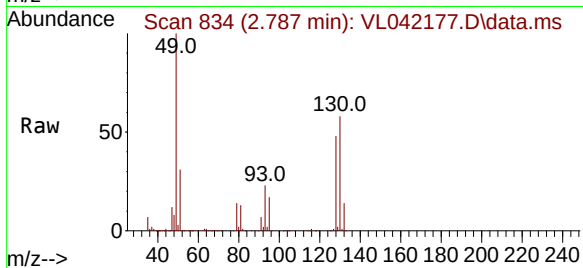




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

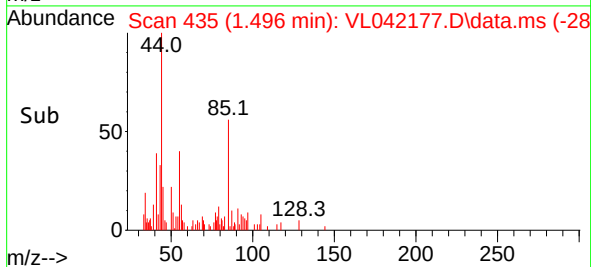
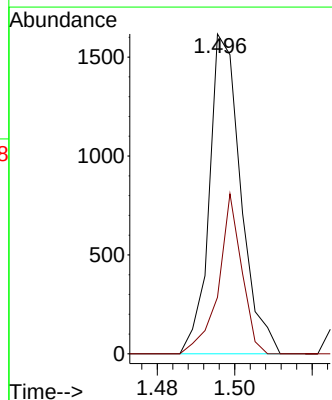
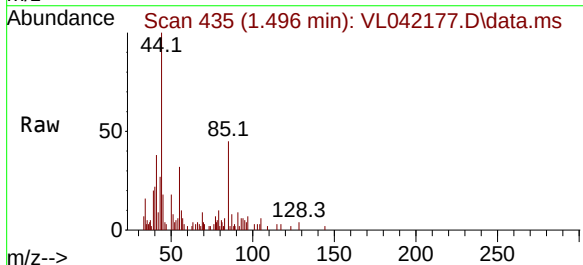
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

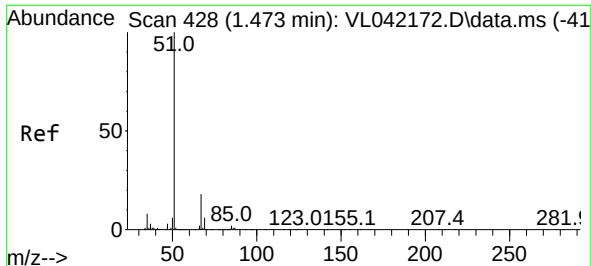
Tgt Ion: 49 Resp: 178058
Ion Ratio Lower Upper
49 100
128 46.8 22.9 68.5
130 57.9 28.8 86.4



#2
Dichlorodifluoromethane
Concen: 0.035 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

Tgt Ion: 85 Resp: 914
Ion Ratio Lower Upper
85 100
87 17.7 26.1 39.1#

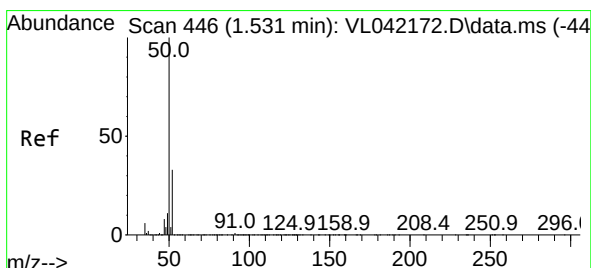
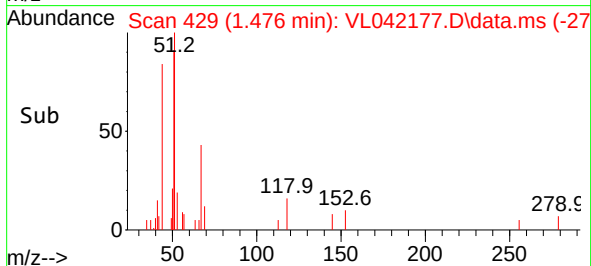
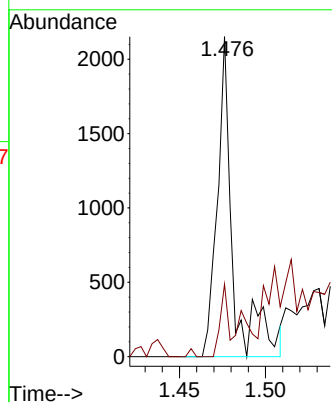
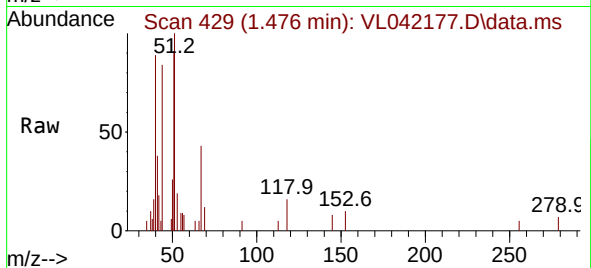




#3
Chlorodifluoromethane
Concen: 0.050 ppbv
RT: 1.476 min Scan# 428
Delta R.T. 0.003 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

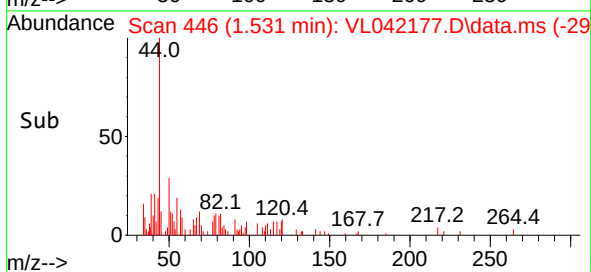
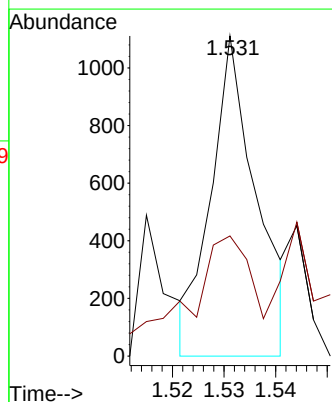
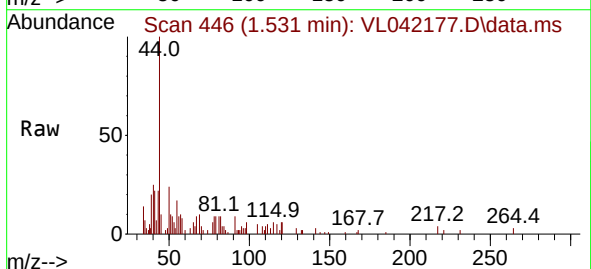
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

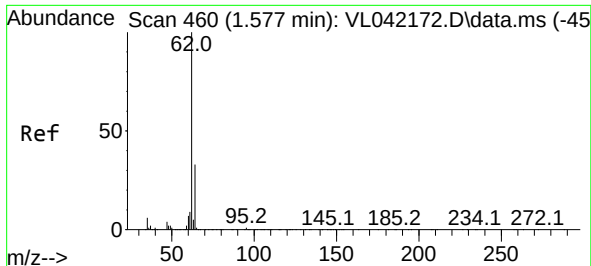
Tgt Ion: 51 Resp: 1354
Ion Ratio Lower Upper
51 100
67 71.0 15.0 22.6#



#4
Chloromethane
Concen: 0.063 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

Tgt Ion: 50 Resp: 675
Ion Ratio Lower Upper
50 100
52 24.6 26.1 39.1#

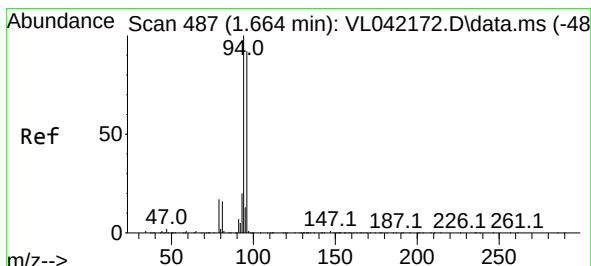
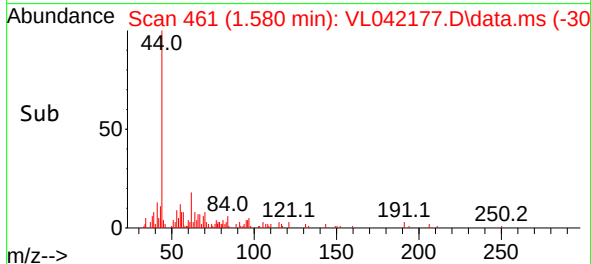
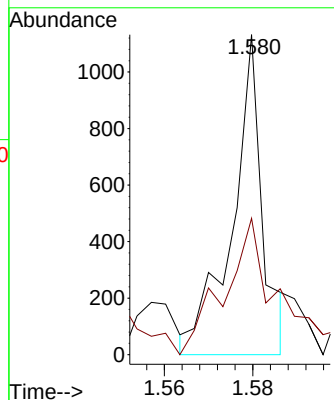
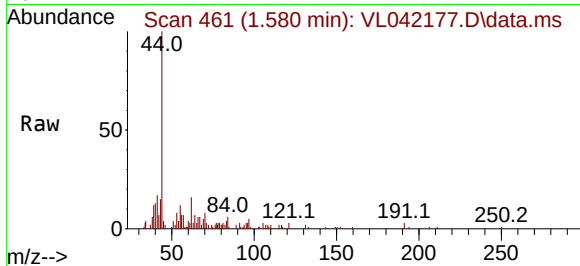




#5
 Vinyl Chloride
 Concen: 0.049 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. 0.003 min
 Lab File: VL042177.D
 Acq: 27 Mar 2025 11:03

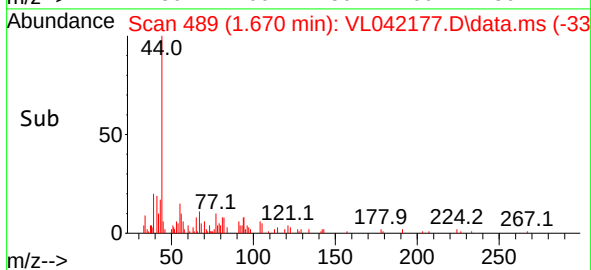
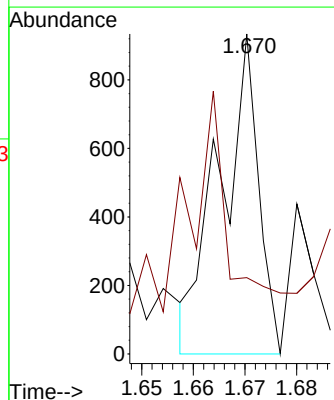
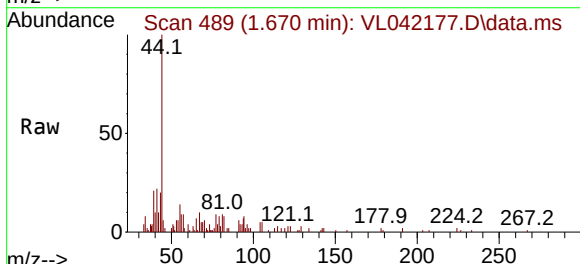
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.03

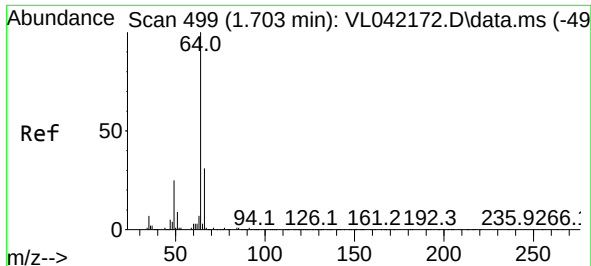
Tgt Ion: 62 Resp: 534
 Ion Ratio Lower Upper
 62 100
 64 45.4 26.6 40.0#



#6
 Bromomethane
 Concen: 0.099 ppbv
 RT: 1.670 min Scan# 489
 Delta R.T. 0.006 min
 Lab File: VL042177.D
 Acq: 27 Mar 2025 11:03

Tgt Ion: 94 Resp: 483
 Ion Ratio Lower Upper
 94 100
 96 4.8 73.1 109.7#

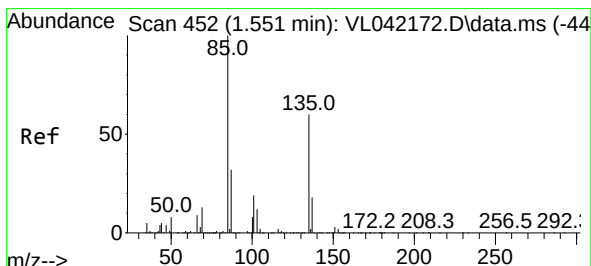
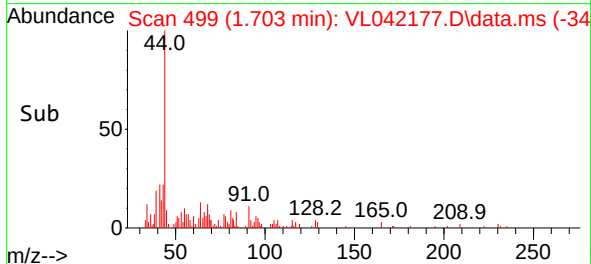
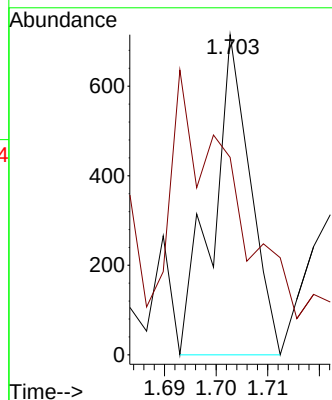
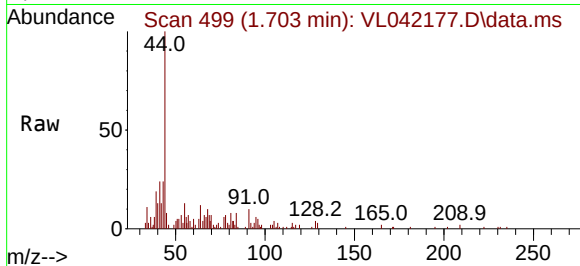




#7
Chloroethane
Concen: 0.084 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

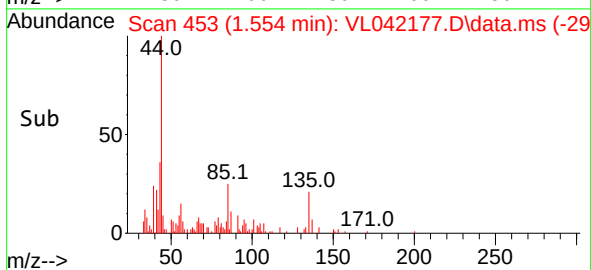
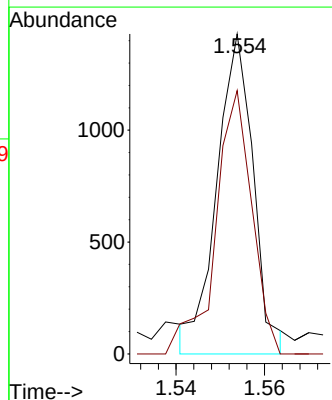
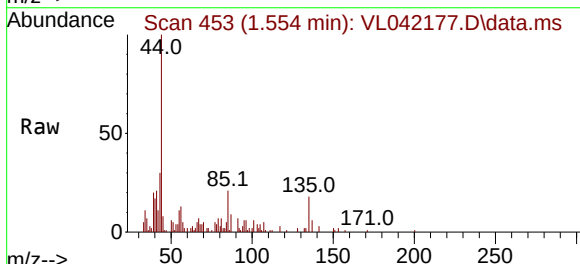
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

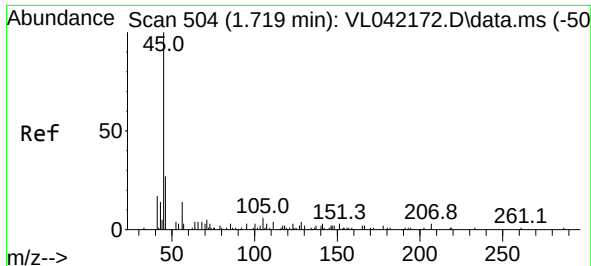
Tgt Ion: 64 Resp: 361
Ion Ratio Lower Upper
64 100
66 61.7 25.2 37.8#



#8
Dichlorotetrafluoroethane
Concen: 0.036 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.003 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

Tgt Ion: 85 Resp: 815
Ion Ratio Lower Upper
85 100
135 82.3 52.4 78.6#

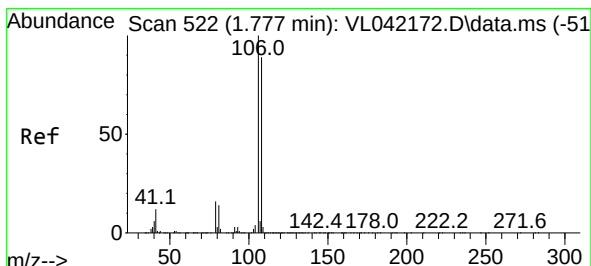
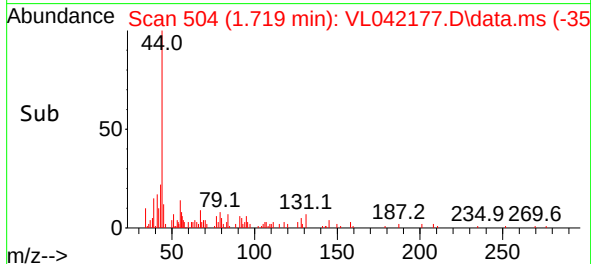
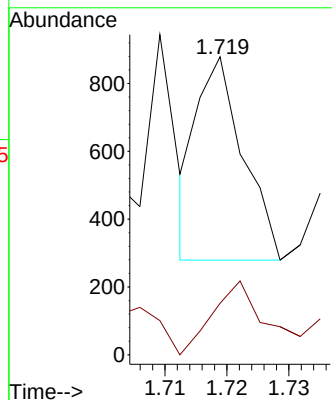
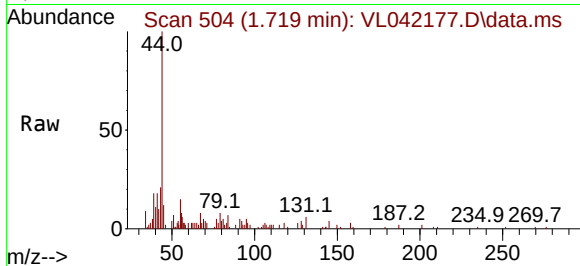




#13
Ethanol
Concen: 0.329 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

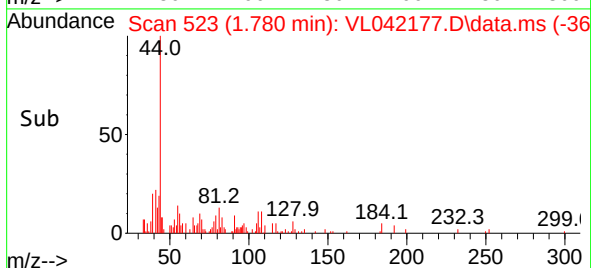
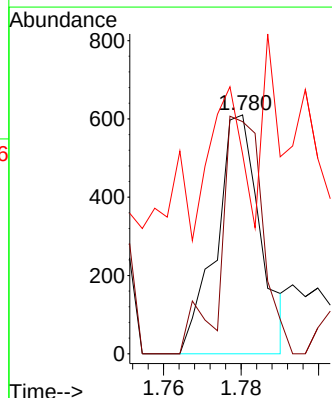
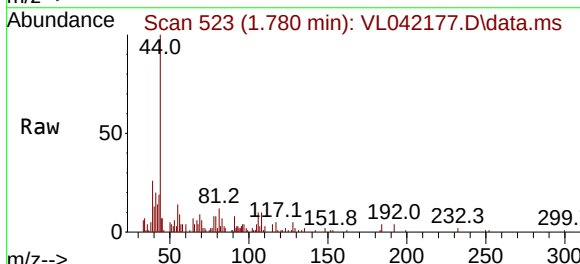
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.03

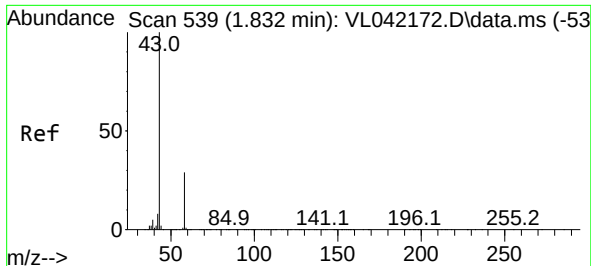
Tgt Ion: 45 Resp: 312
Ion Ratio Lower Upper
45 100
46 0.0 20.2 80.8#



#14
Bromoethene
Concen: 0.060 ppbv
RT: 1.780 min Scan# 523
Delta R.T. 0.003 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

Tgt Ion: 108 Resp: 482
Ion Ratio Lower Upper
108 100
106 100.4 86.8 130.2
79 208.5 15.0 22.6#

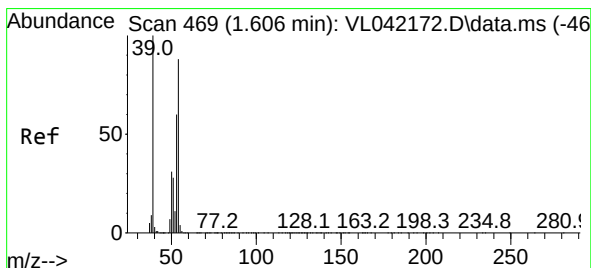
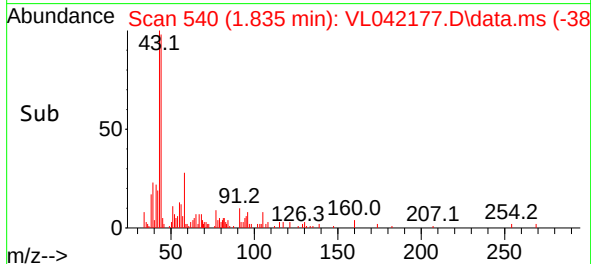
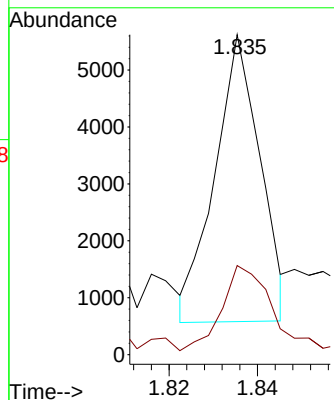
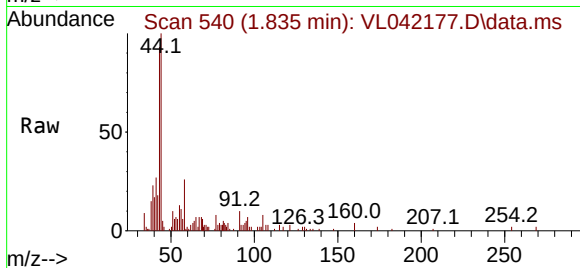




#15
Acetone
Concen: 0.144 ppbv
RT: 1.835 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

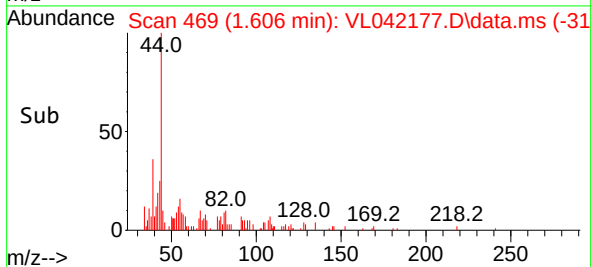
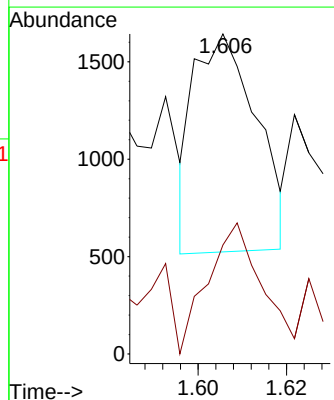
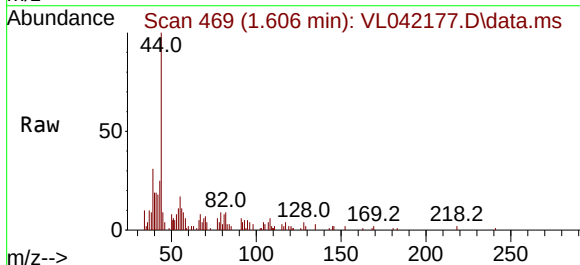
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.03

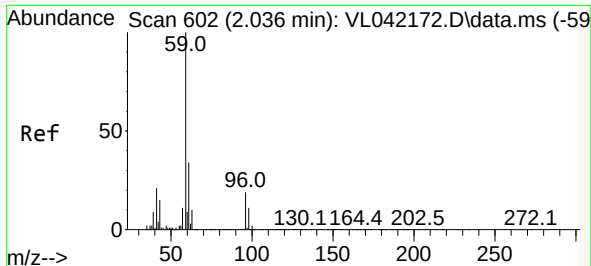
Tgt Ion: 43 Resp: 3574
Ion Ratio Lower Upper
43 100
58 48.5 23.2 34.8#



#16
1,3-Butadiene
Concen: 0.098 ppbv
RT: 1.606 min Scan# 469
Delta R.T. -0.000 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

Tgt Ion: 39 Resp: 1101
Ion Ratio Lower Upper
39 100
54 113.1 60.7 91.1#

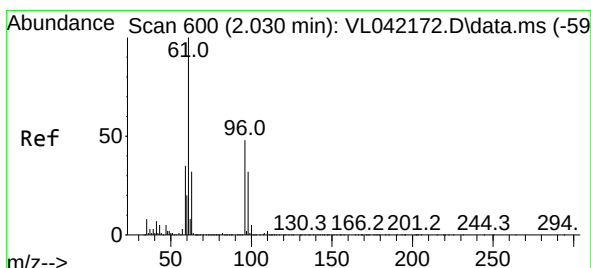
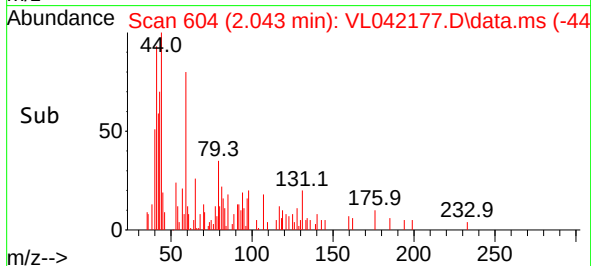
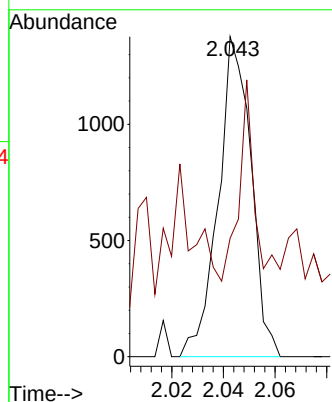
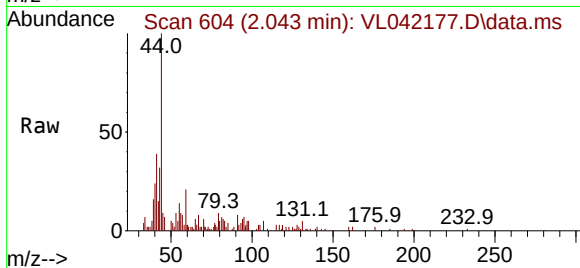




#17
tert-Butyl alcohol
Concen: 0.039 ppbv
RT: 2.043 min Scan# 604
Delta R.T. 0.006 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

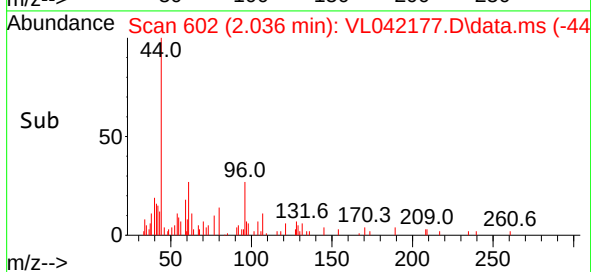
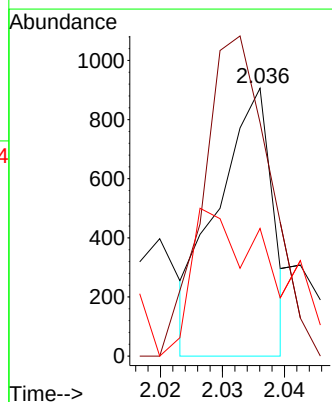
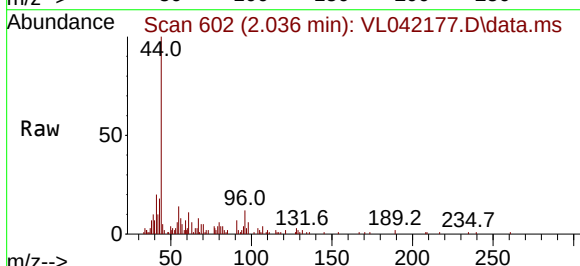
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.03

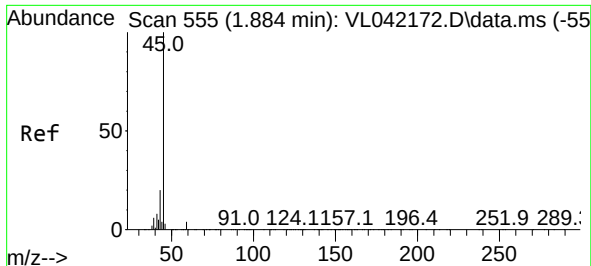
Tgt Ion: 59 Resp: 1215
Ion Ratio Lower Upper
59 100
57 107.2 8.9 13.3#



#18
1,1-Dichloroethene
Concen: 0.057 ppbv
RT: 2.036 min Scan# 602
Delta R.T. 0.006 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

Tgt Ion: 96 Resp: 560
Ion Ratio Lower Upper
96 100
61 87.3 167.6 251.4#
98 56.8 53.5 80.3





#19

Isopropyl Alcohol

Concen: 0.076 ppbv

RT: 1.887 min Scan# 51

Delta R.T. 0.003 min

Lab File: VL042177.D

Acq: 27 Mar 2025 11:03

Instrument :

MSVOA_L

ClientSampleId :

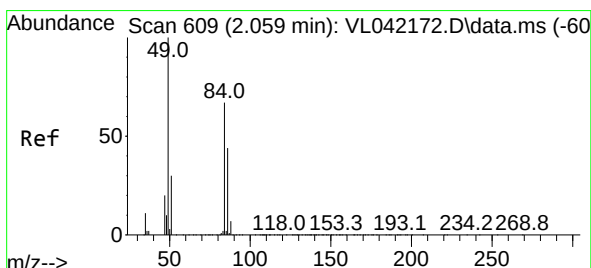
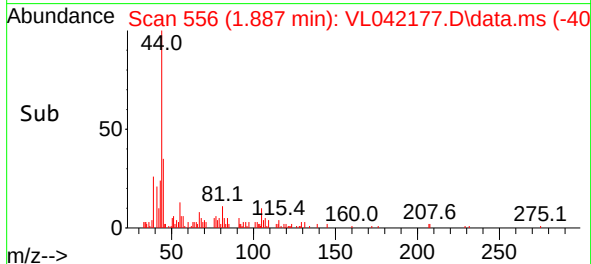
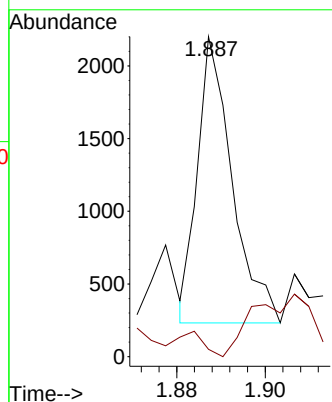
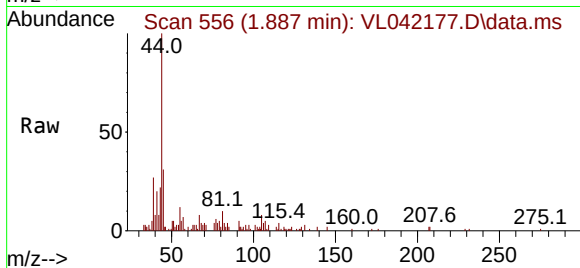
VSTDICC0.03

Tgt Ion: 45 Resp: 1071

Ion Ratio Lower Upper

45 100

58 0.0 36.9 55.3#



#20

Methylene Chloride

Concen: 0.197 ppbv

RT: 2.059 min Scan# 609

Delta R.T. -0.000 min

Lab File: VL042177.D

Acq: 27 Mar 2025 11:03

Tgt Ion: 84 Resp: 1823

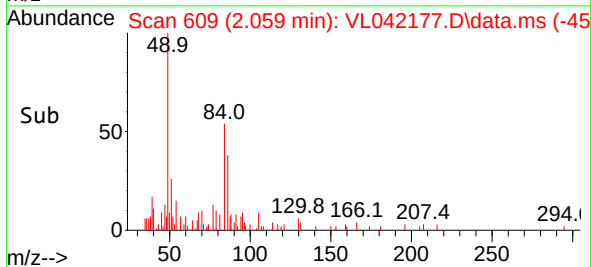
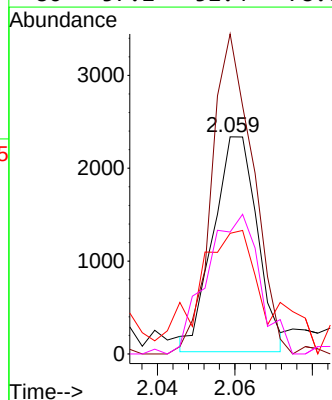
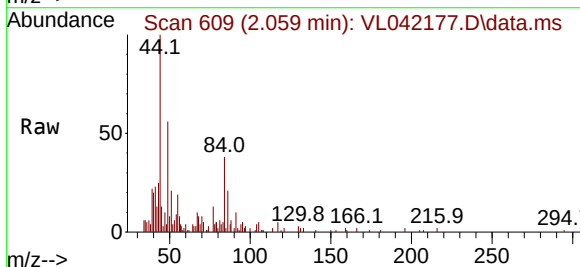
Ion Ratio Lower Upper

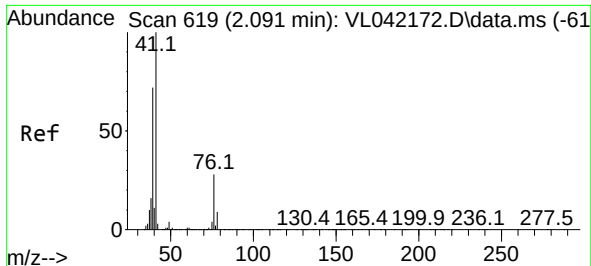
84 100

49 156.6 120.2 180.4

51 34.6 37.4 56.0#

86 57.2 52.4 78.6

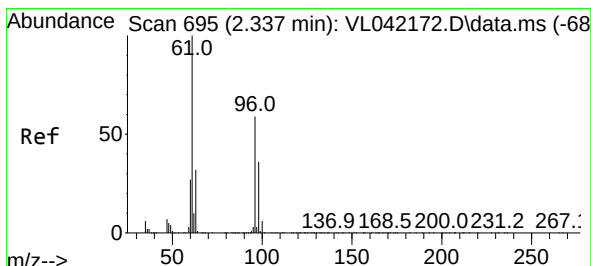
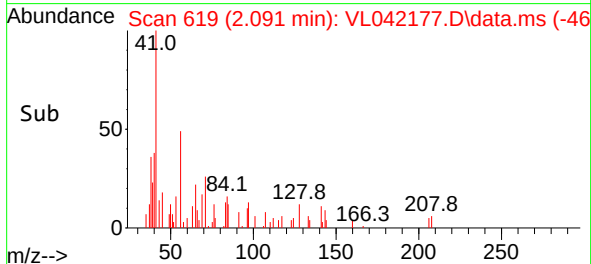
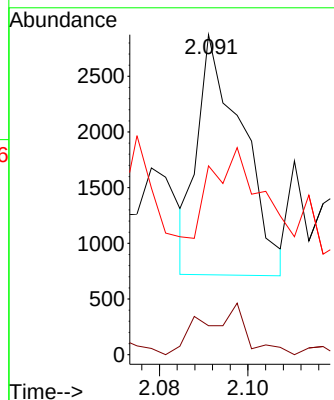
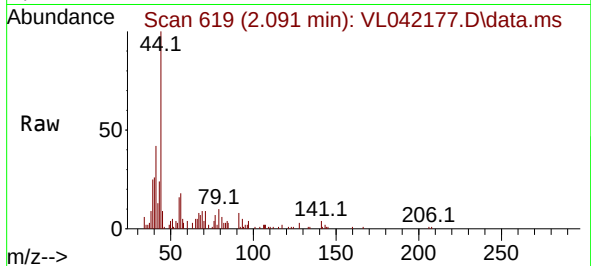




#21
 Allyl Chloride
 Concen: 0.086 ppbv
 RT: 2.091 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: VL042177.D
 Acq: 27 Mar 2025 11:03

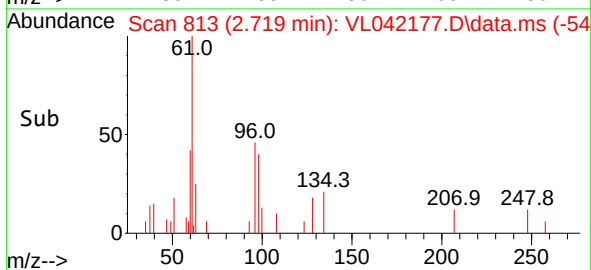
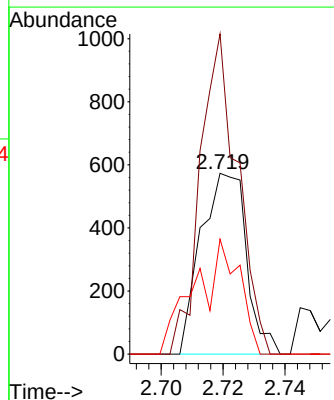
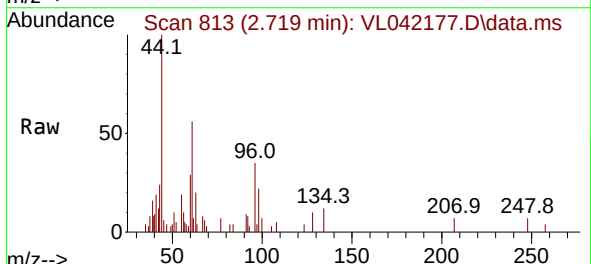
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

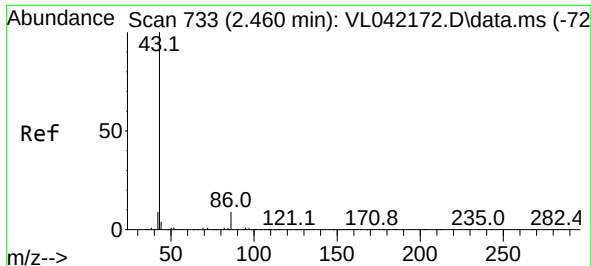
Tgt Ion: 41 Resp: 1518
 Ion Ratio Lower Upper
 41 100
 76 25.9 24.1 36.1
 39 158.8 61.1 91.7#



#22
 trans-1,2-Dichloroethene
 Concen: 0.051 ppbv
 RT: 2.719 min Scan# 813
 Delta R.T. 0.382 min
 Lab File: VL042177.D
 Acq: 27 Mar 2025 11:03

Tgt Ion: 96 Resp: 586
 Ion Ratio Lower Upper
 96 100
 61 177.1 136.6 204.8
 98 63.5 49.4 74.2

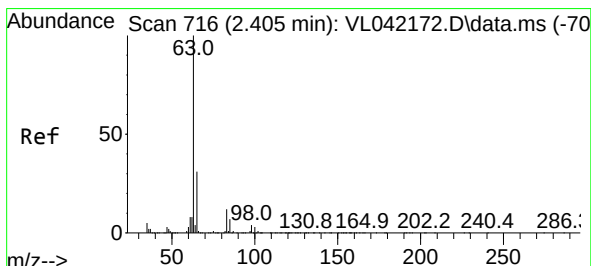
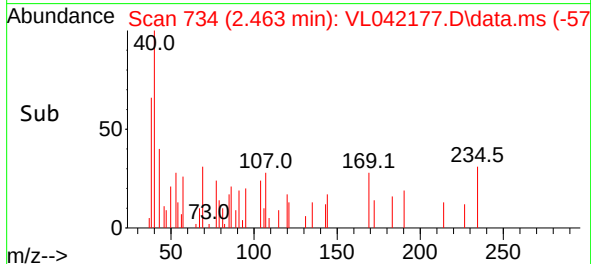
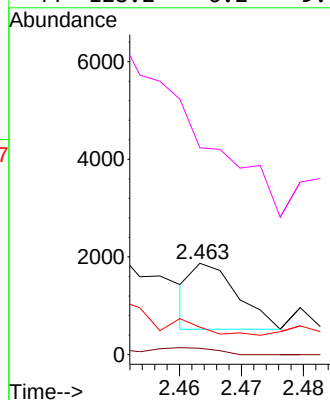
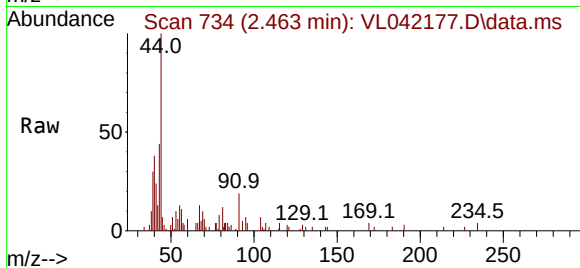




#23
Vinyl Acetate
Concen: 0.067 ppbv
RT: 2.463 min Scan# 718
Delta R.T. 0.003 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

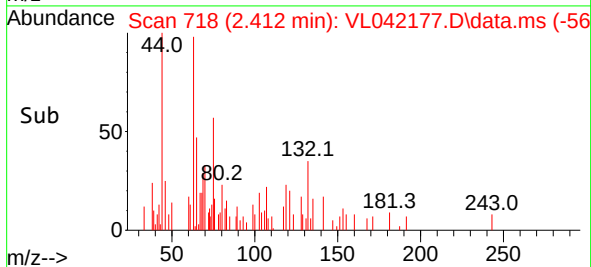
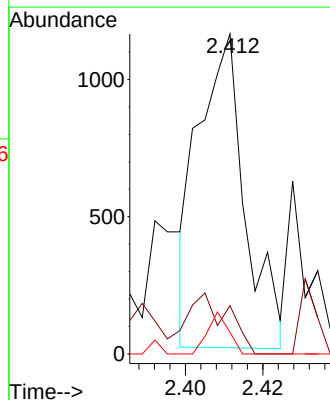
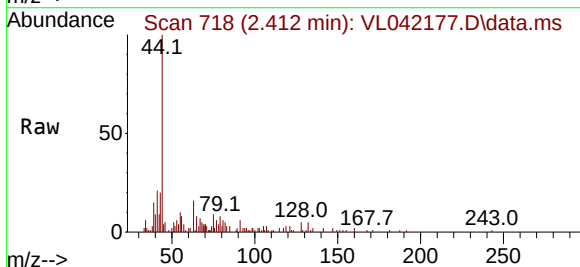
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.03

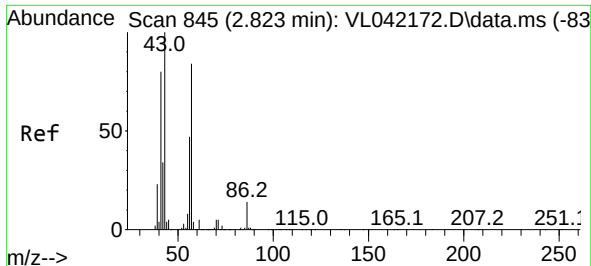
Tgt Ion:	43	Resp:	689
Ion	Ratio	Lower	Upper
43	100		
86	9.7	5.5	8.3#
42	6.8	8.6	13.0#
44	128.2	6.2	9.4#



#24
1,1-Dichloroethane
Concen: 0.046 ppbv
RT: 2.412 min Scan# 718
Delta R.T. 0.006 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

Tgt Ion:	63	Resp:	961
Ion	Ratio	Lower	Upper
63	100		
98	16.8	2.3	6.8#
100	7.6	1.6	4.7#

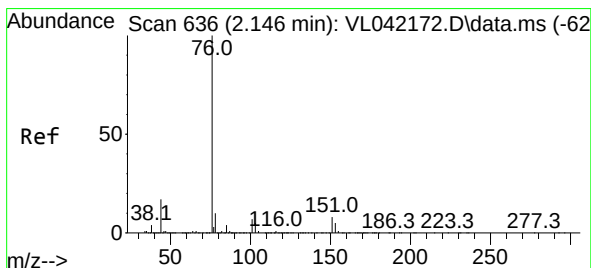
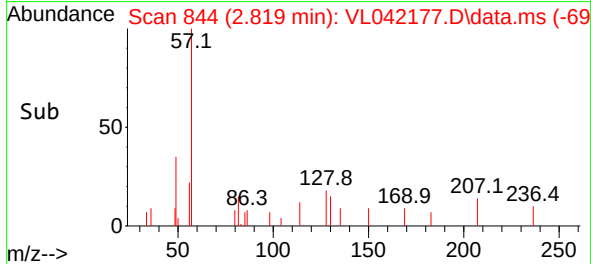
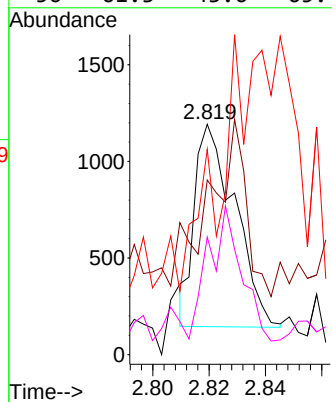
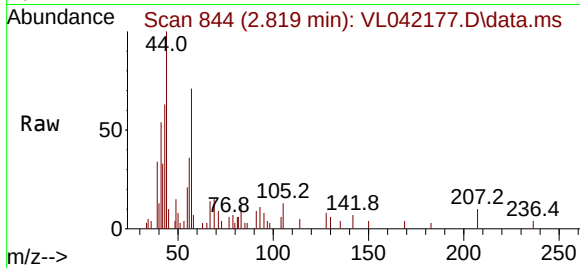




#26
Hexane
Concen: 0.042 ppbv
RT: 2.819 min Scan# 84
Delta R.T. -0.003 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

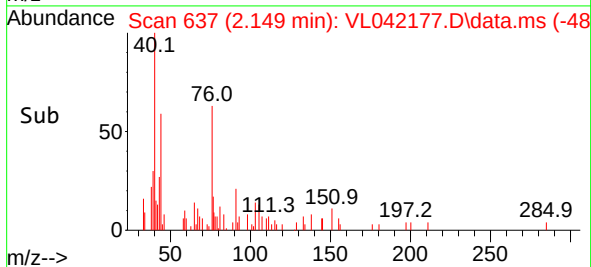
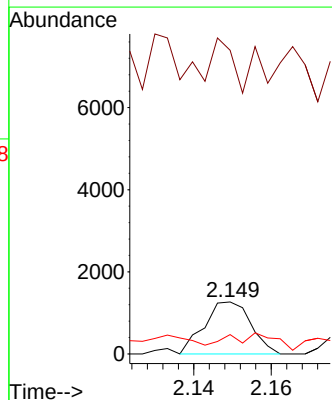
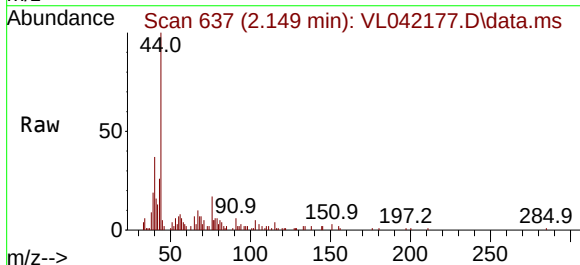
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

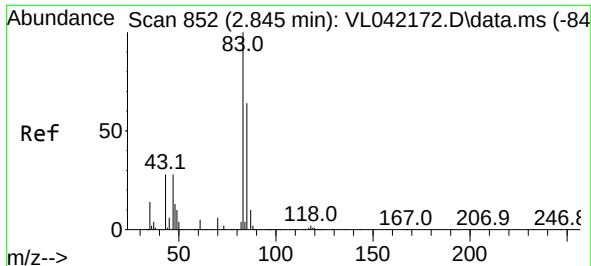
Tgt Ion: 57 Resp: 1040
Ion Ratio Lower Upper
57 100
41 179.4 76.6 114.8#
43 351.5 207.8 311.8#
56 61.3 43.6 65.4



#27
Carbon Disulfide
Concen: 0.040 ppbv
RT: 2.149 min Scan# 637
Delta R.T. 0.003 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

Tgt Ion: 76 Resp: 1061
Ion Ratio Lower Upper
76 100
44 0.0 14.7 22.1#
78 112.4 9.3 13.9#





#29

Chloroform

Concen: 0.044 ppbv

RT: 2.848 min Scan# 81

Delta R.T. 0.003 min

Lab File: VL042177.D

Acq: 27 Mar 2025 11:03

Instrument :

MSVOA_L

ClientSampleId :

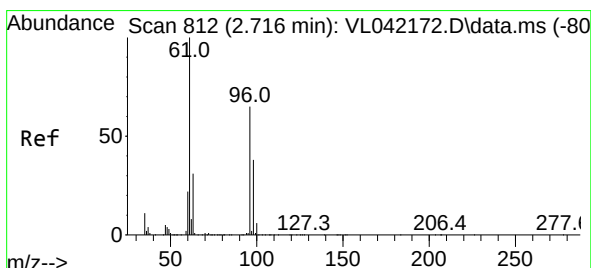
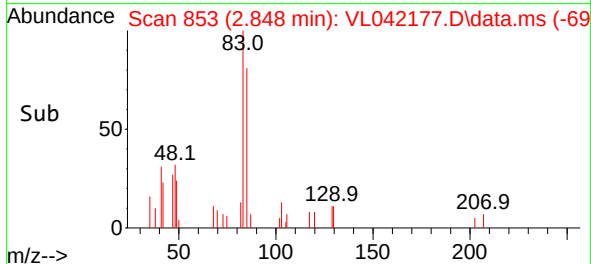
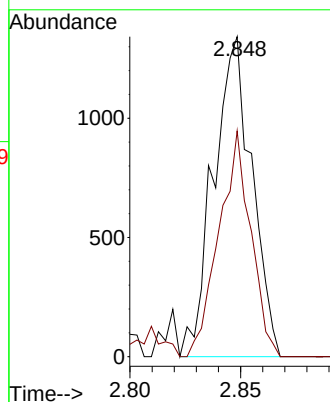
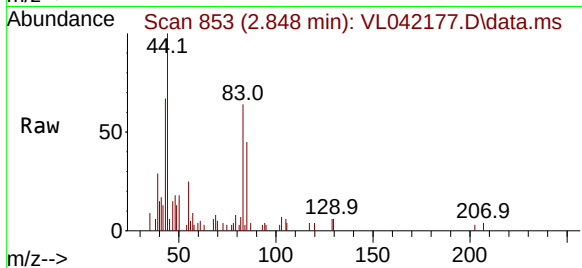
VSTDIC0.03

Tgt Ion: 83 Resp: 1619

Ion Ratio Lower Upper

83 100

85 70.6 51.4 77.2



#31

cis-1,2-Dichloroethene

Concen: 0.033 ppbv

RT: 2.719 min Scan# 813

Delta R.T. 0.003 min

Lab File: VL042177.D

Acq: 27 Mar 2025 11:03

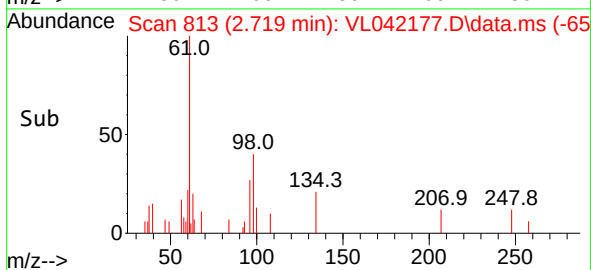
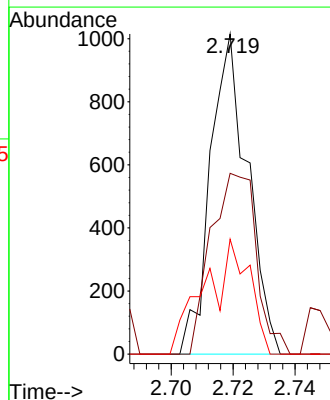
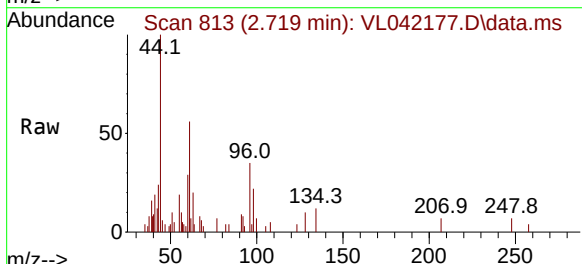
Tgt Ion: 61 Resp: 846

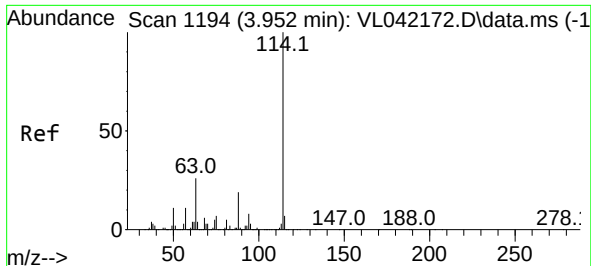
Ion Ratio Lower Upper

61 100

96 56.5 51.8 77.8

98 35.9 30.6 46.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.955 min Scan# 1195

Delta R.T. 0.003 min

Lab File: VL042177.D

Acq: 27 Mar 2025 11:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.03

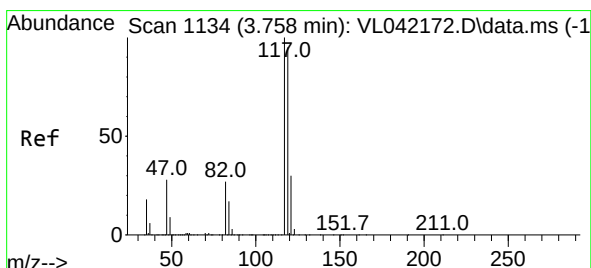
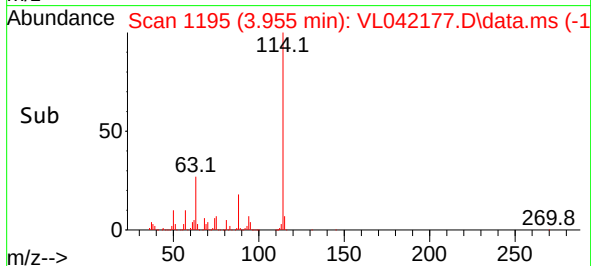
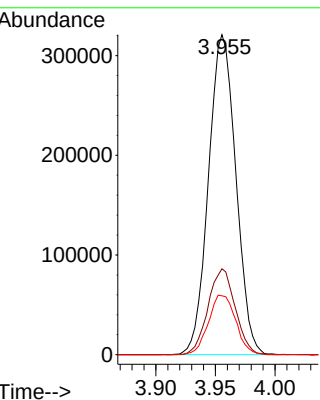
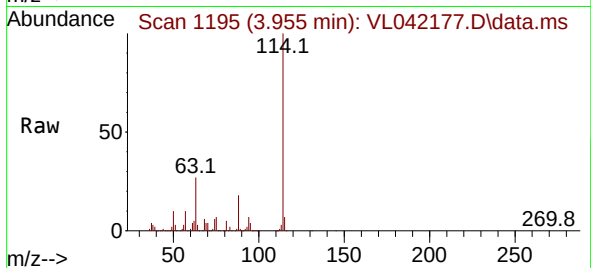
Tgt Ion:114 Resp: 512915

Ion Ratio Lower Upper

114 100

63 26.6 20.7 31.1

88 18.6 15.0 22.4



#35

Carbon Tetrachloride

Concen: 0.039 ppbv

RT: 3.758 min Scan# 1134

Delta R.T. -0.000 min

Lab File: VL042177.D

Acq: 27 Mar 2025 11:03

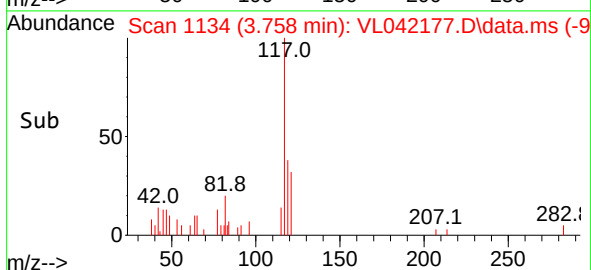
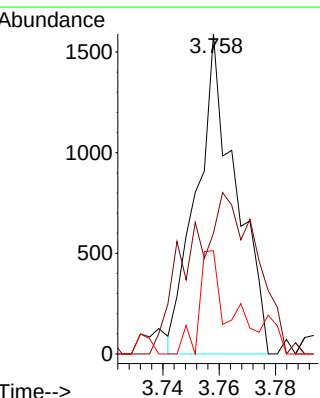
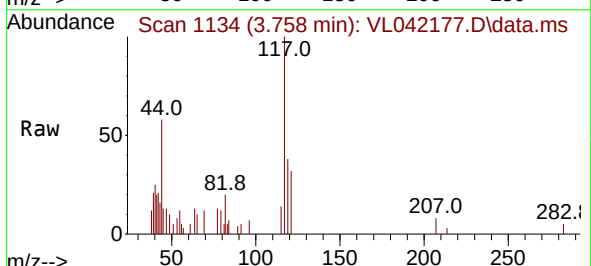
Tgt Ion:117 Resp: 1520

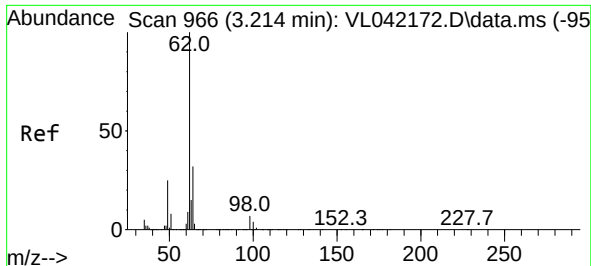
Ion Ratio Lower Upper

117 100

119 22.1 76.2 114.2#

121 32.3 24.2 36.4





#37

1,2-Dichloroethane

Concen: 0.035 ppbv

RT: 3.214 min Scan# 9

Delta R.T. -0.000 min

Lab File: VL042177.D

Acq: 27 Mar 2025 11:03

Instrument :

MSVOA_1

ClientSampleId :

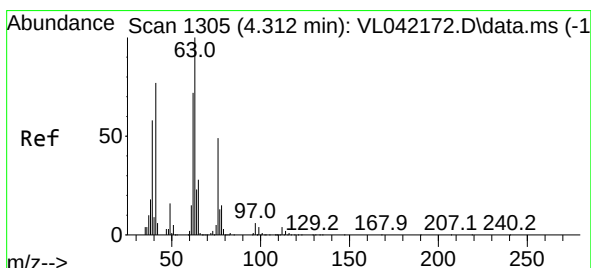
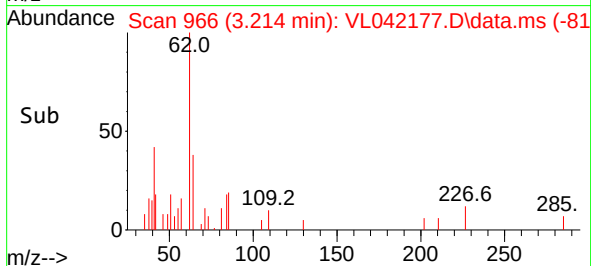
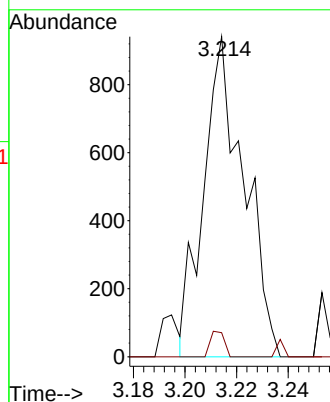
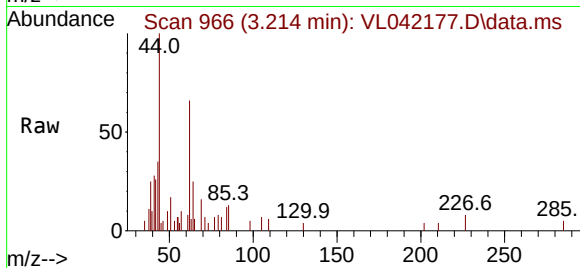
VSTDICC0.03

Tgt Ion: 62 Resp: 1029

Ion Ratio Lower Upper

62 100

98 2.7 5.4 8.2#



#39

1,2-Dichloropropane

Concen: 7.372 ppbv

RT: 3.955 min Scan# 1195

Delta R.T. -0.356 min

Lab File: VL042177.D

Acq: 27 Mar 2025 11:03

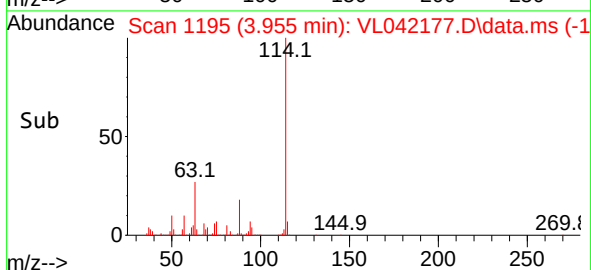
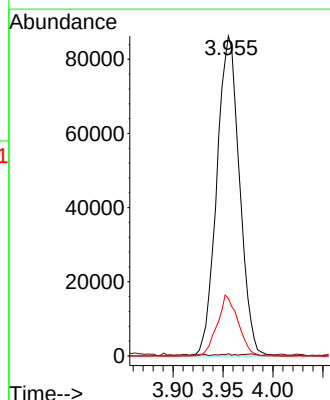
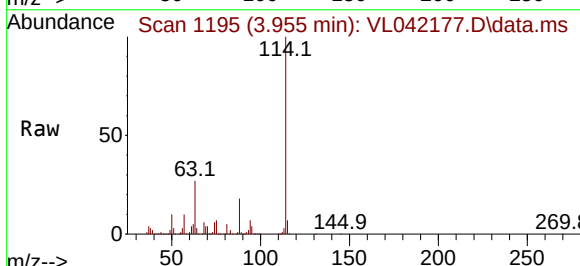
Tgt Ion: 63 Resp: 136518

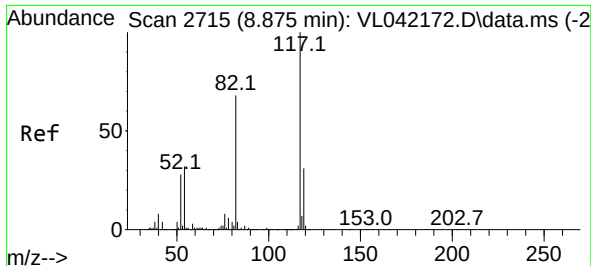
Ion Ratio Lower Upper

63 100

41 0.4 61.7 92.5#

62 18.0 57.6 86.4#

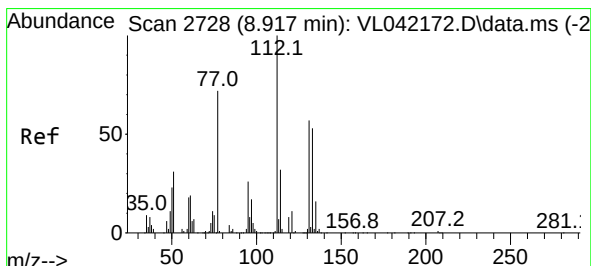
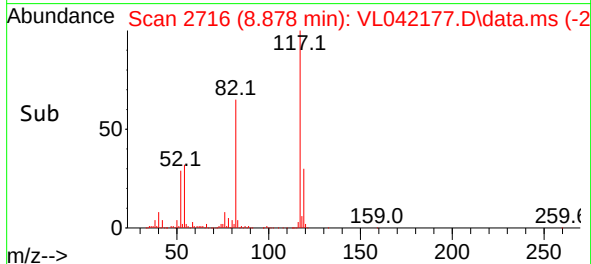
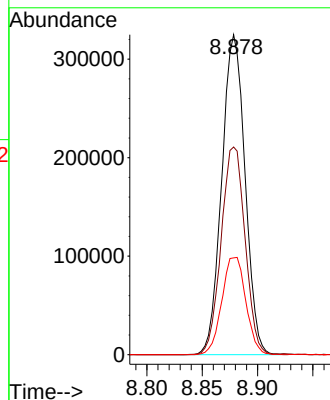
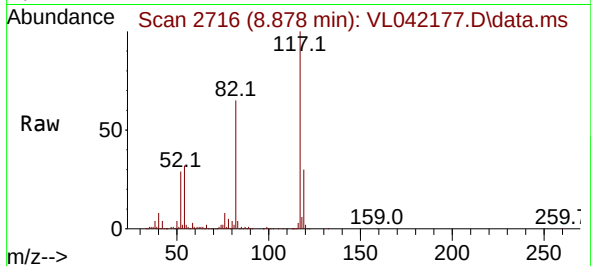




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

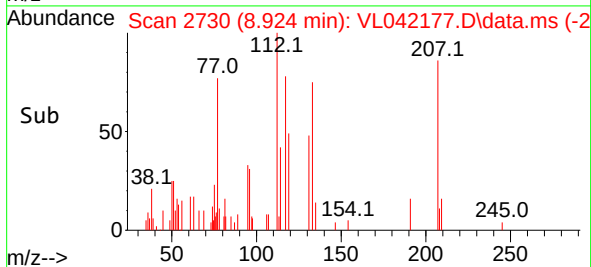
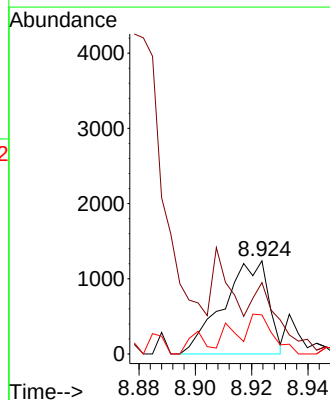
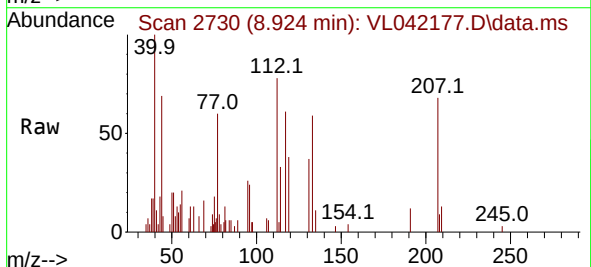
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.03

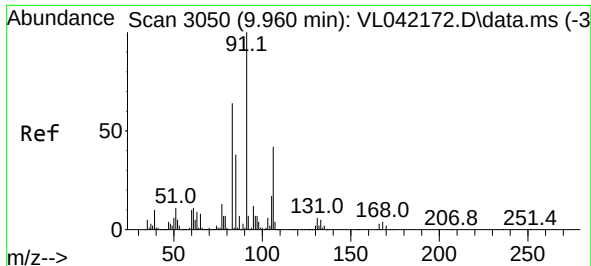
Tgt Ion:	117	Resp:	475617
Ion	Ratio	Lower	Upper
117	100		
82	66.7	55.8	83.6
119	31.5	25.5	38.3



#57
Chlorobenzene
Concen: 0.031 ppbv
RT: 8.924 min Scan# 2730
Delta R.T. 0.006 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

Tgt Ion:	112	Resp:	1382
Ion	Ratio	Lower	Upper
112	100		
77	32.1	58.2	87.2#
114	41.8	29.1	35.5#

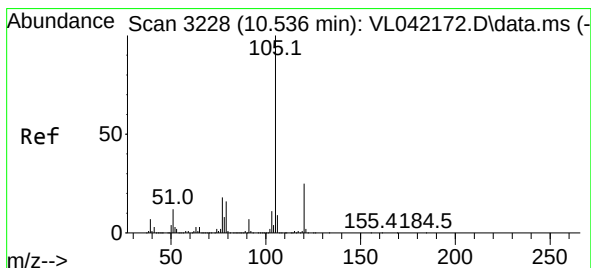
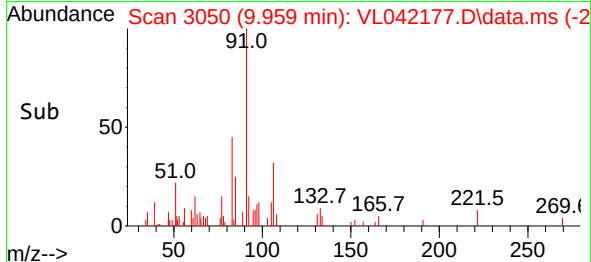
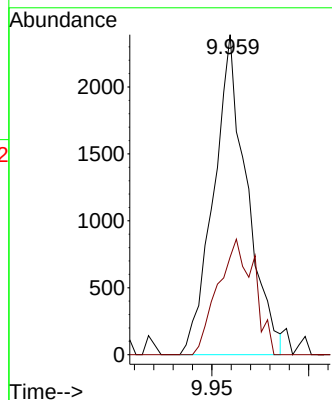
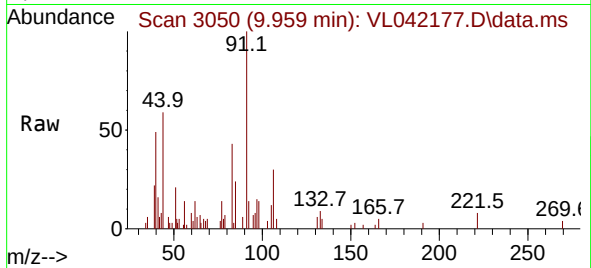




#60
o-Xylene
Concen: 0.042 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.000 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

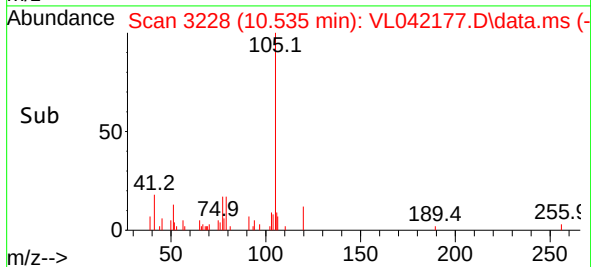
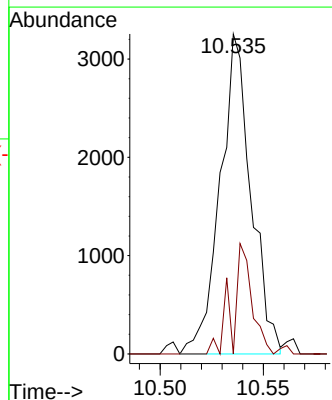
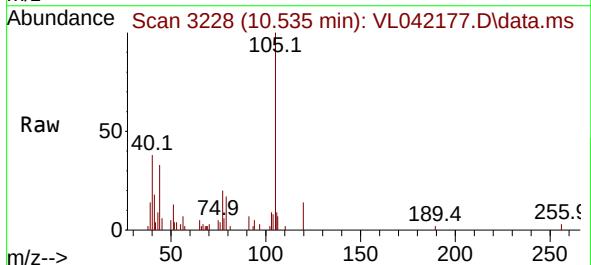
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.03

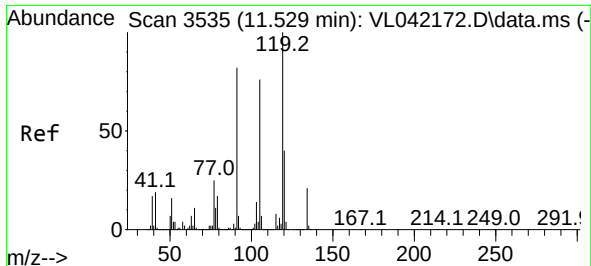
Tgt Ion: 91 Resp: 2844
Ion Ratio Lower Upper
91 100
106 39.4 20.8 62.5



#62
Isopropylbenzene
Concen: 0.033 ppbv
RT: 10.535 min Scan# 3228
Delta R.T. -0.000 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

Tgt Ion: 105 Resp: 3380
Ion Ratio Lower Upper
105 100
120 22.3 19.9 29.9

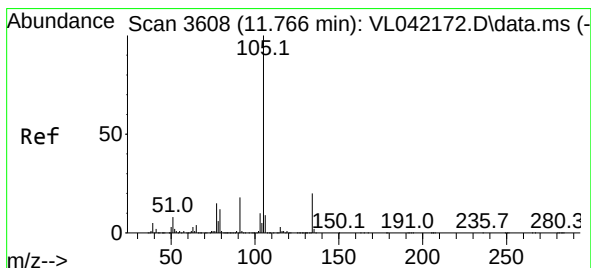
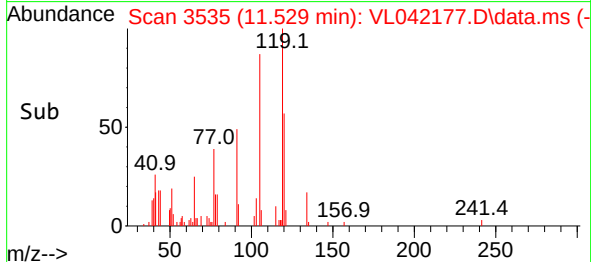
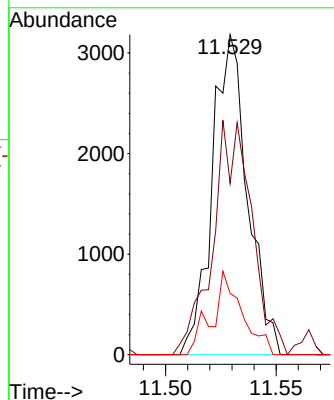
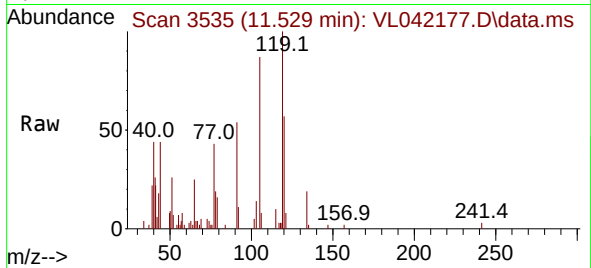




#65
tert-Butylbenzene
Concen: 0.038 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. -0.000 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

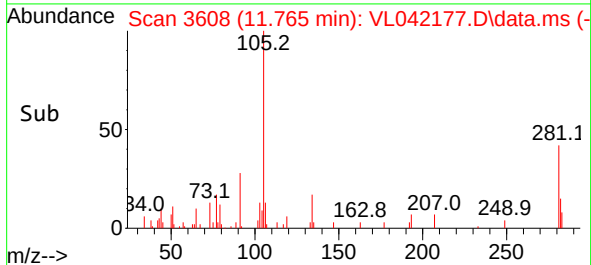
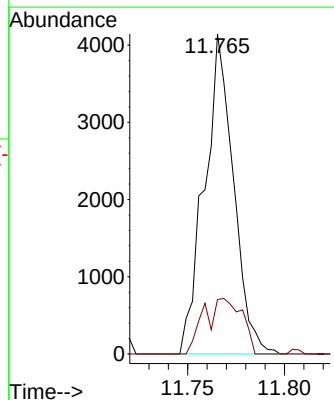
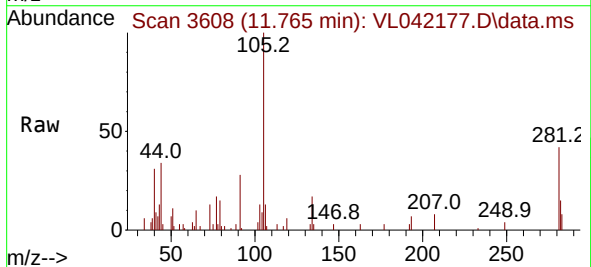
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

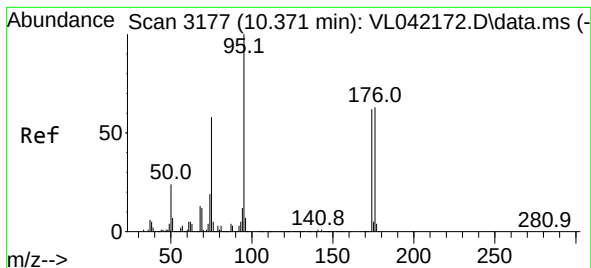
Tgt Ion:	119	Resp:	3543
Ion	Ratio	Lower	Upper
119	100		
91	83.5	66.0	99.0
134	22.4	16.7	25.1



#67
sec-Butylbenzene
Concen: 0.033 ppbv
RT: 11.765 min Scan# 3608
Delta R.T. -0.000 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

Tgt Ion:	105	Resp:	4317
Ion	Ratio	Lower	Upper
105	100		
134	22.8	15.5	23.3

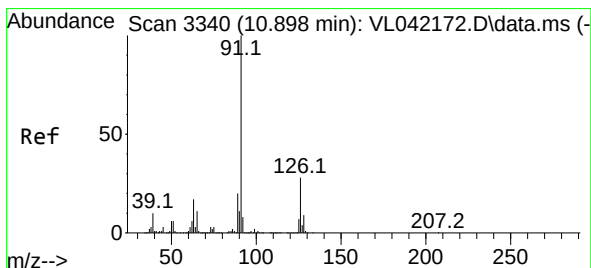
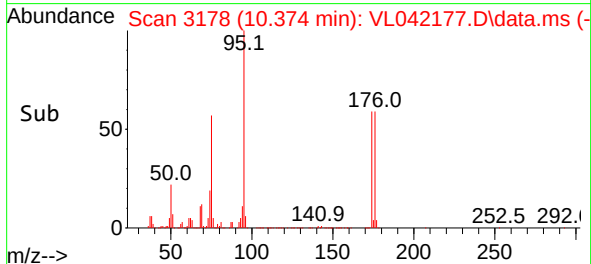
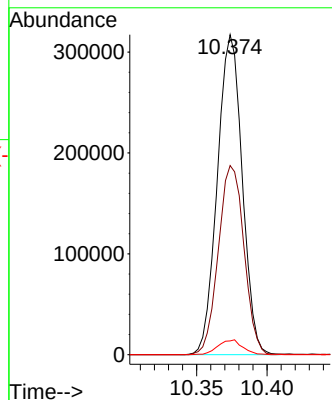
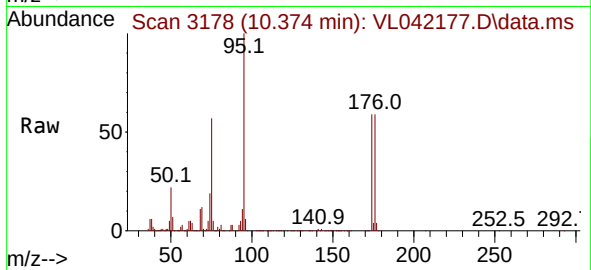




#68
1-Bromo-4-Fluorobenzene
Concen: 9.983 ppbv
RT: 10.374 min Scan# 3177
Delta R.T. 0.003 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

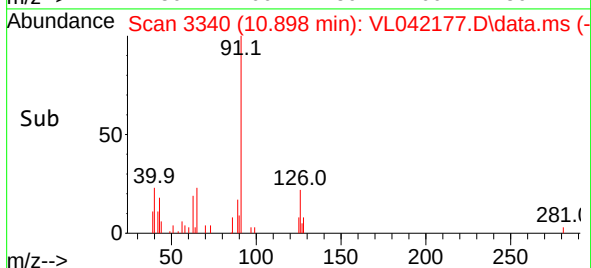
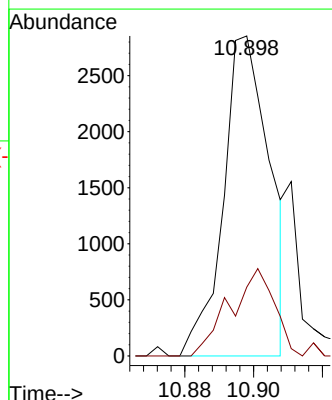
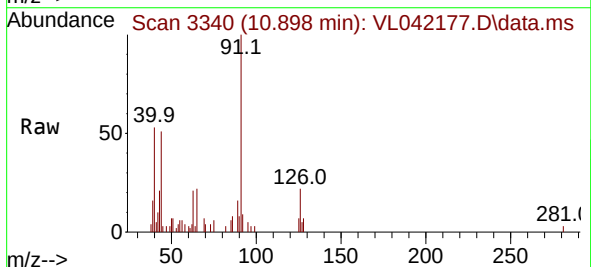
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

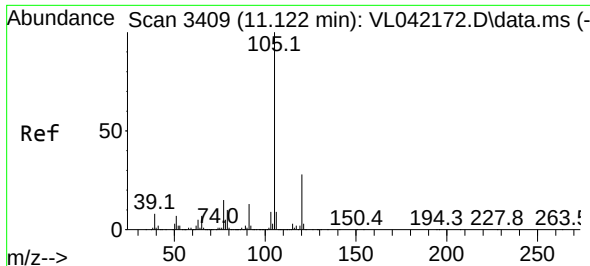
Tgt Ion: 95 Resp: 389935
Ion Ratio Lower Upper
95 100
174 61.2 50.6 76.0
175 4.6 3.8 5.6



#71
2-Chlorotoluene
Concen: 0.034 ppbv
RT: 10.898 min Scan# 3340
Delta R.T. -0.000 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

Tgt Ion: 91 Resp: 2666
Ion Ratio Lower Upper
91 100
126 27.2 11.6 46.4

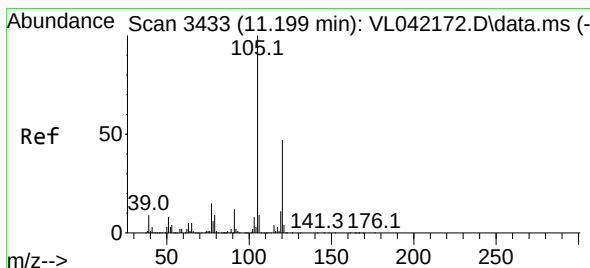
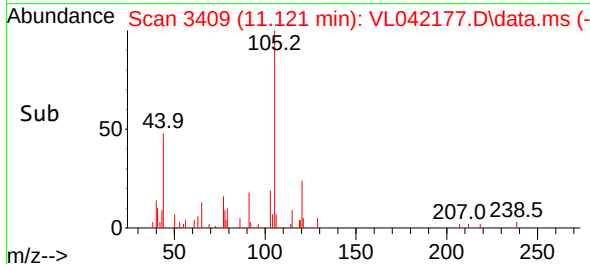
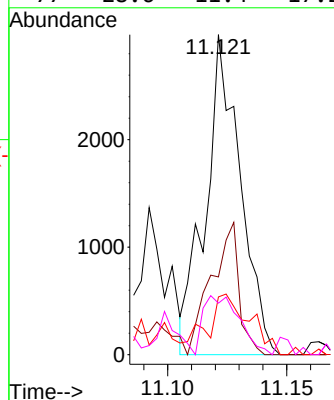
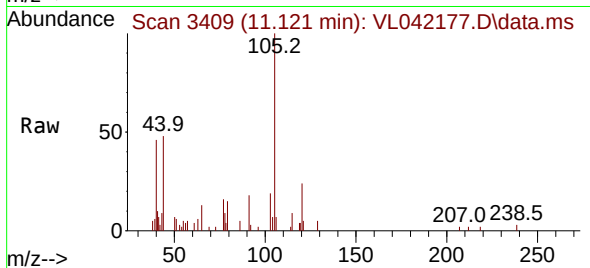




#72
4-Ethyltoluene
Concen: 0.036 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.000 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

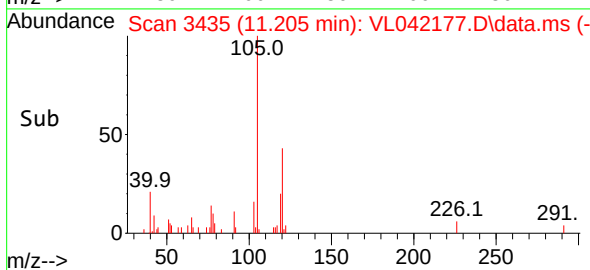
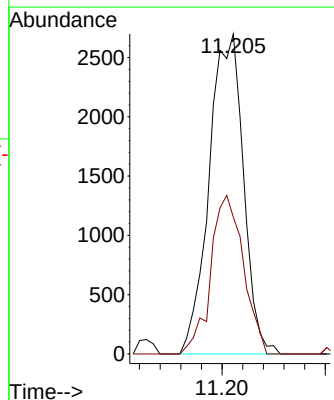
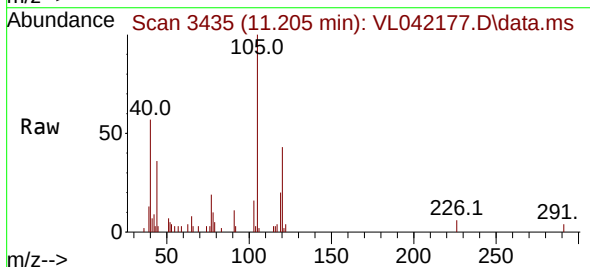
Instrument :
MSVOA_L
ClientSampleId :
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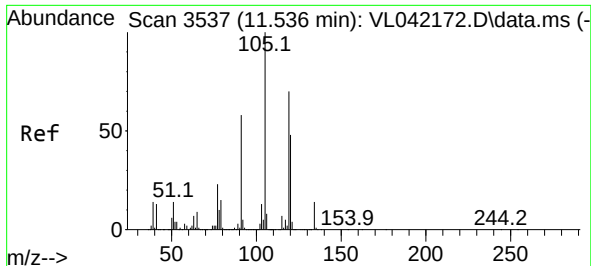
Tgt Ion:	105	Resp:	3017
Ion	Ratio	Lower	Upper
105	100		
120	44.5	23.4	35.0#
91	34.0	10.3	15.5#
77	28.6	11.4	17.2#



#73
1,3,5-Trimethylbenzene
Concen: 0.042 ppbv
RT: 11.205 min Scan# 3435
Delta R.T. 0.006 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

Tgt Ion:	105	Resp:	3101
Ion	Ratio	Lower	Upper
105	100		
120	42.8	37.4	56.0

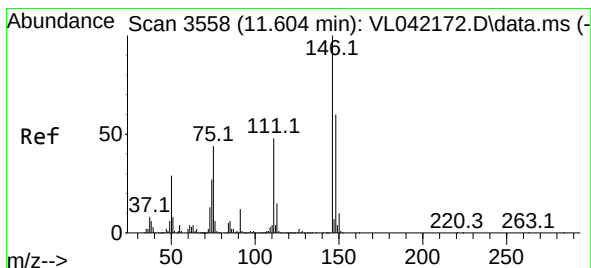
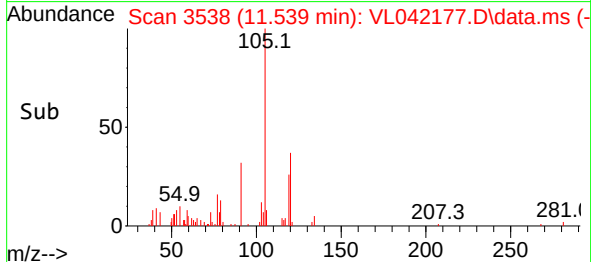
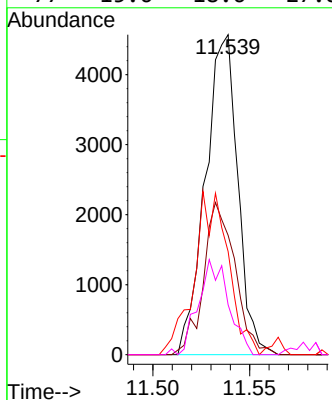
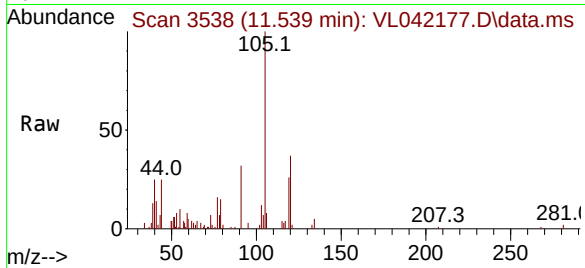




#74
1,2,4-Trimethylbenzene
Concen: 0.063 ppbv
RT: 11.539 min Scan# 3537
Delta R.T. 0.003 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

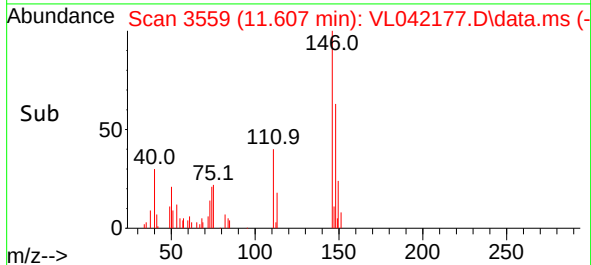
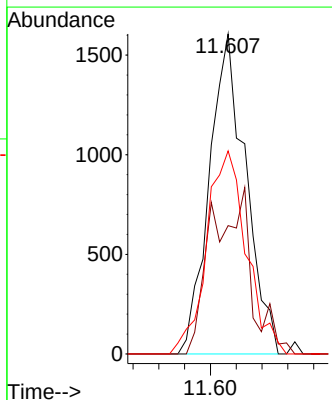
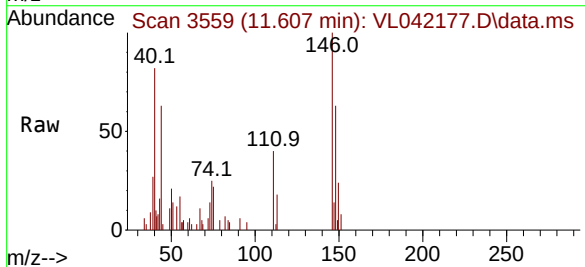
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.03

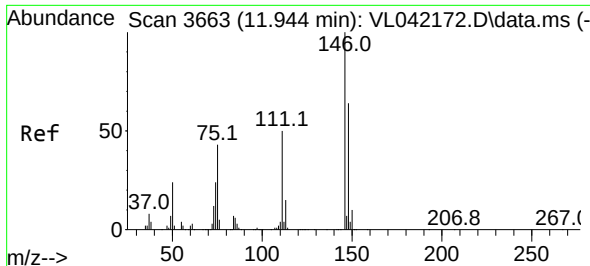
Tgt Ion:	105	Resp:	5313
Ion	Ratio	Lower	Upper
105	100		
120	37.3	38.6	58.0#
91	26.8	46.2	69.2#
77	15.6	18.6	27.8#



#75
1,3-Dichlorobenzene
Concen: 0.034 ppbv
RT: 11.607 min Scan# 3559
Delta R.T. 0.003 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

Tgt Ion:	146	Resp:	1577
Ion	Ratio	Lower	Upper
146	100		
111	56.6	23.8	71.2
148	69.2	31.9	95.9

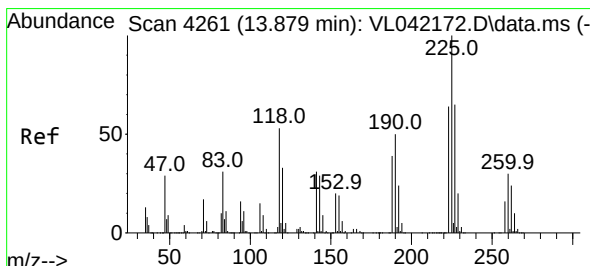
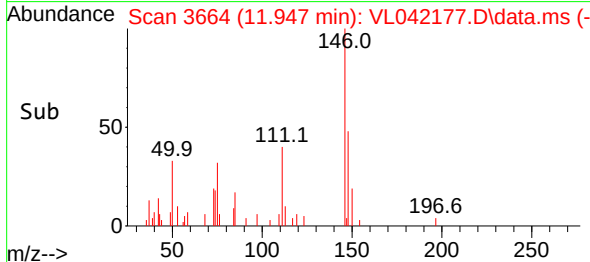
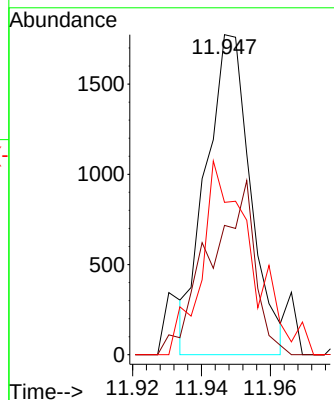
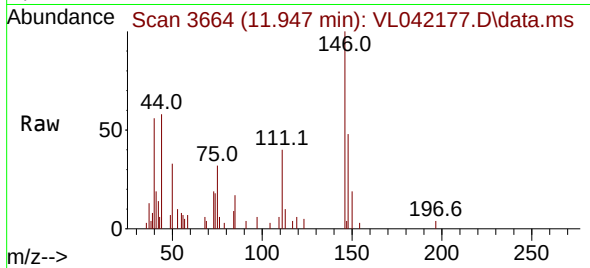




#77
1,2-Dichlorobenzene
Concen: 0.035 ppbv
RT: 11.947 min Scan# 3664
Delta R.T. 0.003 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

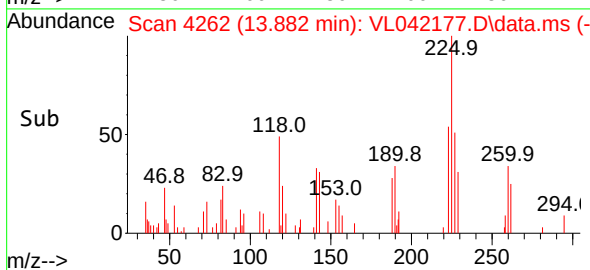
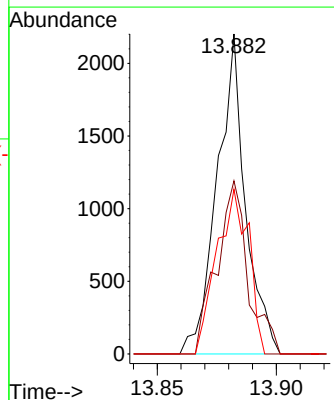
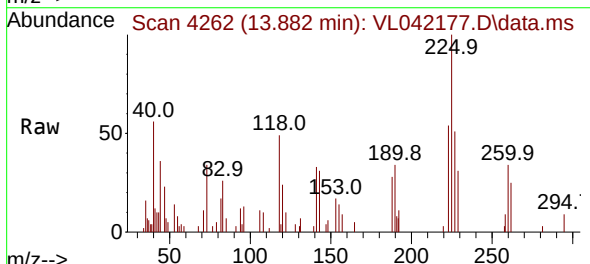
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

Tgt Ion:	146	Resp:	1591
Ion Ratio	Lower	Upper	
146	100		
111	55.6	24.8	74.3
148	68.3	31.6	94.8



#78
Hexachloro-1,3-Butadiene
Concen: 0.040 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. 0.003 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

Tgt Ion:	225	Resp:	1821
Ion Ratio	Lower	Upper	
225	100		
223	59.6	50.6	76.0
227	58.0	51.2	76.8



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 26 06:05:16 2022
 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	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 : VSTDIC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

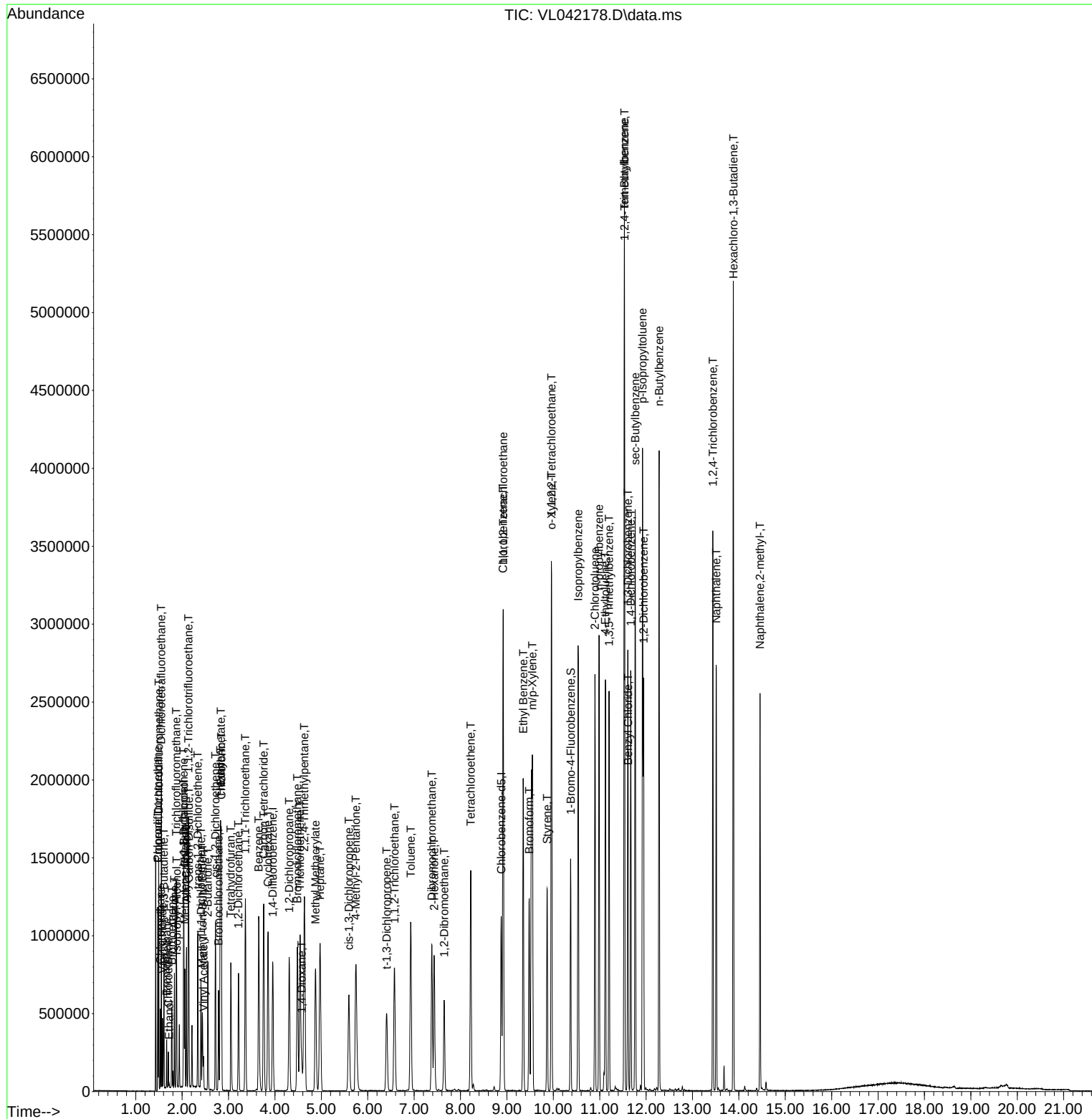
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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 01:31:23 2025
 Response via : Initial Calibration

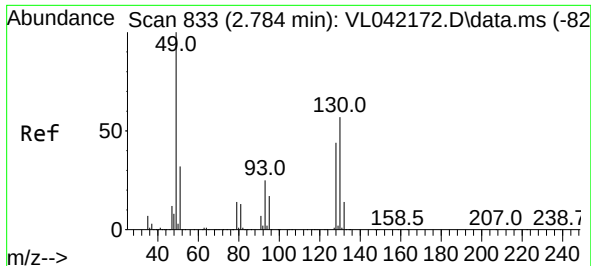
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	400813	14.542	ppbv	98
47) 1,1,2-Trichloroethane	6.577	97	273137	14.331	ppbv	98
48) Dibromochloromethane	7.383	129	482431	14.936	ppbv	100
49) Bromoform	9.480	173	427143	14.730	ppbv	99
50) 4-Methyl-2-Pentanone	5.745	43	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	866684	12.901	ppbv #	22
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

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_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration

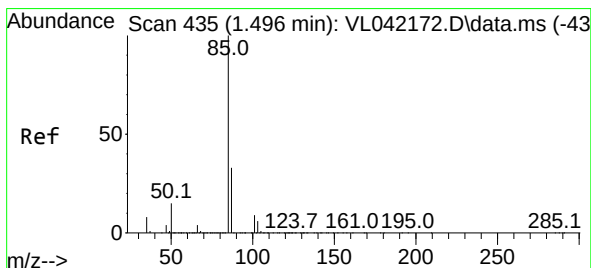
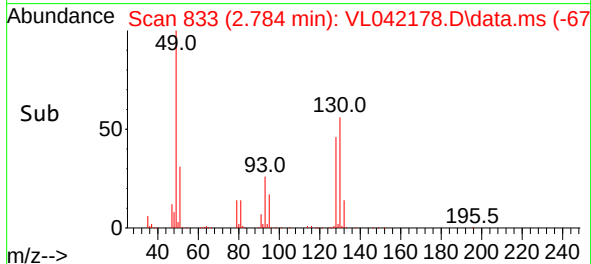
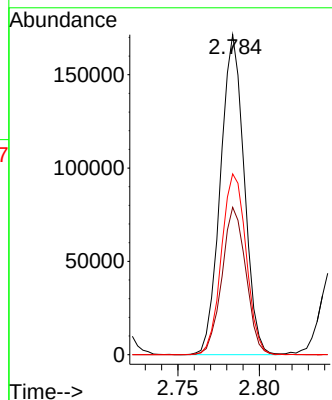
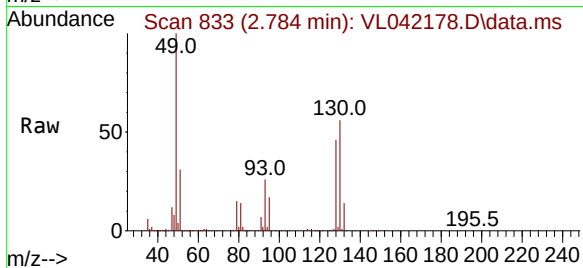




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

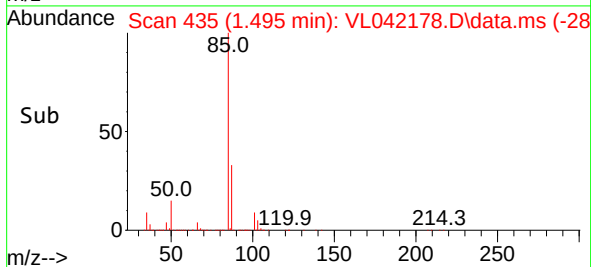
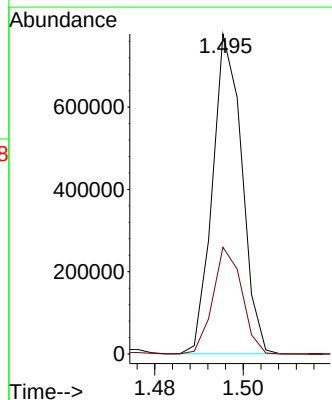
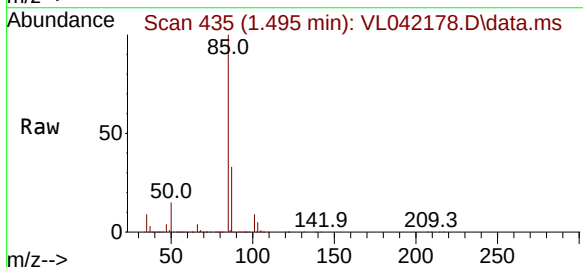
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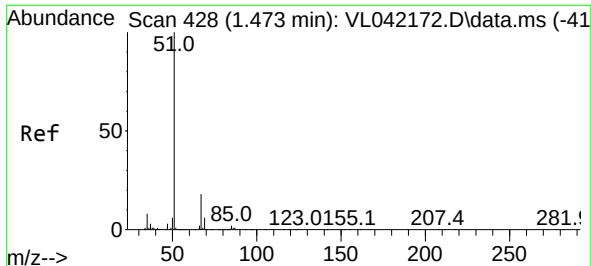
Tgt Ion: 49 Resp: 173372
Ion Ratio Lower Upper
49 100
128 46.4 22.9 68.5
130 58.7 28.8 86.4



#2
Dichlorodifluoromethane
Concen: 14.023 ppbv
RT: 1.495 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 85 Resp: 358962
Ion Ratio Lower Upper
85 100
87 33.4 26.1 39.1

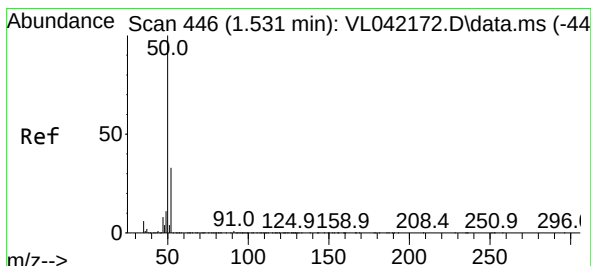
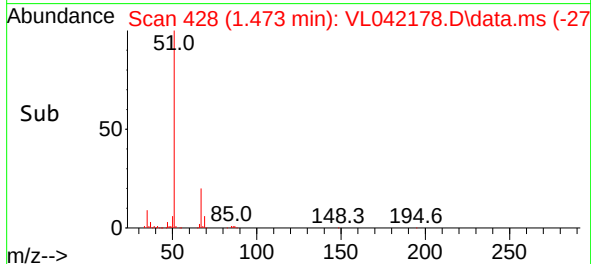
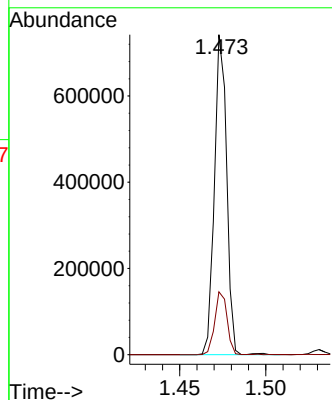
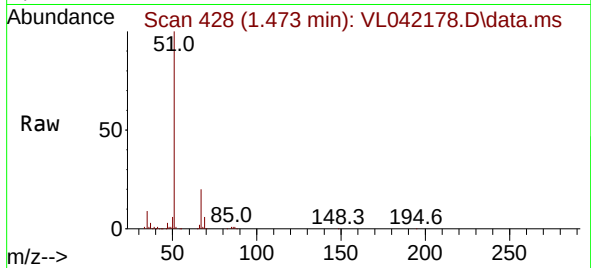




#3
Chlorodifluoromethane
Concen: 14.002 ppbv
RT: 1.473 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

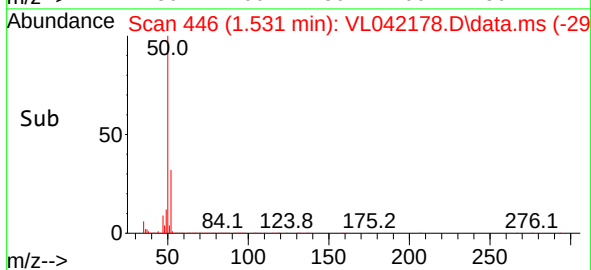
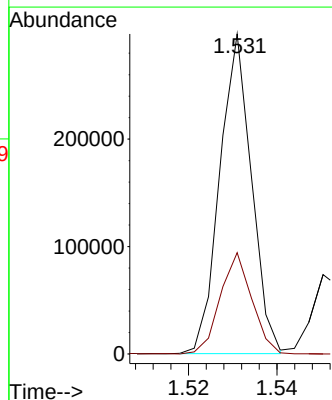
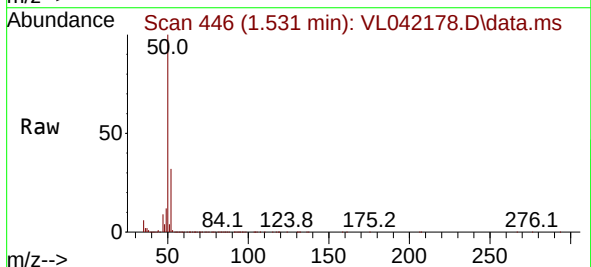
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

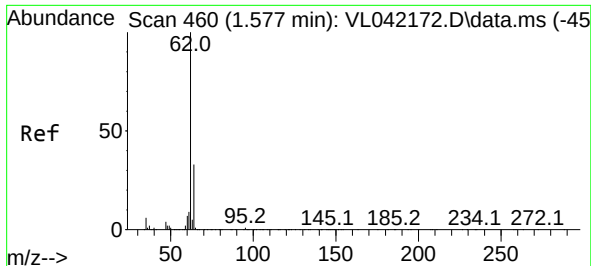
Tgt Ion: 51 Resp: 366164
Ion Ratio Lower Upper
51 100
67 19.8 15.0 22.6



#4
Chloromethane
Concen: 14.160 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 50 Resp: 148133
Ion Ratio Lower Upper
50 100
52 31.6 26.1 39.1

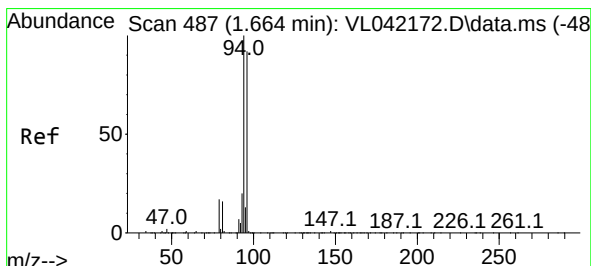
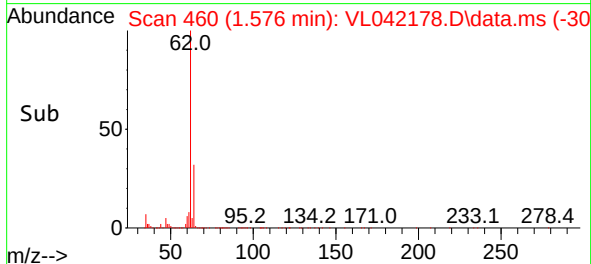
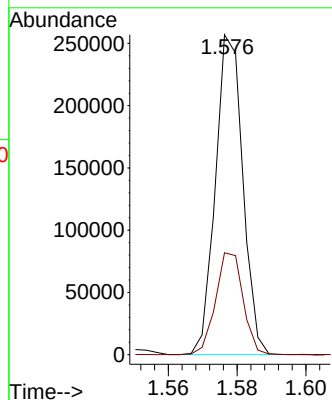
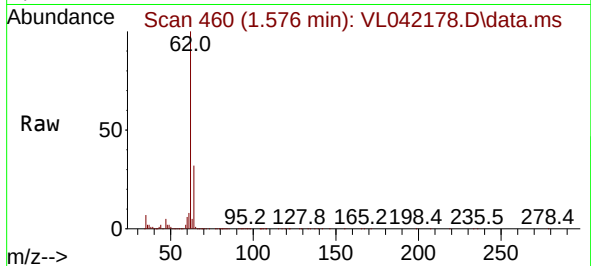




#5
Vinyl Chloride
Concen: 13.304 ppbv
RT: 1.576 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

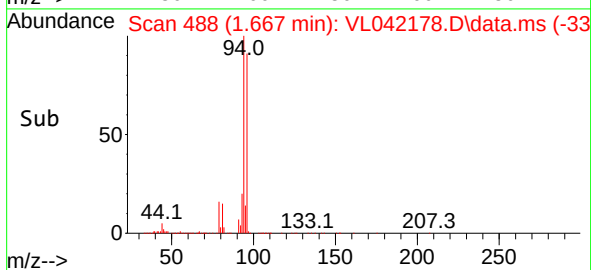
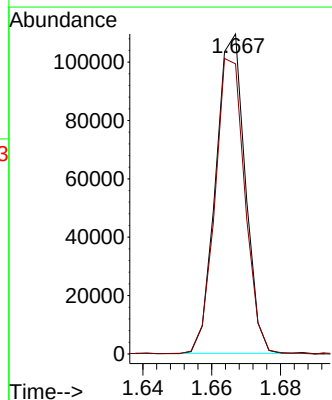
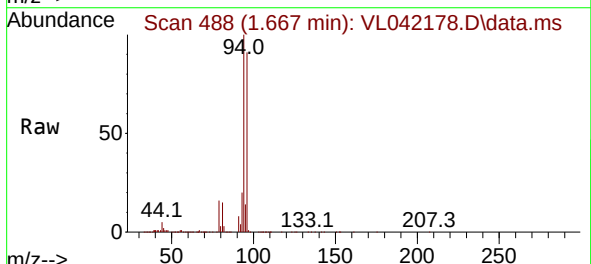
Instrument :
MSVOA_1
ClientSampleId :
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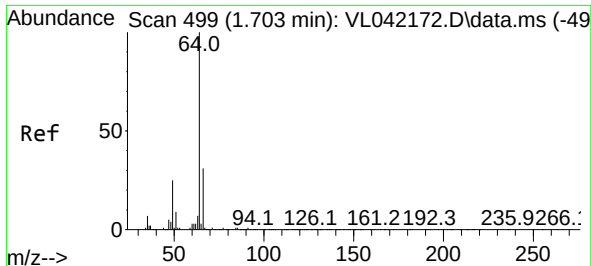
Tgt Ion: 62 Resp: 141938
Ion Ratio Lower Upper
62 100
64 31.9 26.6 40.0



#6
Bromomethane
Concen: 13.734 ppbv
RT: 1.667 min Scan# 488
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 94 Resp: 65113
Ion Ratio Lower Upper
94 100
96 90.7 73.1 109.7

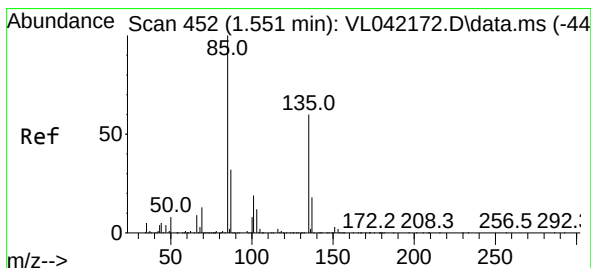
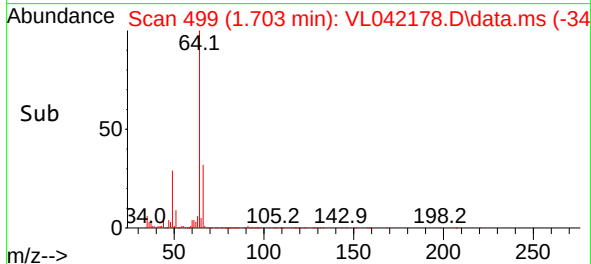
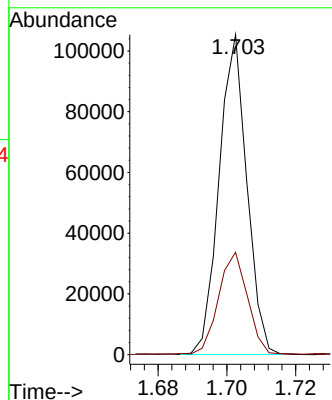
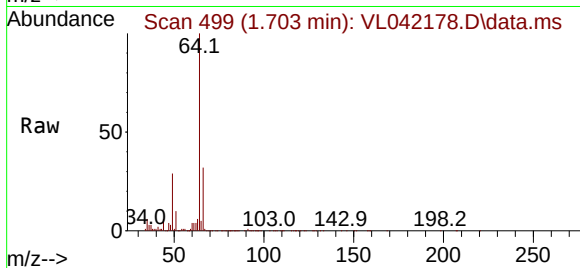




#7
Chloroethane
Concen: 14.007 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

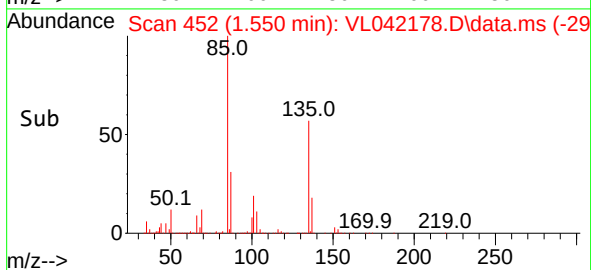
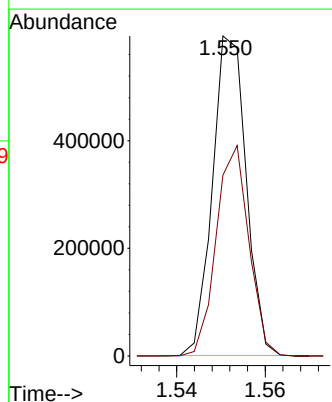
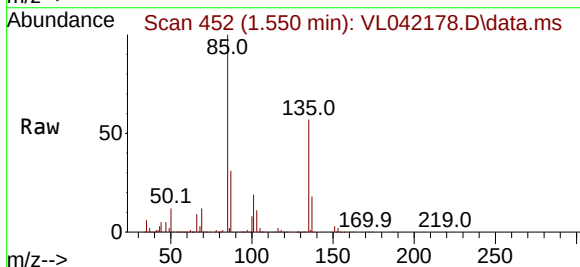
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

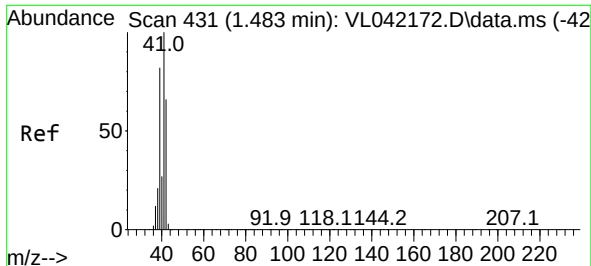
Tgt Ion: 64 Resp: 58820
Ion Ratio Lower Upper
64 100
66 32.0 25.2 37.8



#8
Dichlorotetrafluoroethane
Concen: 14.442 ppbv
RT: 1.550 min Scan# 452
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 85 Resp: 314834
Ion Ratio Lower Upper
85 100
135 63.8 52.4 78.6

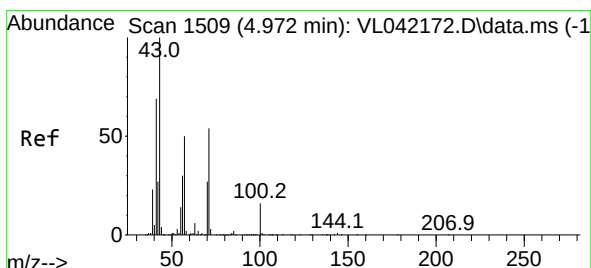
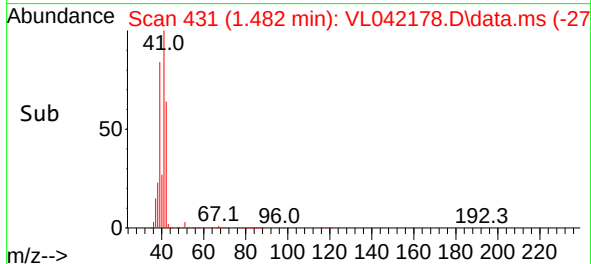
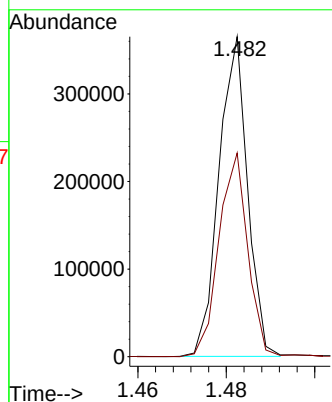
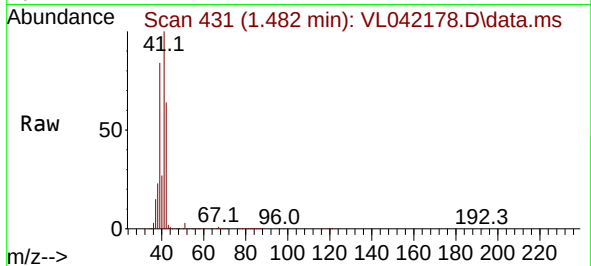




#9
Propene
Concen: 13.902 ppbv
RT: 1.482 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

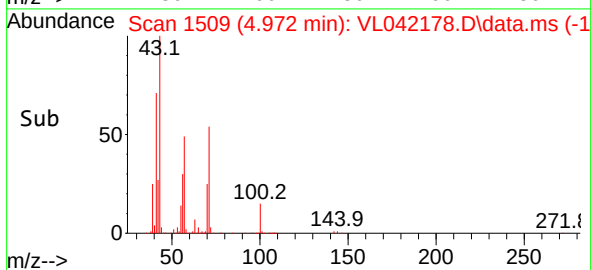
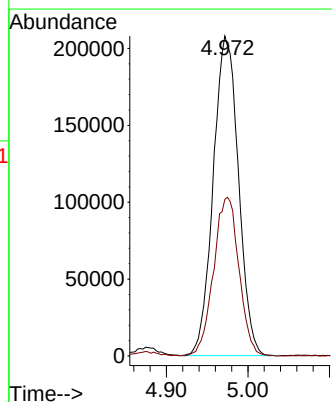
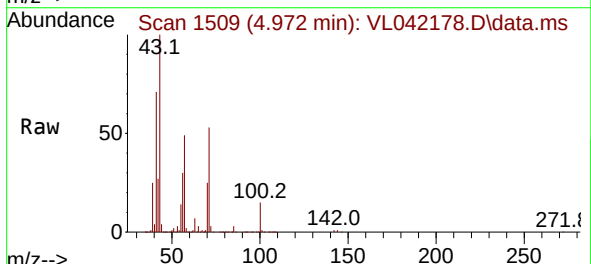
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

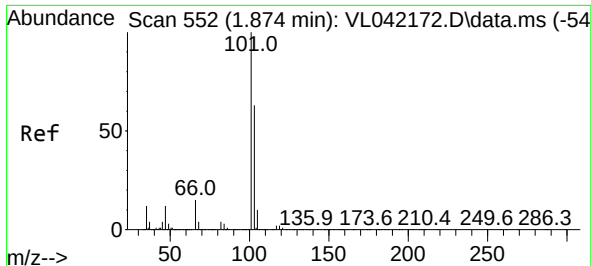
Tgt Ion: 41 Resp: 163799
Ion Ratio Lower Upper
41 100
42 65.3 55.4 83.2



#10
Heptane
Concen: 14.019 ppbv
RT: 4.972 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 43 Resp: 446949
Ion Ratio Lower Upper
43 100
57 49.9 39.4 59.2

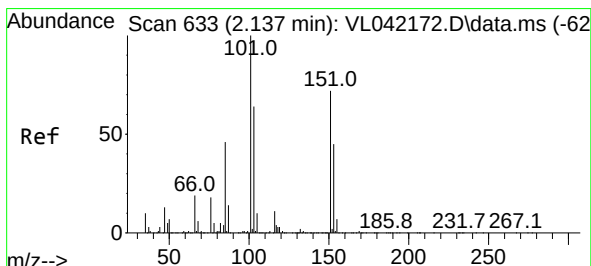
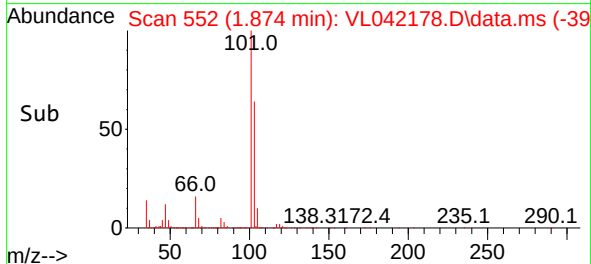
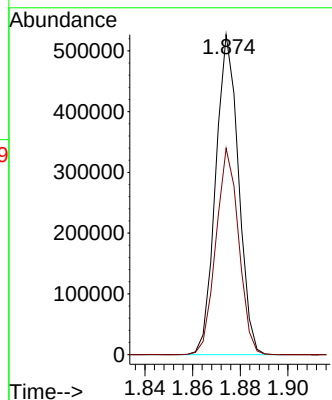
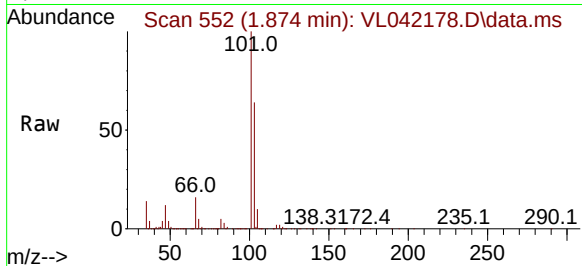




#11
Trichlorofluoromethane
Concen: 14.050 ppbv
RT: 1.874 min Scan# 511
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

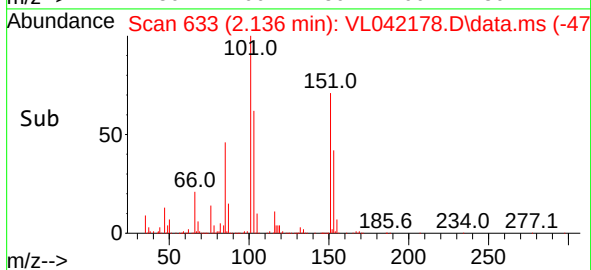
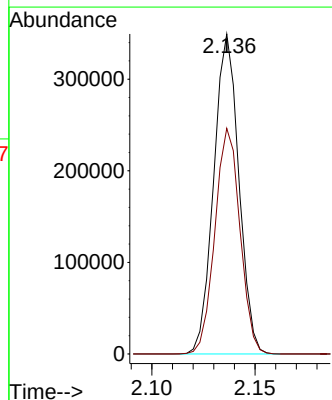
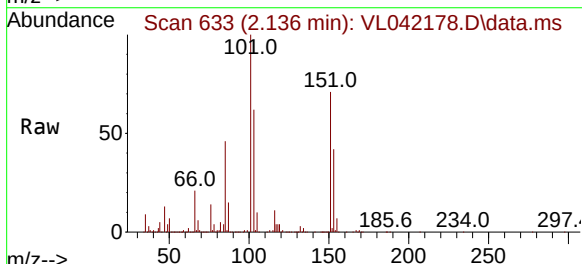
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

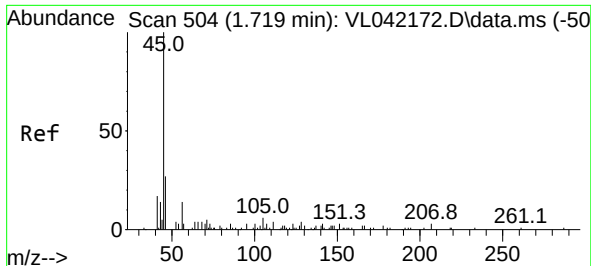
Tgt Ion:101 Resp: 349967
Ion Ratio Lower Upper
101 100
103 64.5 50.2 75.2



#12
1,1,2-Trichlorotrifluoroethane
Concen: 14.419 ppbv
RT: 2.136 min Scan# 633
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion:101 Resp: 295217
Ion Ratio Lower Upper
101 100
151 70.4 57.1 85.7





#13

Ethanol

Concen: 8.001 ppbv

RT: 1.719 min Scan# 504

Delta R.T. -0.000 min

Lab File: VL042178.D

Acq: 27 Mar 2025 11:36

Instrument :

MSVOA_L

ClientSampleId :

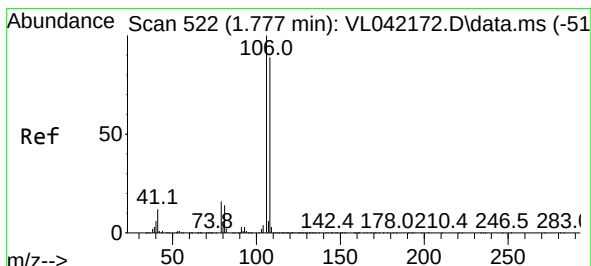
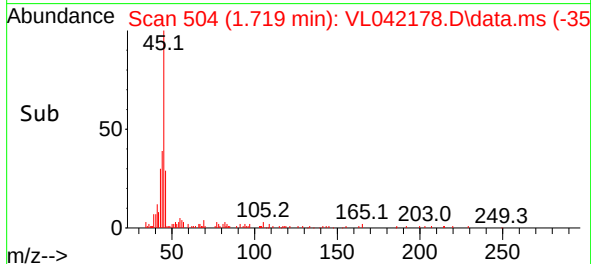
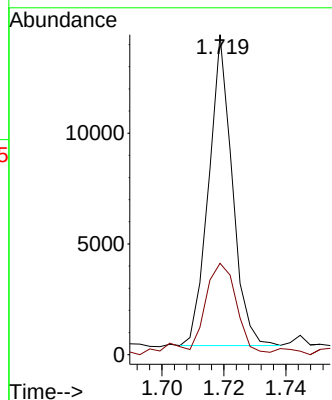
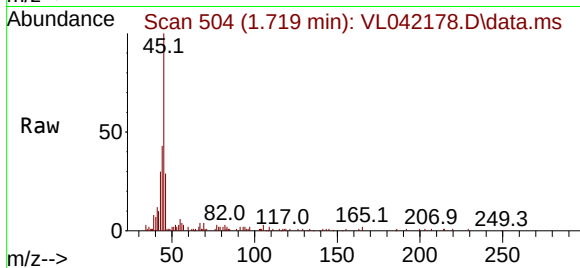
VSTDIC015

Tgt Ion: 45 Resp: 7382

Ion Ratio Lower Upper

45 100

46 44.6 20.2 80.8



#14

Bromoethene

Concen: 13.571 ppbv

RT: 1.780 min Scan# 523

Delta R.T. 0.003 min

Lab File: VL042178.D

Acq: 27 Mar 2025 11:36

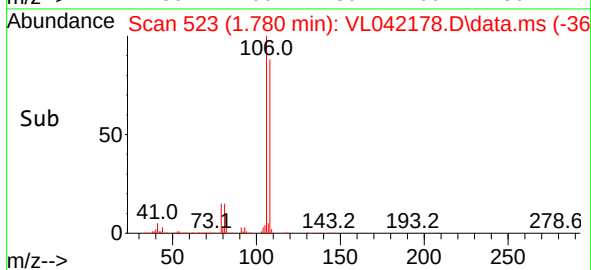
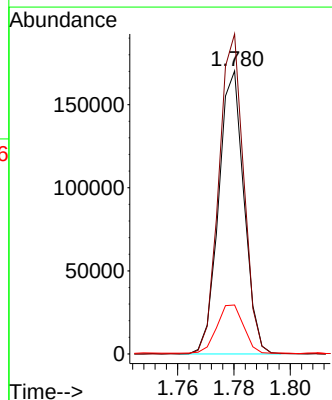
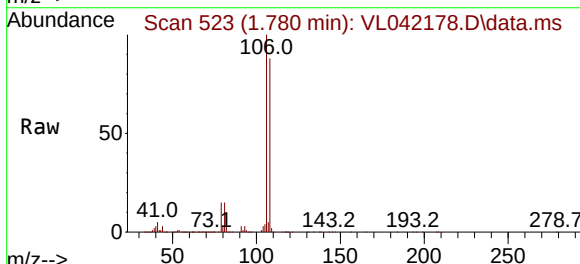
Tgt Ion: 108 Resp: 106436

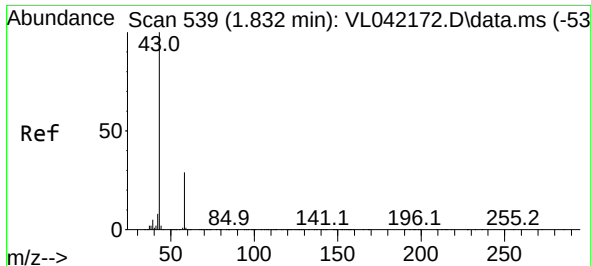
Ion Ratio Lower Upper

108 100

106 110.9 86.8 130.2

79 18.8 15.0 22.6

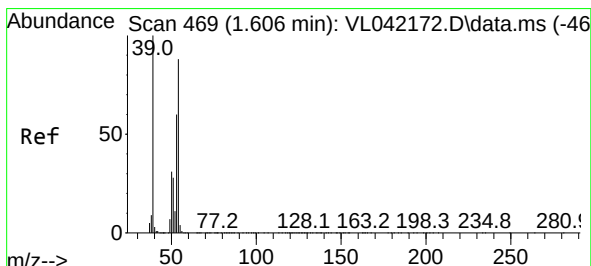
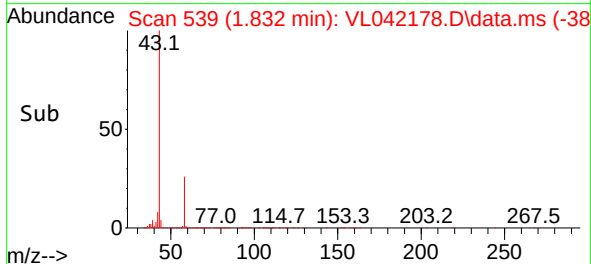
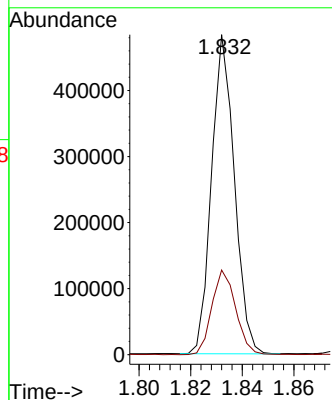
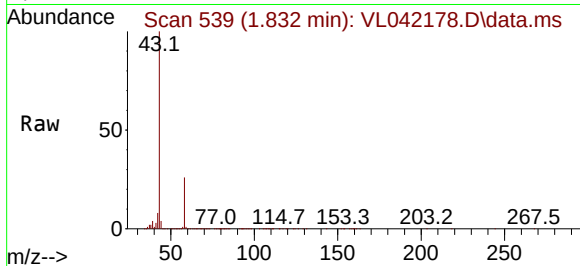




#15
Acetone
Concen: 12.218 ppbv
RT: 1.832 min Scan# 51
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

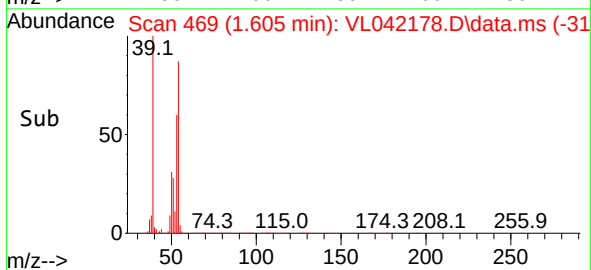
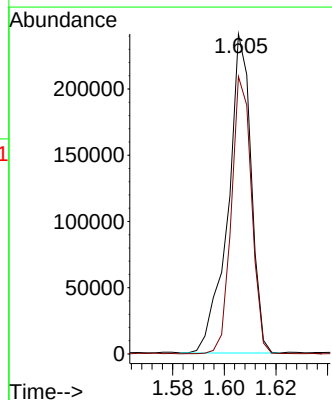
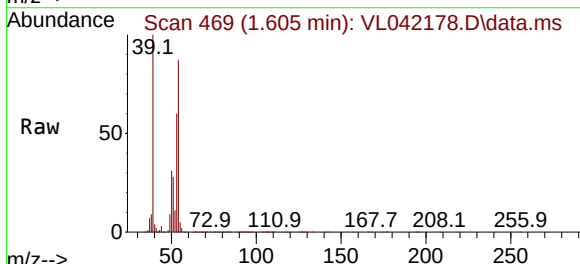
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

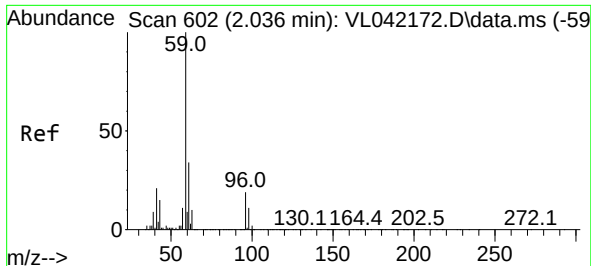
Tgt Ion: 43 Resp: 296254
Ion Ratio Lower Upper
43 100
58 27.7 23.2 34.8



#16
1,3-Butadiene
Concen: 13.766 ppbv
RT: 1.605 min Scan# 469
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 39 Resp: 150122
Ion Ratio Lower Upper
39 100
54 76.3 60.7 91.1





#17

tert-Butyl alcohol

Concen: 13.787 ppbv

RT: 2.039 min Scan# 602

Delta R.T. 0.003 min

Lab File: VL042178.D

Acq: 27 Mar 2025 11:36

Instrument :

MSVOA_L

ClientSampleId :

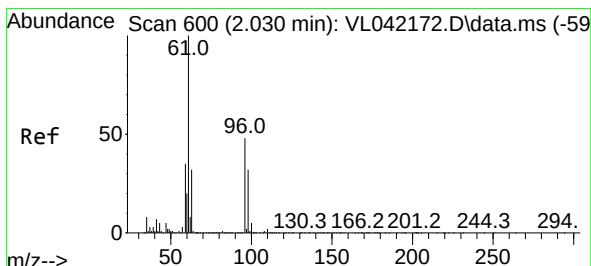
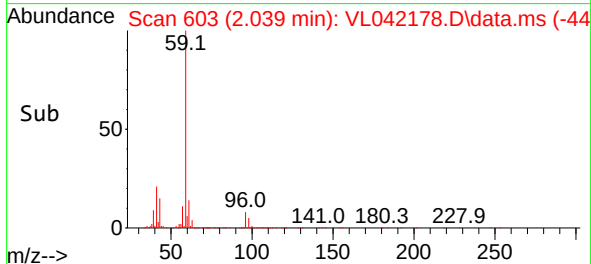
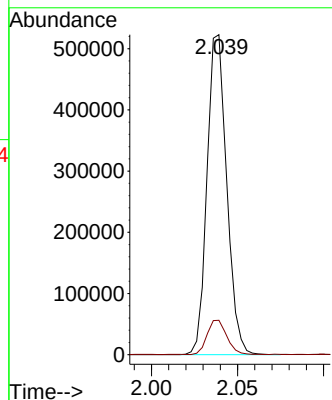
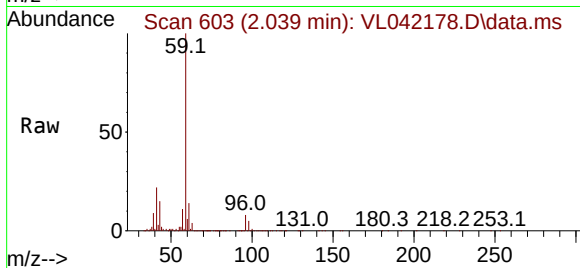
VSTDIC015

Tgt Ion: 59 Resp: 416362

Ion Ratio Lower Upper

59 100

57 10.8 8.9 13.3



#18

1,1-Dichloroethene

Concen: 13.762 ppbv

RT: 2.029 min Scan# 600

Delta R.T. -0.000 min

Lab File: VL042178.D

Acq: 27 Mar 2025 11:36

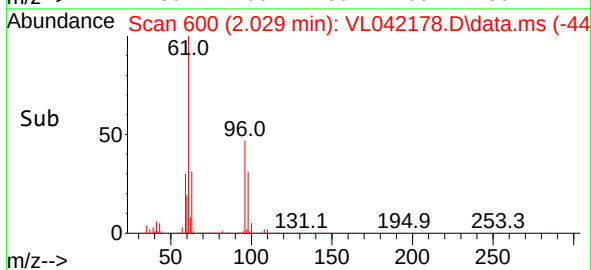
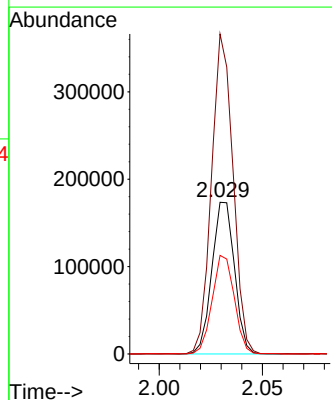
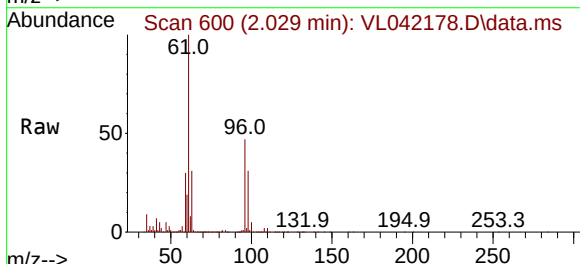
Tgt Ion: 96 Resp: 131720

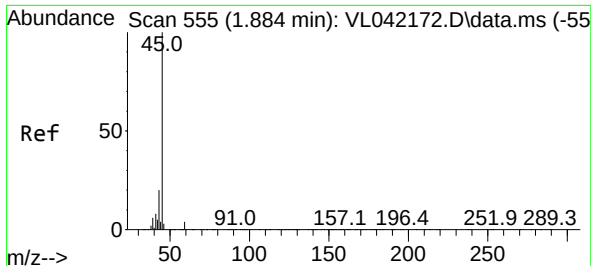
Ion Ratio Lower Upper

96 100

61 211.1 167.6 251.4

98 64.9 53.5 80.3

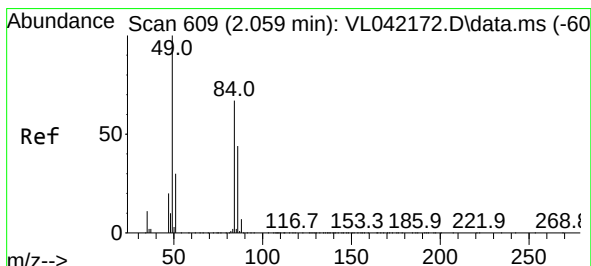
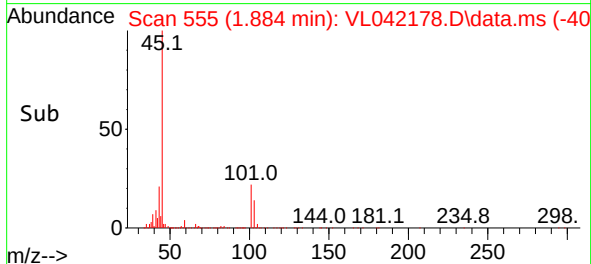
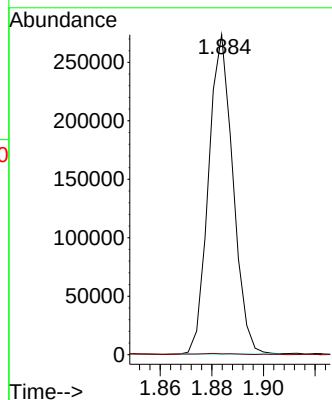
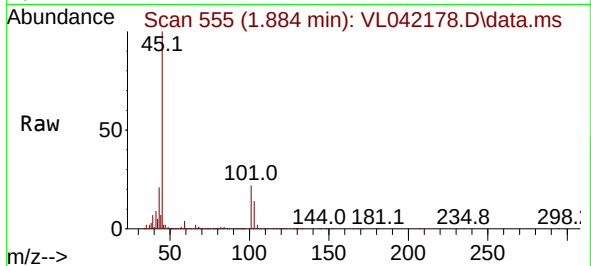




#19
Isopropyl Alcohol
Concen: 13.093 ppbv
RT: 1.884 min Scan# 511
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

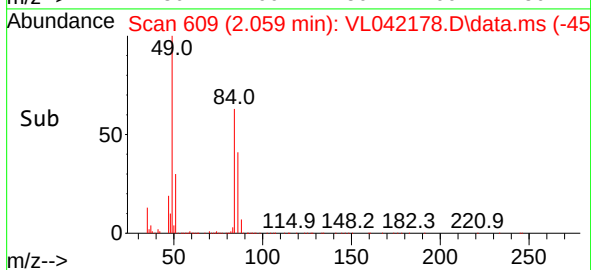
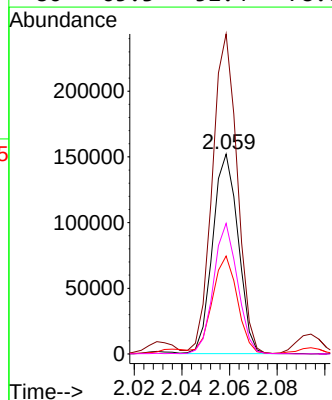
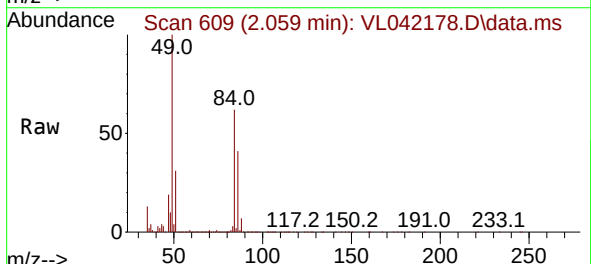
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

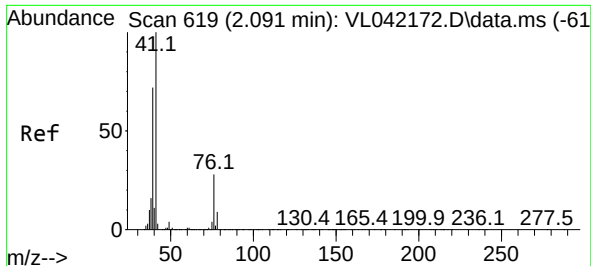
Tgt Ion: 45 Resp: 179117
Ion Ratio Lower Upper
45 100
58 46.4 36.9 55.3



#20
Methylene Chloride
Concen: 12.533 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 84 Resp: 113183
Ion Ratio Lower Upper
84 100
49 159.7 120.2 180.4
51 48.7 37.4 56.0
86 65.3 52.4 78.6





#21

Allyl Chloride

Concen: 14.002 ppbv

RT: 2.094 min Scan# 619

Delta R.T. 0.003 min

Lab File: VL042178.D

Acq: 27 Mar 2025 11:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

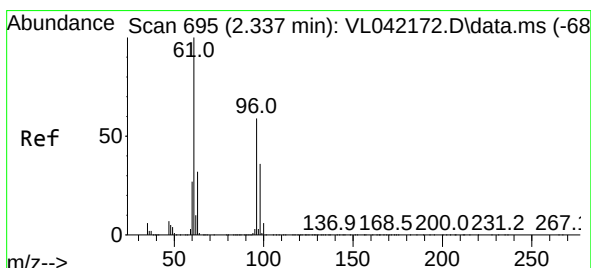
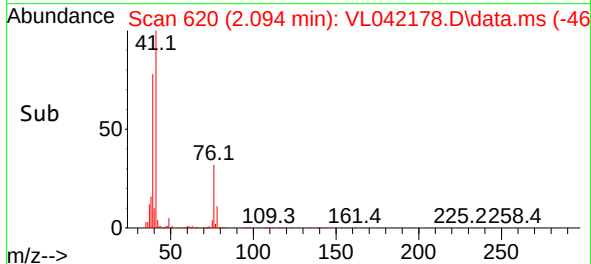
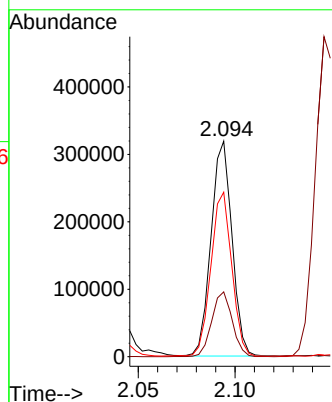
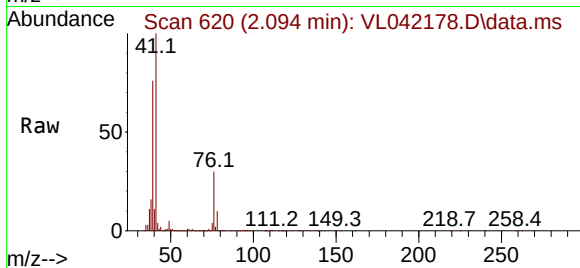
Tgt Ion: 41 Resp: 239440

Ion Ratio Lower Upper

41 100

76 29.5 24.1 36.1

39 76.1 61.1 91.7



#22

trans-1,2-Dichloroethene

Concen: 13.362 ppbv

RT: 2.337 min Scan# 695

Delta R.T. -0.000 min

Lab File: VL042178.D

Acq: 27 Mar 2025 11:36

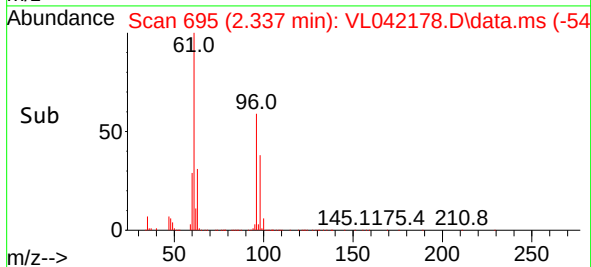
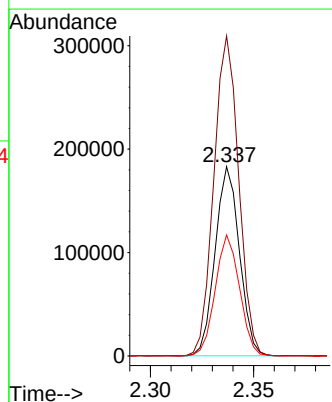
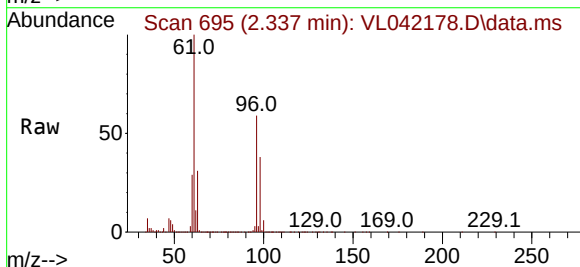
Tgt Ion: 96 Resp: 149455

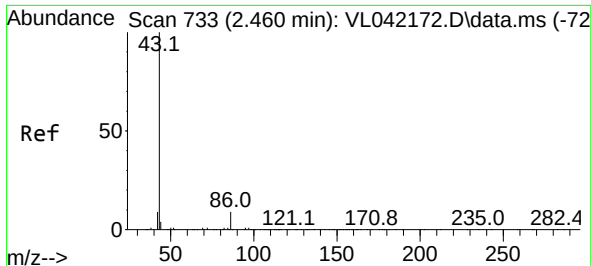
Ion Ratio Lower Upper

96 100

61 169.2 136.6 204.8

98 63.9 49.4 74.2



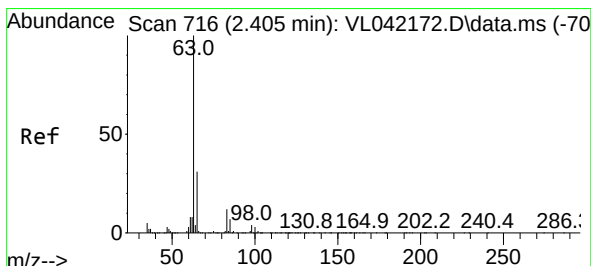
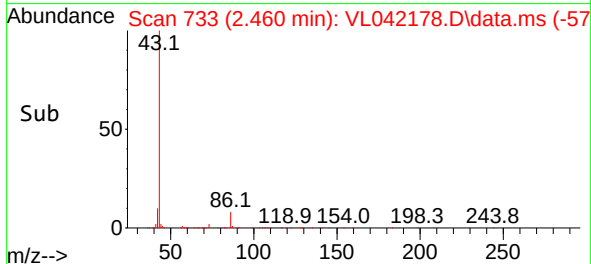
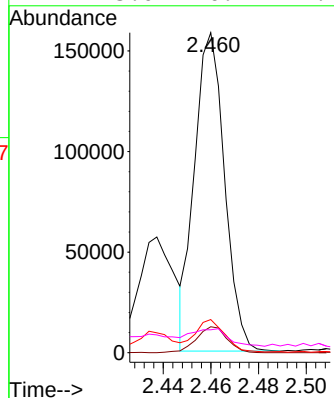
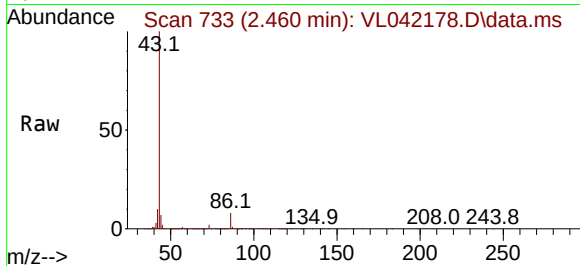


#23
Vinyl Acetate
Concen: 13.736 ppbv
RT: 2.460 min Scan# 716
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Instrument :
MSVOA_1
ClientSampleId :
VSTDICC015

Tgt Ion: 43 Resp: 138419

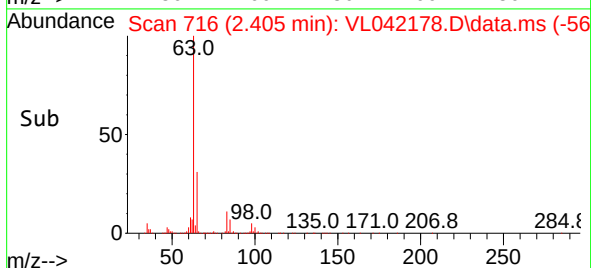
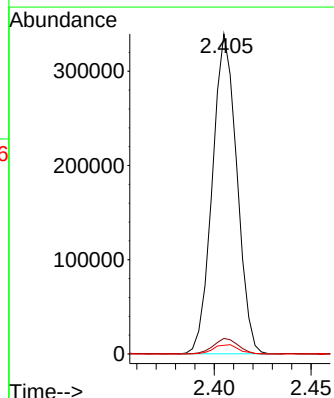
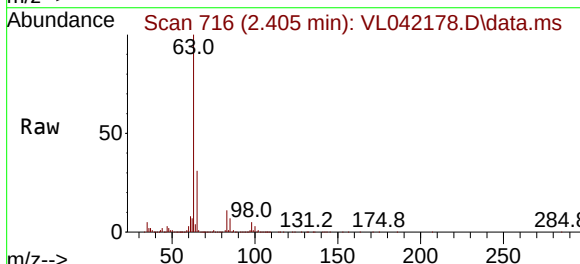
Ion	Ratio	Lower	Upper
43	100		
86	8.1	5.5	8.3
42	10.1	8.6	13.0
44	5.0	6.2	9.4

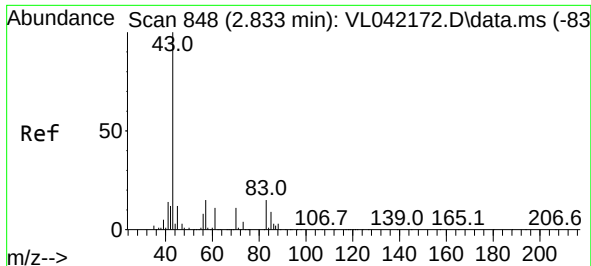


#24
1,1-Dichloroethane
Concen: 14.570 ppbv
RT: 2.405 min Scan# 716
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 63 Resp: 298760

Ion	Ratio	Lower	Upper
63	100		
98	4.9	2.3	6.8
100	2.7	1.6	4.7





#25

Ethyl Acetate

Concen: 13.855 ppbv

RT: 2.832 min Scan# 84

Delta R.T. -0.000 min

Lab File: VL042178.D

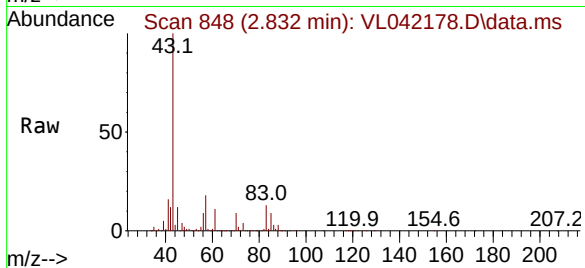
Acq: 27 Mar 2025 11:36

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC015



Tgt Ion: 43 Resp: 871882

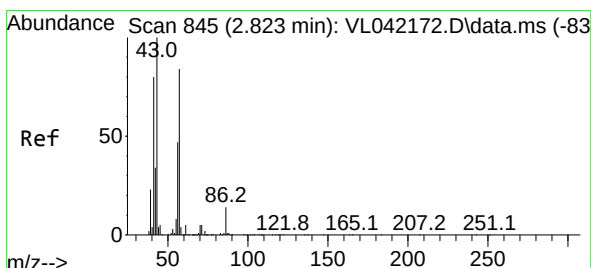
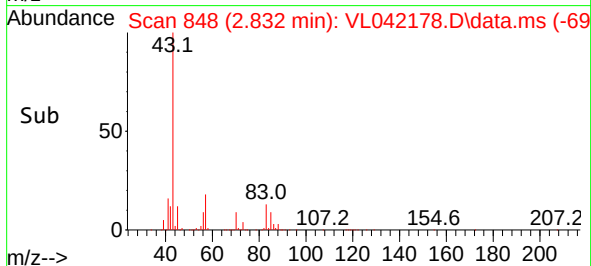
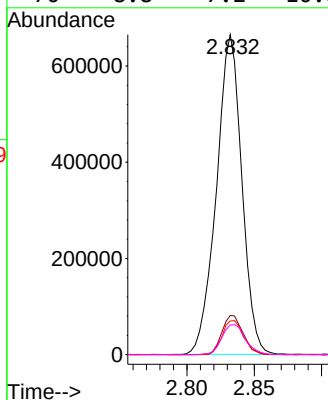
Ion Ratio Lower Upper

43 100

45 10.3 8.2 12.2

61 9.0 7.3 10.9

70 8.8 7.2 10.8



#26

Hexane

Concen: 14.178 ppbv

RT: 2.822 min Scan# 845

Delta R.T. -0.000 min

Lab File: VL042178.D

Acq: 27 Mar 2025 11:36

Tgt Ion: 57 Resp: 344636

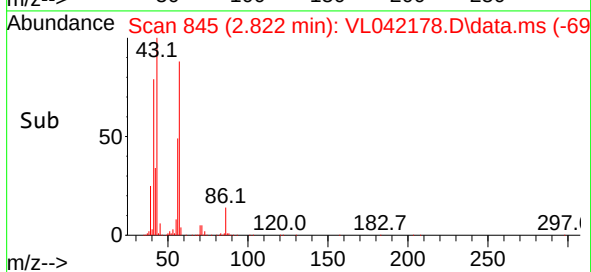
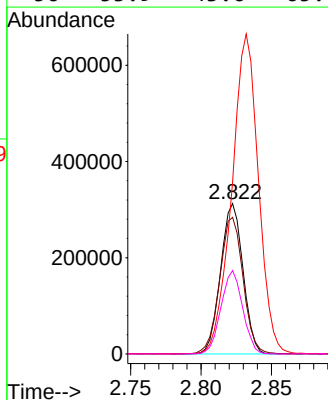
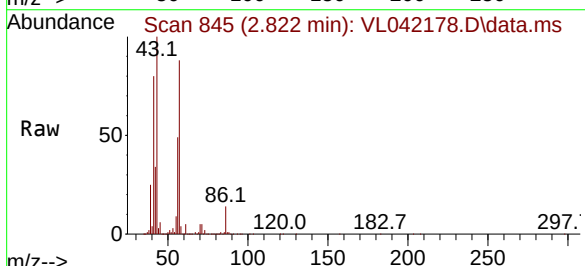
Ion Ratio Lower Upper

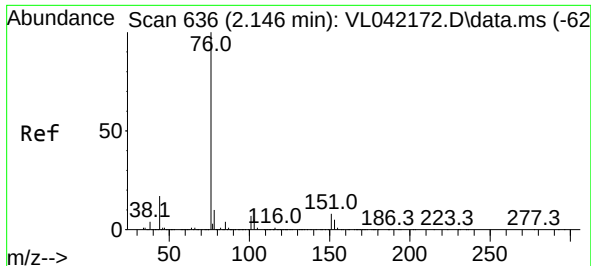
57 100

41 96.1 76.6 114.8

43 254.0 207.8 311.8

56 53.9 43.6 65.4

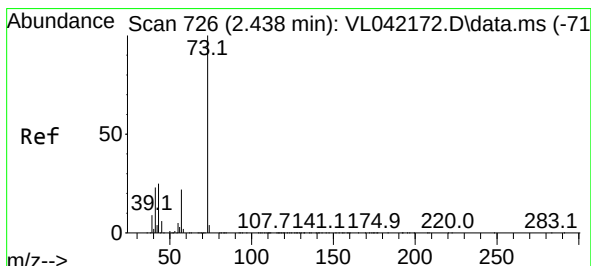
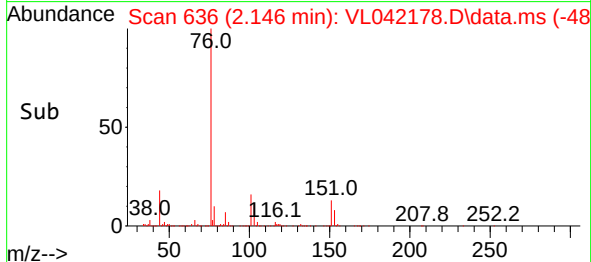
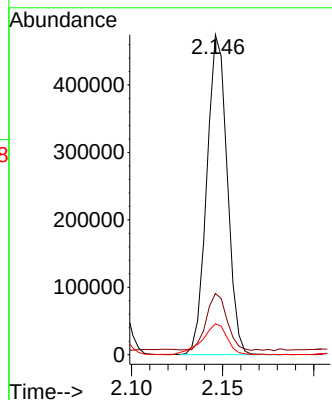
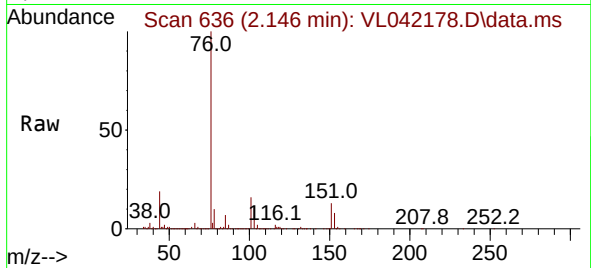




#27
Carbon Disulfide
Concen: 14.196 ppbv
RT: 2.146 min Scan# 611
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

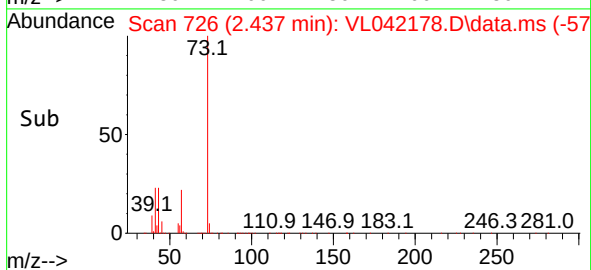
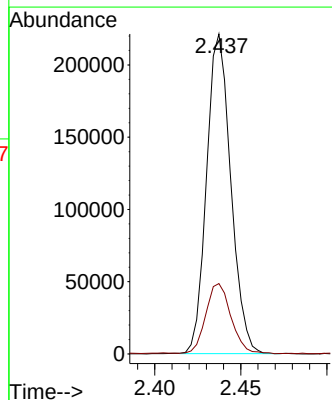
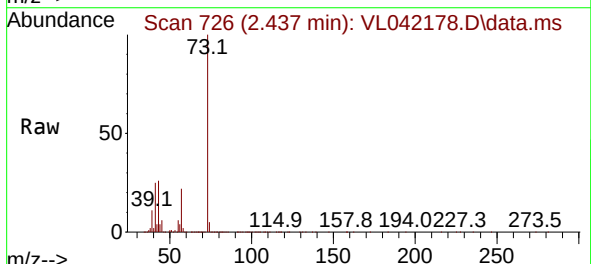
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

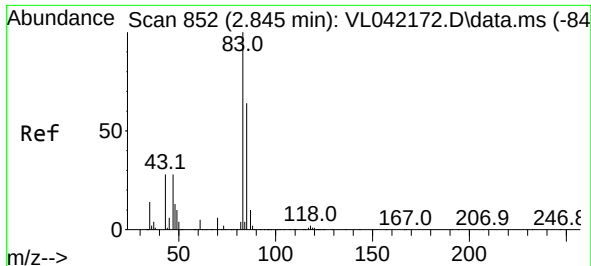
Tgt Ion: 76 Resp: 370022
Ion Ratio Lower Upper
76 100
44 20.3 14.7 22.1
78 11.7 9.3 13.9



#28
Methyl tert-Butyl Ether
Concen: 14.303 ppbv
RT: 2.437 min Scan# 726
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 73 Resp: 216463
Ion Ratio Lower Upper
73 100
57 23.2 20.5 30.7





#29

Chloroform

Concen: 14.297 ppbv

RT: 2.845 min Scan# 81

Delta R.T. -0.000 min

Lab File: VL042178.D

Acq: 27 Mar 2025 11:36

Instrument :

MSVOA_L

ClientSampleId :

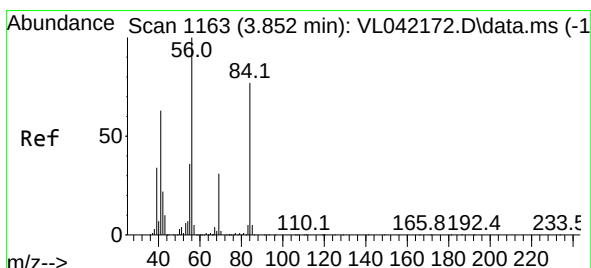
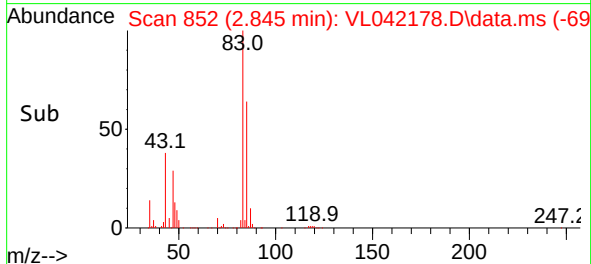
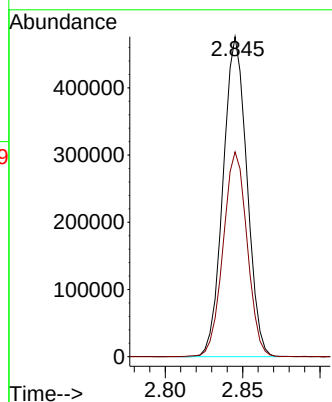
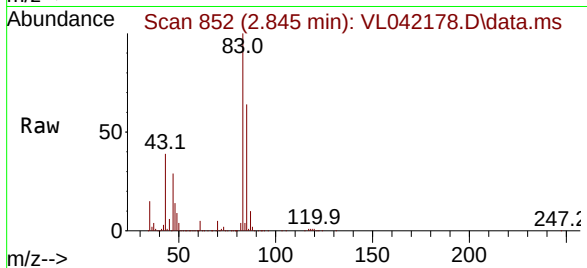
VSTDICC015

Tgt Ion: 83 Resp: 508614

Ion Ratio Lower Upper

83 100

85 64.0 51.4 77.2



#30

Cyclohexane

Concen: 14.040 ppbv

RT: 3.852 min Scan# 1163

Delta R.T. -0.000 min

Lab File: VL042178.D

Acq: 27 Mar 2025 11:36

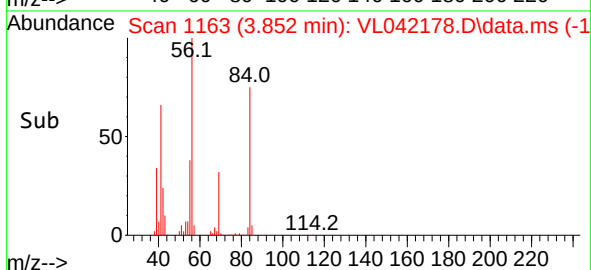
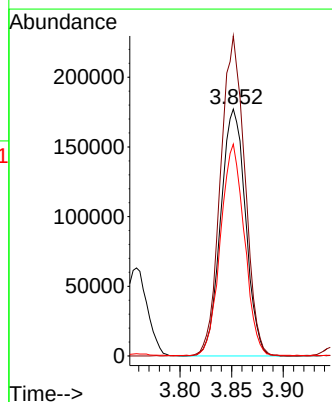
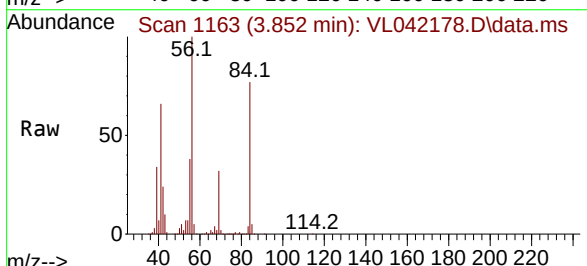
Tgt Ion: 84 Resp: 296458

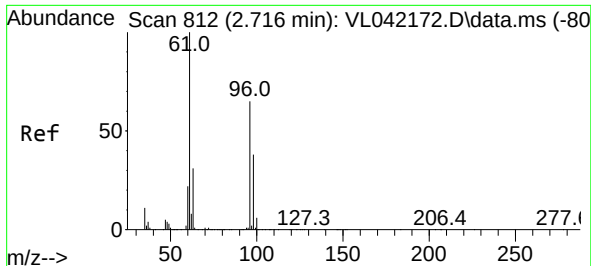
Ion Ratio Lower Upper

84 100

56 126.7 102.8 154.2

41 82.6 66.5 99.7

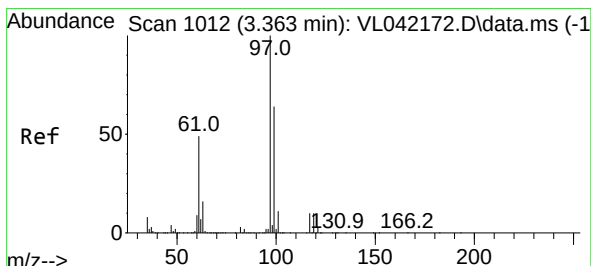
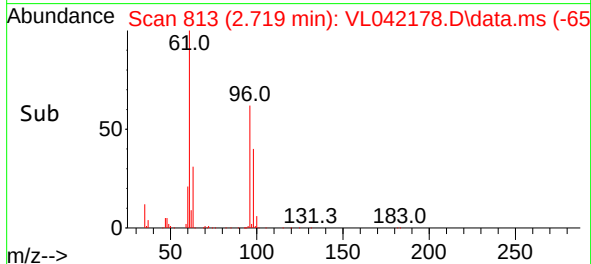
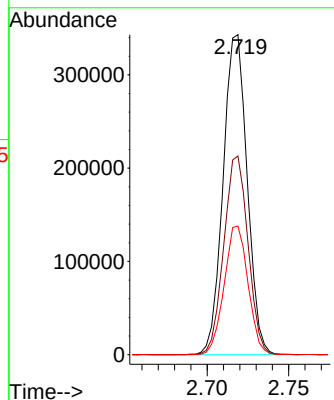
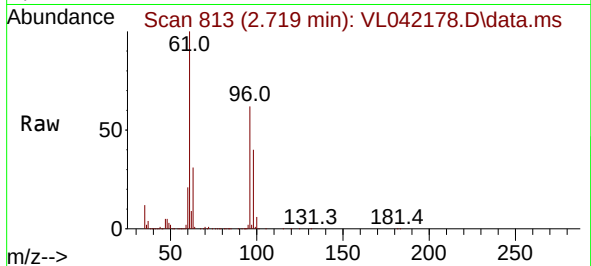




#31
 cis-1,2-Dichloroethene
 Concen: 14.262 ppbv
 RT: 2.719 min Scan# 812
 Delta R.T. 0.003 min
 Lab File: VL042178.D
 Acq: 27 Mar 2025 11:36

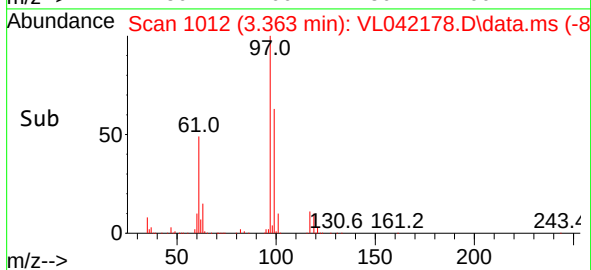
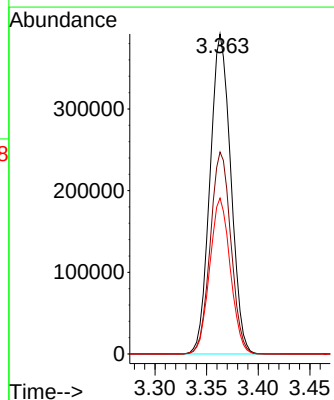
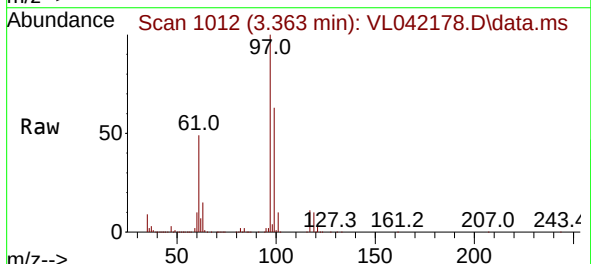
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

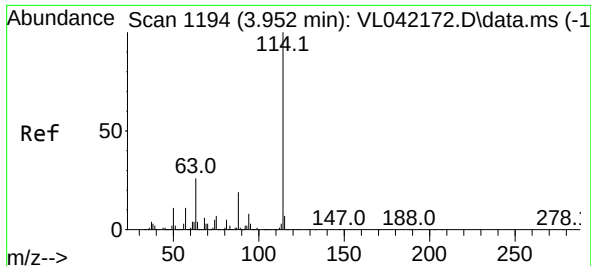
Tgt Ion: 61 Resp: 351945
 Ion Ratio Lower Upper
 61 100
 96 62.1 51.8 77.8
 98 40.2 30.6 46.0



#32
 1,1,1-Trichloroethane
 Concen: 13.448 ppbv
 RT: 3.363 min Scan# 1012
 Delta R.T. -0.000 min
 Lab File: VL042178.D
 Acq: 27 Mar 2025 11:36

Tgt Ion: 97 Resp: 547329
 Ion Ratio Lower Upper
 97 100
 99 62.8 51.5 77.3
 61 48.4 38.7 58.1

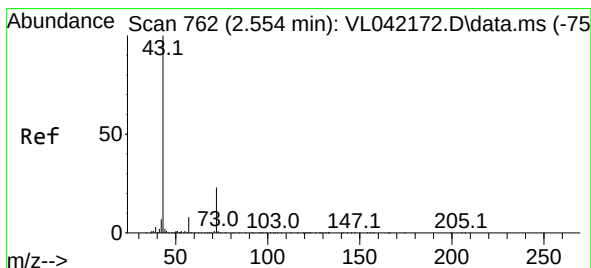
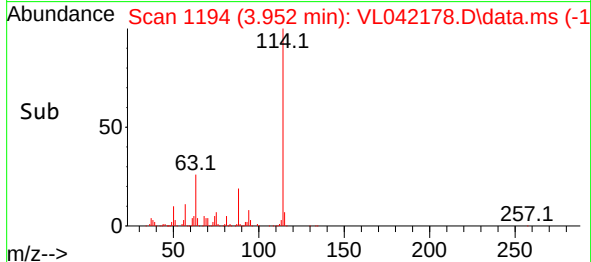
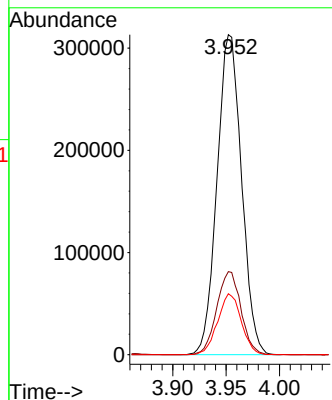
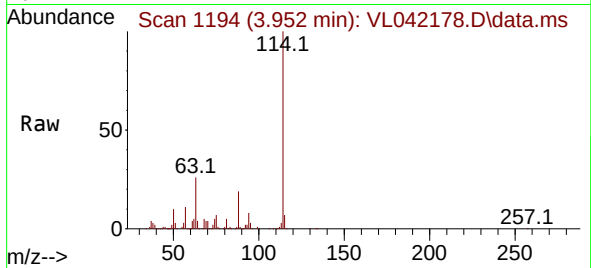




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

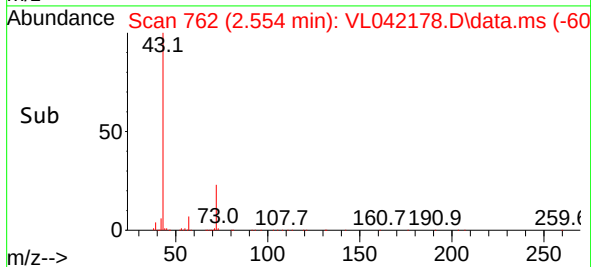
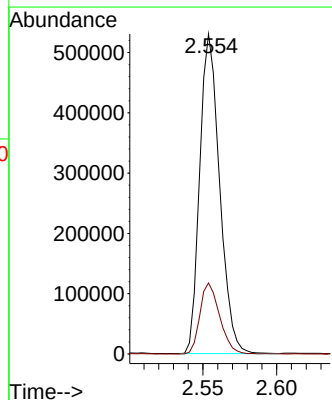
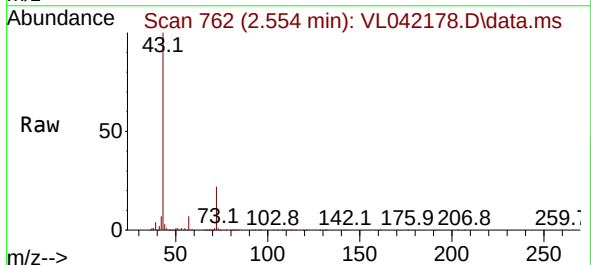
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

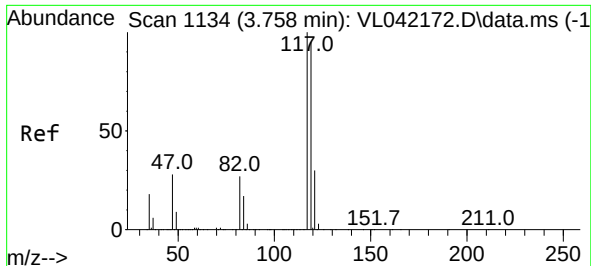
Tgt Ion:114 Resp: 499360
Ion Ratio Lower Upper
114 100
63 25.7 20.7 31.1
88 18.4 15.0 22.4



#34
2-Butanone
Concen: 13.726 ppbv
RT: 2.554 min Scan# 762
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 43 Resp: 497020
Ion Ratio Lower Upper
43 100
72 22.0 18.2 27.2

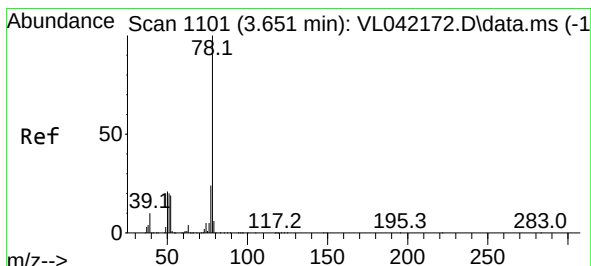
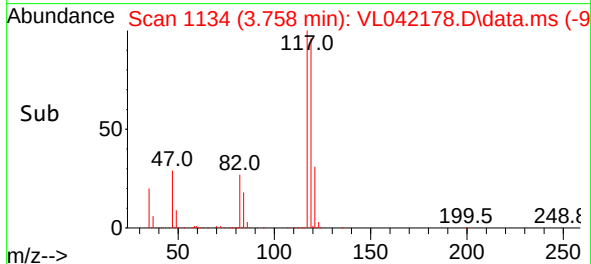
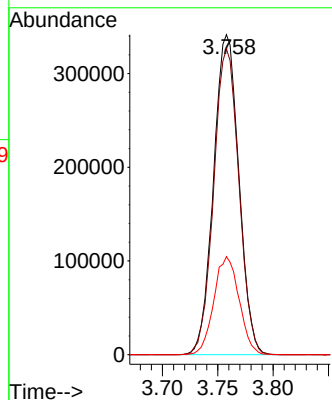
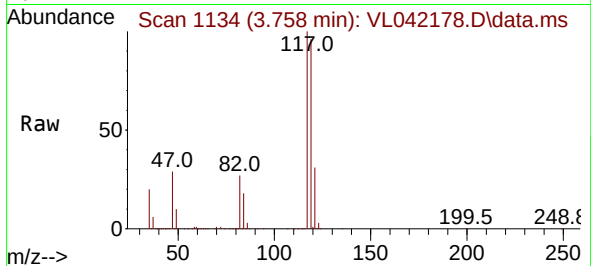




#35
Carbon Tetrachloride
Concen: 14.140 ppbv
RT: 3.758 min Scan# 1134
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

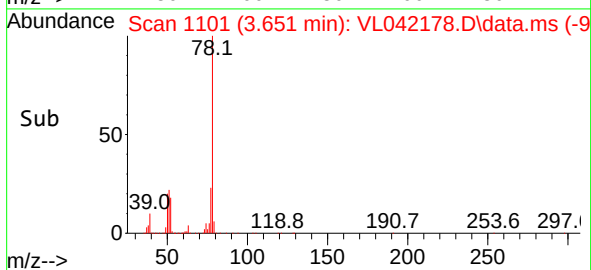
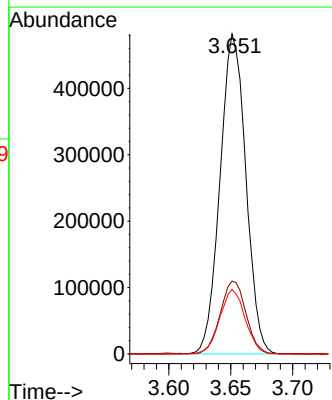
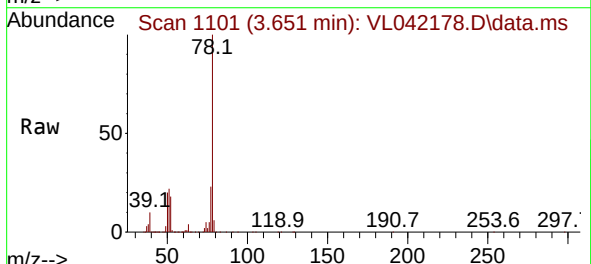
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

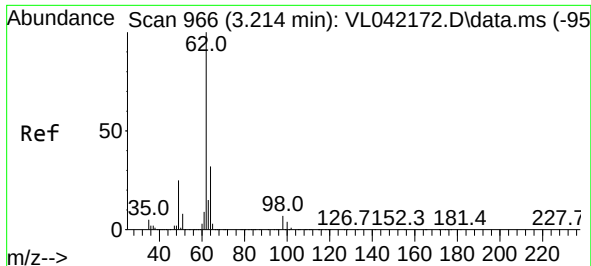
Tgt Ion:117 Resp: 543385
Ion Ratio Lower Upper
117 100
119 95.5 76.2 114.2
121 30.6 24.2 36.4



#36
Benzene
Concen: 14.131 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 78 Resp: 699549
Ion Ratio Lower Upper
78 100
77 22.7 19.1 28.7
50 20.1 16.6 24.8

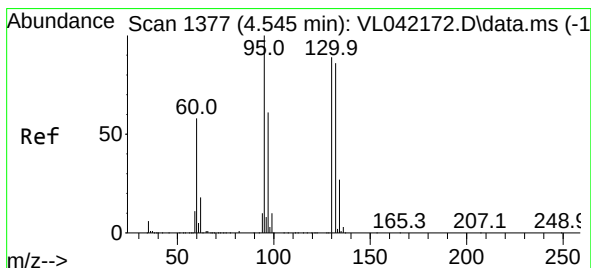
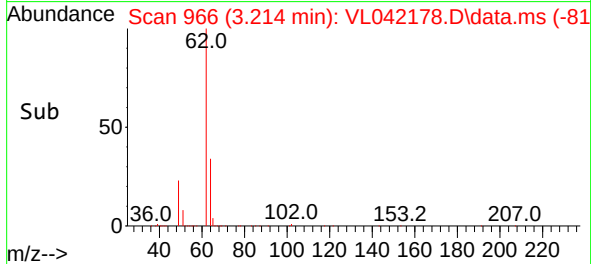
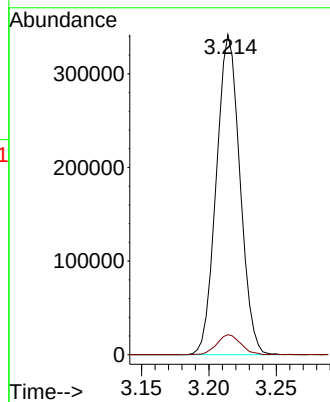
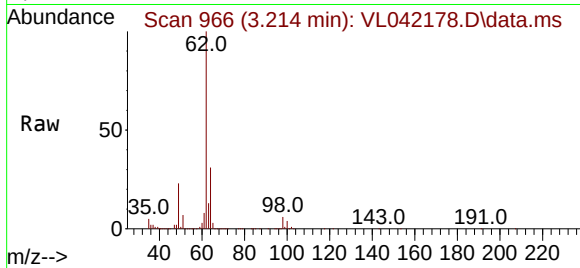




#37
1,2-Dichloroethane
Concen: 14.697 ppbv
RT: 3.214 min Scan# 90
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

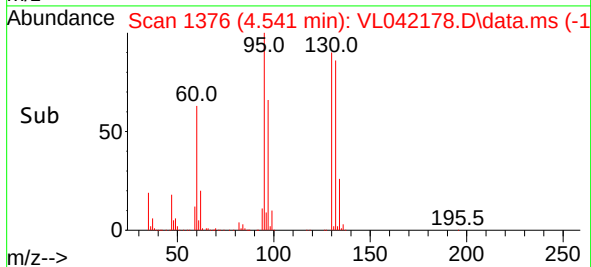
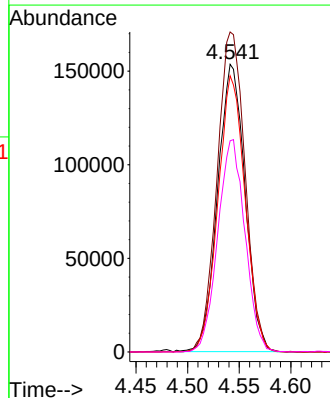
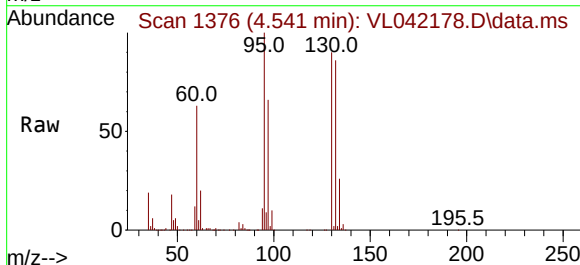
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

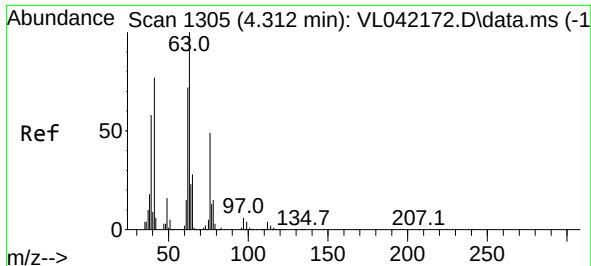
Tgt Ion: 62 Resp: 416544
Ion Ratio Lower Upper
62 100
98 6.4 5.4 8.2



#38
Trichloroethene
Concen: 13.715 ppbv
RT: 4.541 min Scan# 1376
Delta R.T. -0.004 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion:130 Resp: 283430
Ion Ratio Lower Upper
130 100
95 111.3 89.8 134.8
132 96.0 77.4 116.2
97 73.5 55.1 82.7





#39

1,2-Dichloropropane

Concen: 14.304 ppbv

RT: 4.308 min Scan# 1

Delta R.T. -0.004 min

Lab File: VL042178.D

Acq: 27 Mar 2025 11:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

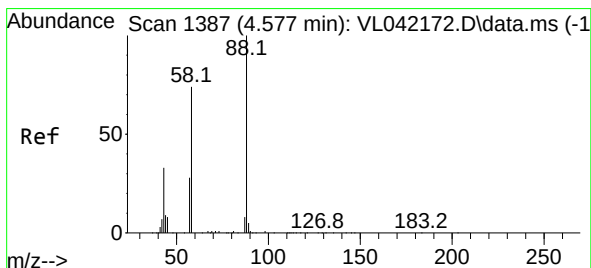
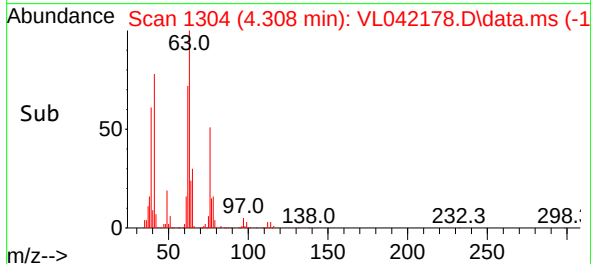
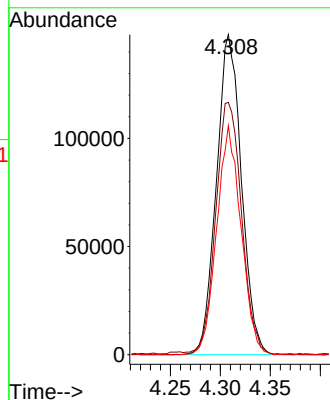
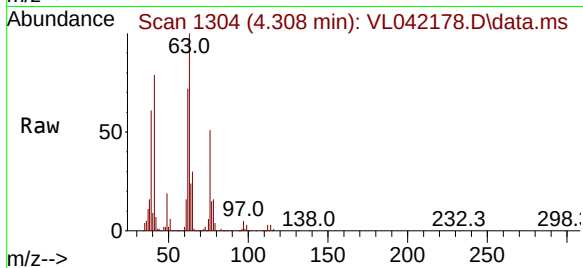
Tgt Ion: 63 Resp: 257891

Ion Ratio Lower Upper

63 100

41 78.7 61.7 92.5

62 71.6 57.6 86.4



#40

1,4-Dioxane

Concen: 13.354 ppbv

RT: 4.577 min Scan# 1387

Delta R.T. -0.000 min

Lab File: VL042178.D

Acq: 27 Mar 2025 11:36

Tgt Ion: 88 Resp: 124925

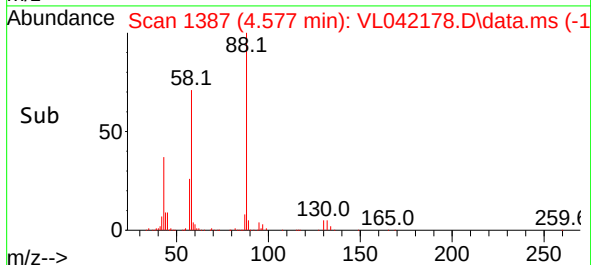
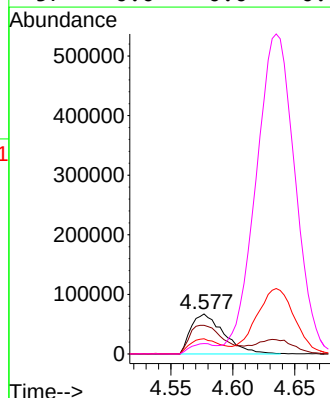
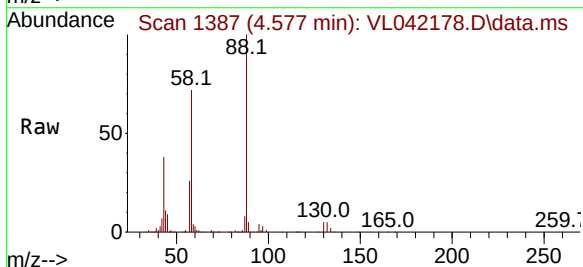
Ion Ratio Lower Upper

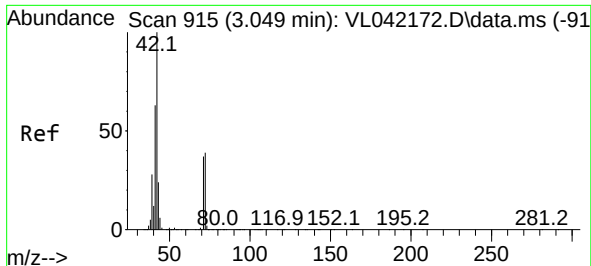
88 100

58 69.6 62.7 94.1

43 31.6 23.0 34.4

57 0.0 0.0 0.0

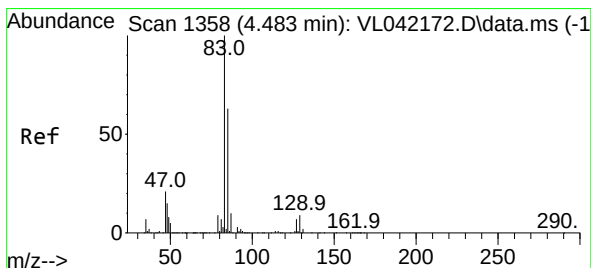
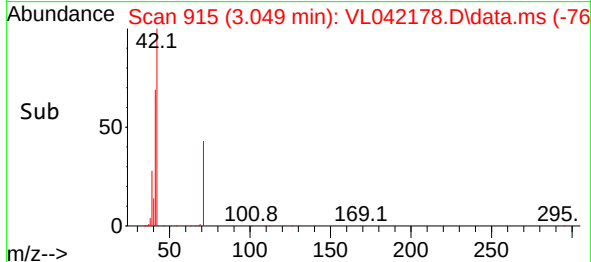
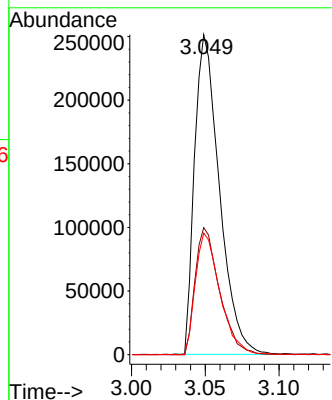
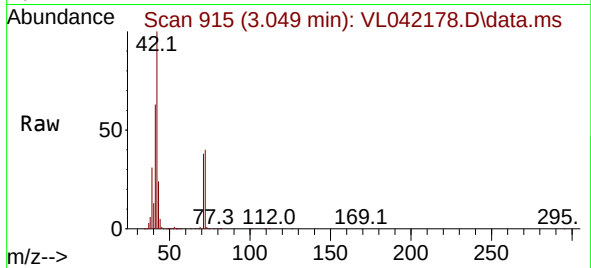




#41
Tetrahydrofuran
Concen: 14.301 ppbv
RT: 3.049 min Scan# 915
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

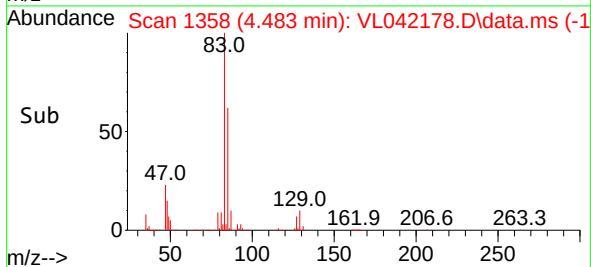
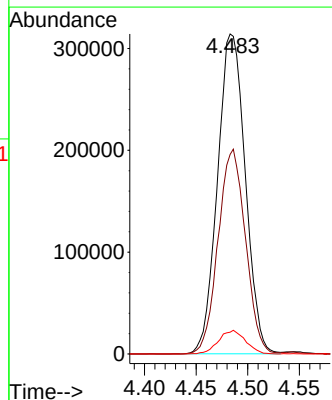
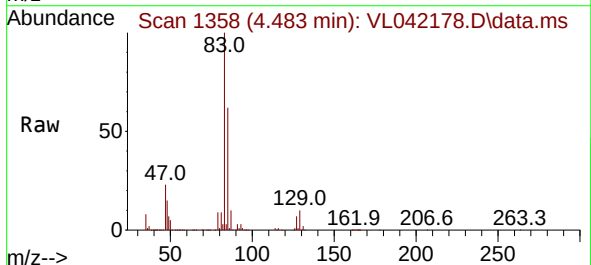
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

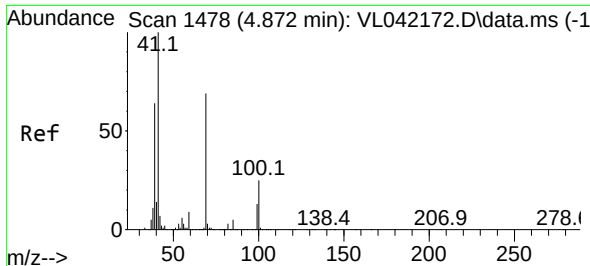
Tgt Ion: 42 Resp: 294634
Ion Ratio Lower Upper
42 100
72 39.0 31.4 47.0
71 37.9 30.2 45.4



#42
Bromodichloromethane
Concen: 15.043 ppbv
RT: 4.483 min Scan# 1358
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 83 Resp: 587772
Ion Ratio Lower Upper
83 100
85 62.4 50.5 75.7
127 6.8 5.9 8.9

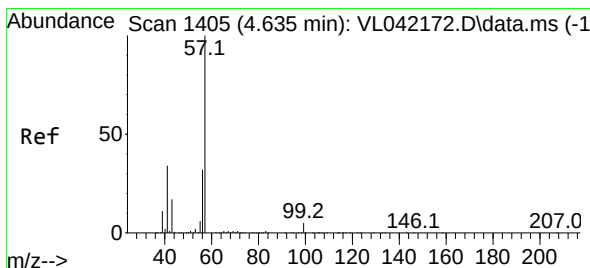
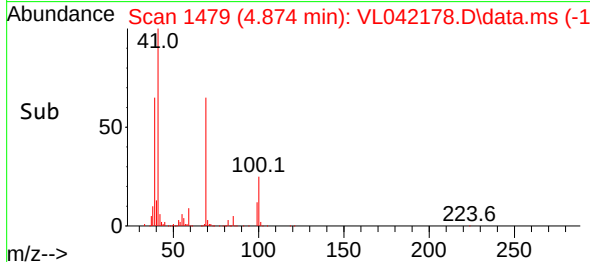
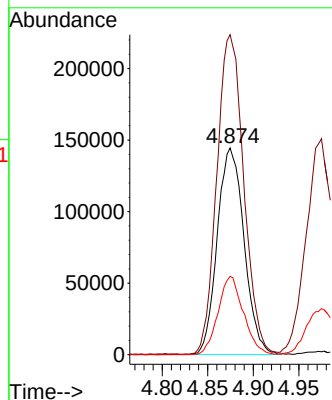
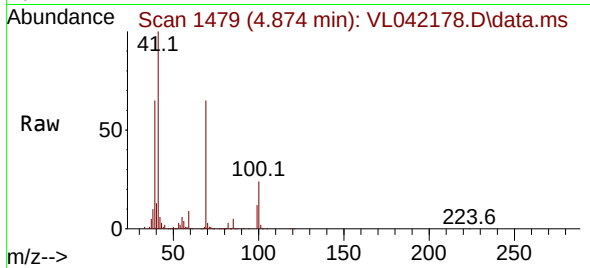




#43
Methyl Methacrylate
Concen: 14.130 ppbv
RT: 4.874 min Scan# 1478
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

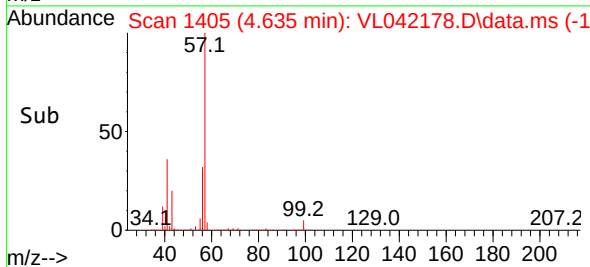
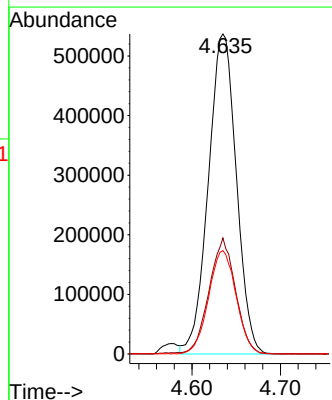
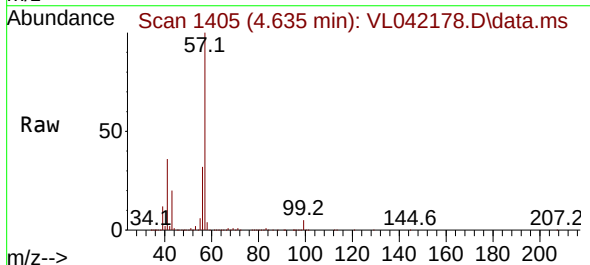
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

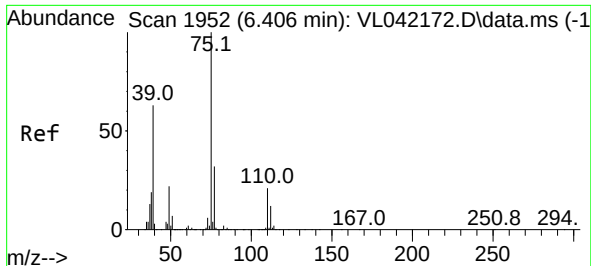
Tgt Ion: 69 Resp: 295300
Ion Ratio Lower Upper
69 100
41 155.4 123.8 185.6
100 36.0 28.4 42.6



#44
2,2,4-Trimethylpentane
Concen: 14.108 ppbv
RT: 4.635 min Scan# 1405
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 57 Resp: 1180275
Ion Ratio Lower Upper
57 100
41 34.2 26.8 40.2
56 31.9 25.6 38.4





#45

t-1,3-Dichloropropene

Concen: 14.649 ppbv

RT: 6.405 min Scan# 1952

Delta R.T. -0.000 min

Lab File: VL042178.D

Acq: 27 Mar 2025 11:36

Instrument :

MSVOA_L

ClientSampleId :

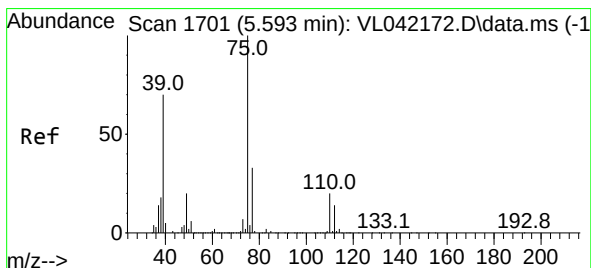
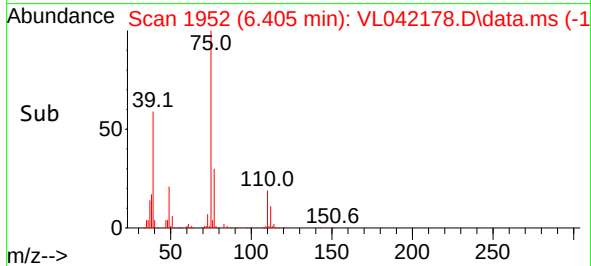
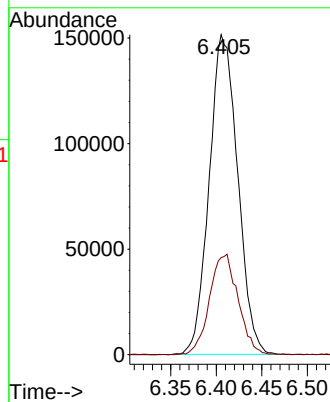
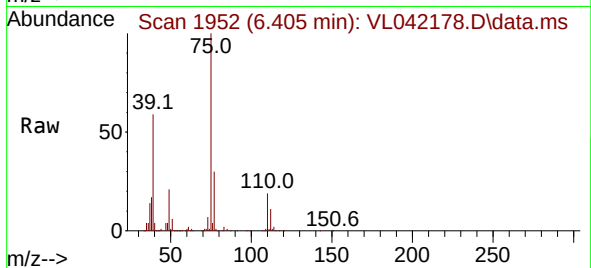
VSTDIC015

Tgt Ion: 75 Resp: 329360

Ion Ratio Lower Upper

75 100

77 30.4 26.0 39.0



#46

cis-1,3-Dichloropropene

Concen: 14.542 ppbv

RT: 5.593 min Scan# 1701

Delta R.T. -0.000 min

Lab File: VL042178.D

Acq: 27 Mar 2025 11:36

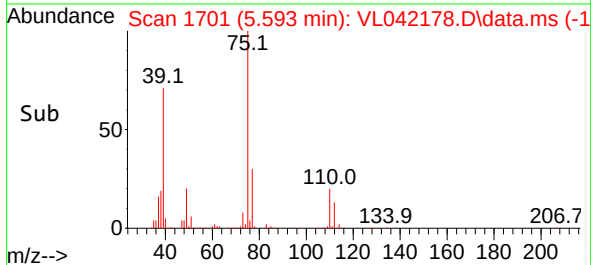
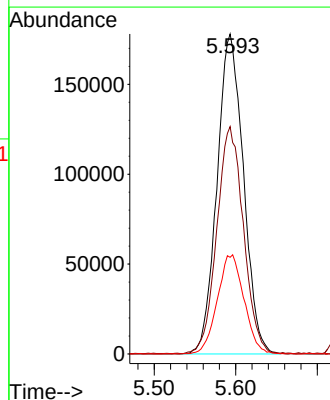
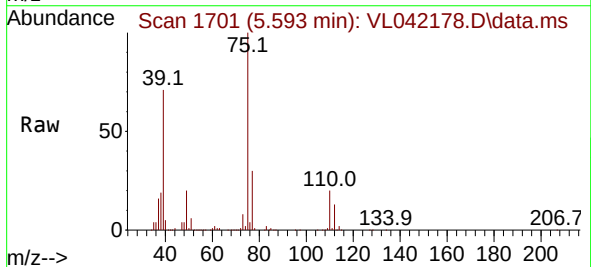
Tgt Ion: 75 Resp: 400813

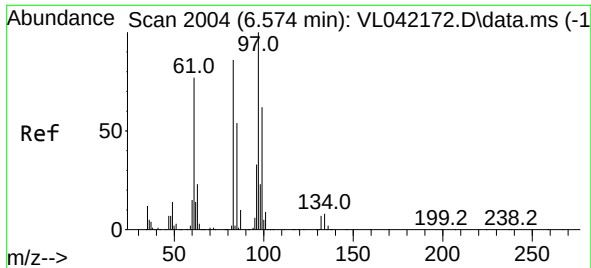
Ion Ratio Lower Upper

75 100

39 70.9 55.8 83.6

77 30.2 26.0 39.0

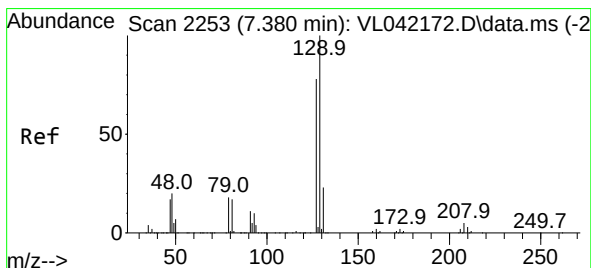
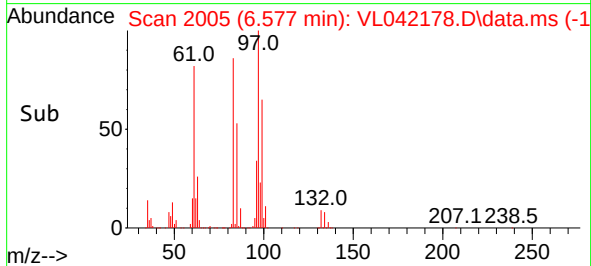
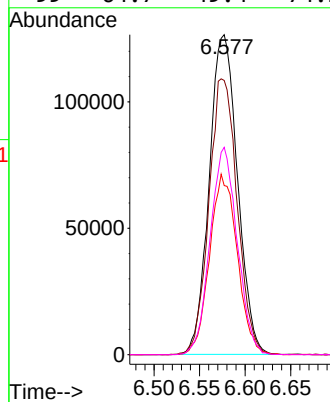
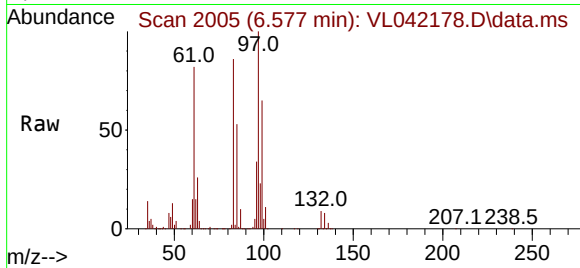




#47
1,1,2-Trichloroethane
Concen: 14.331 ppbv
RT: 6.577 min Scan# 2005
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

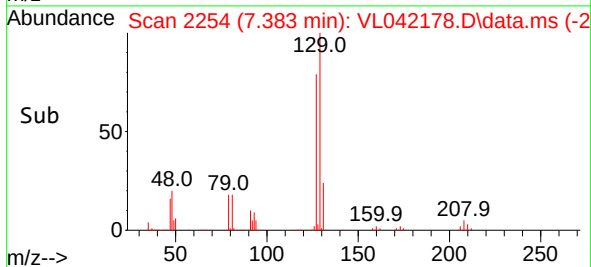
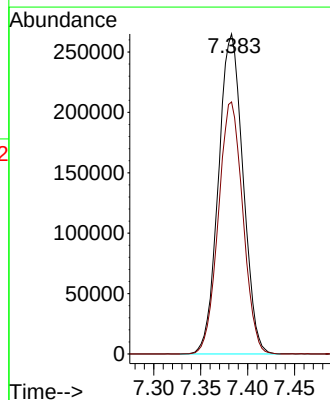
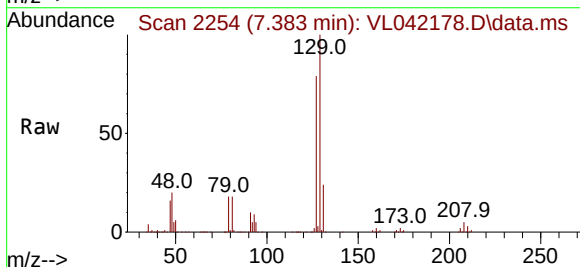
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

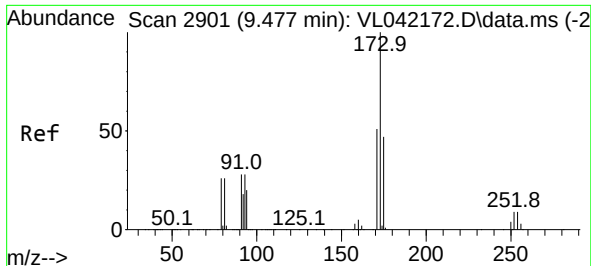
Tgt Ion:	97	Resp:	273137
Ion	Ratio	Lower	Upper
97	100		
83	85.7	69.2	103.8
85	52.7	43.1	64.7
99	64.7	49.4	74.2



#48
Dibromochloromethane
Concen: 14.936 ppbv
RT: 7.383 min Scan# 2254
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion:	129	Resp:	482431
Ion	Ratio	Lower	Upper
129	100		
127	78.4	39.1	117.2





#49

Bromoform

Concen: 14.730 ppbv

RT: 9.480 min Scan# 2901

Delta R.T. 0.003 min

Lab File: VL042178.D

Acq: 27 Mar 2025 11:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

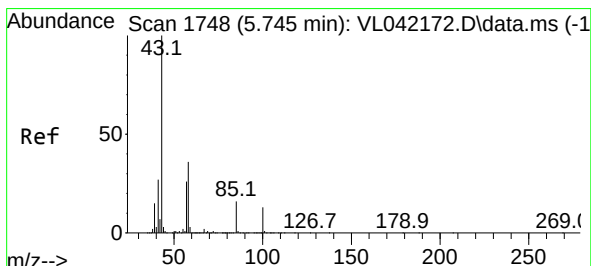
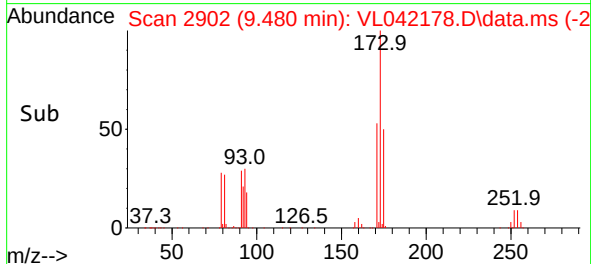
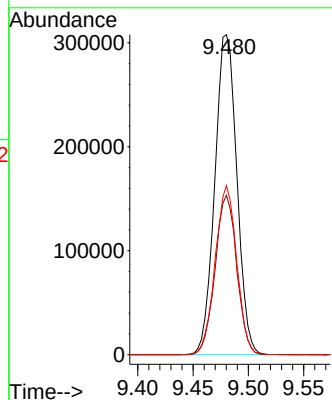
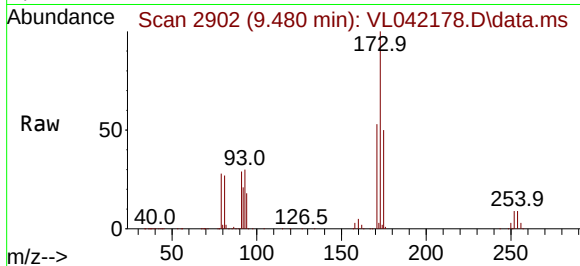
Tgt Ion:173 Resp: 427143

Ion Ratio Lower Upper

173 100

175 48.9 38.6 57.8

171 51.5 41.8 62.6



#50

4-Methyl-2-Pentanone

Concen: 13.155 ppbv

RT: 5.745 min Scan# 1748

Delta R.T. -0.000 min

Lab File: VL042178.D

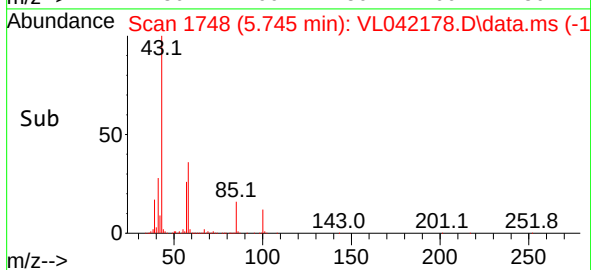
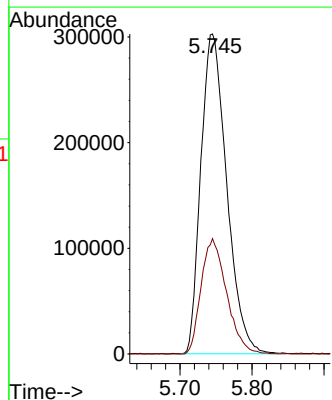
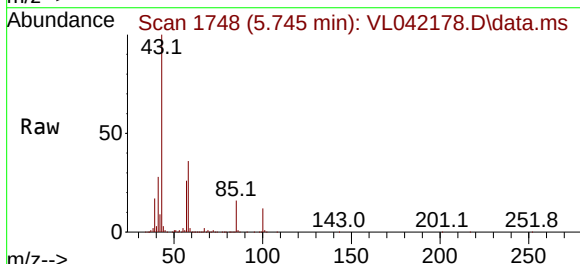
Acq: 27 Mar 2025 11:36

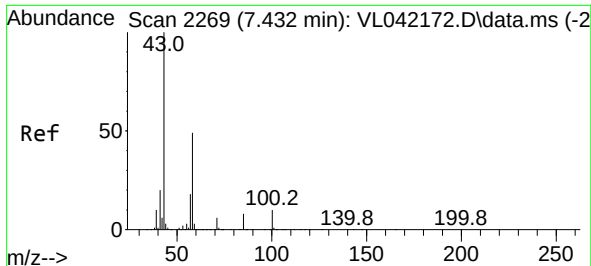
Tgt Ion: 43 Resp: 755146

Ion Ratio Lower Upper

43 100

58 35.5 29.0 43.6

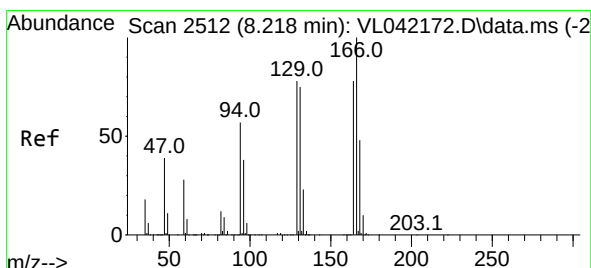
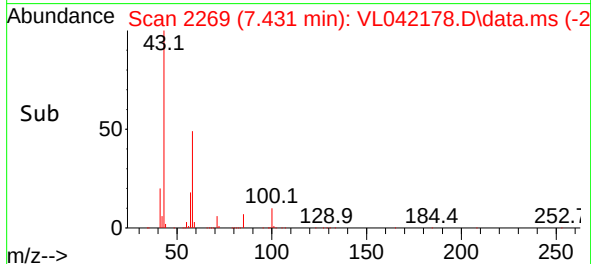
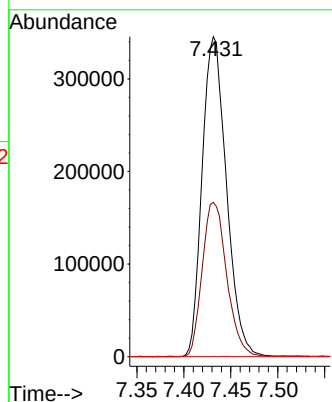
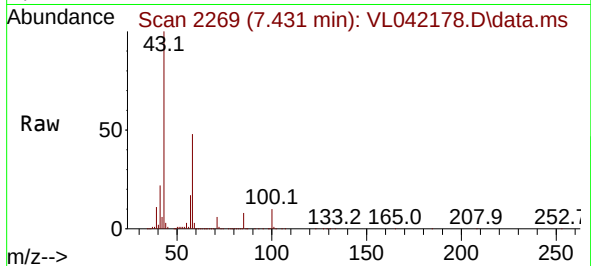




#51
2-Hexanone
Concen: 13.005 ppbv
RT: 7.431 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

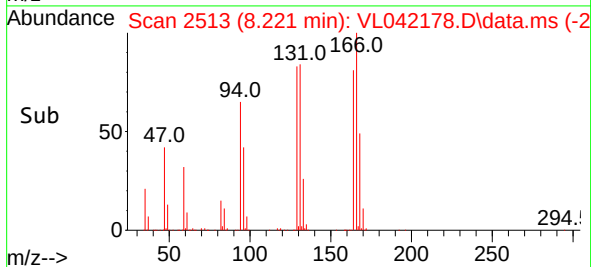
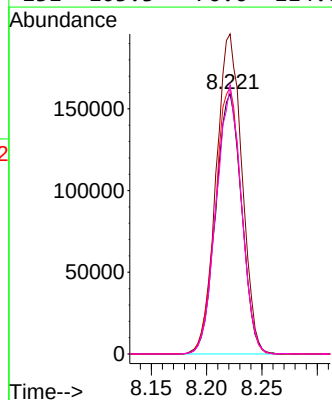
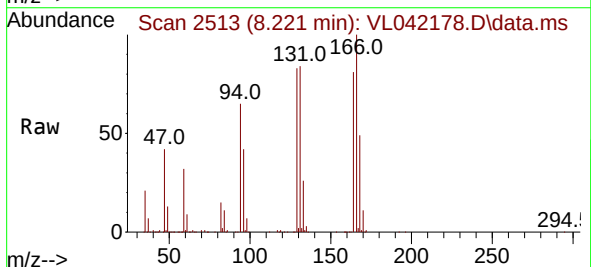
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

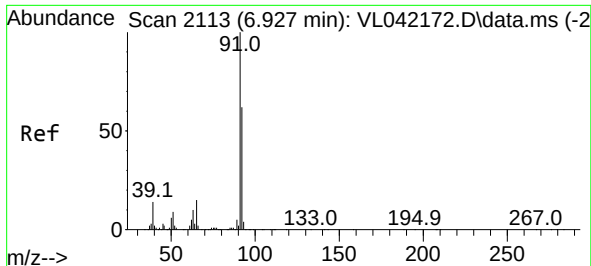
Tgt Ion: 43 Resp: 619419
Ion Ratio Lower Upper
43 100
58 49.0 39.7 59.5
98 0.0 0.1 0.1#



#52
Tetrachloroethene
Concen: 13.159 ppbv
RT: 8.221 min Scan# 2513
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 164 Resp: 258356
Ion Ratio Lower Upper
164 100
166 123.0 102.5 153.7
129 102.5 79.8 119.8
131 103.3 76.6 114.8

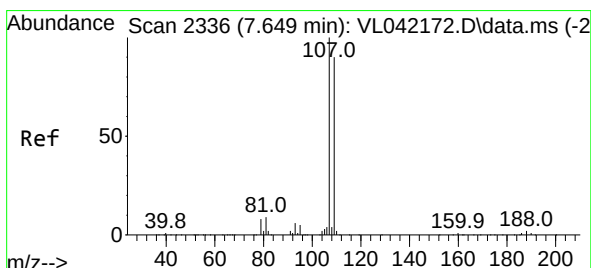
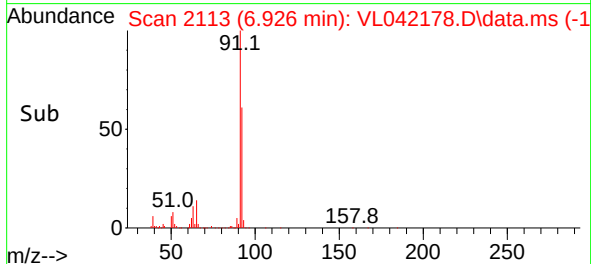
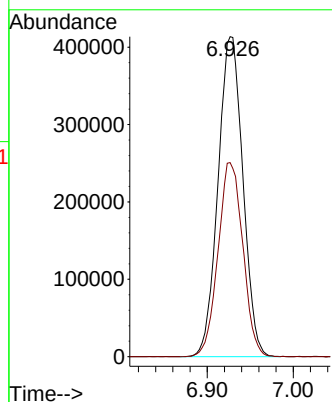
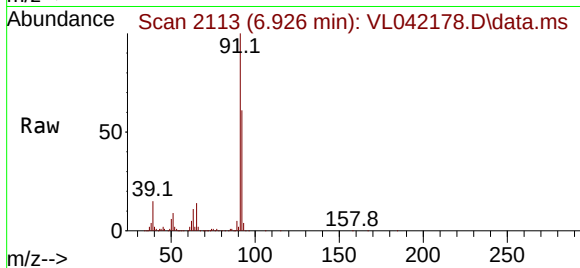




#53
Toluene
Concen: 14.137 ppbv
RT: 6.926 min Scan# 2113
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

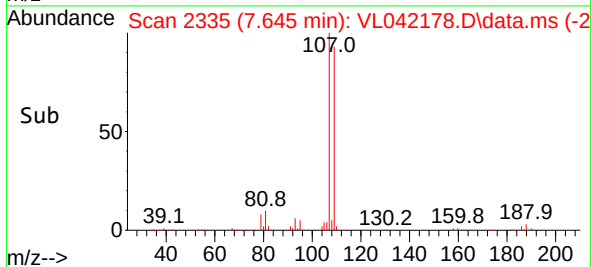
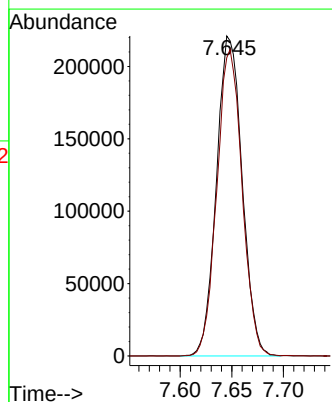
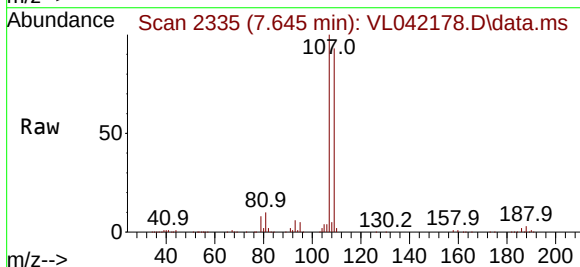
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

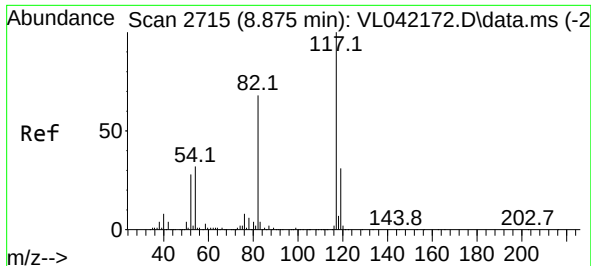
Tgt Ion: 91 Resp: 829648
Ion Ratio Lower Upper
91 100
92 60.6 48.4 72.6



#54
1,2-Dibromoethane
Concen: 14.359 ppbv
RT: 7.645 min Scan# 2335
Delta R.T. -0.004 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 107 Resp: 381823
Ion Ratio Lower Upper
107 100
109 93.2 72.2 108.4

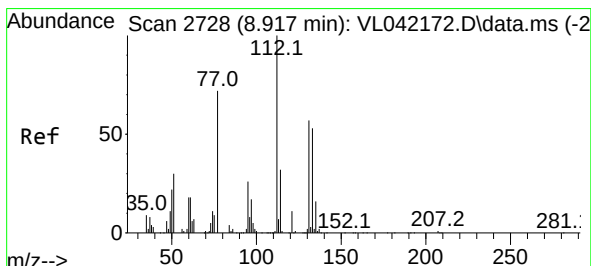
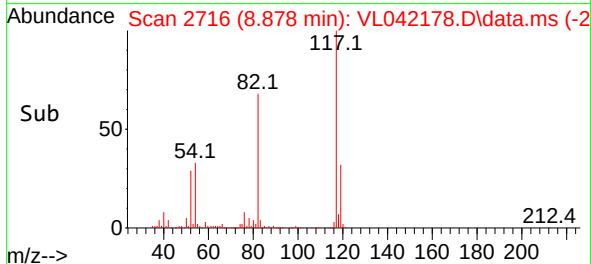
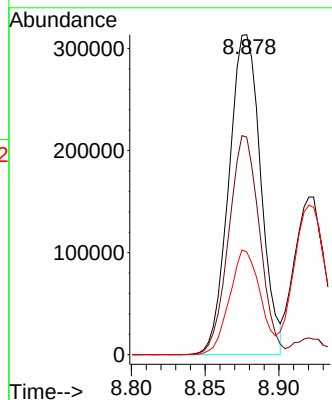
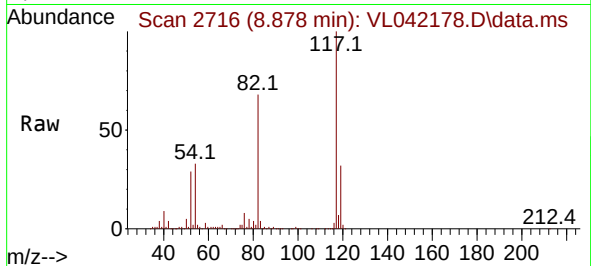




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2715
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

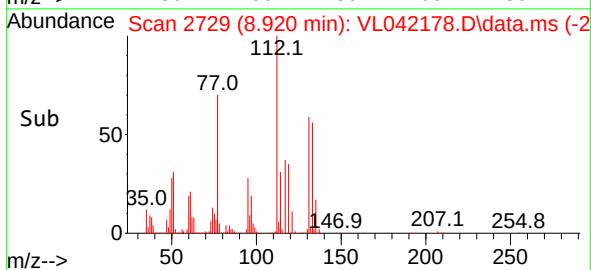
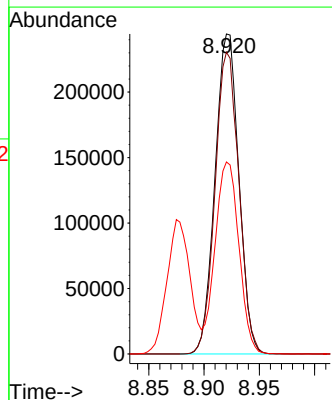
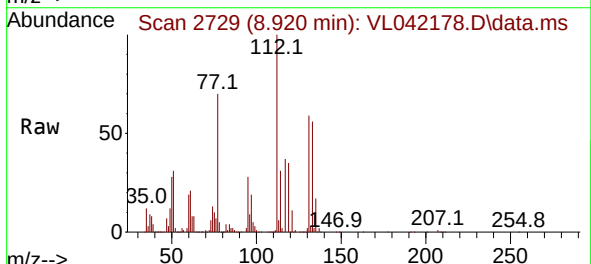
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC015

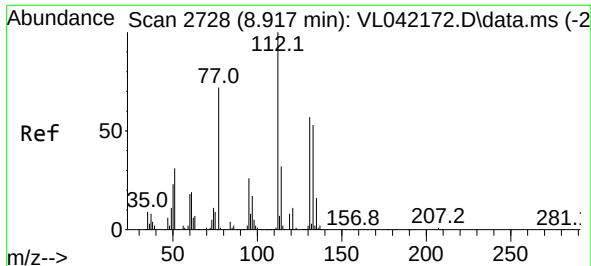
Tgt Ion:117 Resp: 473077
Ion Ratio Lower Upper
117 100
82 71.4 55.8 83.6
119 31.7 25.5 38.3



#56
1,1,1,2-Tetrachloroethane
Concen: 14.032 ppbv
RT: 8.920 min Scan# 2729
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion:131 Resp: 365410
Ion Ratio Lower Upper
131 100
133 94.5 76.6 114.8
119 61.2 49.8 74.6

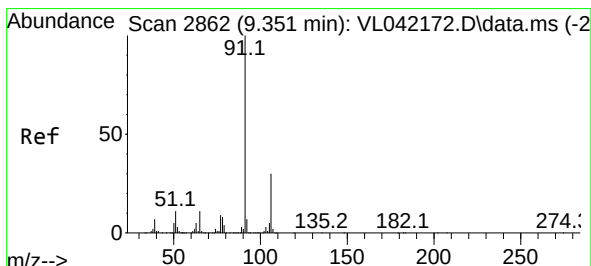
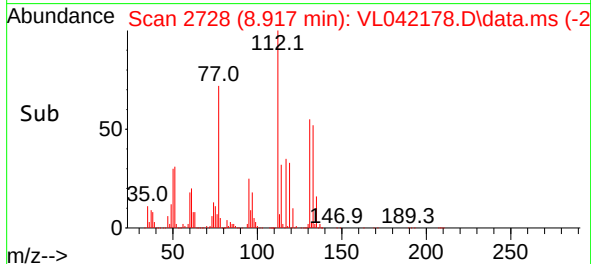
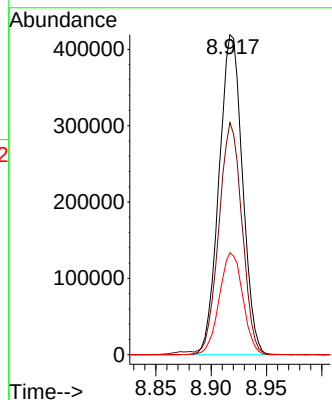
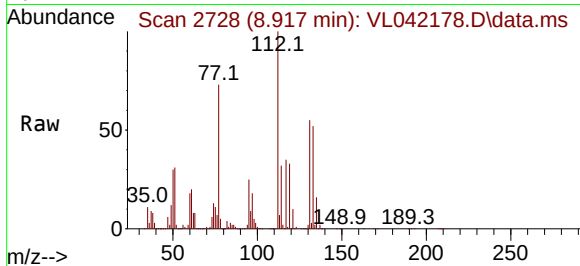




#57
Chlorobenzene
Concen: 13.777 ppbv
RT: 8.917 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

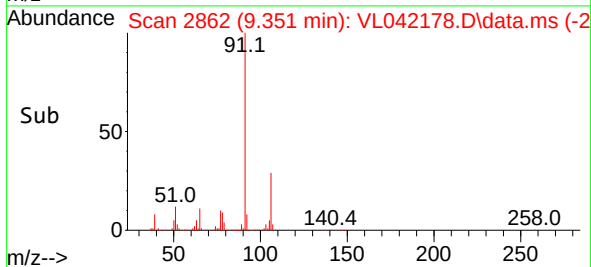
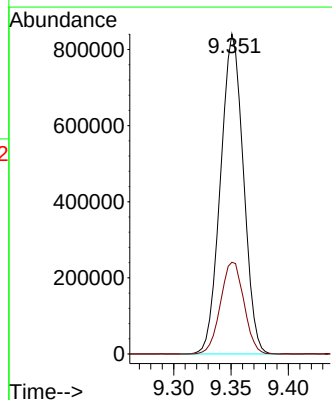
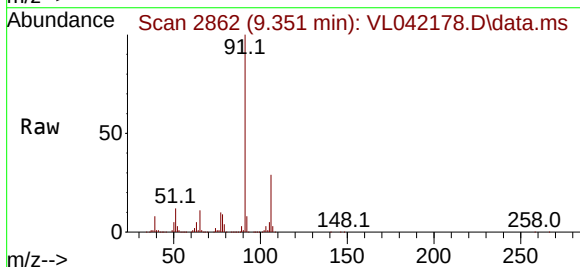
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

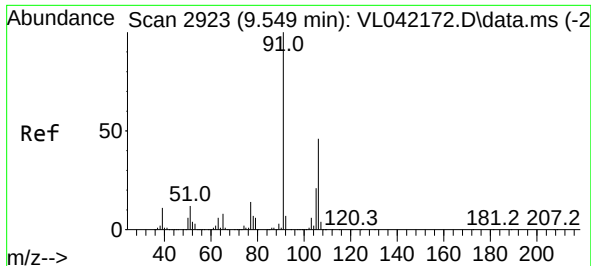
Tgt Ion:112 Resp: 618201
Ion Ratio Lower Upper
112 100
77 72.5 58.2 87.2
114 31.8 29.1 35.5



#58
Ethyl Benzene
Concen: 13.889 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 91 Resp: 1167096
Ion Ratio Lower Upper
91 100
106 28.7 24.2 36.2

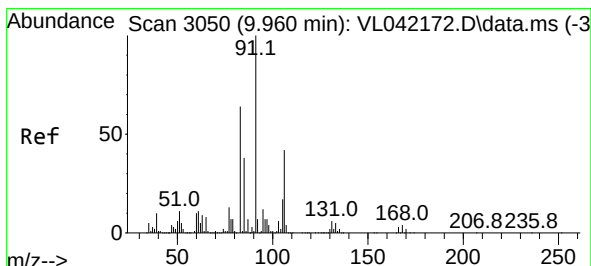
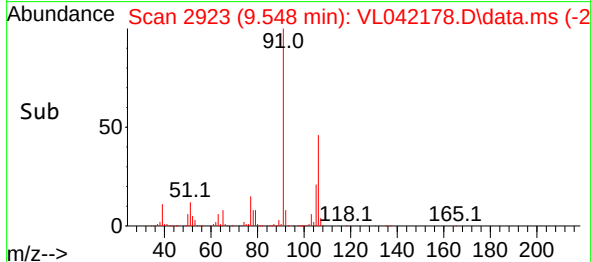
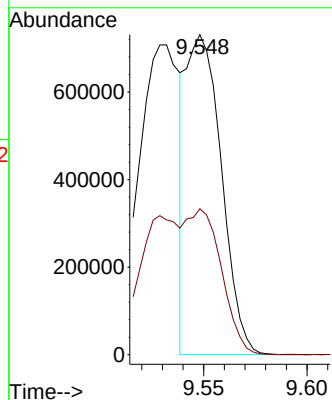
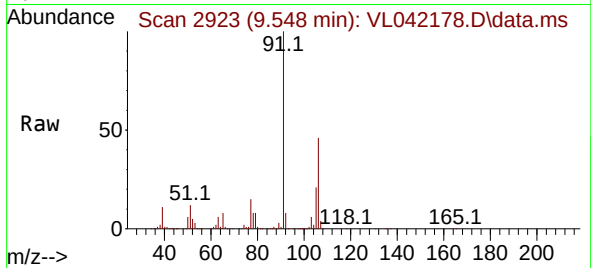




#59
m/p-Xylene
Concen: 12.901 ppbv
RT: 9.548 min Scan# 2923
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

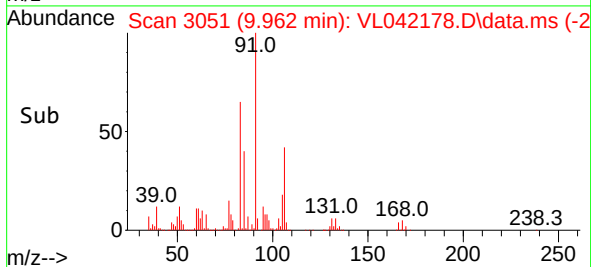
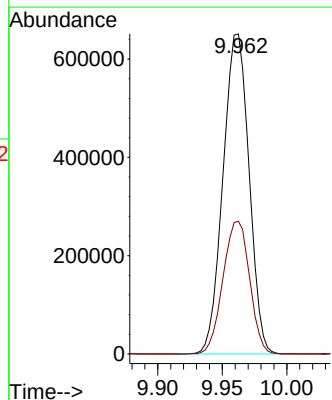
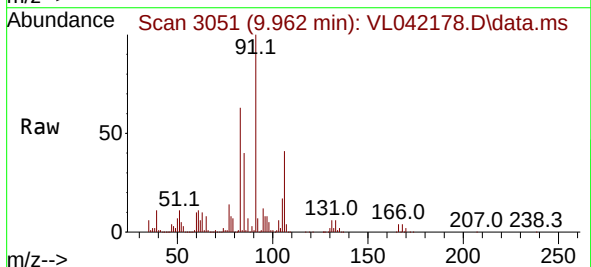
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

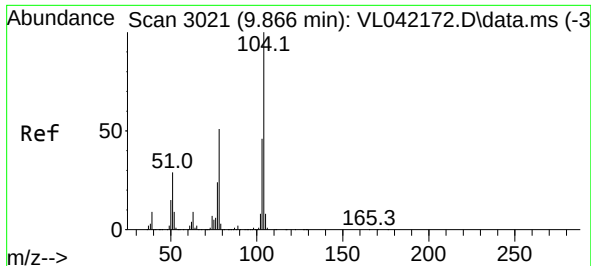
Tgt Ion: 91 Resp: 866684
Ion Ratio Lower Upper
91 100
106 96.9 36.4 54.6#



#60
o-Xylene
Concen: 13.577 ppbv
RT: 9.962 min Scan# 3051
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 91 Resp: 913234
Ion Ratio Lower Upper
91 100
106 42.4 20.8 62.5

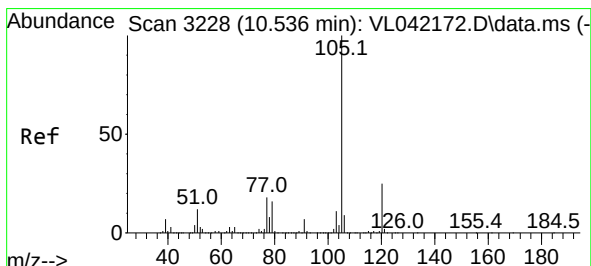
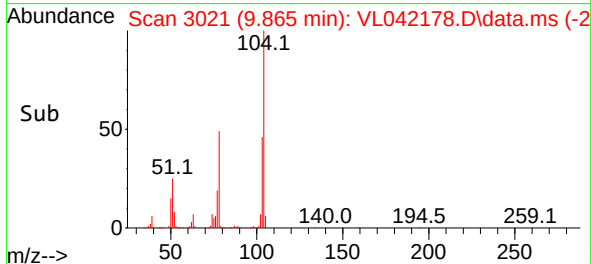
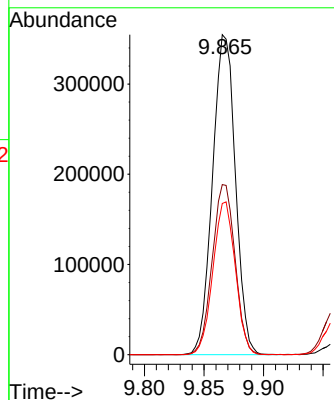
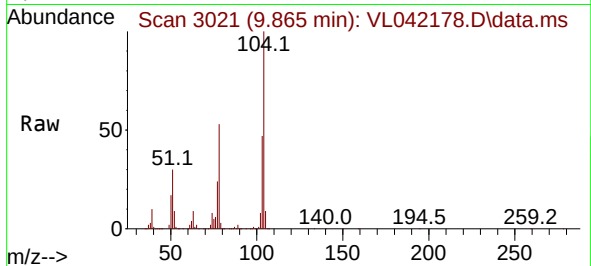




#61
Styrene
Concen: 14.250 ppbv
RT: 9.865 min Scan# 3021
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

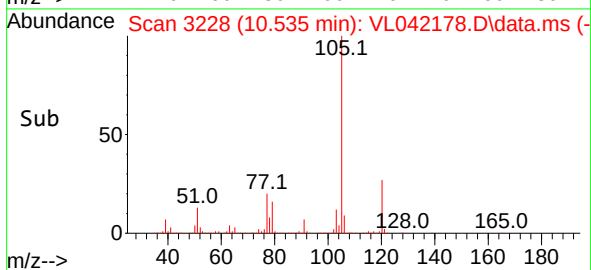
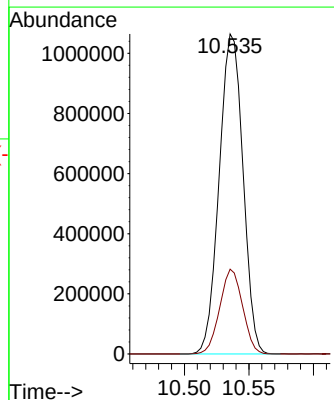
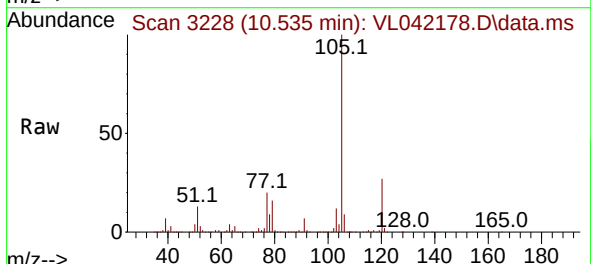
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC015

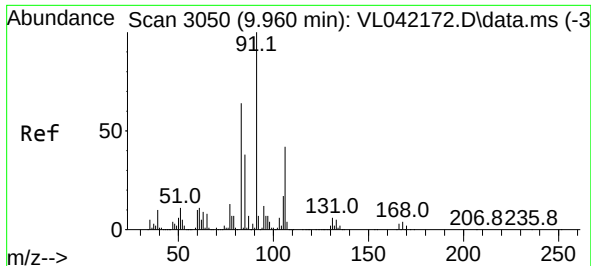
Tgt Ion:104 Resp: 474195
Ion Ratio Lower Upper
104 100
78 53.0 41.8 62.6
103 46.7 37.0 55.4



#62
Isopropylbenzene
Concen: 13.544 ppbv
RT: 10.535 min Scan# 3228
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion:105 Resp: 1362416
Ion Ratio Lower Upper
105 100
120 25.3 19.9 29.9

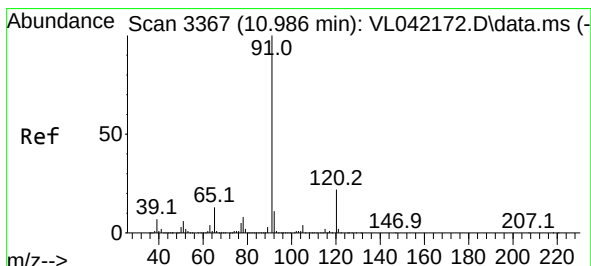
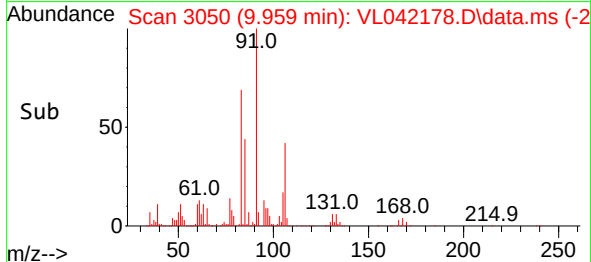
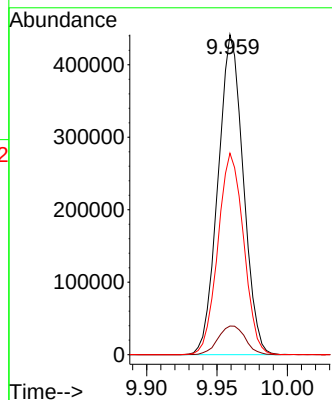
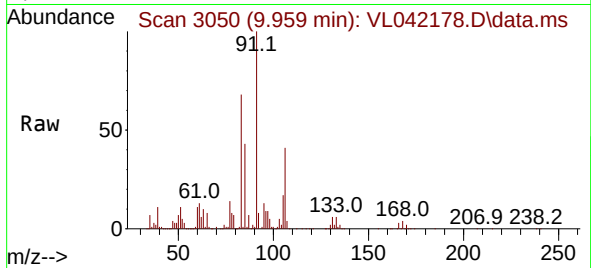




#63
1,1,2,2-Tetrachloroethane
Concen: 13.491 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

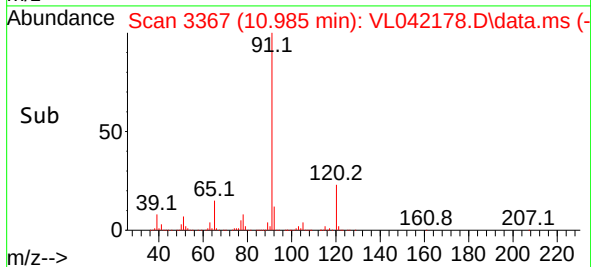
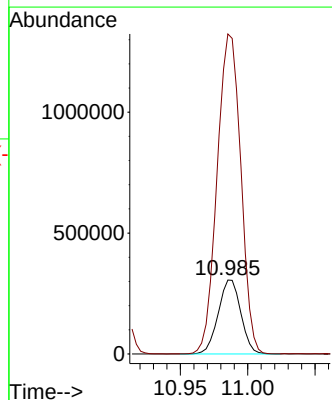
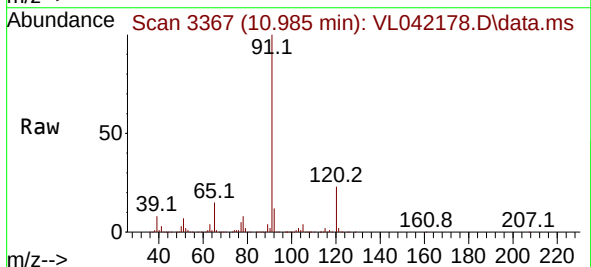
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

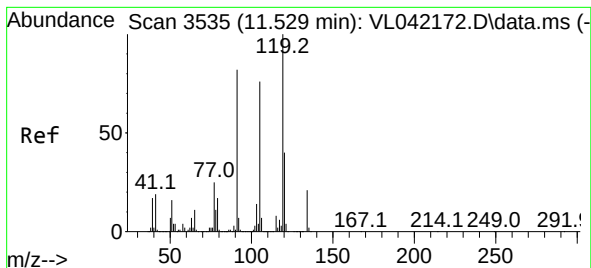
Tgt Ion: 83 Resp: 551386
Ion Ratio Lower Upper
83 100
131 9.6 4.8 14.4
85 64.2 32.5 97.5



#64
n-propylbenzene
Concen: 13.753 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 120 Resp: 356118
Ion Ratio Lower Upper
120 100
91 455.4 376.9 565.3

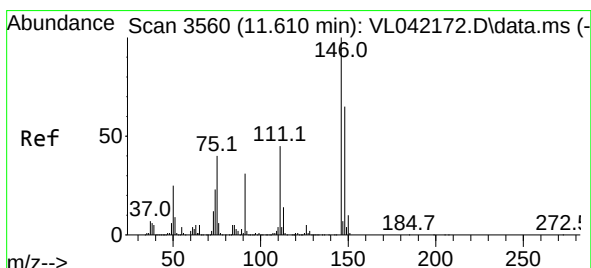
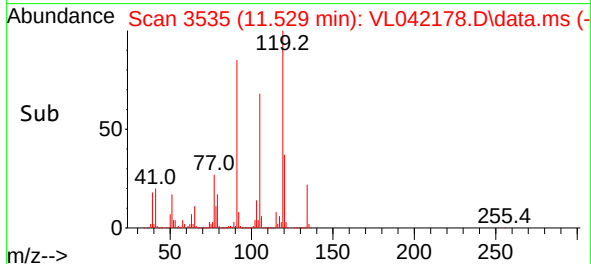
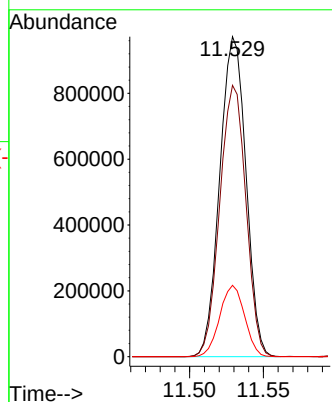
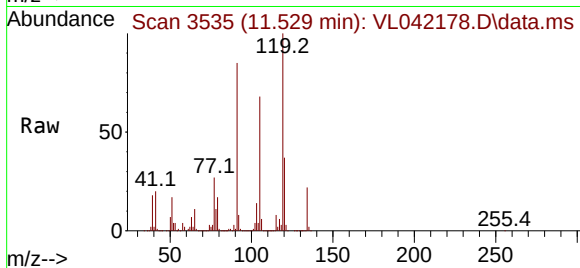




#65
tert-Butylbenzene
Concen: 12.901 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

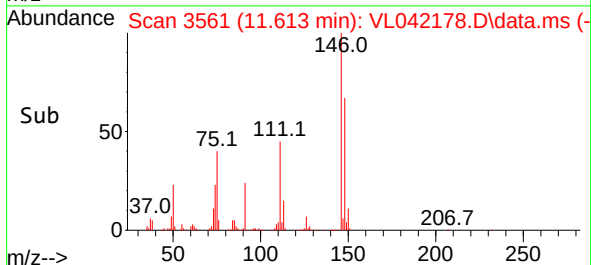
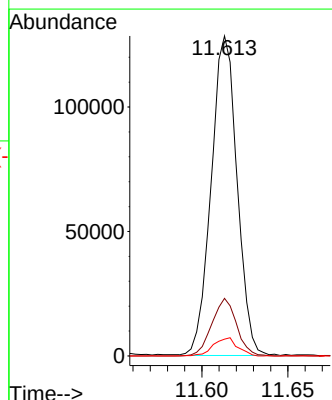
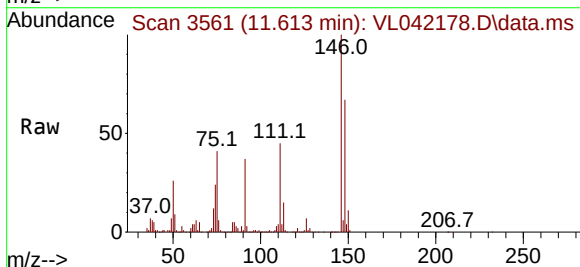
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

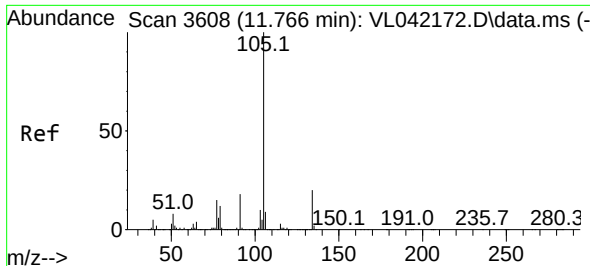
Tgt Ion:119 Resp: 1200149
Ion Ratio Lower Upper
119 100
91 84.6 66.0 99.0
134 21.2 16.7 25.1



#66
Benzyl Chloride
Concen: 13.615 ppbv
RT: 11.613 min Scan# 3561
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 91 Resp: 134397
Ion Ratio Lower Upper
91 100
126 17.3 13.8 20.6
128 5.4 4.5 6.7

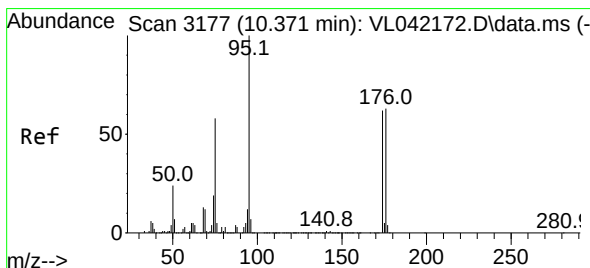
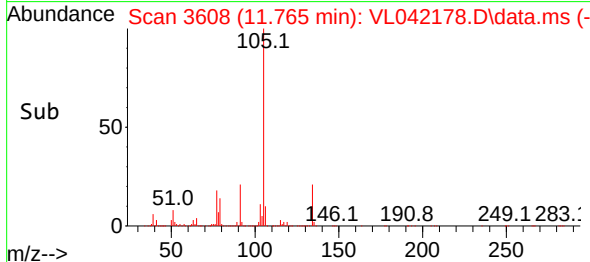
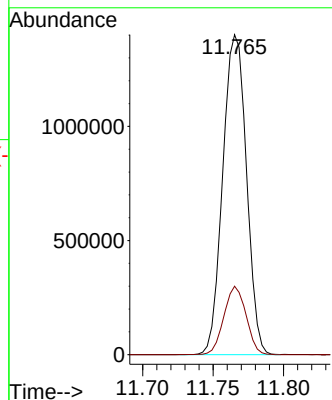
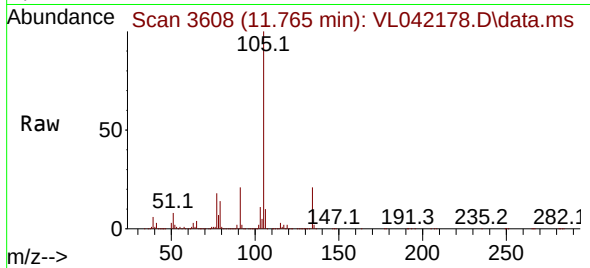




#67
 sec-Butylbenzene
 Concen: 12.711 ppbv
 RT: 11.765 min Scan# 3178
 Delta R.T. -0.000 min
 Lab File: VL042178.D
 Acq: 27 Mar 2025 11:36

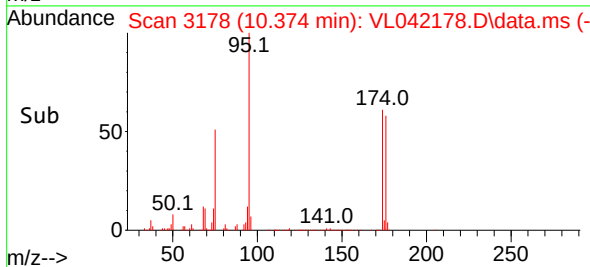
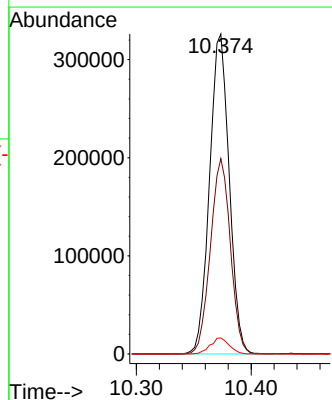
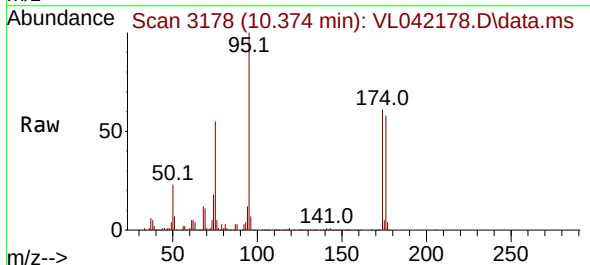
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC015

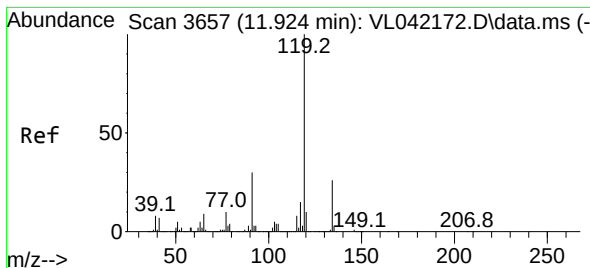
Tgt Ion:105 Resp: 1643629
 Ion Ratio Lower Upper
 105 100
 134 20.0 15.5 23.3



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.981 ppbv
 RT: 10.374 min Scan# 3178
 Delta R.T. 0.003 min
 Lab File: VL042178.D
 Acq: 27 Mar 2025 11:36

Tgt Ion: 95 Resp: 387777
 Ion Ratio Lower Upper
 95 100
 174 62.1 50.6 76.0
 175 4.8 3.8 5.6

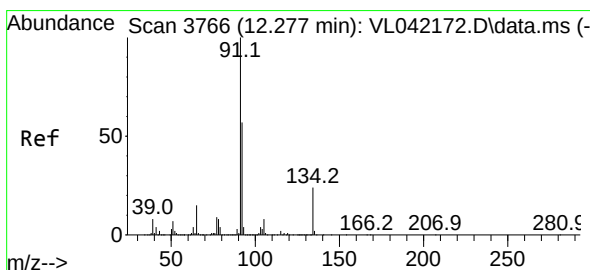
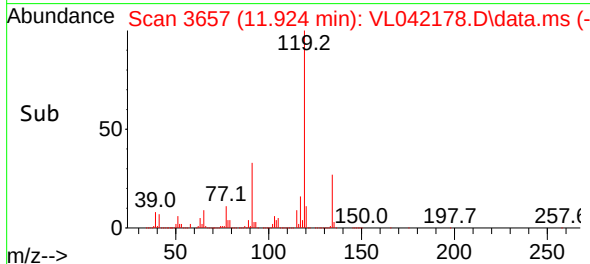
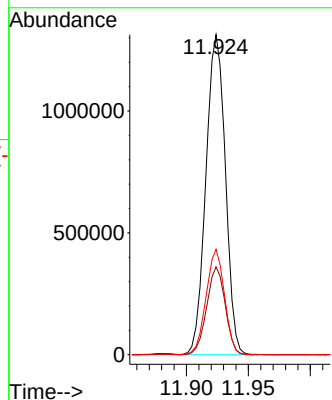
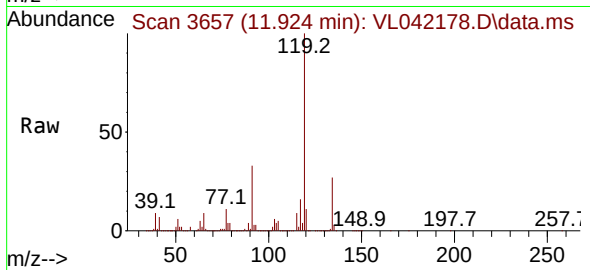




#69
 p-Isopropyltoluene
 Concen: 12.906 ppbv
 RT: 11.924 min Scan# 3657
 Delta R.T. -0.000 min
 Lab File: VL042178.D
 Acq: 27 Mar 2025 11:36

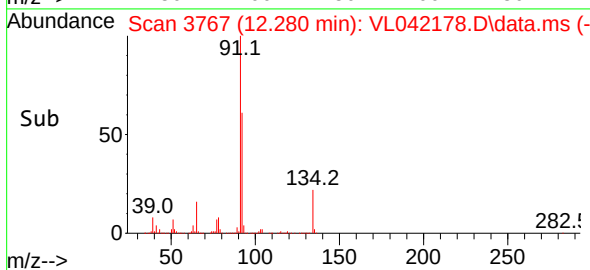
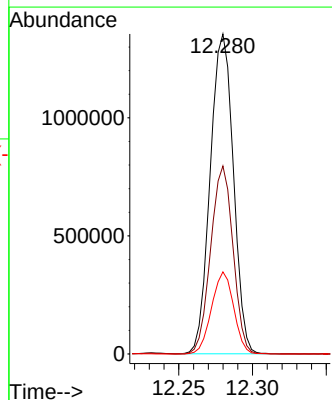
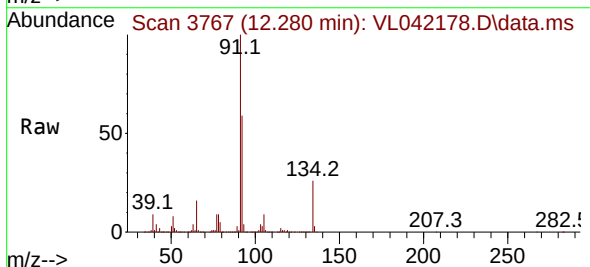
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

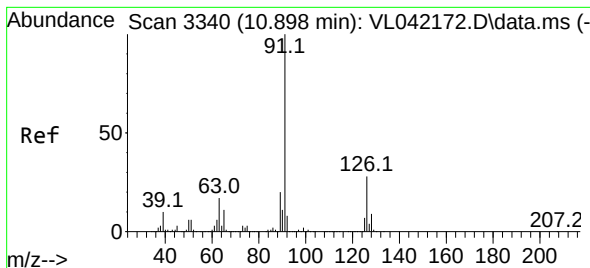
Tgt Ion:119 Resp: 1437016
 Ion Ratio Lower Upper
 119 100
 134 26.2 20.4 30.6
 91 31.2 23.7 35.5



#70
 n-Butylbenzene
 Concen: 12.975 ppbv
 RT: 12.280 min Scan# 3767
 Delta R.T. 0.003 min
 Lab File: VL042178.D
 Acq: 27 Mar 2025 11:36

Tgt Ion: 91 Resp: 1477443
 Ion Ratio Lower Upper
 91 100
 92 57.0 44.9 67.3
 134 24.6 19.2 28.8

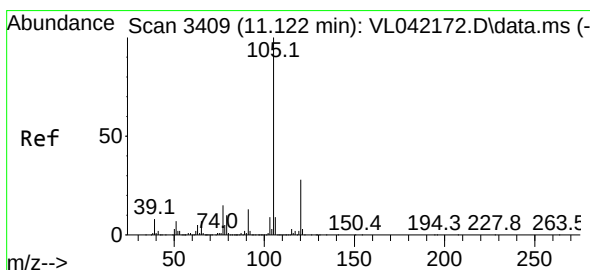
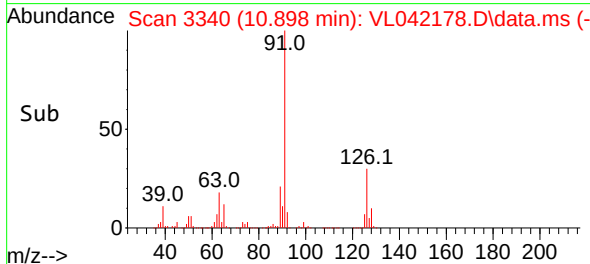
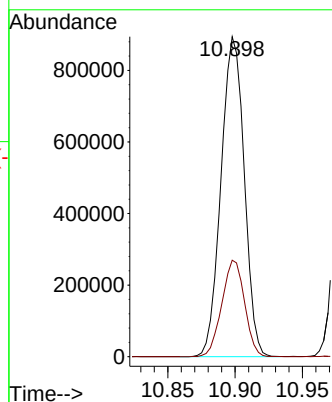
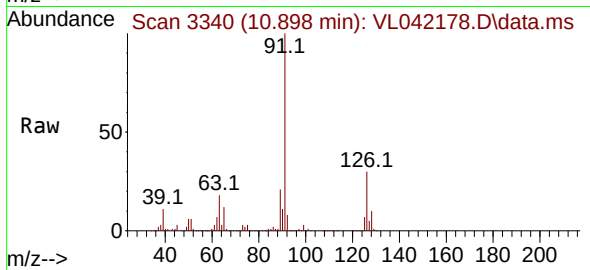




#71
2-Chlorotoluene
Concen: 13.724 ppbv
RT: 10.898 min Scan# 31
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

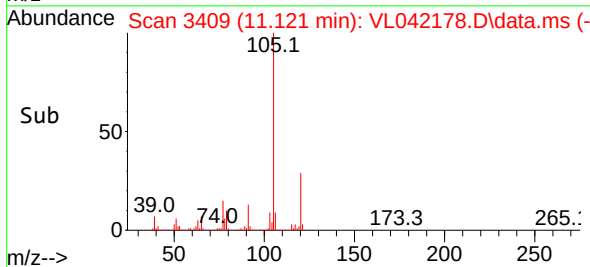
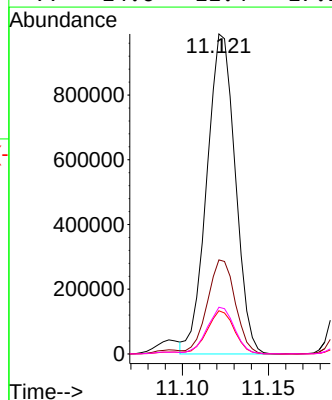
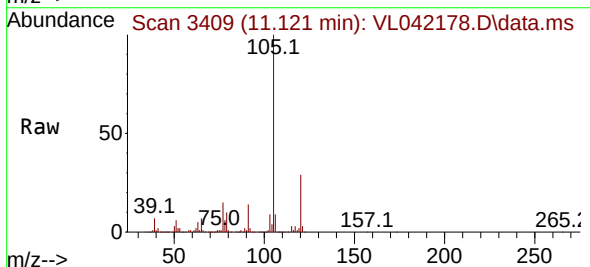
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

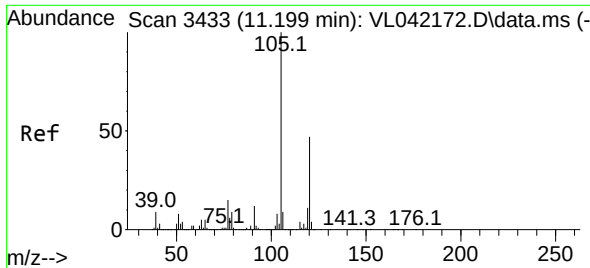
Tgt Ion: 91 Resp: 1071432
Ion Ratio Lower Upper
91 100
126 29.5 11.6 46.4



#72
4-Ethyltoluene
Concen: 13.569 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 105 Resp: 1136415
Ion Ratio Lower Upper
105 100
120 30.1 23.4 35.0
91 13.5 10.3 15.5
77 14.6 11.4 17.2

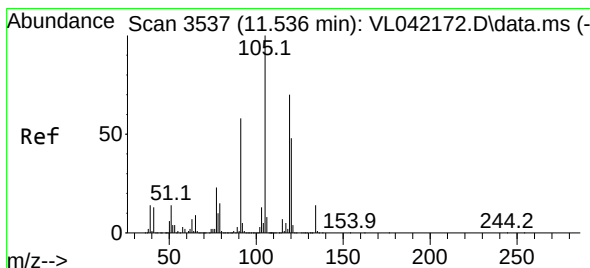
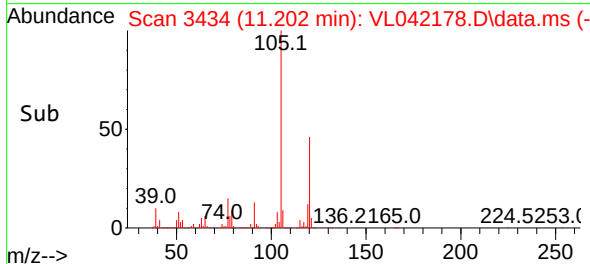
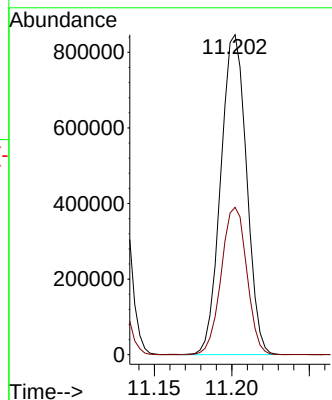
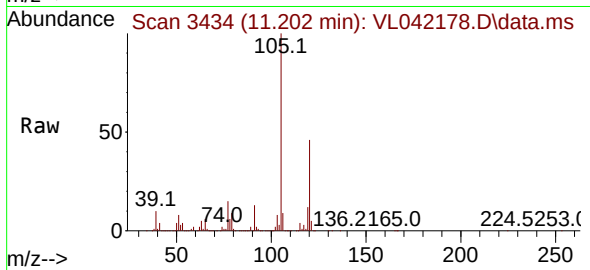




#73
1,3,5-Trimethylbenzene
Concen: 13.395 ppbv
RT: 11.202 min Scan# 3434
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

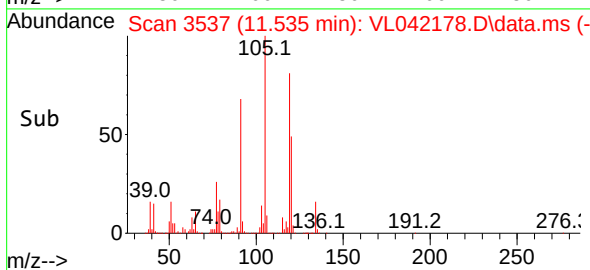
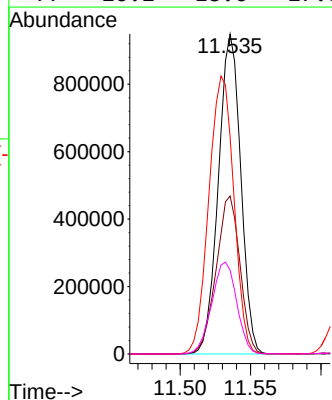
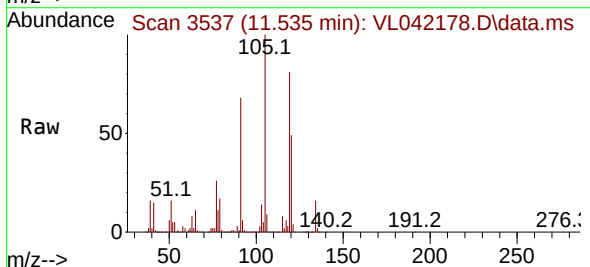
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

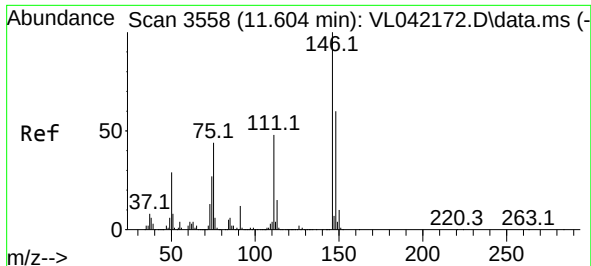
Tgt Ion:105 Resp: 979783
Ion Ratio Lower Upper
105 100
120 46.1 37.4 56.0



#74
1,2,4-Trimethylbenzene
Concen: 12.447 ppbv
RT: 11.535 min Scan# 3537
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion:105 Resp: 1048874
Ion Ratio Lower Upper
105 100
120 49.3 38.6 58.0
91 67.8 46.2 69.2
77 26.2 18.6 27.8

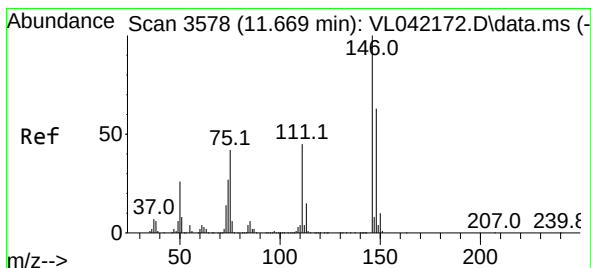
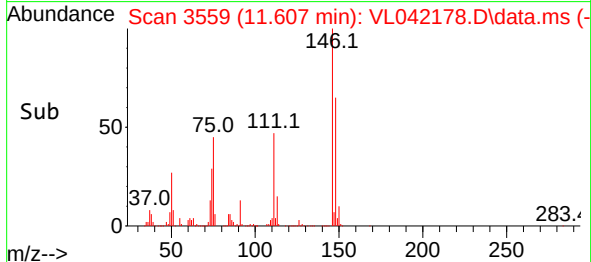
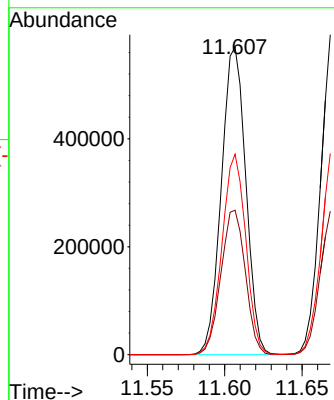
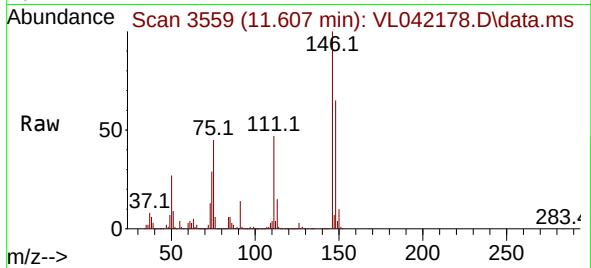




#75
1,3-Dichlorobenzene
Concen: 13.545 ppbv
RT: 11.607 min Scan# 3558
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

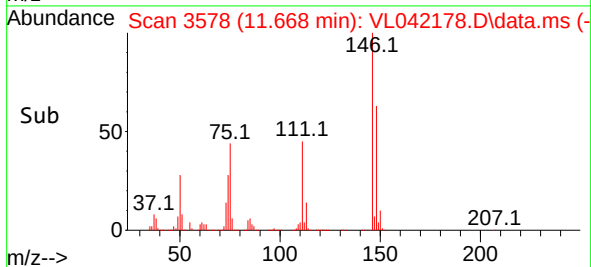
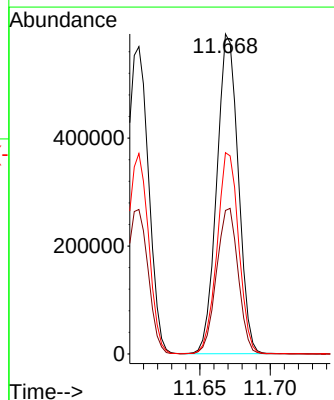
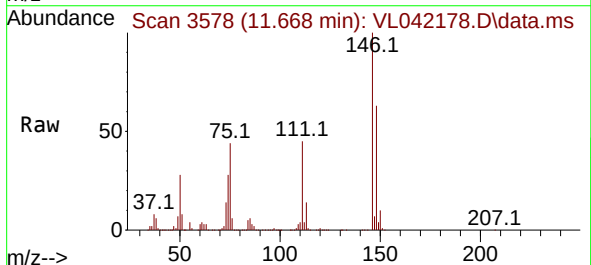
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

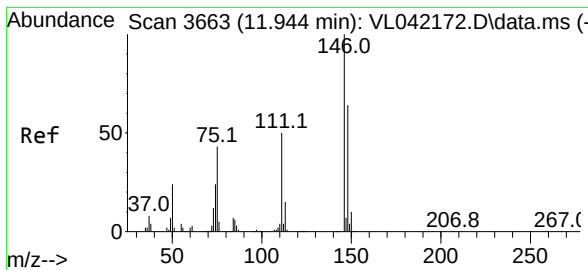
Tgt Ion:146 Resp: 626015
Ion Ratio Lower Upper
146 100
111 47.0 23.8 71.2
148 63.5 31.9 95.9



#76
1,4-Dichlorobenzene
Concen: 13.668 ppbv
RT: 11.668 min Scan# 3578
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion:146 Resp: 628694
Ion Ratio Lower Upper
146 100
111 46.1 23.0 69.0
148 63.6 31.9 95.7

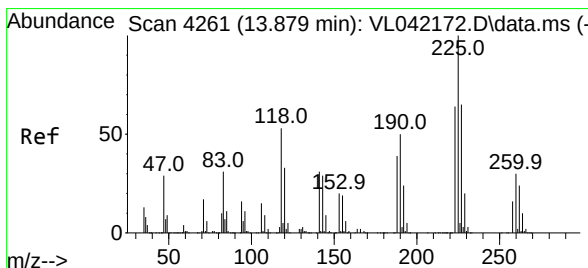
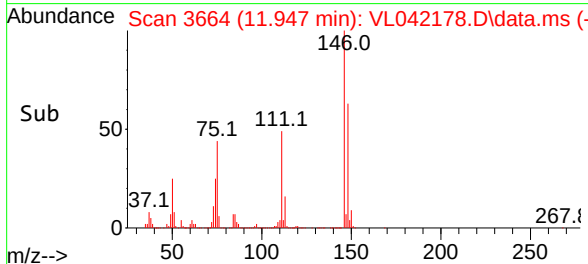
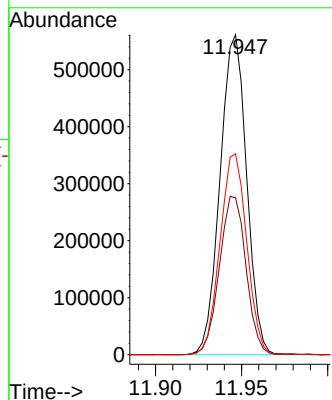
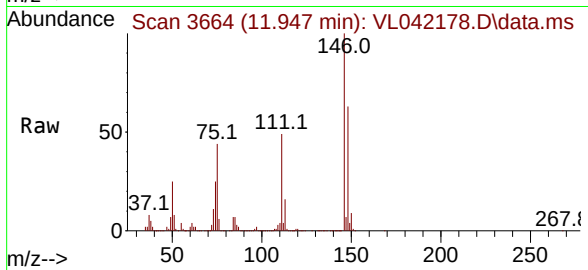




#77
1,2-Dichlorobenzene
Concen: 13.396 ppbv
RT: 11.947 min Scan# 3664
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

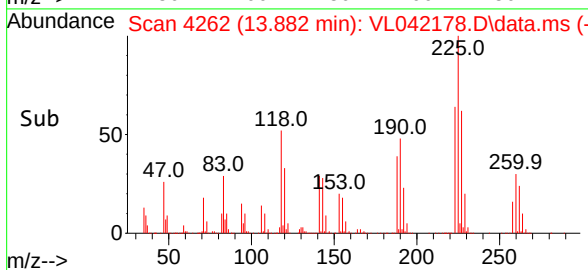
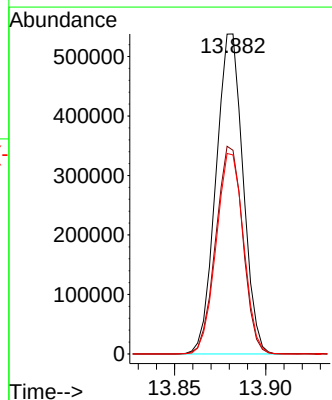
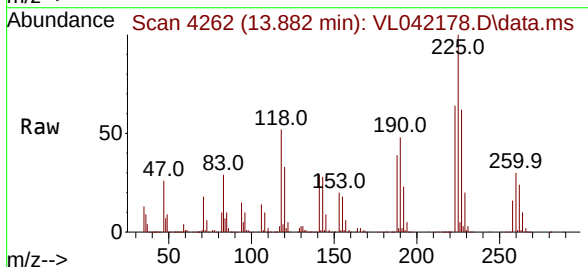
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MSVOA_1
ClientSampleId :
VSTDIC015

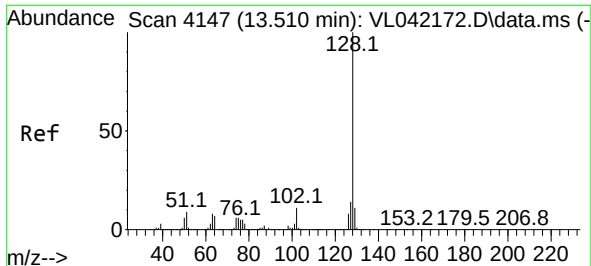
Tgt Ion:146 Resp: 602844
Ion Ratio Lower Upper
146 100
111 49.7 24.8 74.3
148 63.3 31.6 94.8



#78
Hexachloro-1,3-Butadiene
Concen: 12.147 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion:225 Resp: 556392
Ion Ratio Lower Upper
225 100
223 64.7 50.6 76.0
227 63.3 51.2 76.8

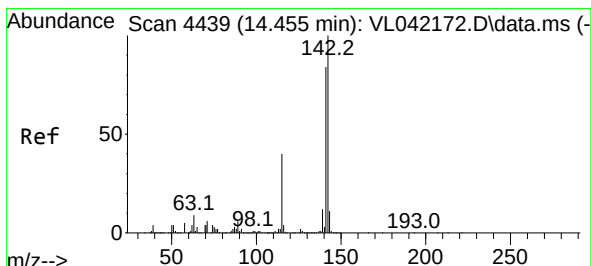
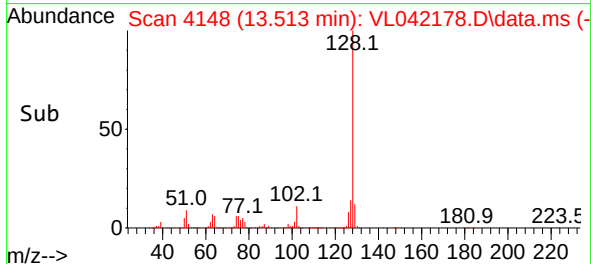
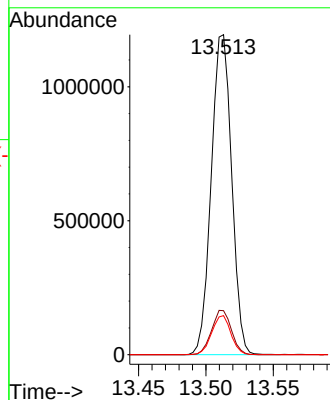
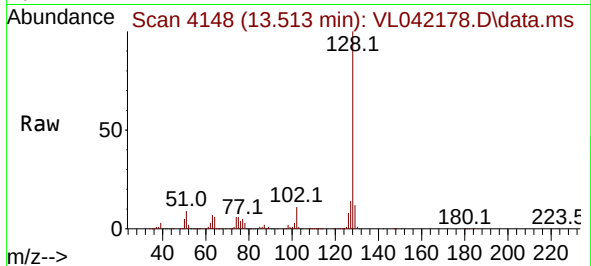




#79
Naphthalene
Concen: 13.653 ppbv
RT: 13.513 min Scan# 4147
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

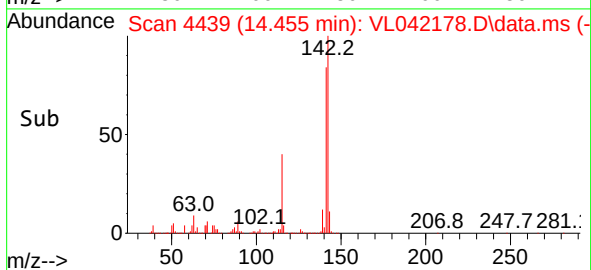
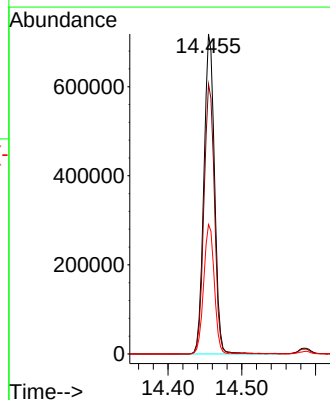
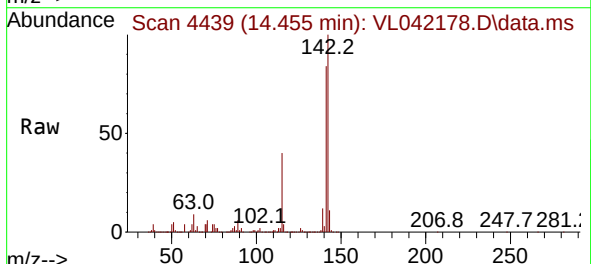
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

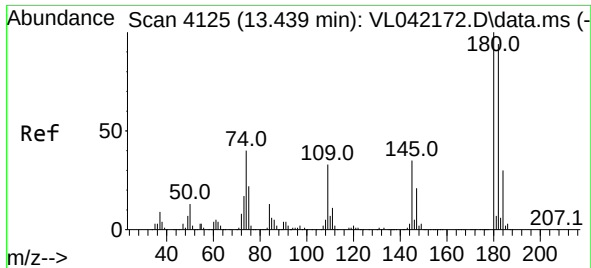
Tgt Ion:128 Resp: 1258479
Ion Ratio Lower Upper
128 100
127 13.8 10.8 16.2
129 12.2 9.0 13.4



#80
Naphthalene,2-methyl-
Concen: 16.018 ppbv
RT: 14.455 min Scan# 4439
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

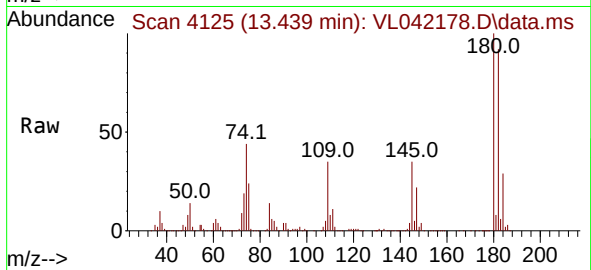
Tgt Ion:142 Resp: 718900
Ion Ratio Lower Upper
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141 84.3 66.3 99.5
115 40.6 31.6 47.4



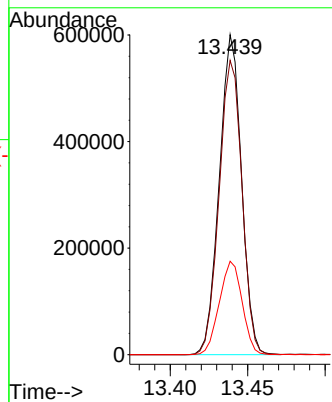
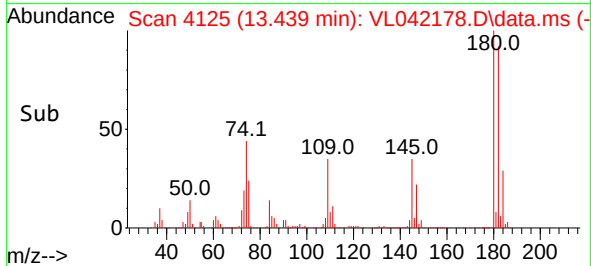


#81
 1,2,4-Trichlorobenzene
 Concen: 14.075 ppbv
 RT: 13.439 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VL042178.D
 Acq: 27 Mar 2025 11:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



Tgt Ion:180 Resp: 598416
 Ion Ratio Lower Upper
 180 100
 182 94.7 75.1 112.7
 184 30.1 24.4 36.6



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

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

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 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
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 QLast Update : Fri Mar 28 02:00:52 2025
 Response via : Initial Calibration

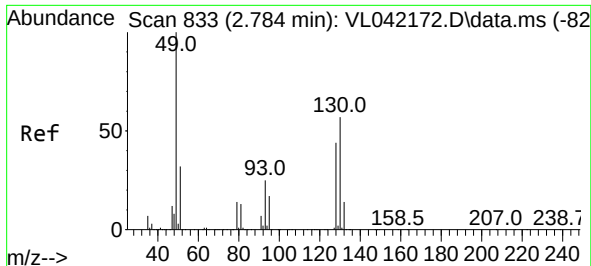
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	265101	9.643	ppbv	98
47) 1,1,2-Trichloroethane	6.577	97	183228	9.638	ppbv	98
48) Dibromochloromethane	7.383	129	322766	10.018	ppbv	100
49) Bromoform	9.480	173	285149	9.858	ppbv	99
50) 4-Methyl-2-Pentanone	5.749	43	500791	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	583773	8.695	ppbv #	20
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

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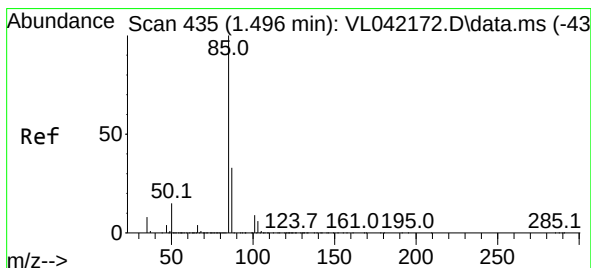
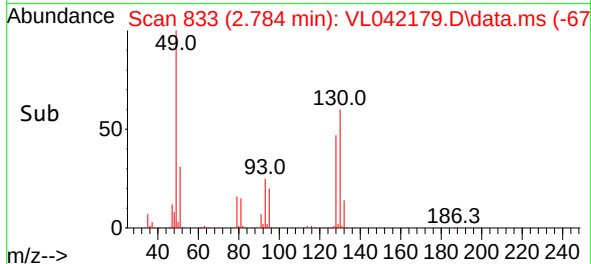
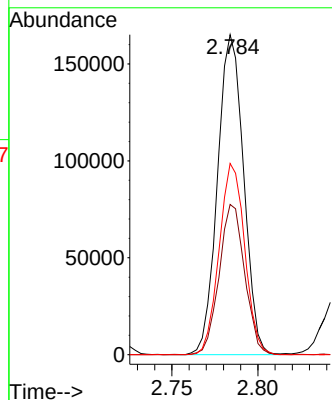
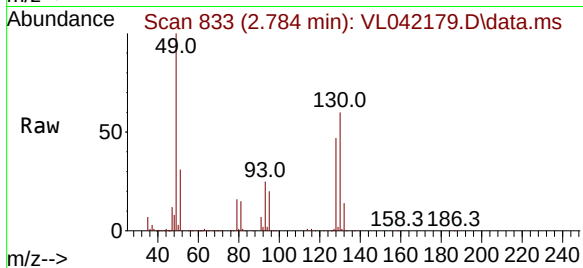




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

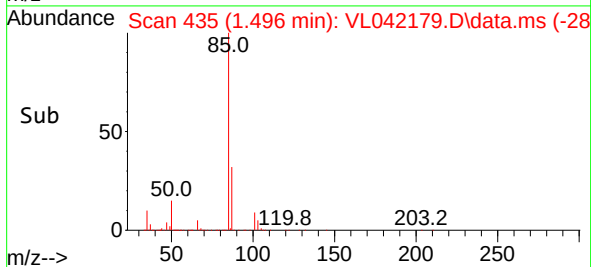
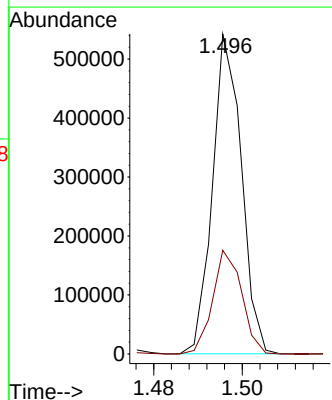
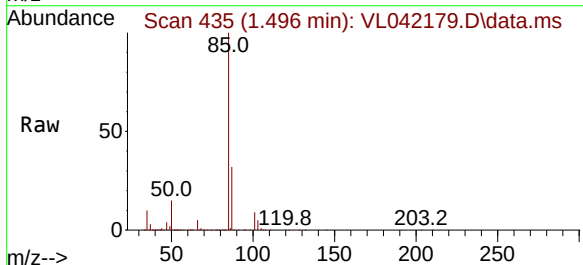
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ClientSampleId :
ICVVL032725

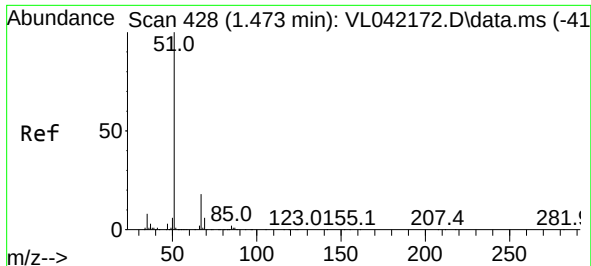
Tgt Ion: 49 Resp: 174350
Ion Ratio Lower Upper
49 100
128 45.8 22.9 68.5
130 58.4 28.8 86.4



#2
Dichlorodifluoromethane
Concen: 9.545 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 85 Resp: 245714
Ion Ratio Lower Upper
85 100
87 32.4 26.1 39.1

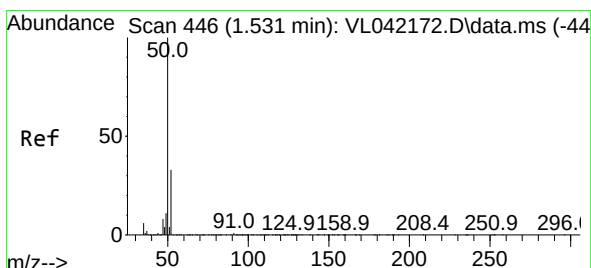
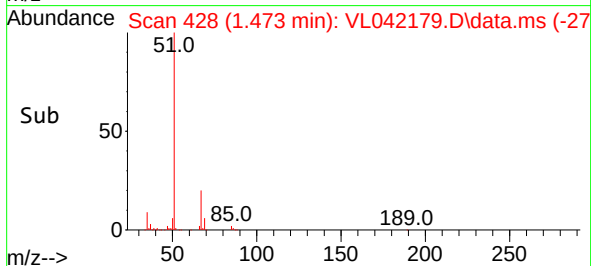
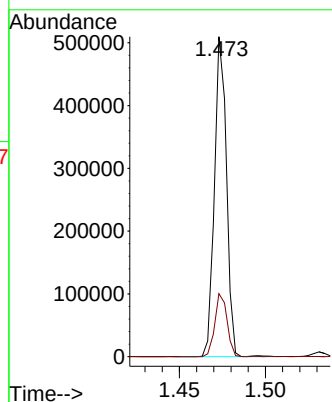
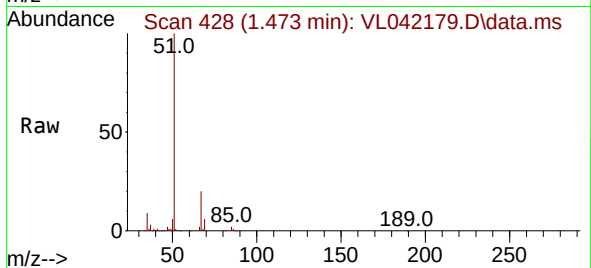




#3
Chlorodifluoromethane
Concen: 9.394 ppbv
RT: 1.473 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

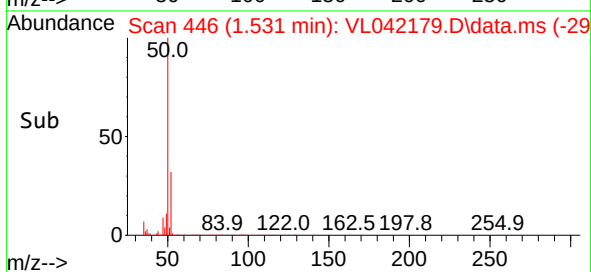
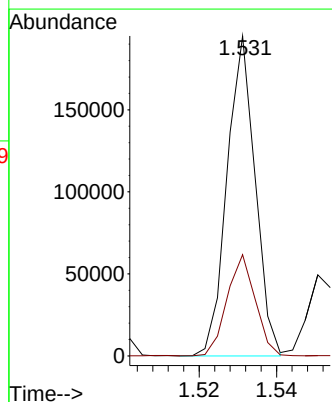
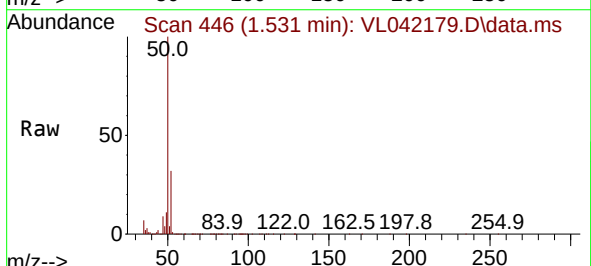
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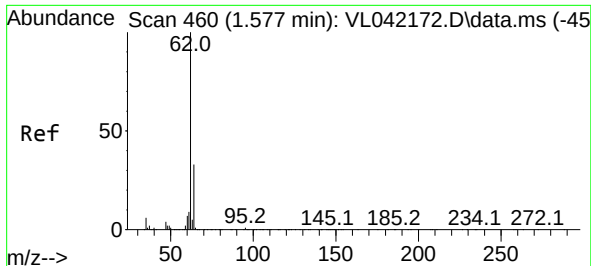
Tgt Ion: 51 Resp: 247046
Ion Ratio Lower Upper
51 100
67 20.1 15.0 22.6



#4
Chloromethane
Concen: 9.365 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 50 Resp: 98527
Ion Ratio Lower Upper
50 100
52 31.6 26.1 39.1

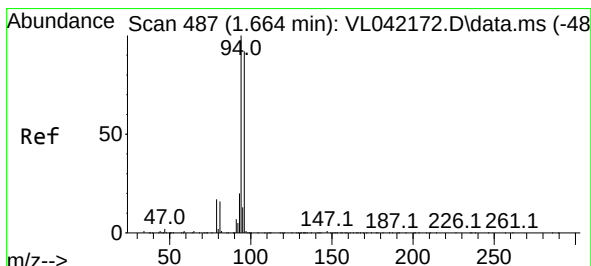
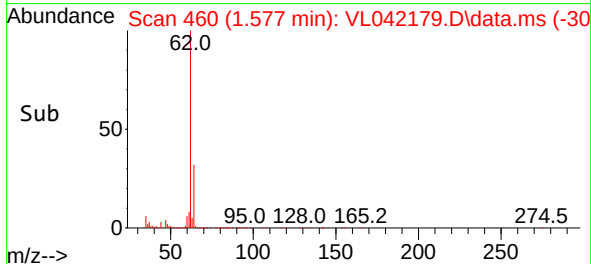
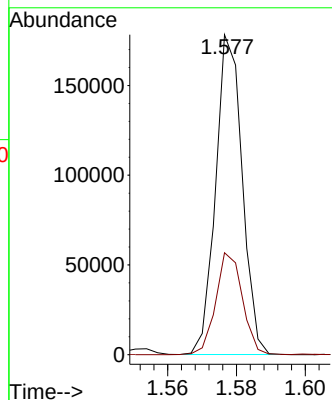
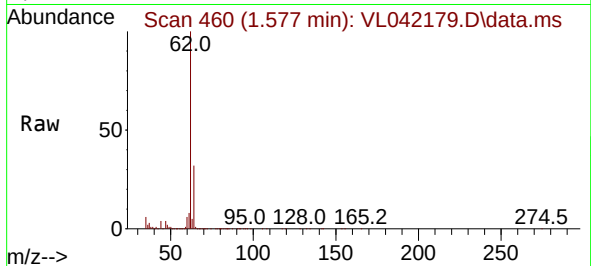




#5
 Vinyl Chloride
 Concen: 8.573 ppbv
 RT: 1.577 min Scan# 460
 Delta R.T. -0.000 min
 Lab File: VL042179.D
 Acq: 27 Mar 2025 12:23

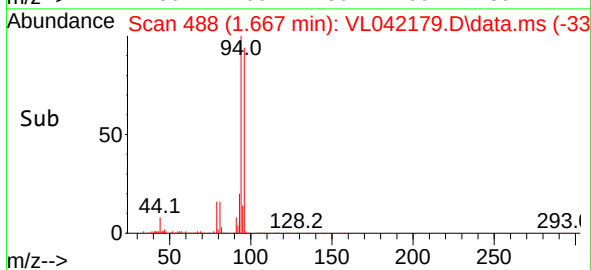
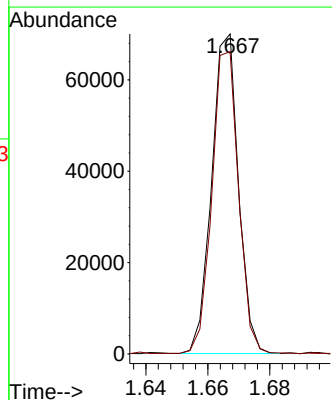
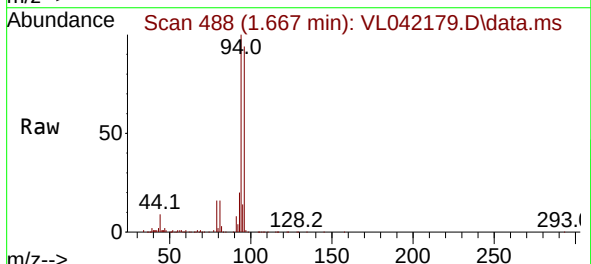
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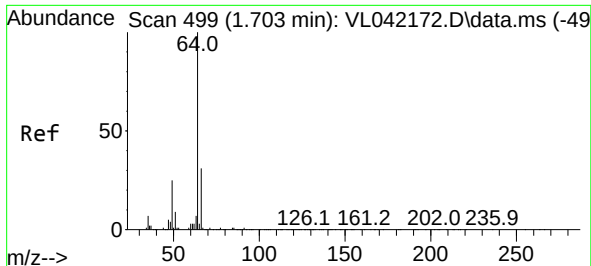
Tgt Ion: 62 Resp: 95578
 Ion Ratio Lower Upper
 62 100
 64 31.8 26.6 40.0



#6
 Bromomethane
 Concen: 8.799 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. 0.003 min
 Lab File: VL042179.D
 Acq: 27 Mar 2025 12:23

Tgt Ion: 94 Resp: 41950
 Ion Ratio Lower Upper
 94 100
 96 94.4 73.1 109.7

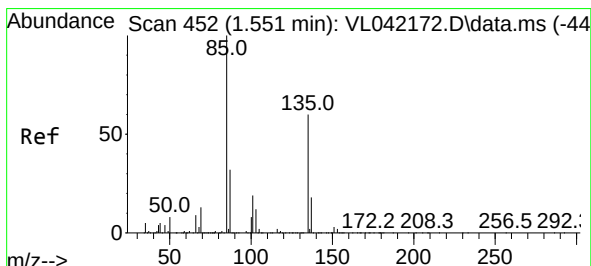
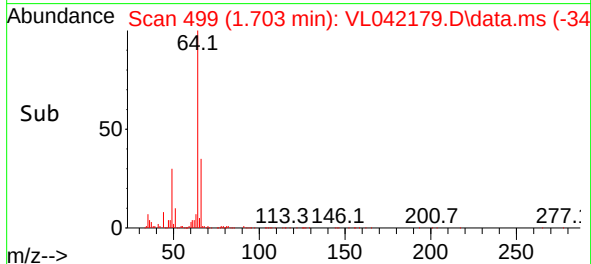
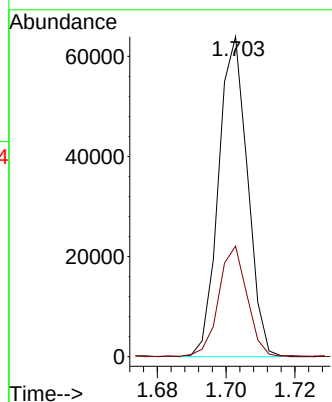
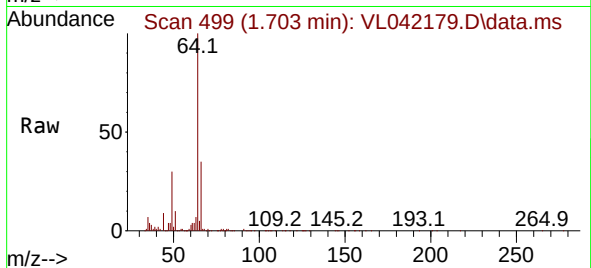




#7
Chloroethane
Concen: 8.856 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

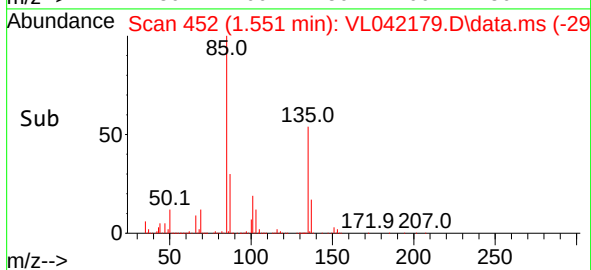
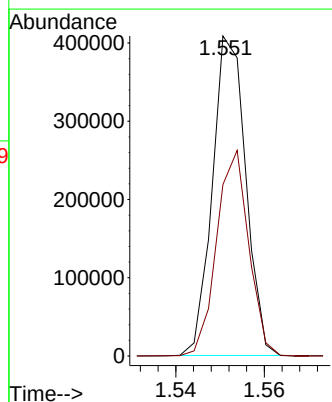
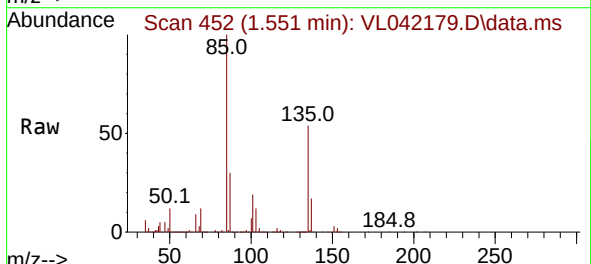
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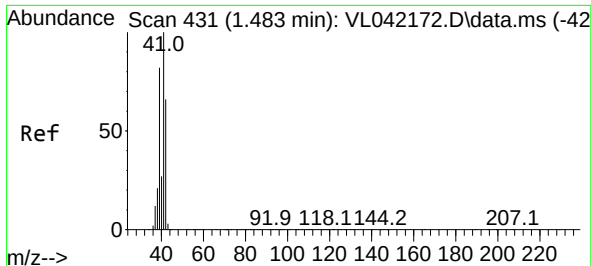
Tgt Ion: 64 Resp: 37400
Ion Ratio Lower Upper
64 100
66 34.5 25.2 37.8



#8
Dichlorotetrafluoroethane
Concen: 9.753 ppbv
RT: 1.551 min Scan# 452
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 85 Resp: 213819
Ion Ratio Lower Upper
85 100
135 61.9 52.4 78.6

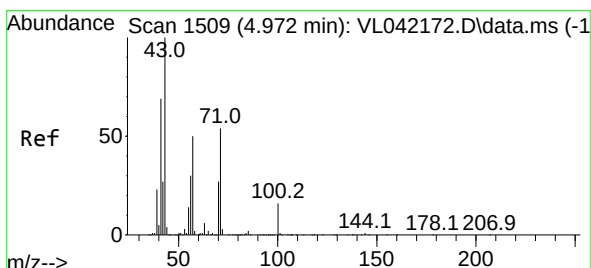
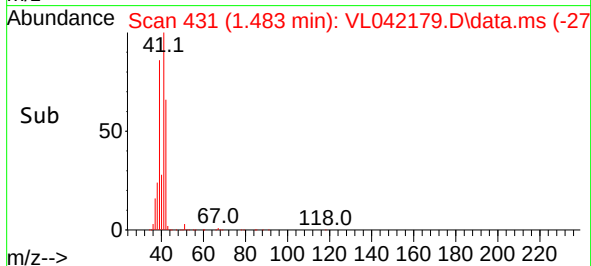
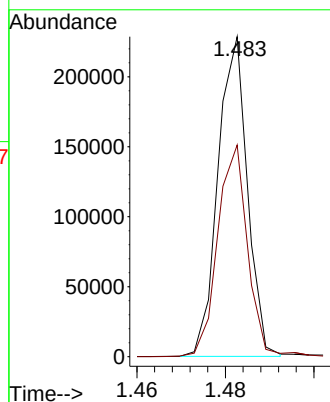
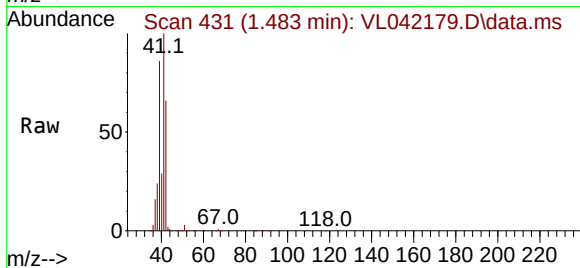




#9
 Propene
 Concen: 8.739 ppbv
 RT: 1.483 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VL042179.D
 Acq: 27 Mar 2025 12:23

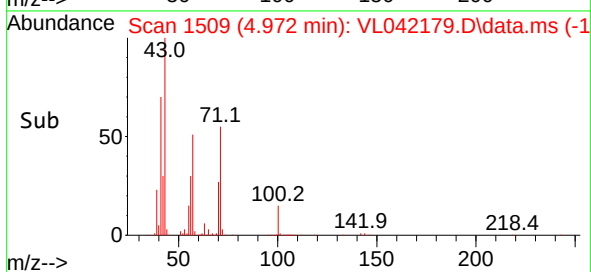
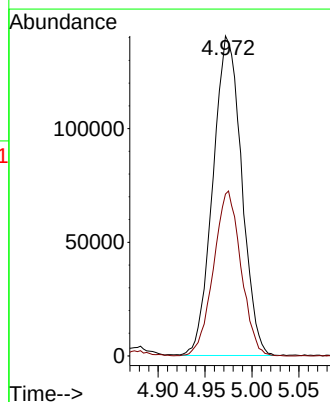
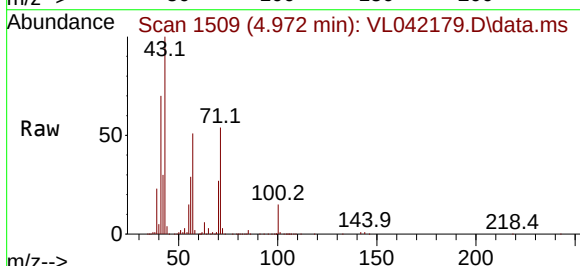
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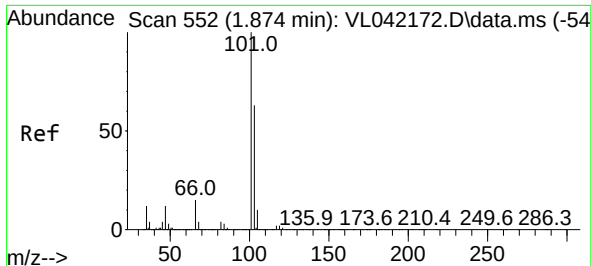
Tgt Ion: 41 Resp: 105338
 Ion Ratio Lower Upper
 41 100
 42 68.1 55.4 83.2



#10
 Heptane
 Concen: 9.318 ppbv
 RT: 4.972 min Scan# 1509
 Delta R.T. -0.000 min
 Lab File: VL042179.D
 Acq: 27 Mar 2025 12:23

Tgt Ion: 43 Resp: 298768
 Ion Ratio Lower Upper
 43 100
 57 49.5 39.4 59.2

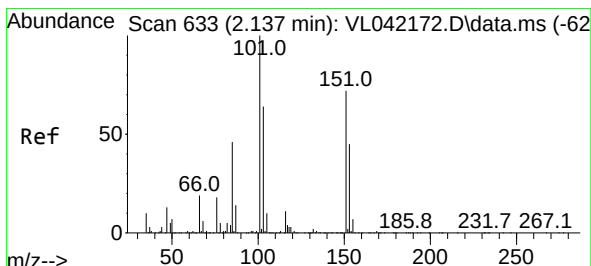
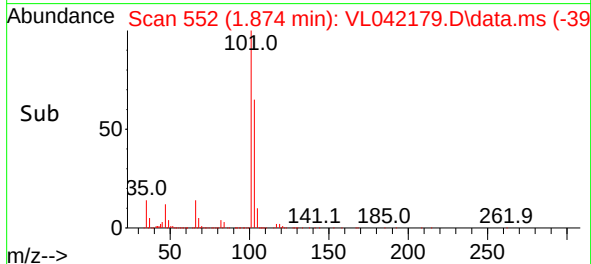
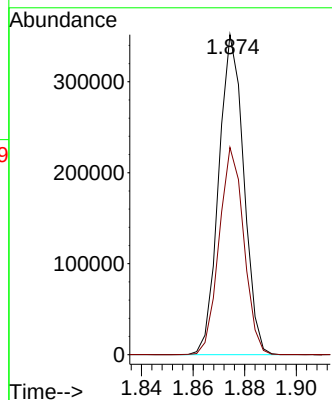
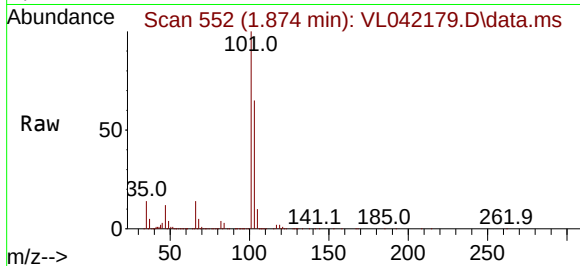




#11
 Trichlorofluoromethane
 Concen: 9.453 ppbv
 RT: 1.874 min Scan# 511
 Delta R.T. -0.000 min
 Lab File: VL042179.D
 Acq: 27 Mar 2025 12:23

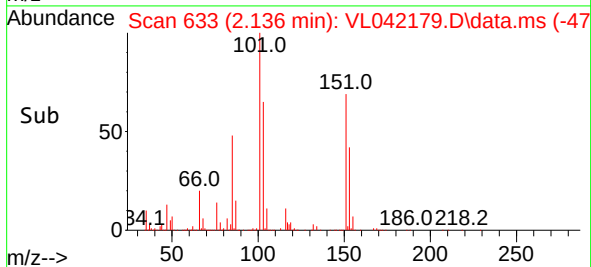
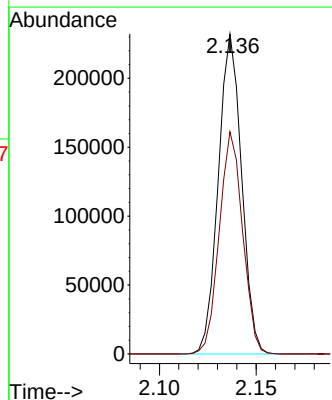
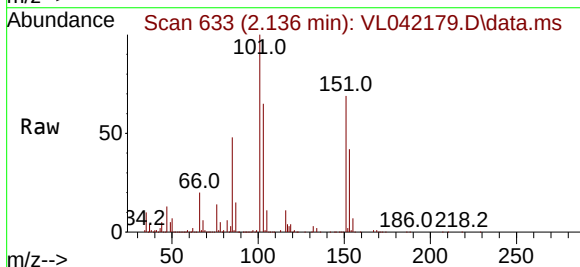
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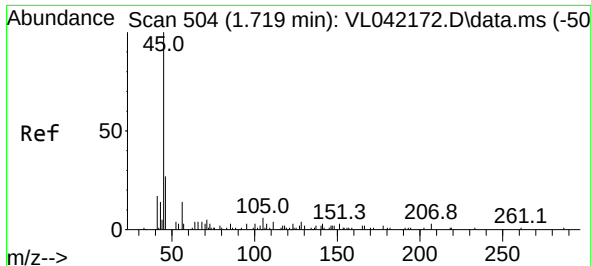
Tgt Ion:101 Resp: 236793
 Ion Ratio Lower Upper
 101 100
 103 64.7 50.2 75.2



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.421 ppbv
 RT: 2.136 min Scan# 633
 Delta R.T. -0.000 min
 Lab File: VL042179.D
 Acq: 27 Mar 2025 12:23

Tgt Ion:101 Resp: 193965
 Ion Ratio Lower Upper
 101 100
 151 69.6 57.1 85.7





#13

Ethanol

Concen: 5.066 ppbv

RT: 1.719 min Scan# 504

Delta R.T. -0.000 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

Instrument :

MSVOA_L

ClientSampleId :

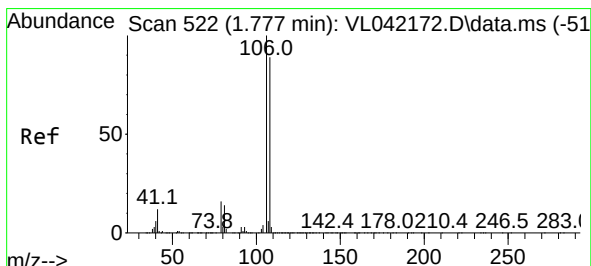
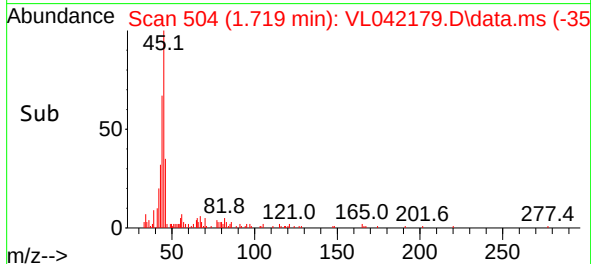
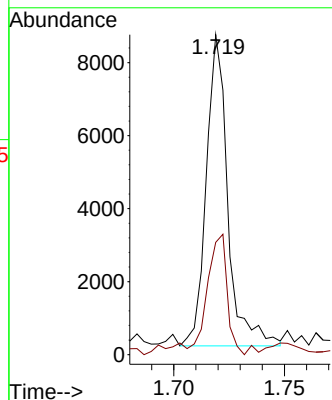
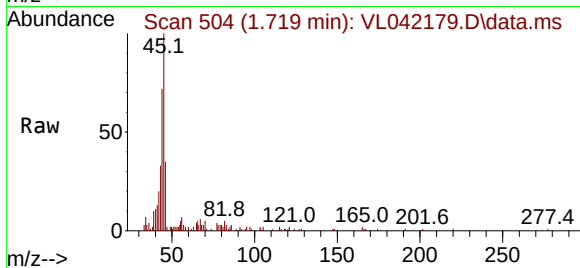
ICVVL032725

Tgt Ion: 45 Resp: 5773

Ion Ratio Lower Upper

45 100

46 48.5 20.2 80.8



#14

Bromoethene

Concen: 9.328 ppbv

RT: 1.780 min Scan# 523

Delta R.T. 0.003 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

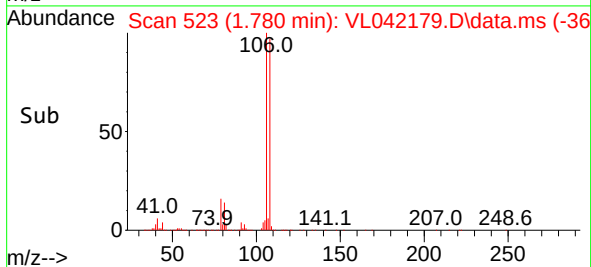
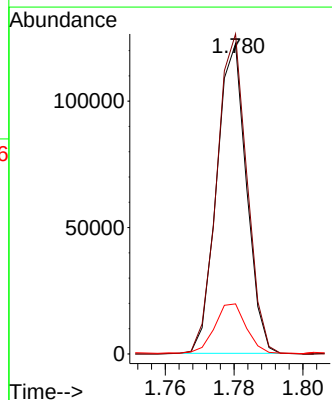
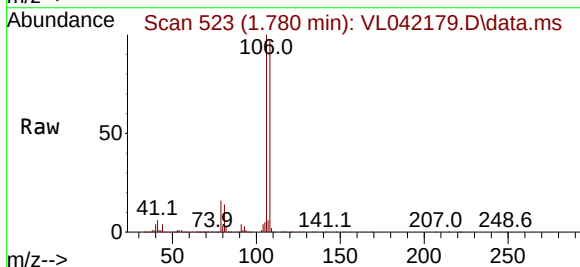
Tgt Ion: 108 Resp: 73572

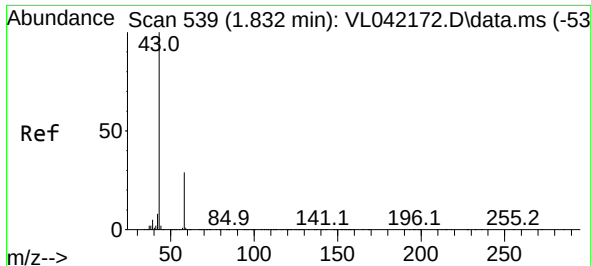
Ion Ratio Lower Upper

108 100

106 105.0 86.8 130.2

79 18.8 15.0 22.6

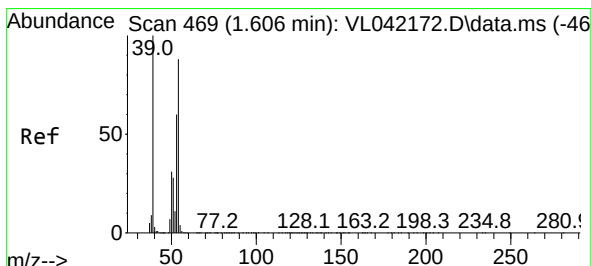
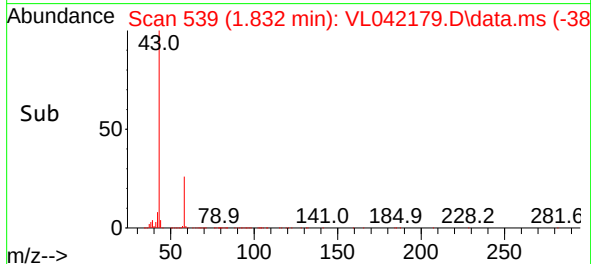
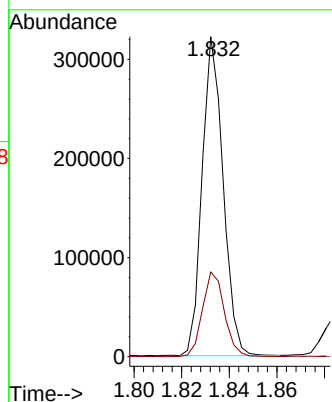
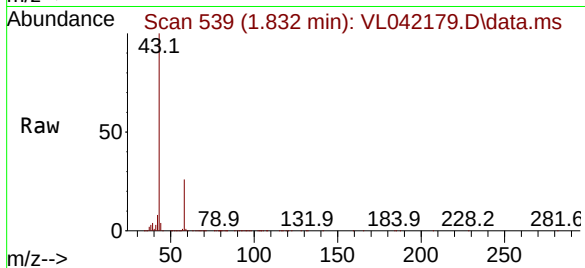




#15
Acetone
Concen: 8.132 ppbv
RT: 1.832 min Scan# 51
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

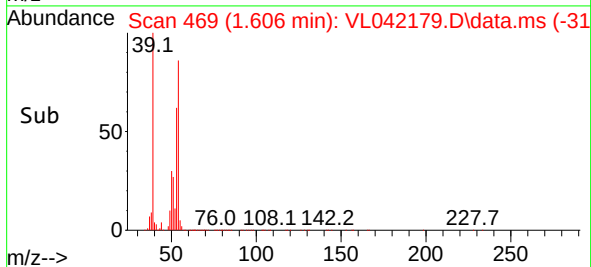
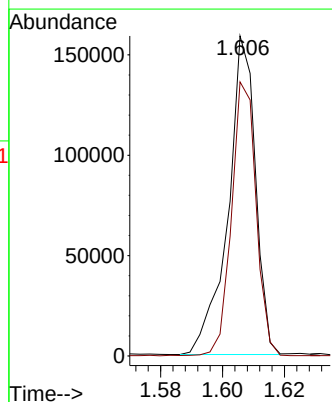
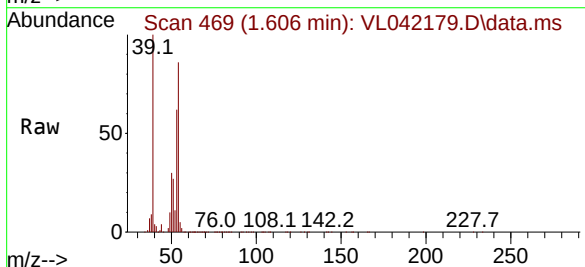
Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725

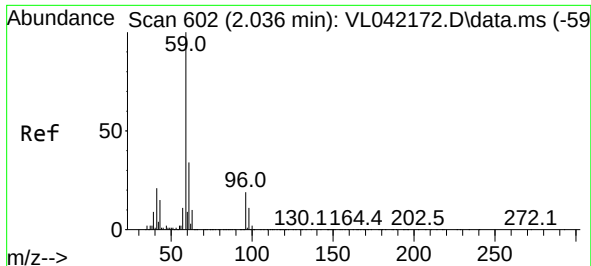
Tgt Ion: 43 Resp: 198300
Ion Ratio Lower Upper
43 100
58 27.7 23.2 34.8



#16
1,3-Butadiene
Concen: 8.216 ppbv
RT: 1.606 min Scan# 469
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 39 Resp: 97840
Ion Ratio Lower Upper
39 100
54 76.9 60.7 91.1





#17

tert-Butyl alcohol

Concen: 9.094 ppbv

RT: 2.039 min Scan# 602

Delta R.T. 0.003 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

Instrument :

MSVOA_L

ClientSampleId :

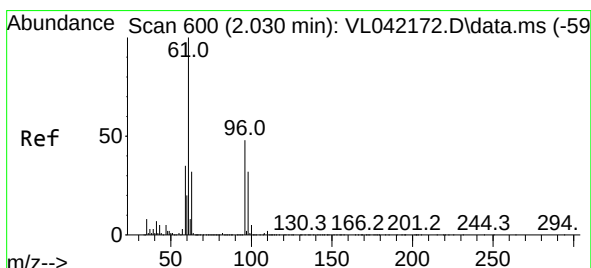
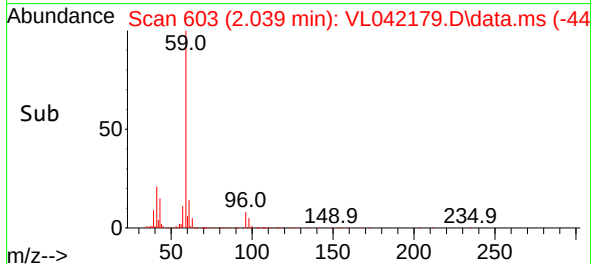
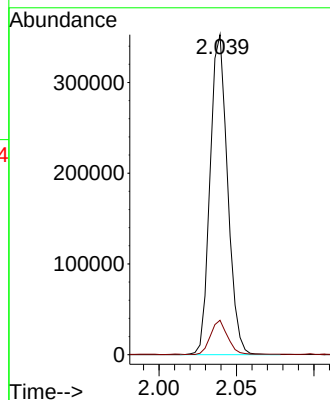
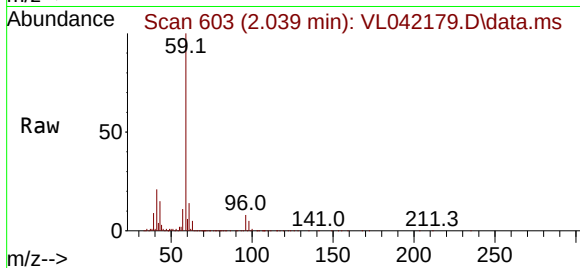
ICVVL032725

Tgt Ion: 59 Resp: 276195

Ion Ratio Lower Upper

59 100

57 10.6 8.9 13.3



#18

1,1-Dichloroethene

Concen: 9.053 ppbv

RT: 2.033 min Scan# 601

Delta R.T. 0.003 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

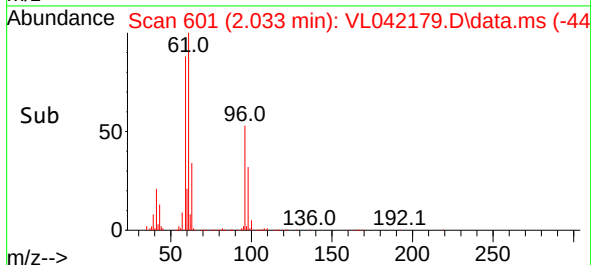
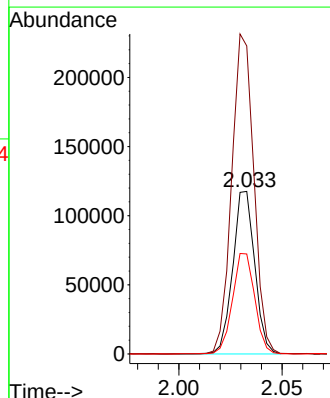
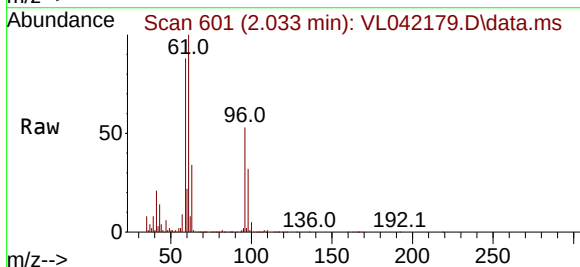
Tgt Ion: 96 Resp: 87137

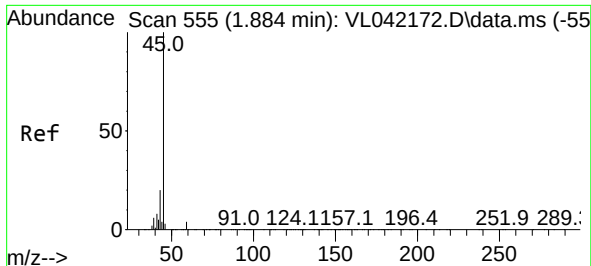
Ion Ratio Lower Upper

96 100

61 189.6 167.6 251.4

98 61.5 53.5 80.3

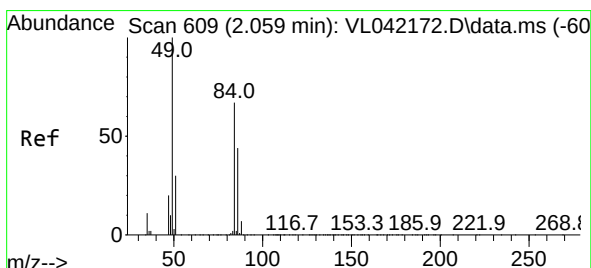
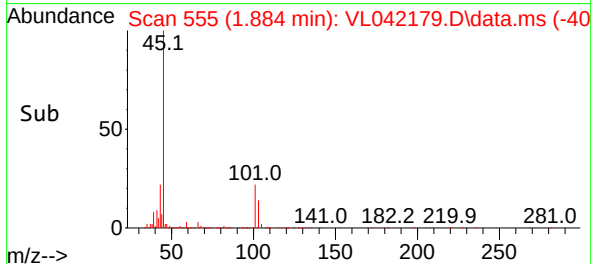
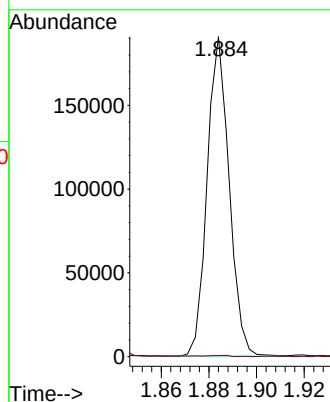
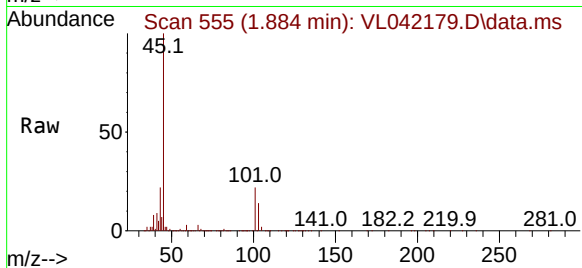




#19
Isopropyl Alcohol
Concen: 8.923 ppbv
RT: 1.884 min Scan# 511
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

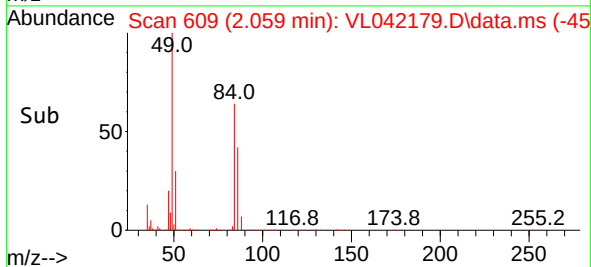
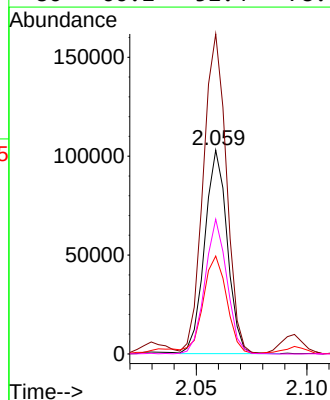
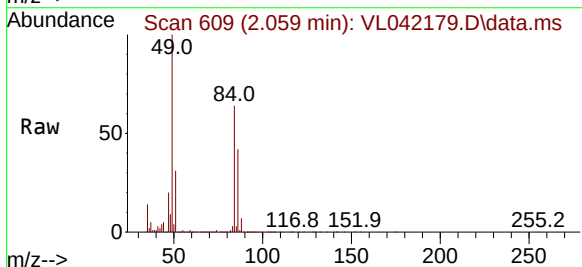
Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725

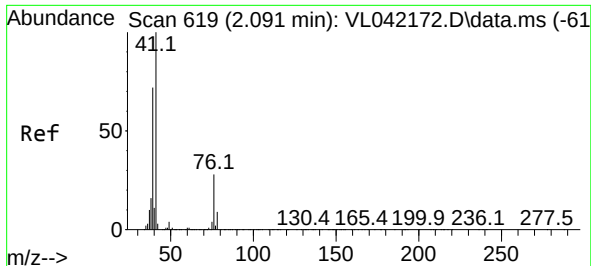
Tgt Ion: 45 Resp: 122768
Ion Ratio Lower Upper
45 100
58 44.9 36.9 55.3



#20
Methylene Chloride
Concen: 8.018 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 84 Resp: 72813
Ion Ratio Lower Upper
84 100
49 155.8 120.2 180.4
51 46.4 37.4 56.0
86 66.2 52.4 78.6

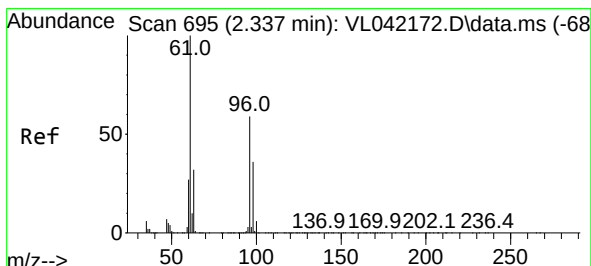
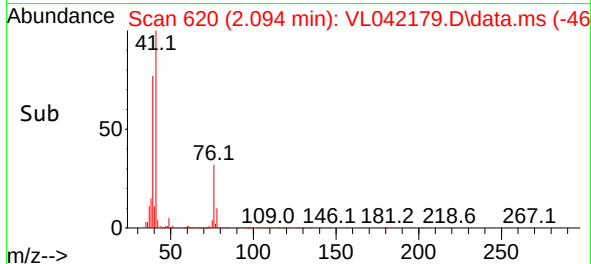
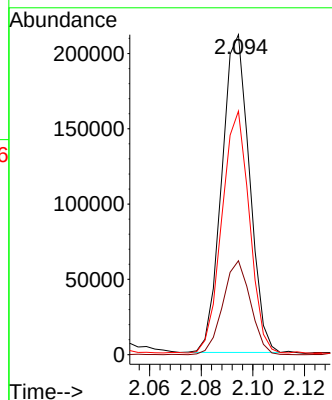
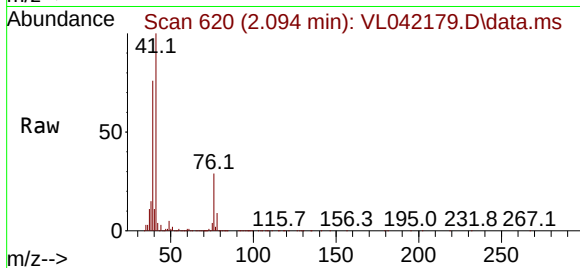




#21
 Allyl Chloride
 Concen: 9.154 ppbv
 RT: 2.094 min Scan# 619
 Delta R.T. 0.003 min
 Lab File: VL042179.D
 Acq: 27 Mar 2025 12:23

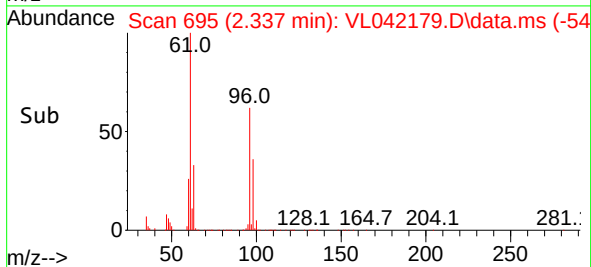
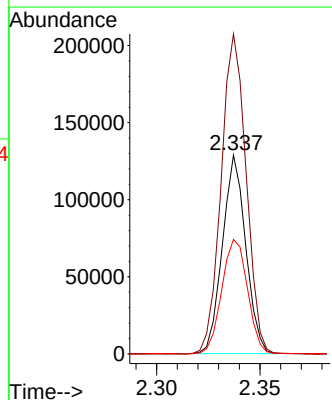
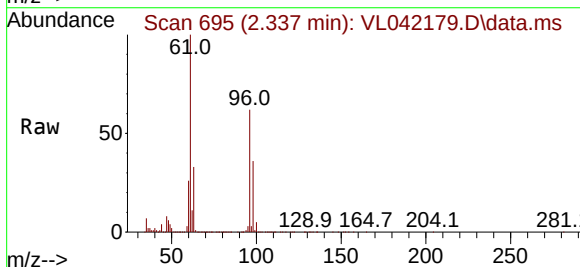
Instrument :
 MSVOA_1
 ClientSampleId :
 ICVVL032725

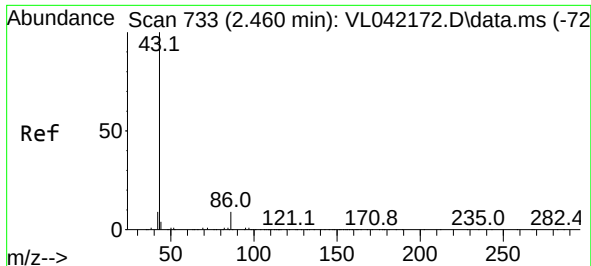
Tgt Ion: 41 Resp: 157418
 Ion Ratio Lower Upper
 41 100
 76 29.6 24.1 36.1
 39 75.5 61.1 91.7



#22
 trans-1,2-Dichloroethene
 Concen: 9.092 ppbv
 RT: 2.337 min Scan# 695
 Delta R.T. -0.000 min
 Lab File: VL042179.D
 Acq: 27 Mar 2025 12:23

Tgt Ion: 96 Resp: 101141
 Ion Ratio Lower Upper
 96 100
 61 161.2 136.6 204.8
 98 57.7 49.4 74.2

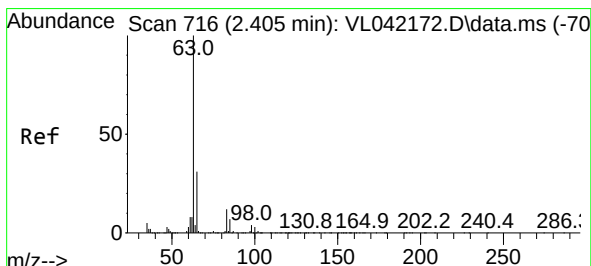
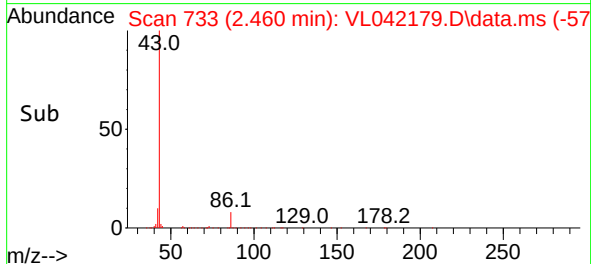
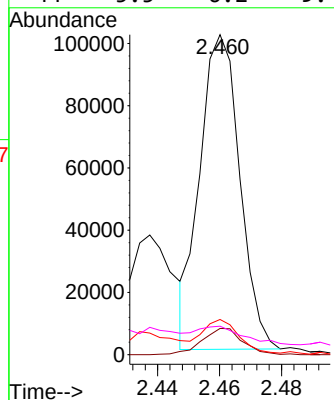
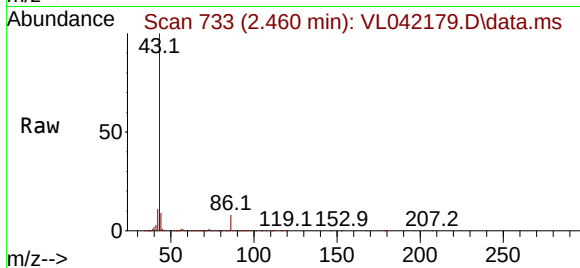




#23
 Vinyl Acetate
 Concen: 8.553 ppbv
 RT: 2.460 min Scan# 716
 Delta R.T. -0.000 min
 Lab File: VL042179.D
 Acq: 27 Mar 2025 12:23

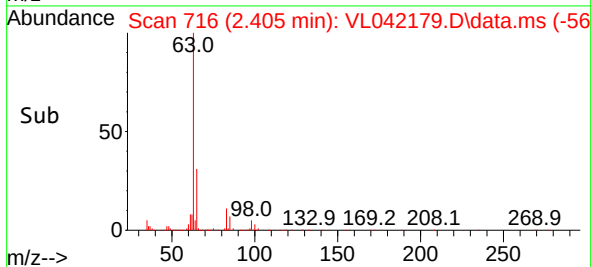
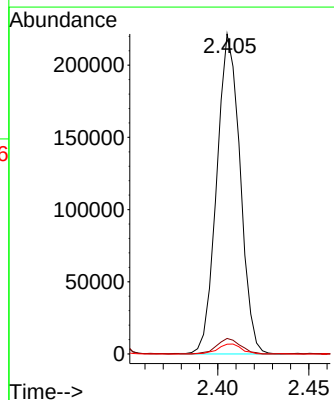
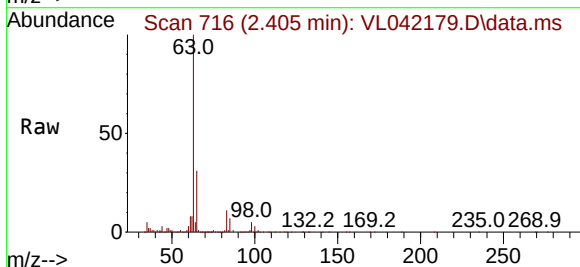
Instrument :
 MSVOA_1
 ClientSampleId :
 ICVVL032725

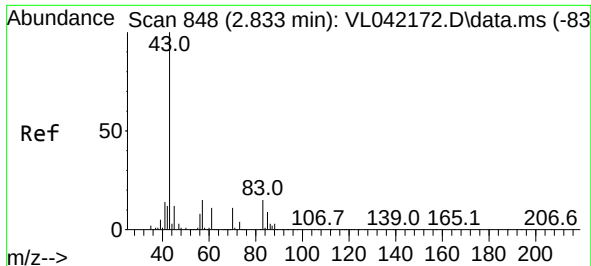
Tgt Ion:	43	Resp:	90260
Ion	Ratio	Lower	Upper
43	100		
86	8.3	5.5	8.3#
42	10.7	8.6	13.0
44	5.5	6.2	9.4#



#24
 1,1-Dichloroethane
 Concen: 9.600 ppbv
 RT: 2.405 min Scan# 716
 Delta R.T. -0.000 min
 Lab File: VL042179.D
 Acq: 27 Mar 2025 12:23

Tgt Ion:	63	Resp:	197968
Ion	Ratio	Lower	Upper
63	100		
98	4.8	2.3	6.8
100	3.0	1.6	4.7

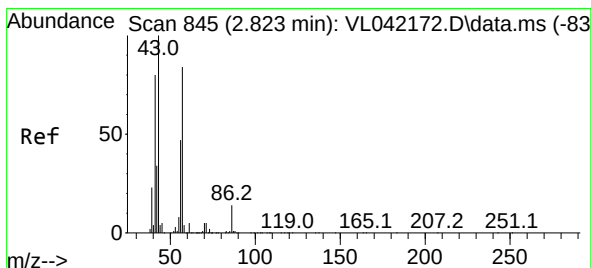
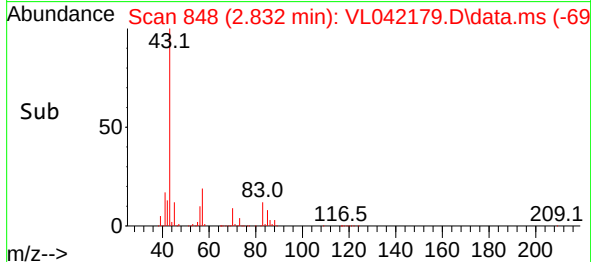
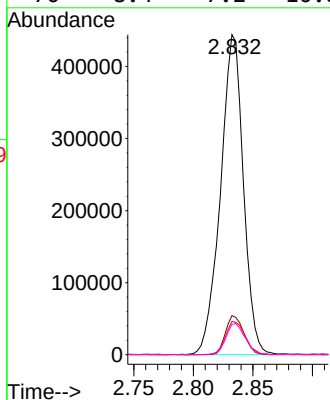
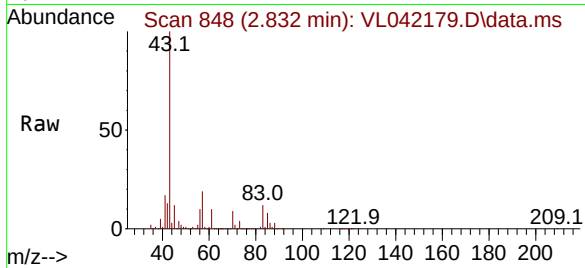




#25
Ethyl Acetate
Concen: 9.364 ppbv
RT: 2.832 min Scan# 84
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

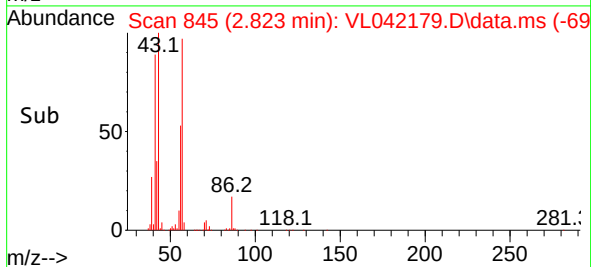
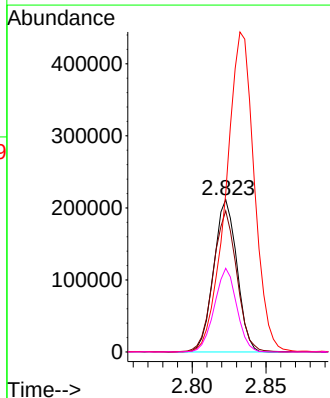
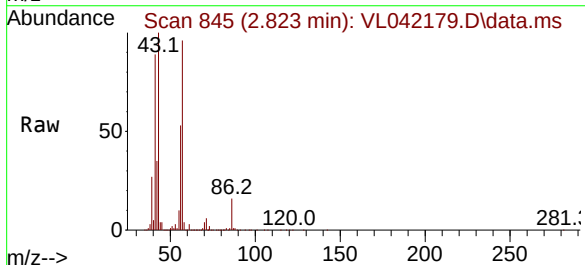
Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725

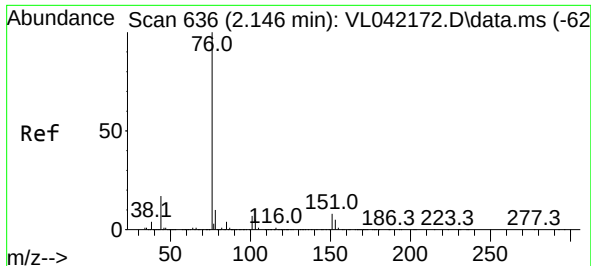
Tgt Ion: 43	Resp: 592585
Ion Ratio	Lower Upper
43 100	
45 9.9	8.2 12.2
61 8.7	7.3 10.9
70 8.4	7.2 10.8



#26
Hexane
Concen: 9.455 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 57	Resp: 231125
Ion Ratio	Lower Upper
57 100	
41 95.2	76.6 114.8
43 256.8	207.8 311.8
56 53.0	43.6 65.4

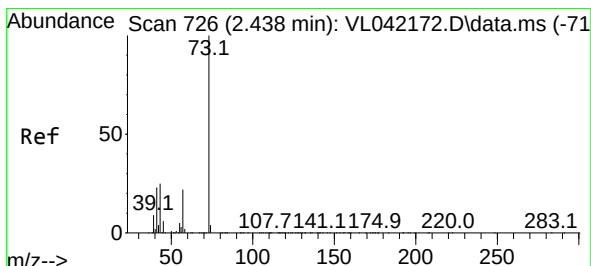
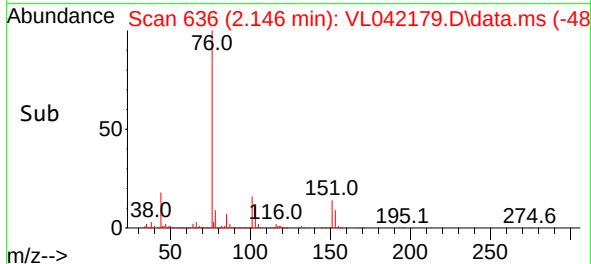
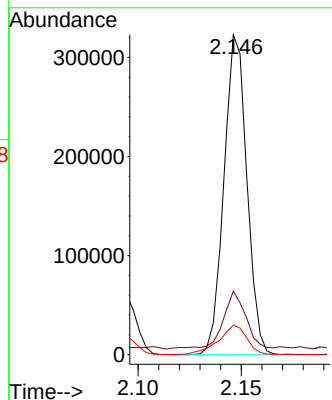
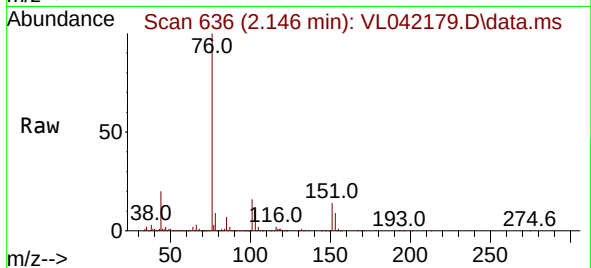




#27
Carbon Disulfide
Concen: 9.493 ppbv
RT: 2.146 min Scan# 611
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

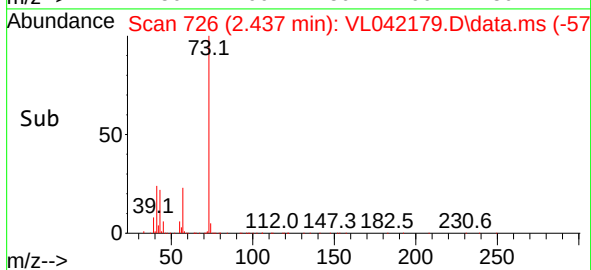
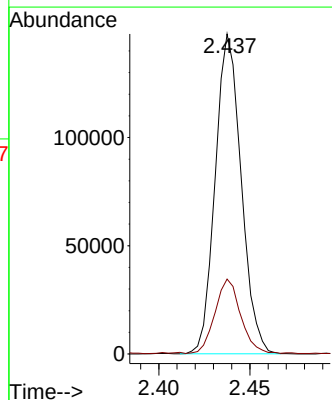
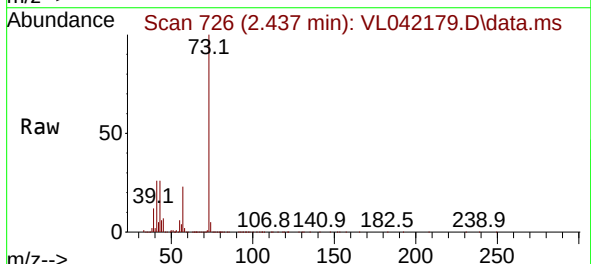
Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725

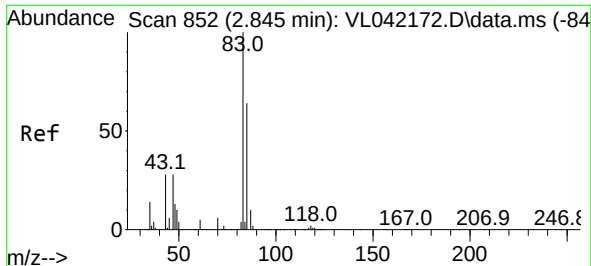
Tgt Ion: 76 Resp: 248834
Ion Ratio Lower Upper
76 100
44 20.1 14.7 22.1
78 11.3 9.3 13.9



#28
Methyl tert-Butyl Ether
Concen: 9.624 ppbv
RT: 2.437 min Scan# 726
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 73 Resp: 146470
Ion Ratio Lower Upper
73 100
57 23.3 20.5 30.7





#29

Chloroform

Concen: 9.619 ppbv

RT: 2.845 min Scan# 81

Delta R.T. -0.000 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

Instrument :

MSVOA_L

ClientSampleId :

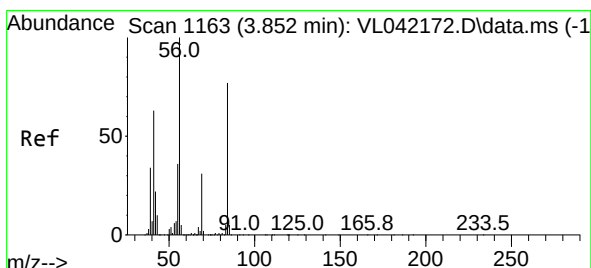
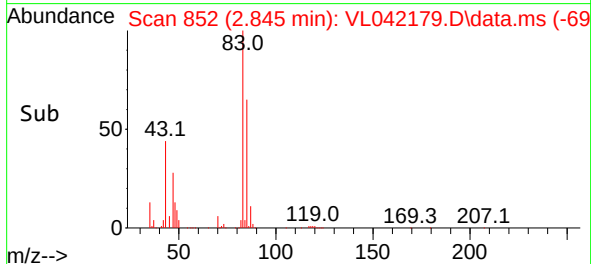
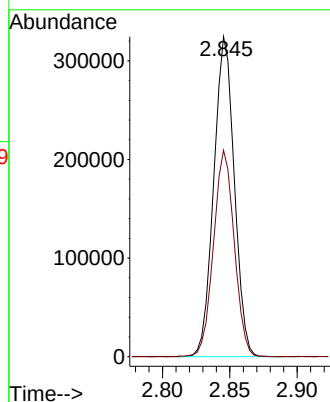
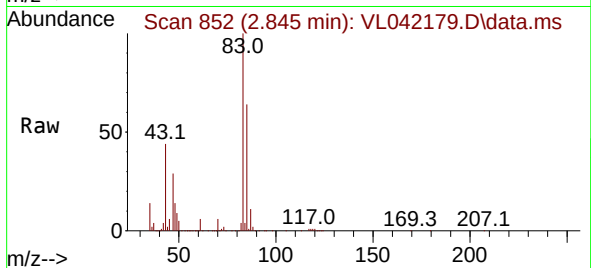
ICVVL032725

Tgt Ion: 83 Resp: 344106

Ion Ratio Lower Upper

83 100

85 64.5 51.4 77.2



#30

Cyclohexane

Concen: 9.323 ppbv

RT: 3.852 min Scan# 1163

Delta R.T. -0.000 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

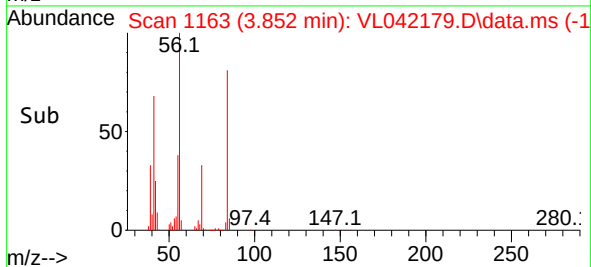
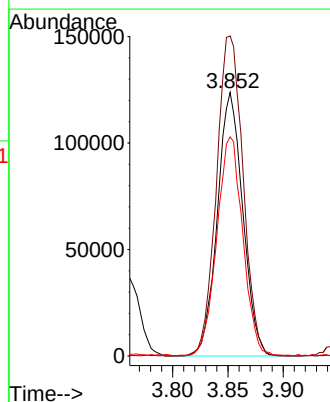
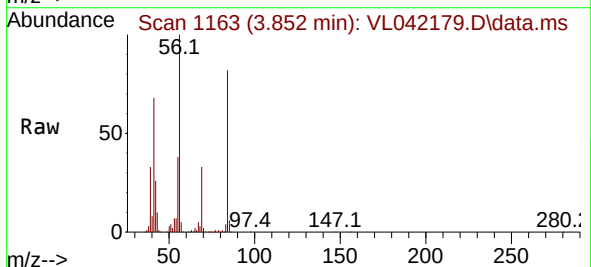
Tgt Ion: 84 Resp: 197897

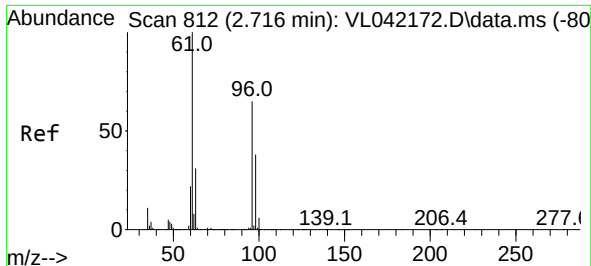
Ion Ratio Lower Upper

84 100

56 126.8 102.8 154.2

41 84.6 66.5 99.7

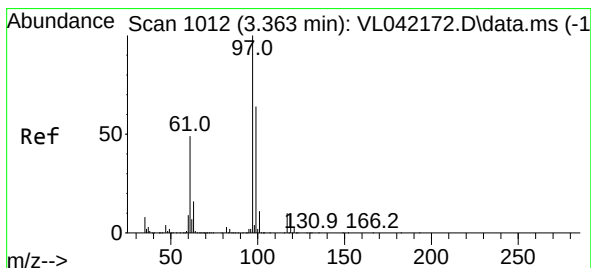
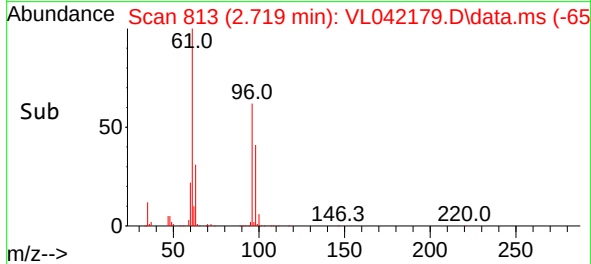
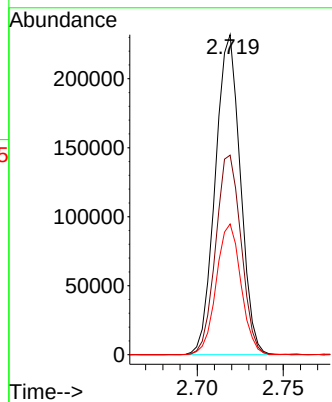
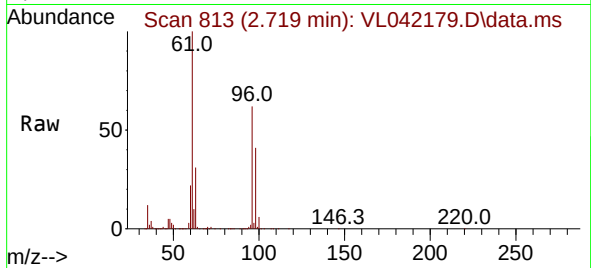




#31
 cis-1,2-Dichloroethene
 Concen: 9.449 ppbv
 RT: 2.719 min Scan# 812
 Delta R.T. 0.003 min
 Lab File: VL042179.D
 Acq: 27 Mar 2025 12:23

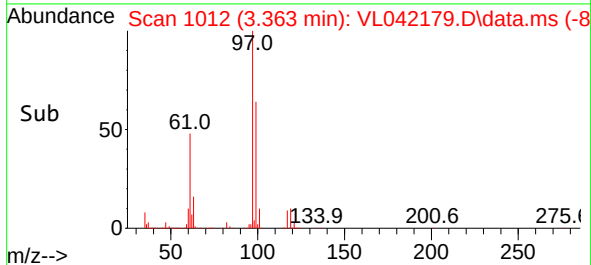
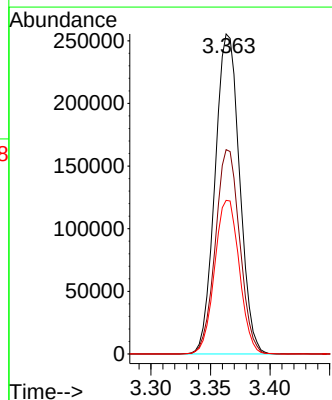
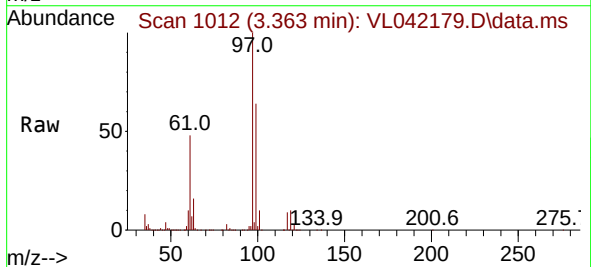
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL032725

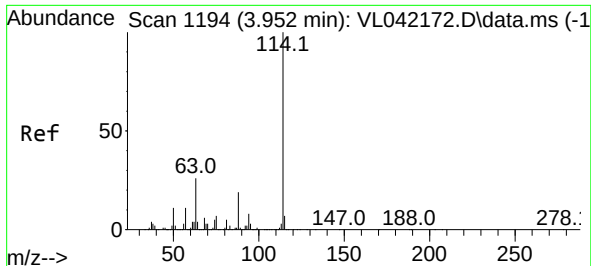
Tgt Ion: 61 Resp: 234487
 Ion Ratio Lower Upper
 61 100
 96 62.3 51.8 77.8
 98 40.9 30.6 46.0



#32
 1,1,1-Trichloroethane
 Concen: 8.921 ppbv
 RT: 3.363 min Scan# 1012
 Delta R.T. -0.000 min
 Lab File: VL042179.D
 Acq: 27 Mar 2025 12:23

Tgt Ion: 97 Resp: 365364
 Ion Ratio Lower Upper
 97 100
 99 63.4 51.5 77.3
 61 48.4 38.7 58.1





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.952 min Scan# 1194

Delta R.T. -0.000 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

Instrument :

MSVOA_L

ClientSampleId :

ICVVL032725

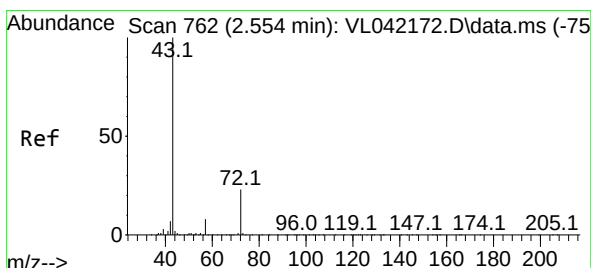
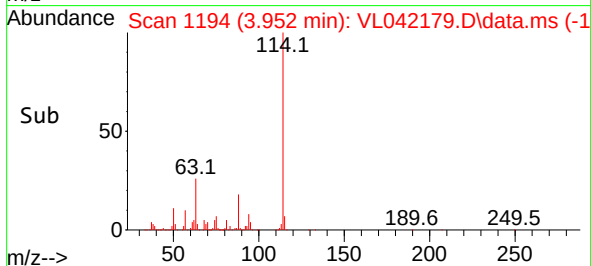
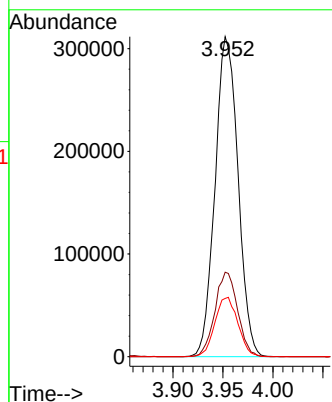
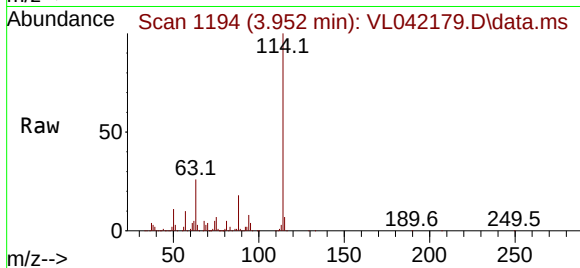
Tgt Ion:114 Resp: 498105

Ion Ratio Lower Upper

114 100

63 26.1 20.7 31.1

88 18.7 15.0 22.4



#34

2-Butanone

Concen: 9.171 ppbv

RT: 2.554 min Scan# 762

Delta R.T. -0.000 min

Lab File: VL042179.D

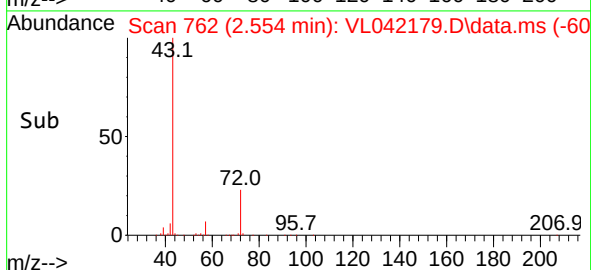
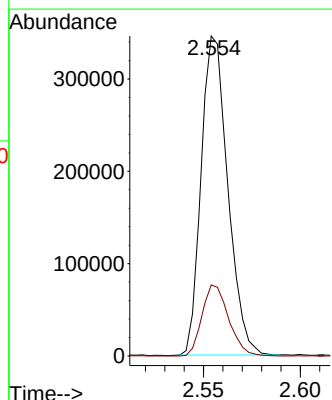
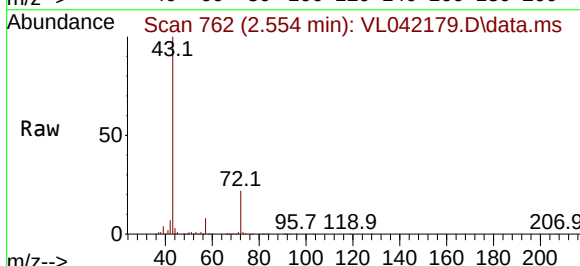
Acq: 27 Mar 2025 12:23

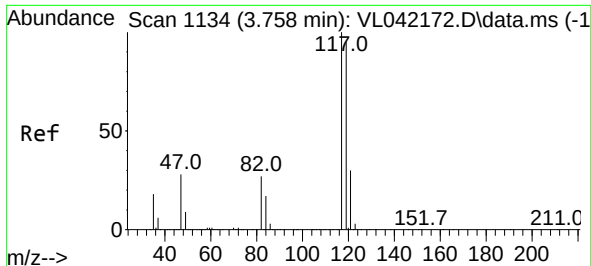
Tgt Ion: 43 Resp: 331236

Ion Ratio Lower Upper

43 100

72 22.2 18.2 27.2

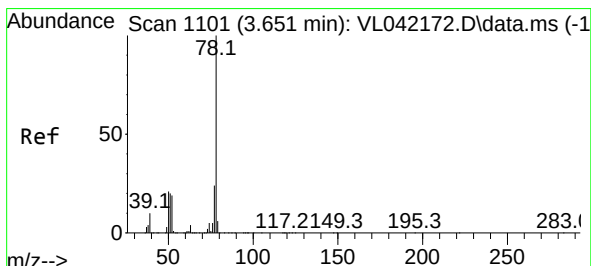
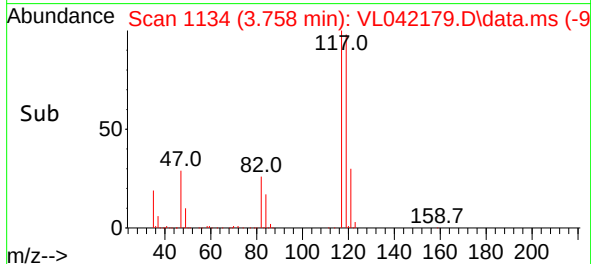
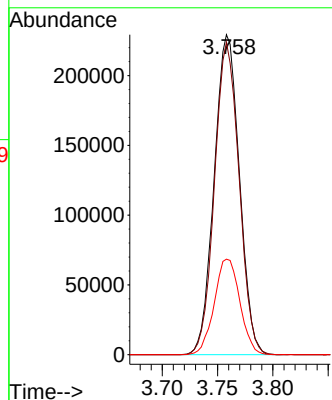
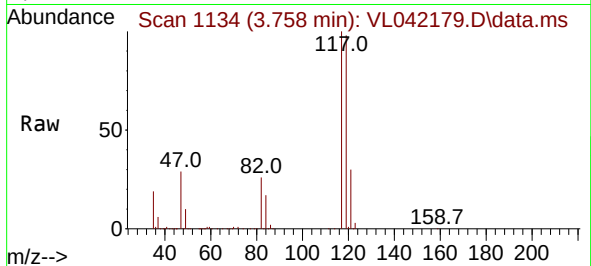




#35
Carbon Tetrachloride
Concen: 9.339 ppbv
RT: 3.758 min Scan# 1134
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

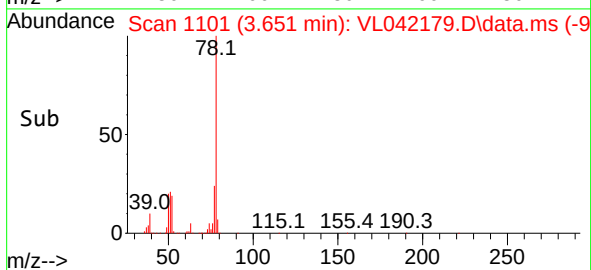
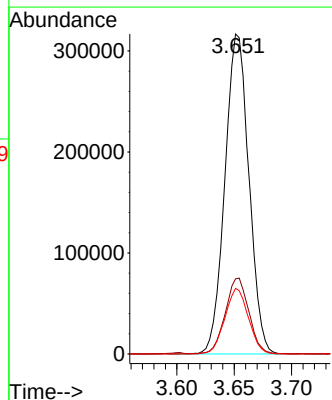
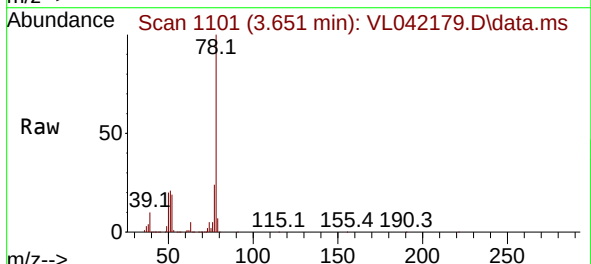
Instrument : MSVOA_1
ClientSampleId : ICVVL032725

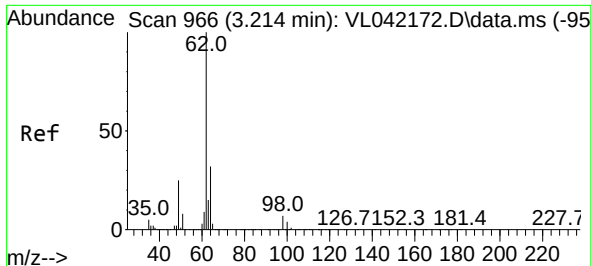
Tgt Ion:117 Resp: 363392
Ion Ratio Lower Upper
117 100
119 97.7 76.2 114.2
121 29.9 24.2 36.4



#36
Benzene
Concen: 9.341 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 78 Resp: 461261
Ion Ratio Lower Upper
78 100
77 23.5 19.1 28.7
50 20.4 16.6 24.8





#37

1,2-Dichloroethane

Concen: 9.676 ppbv

RT: 3.217 min Scan# 9

Delta R.T. 0.003 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

Instrument :

MSVOA_L

ClientSampleId :

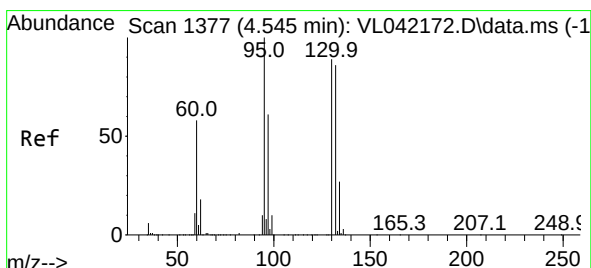
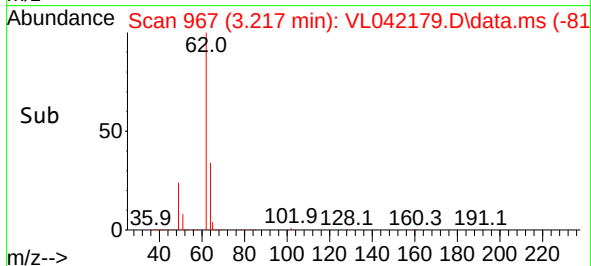
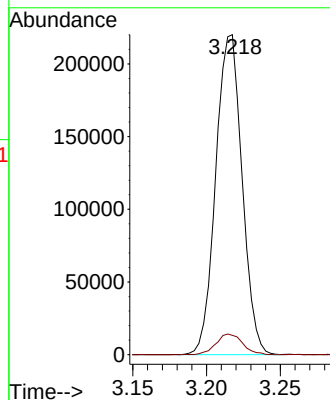
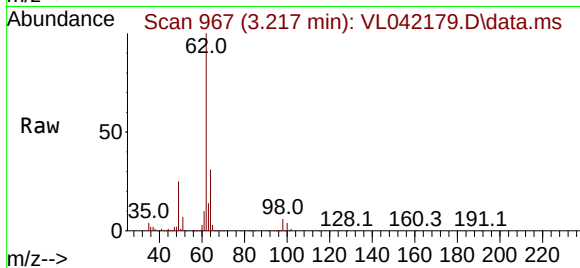
ICVVL032725

Tgt Ion: 62 Resp: 273559

Ion Ratio Lower Upper

62 100

98 6.6 5.4 8.2



#38

Trichloroethene

Concen: 9.306 ppbv

RT: 4.541 min Scan# 1376

Delta R.T. -0.003 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

Tgt Ion:130 Resp: 191746

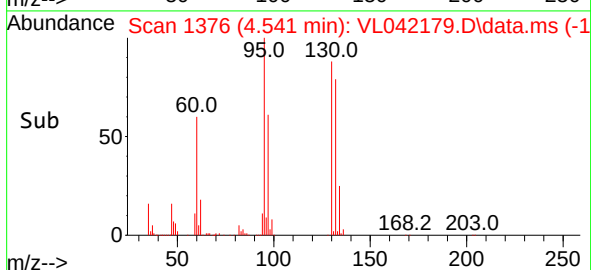
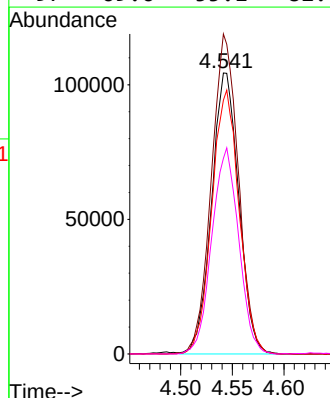
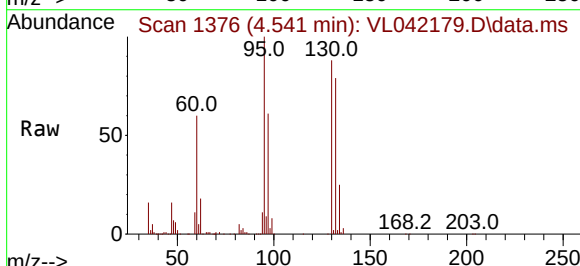
Ion Ratio Lower Upper

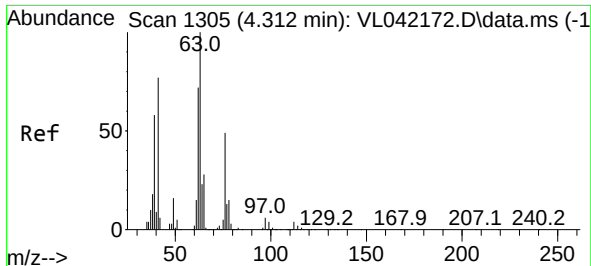
130 100

95 113.9 89.8 134.8

132 90.3 77.4 116.2

97 69.6 55.1 82.7





#39

1,2-Dichloropropane

Concen: 9.500 ppbv

RT: 4.311 min Scan# 1

Delta R.T. -0.000 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

Instrument :

MSVOA_L

ClientSampleId :

ICVVL032725

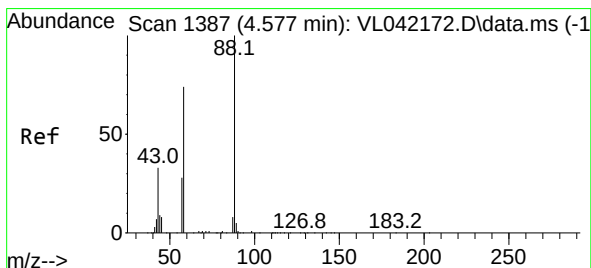
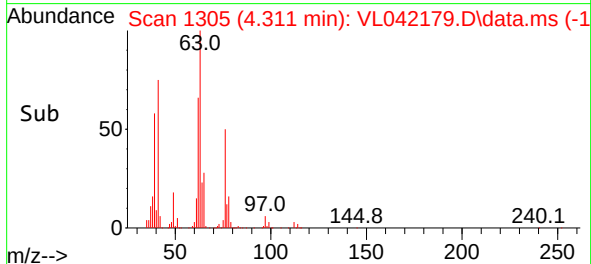
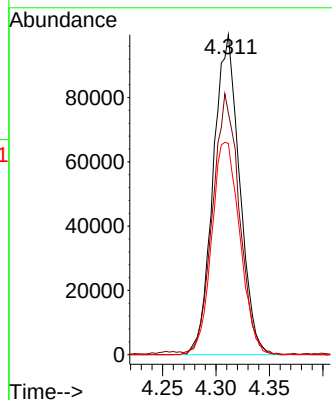
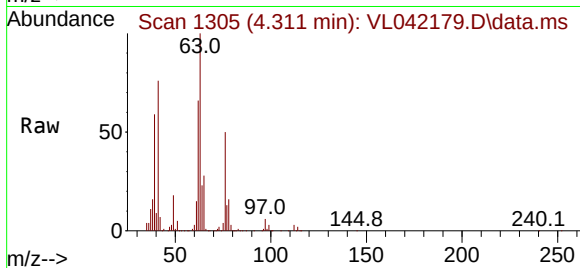
Tgt Ion: 63 Resp: 170839

Ion Ratio Lower Upper

63 100

41 75.3 61.7 92.5

62 66.0 57.6 86.4



#40

1,4-Dioxane

Concen: 8.443 ppbv

RT: 4.577 min Scan# 1387

Delta R.T. -0.000 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

Tgt Ion: 88 Resp: 80592

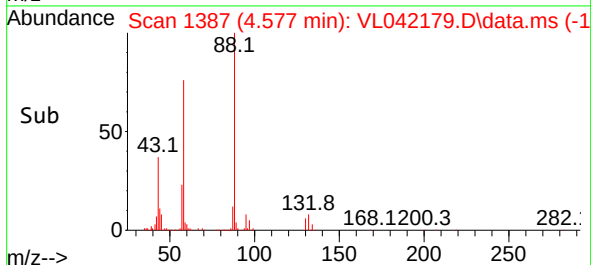
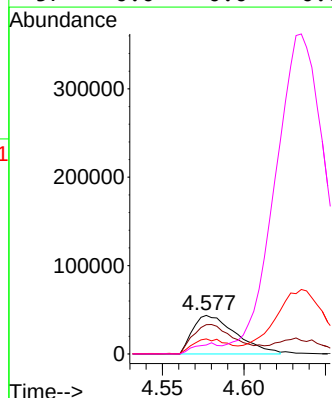
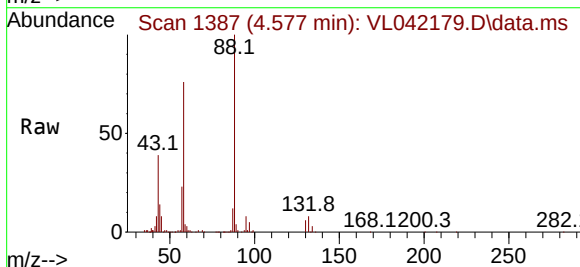
Ion Ratio Lower Upper

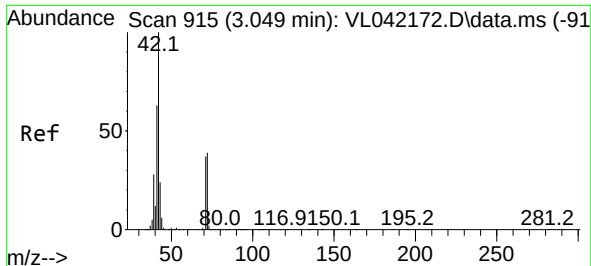
88 100

58 76.2 62.7 94.1

43 31.4 23.0 34.4

57 0.0 0.0 0.0

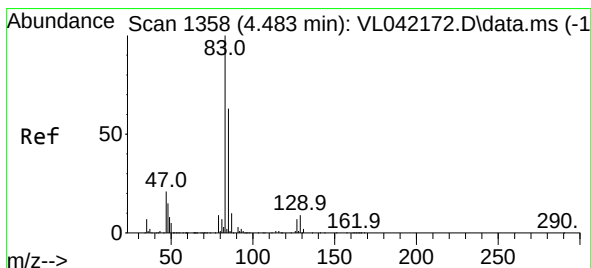
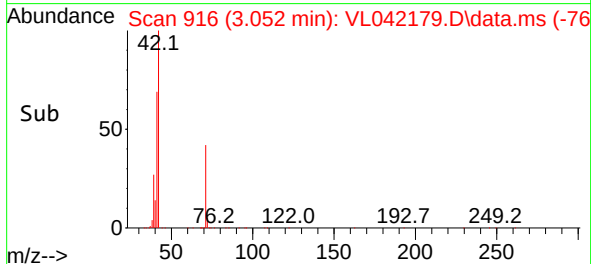
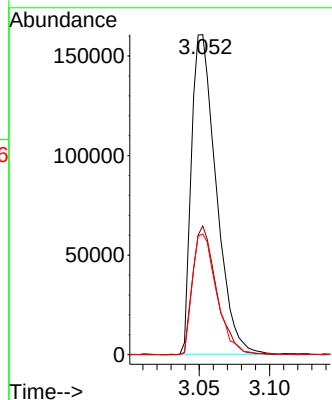
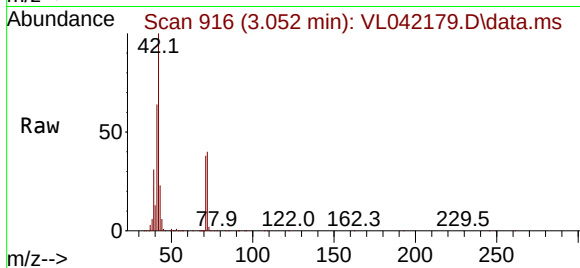




#41
Tetrahydrofuran
Concen: 9.431 ppbv
RT: 3.052 min Scan# 915
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

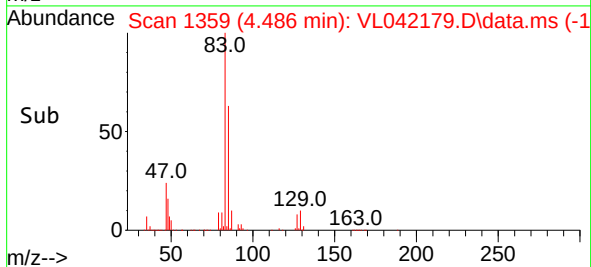
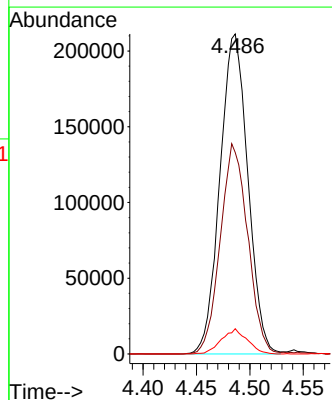
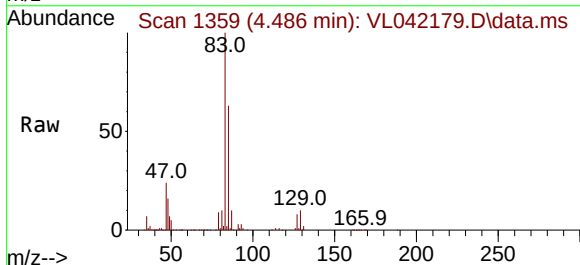
Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725

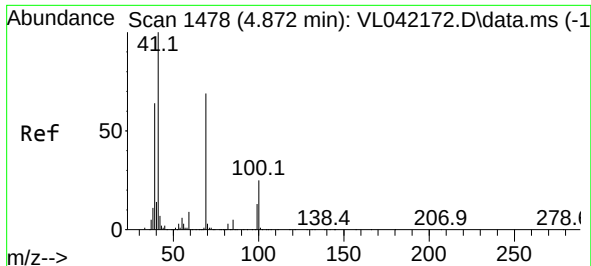
Tgt Ion: 42 Resp: 196163
Ion Ratio Lower Upper
42 100
72 38.9 31.4 47.0
71 37.2 30.2 45.4



#42
Bromodichloromethane
Concen: 9.853 ppbv
RT: 4.486 min Scan# 1359
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 83 Resp: 384006
Ion Ratio Lower Upper
83 100
85 63.0 50.5 75.7
127 7.9 5.9 8.9

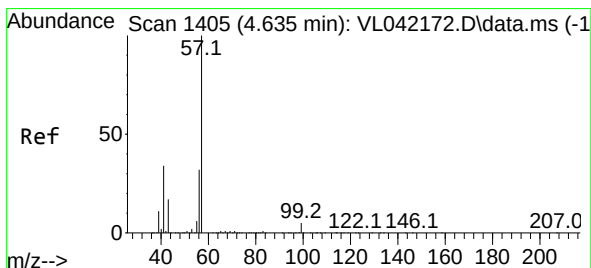
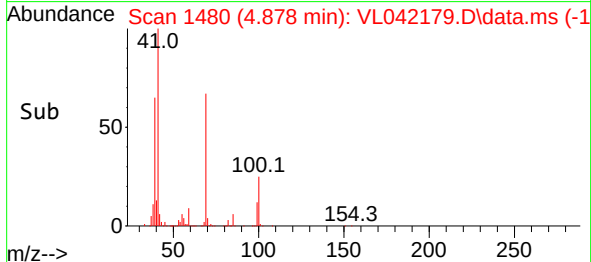
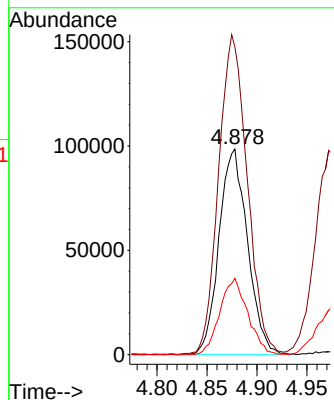
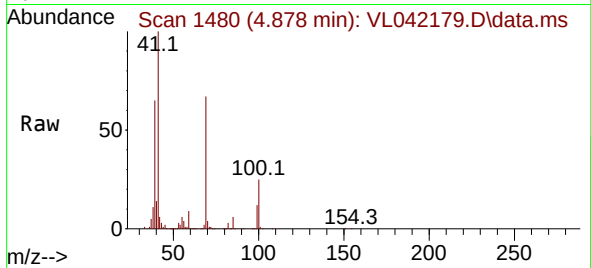




#43
Methyl Methacrylate
Concen: 9.344 ppbv
RT: 4.878 min Scan# 1478
Delta R.T. 0.006 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

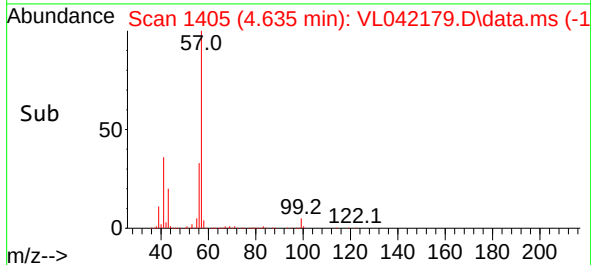
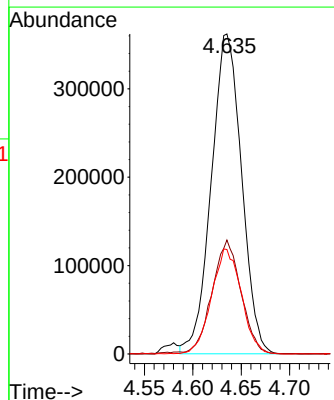
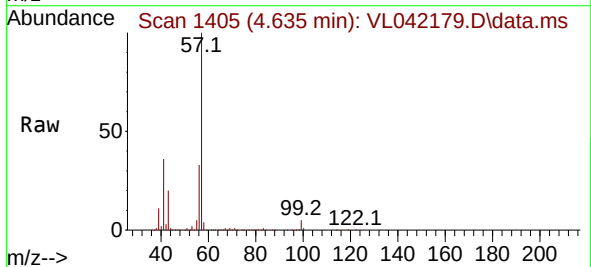
Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725

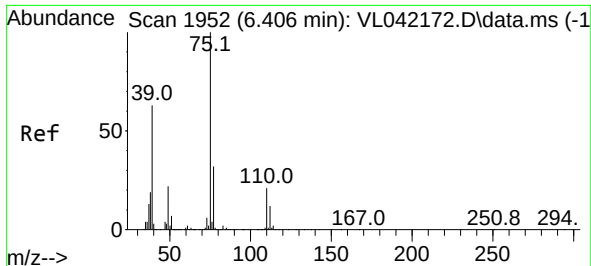
Tgt Ion: 69 Resp: 195339
Ion Ratio Lower Upper
69 100
41 156.4 123.8 185.6
100 36.4 28.4 42.6



#44
2,2,4-Trimethylpentane
Concen: 9.436 ppbv
RT: 4.635 min Scan# 1405
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 57 Resp: 787400
Ion Ratio Lower Upper
57 100
41 34.3 26.8 40.2
56 32.5 25.6 38.4





#45

t-1,3-Dichloropropene

Concen: 9.467 ppbv

RT: 6.409 min Scan# 1952

Delta R.T. 0.003 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

Instrument :

MSVOA_1

ClientSampleId :

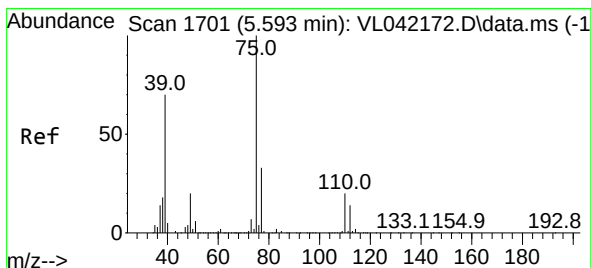
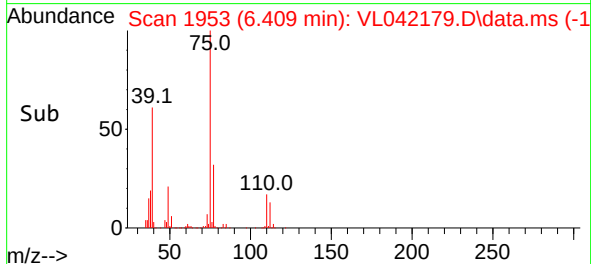
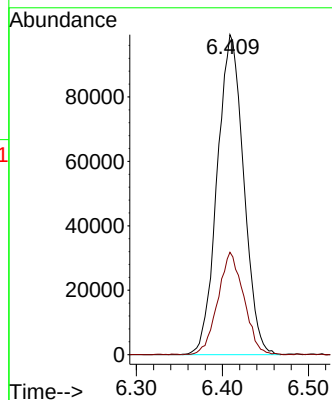
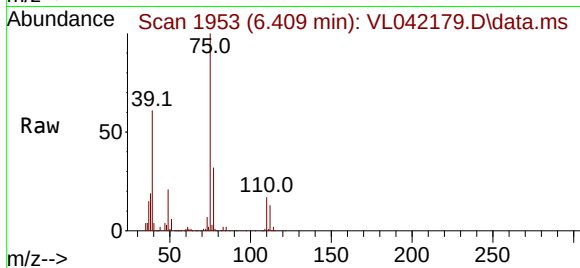
ICVVL032725

Tgt Ion: 75 Resp: 212335

Ion Ratio Lower Upper

75 100

77 32.0 26.0 39.0



#46

cis-1,3-Dichloropropene

Concen: 9.643 ppbv

RT: 5.593 min Scan# 1701

Delta R.T. -0.000 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

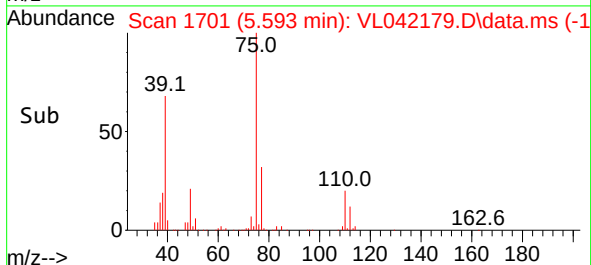
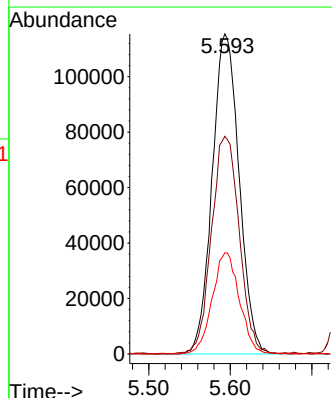
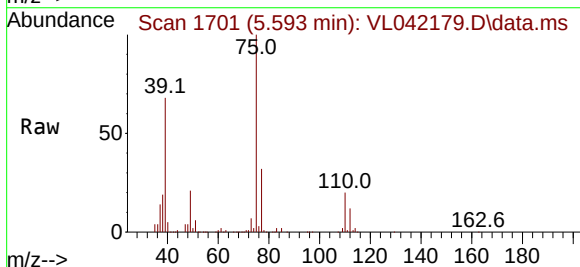
Tgt Ion: 75 Resp: 265101

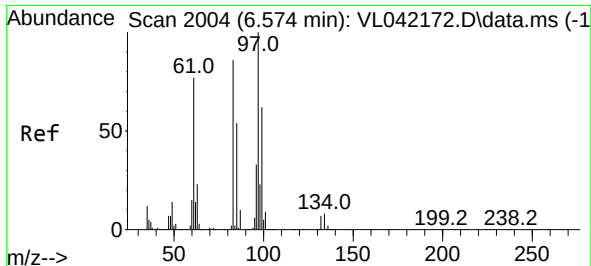
Ion Ratio Lower Upper

75 100

39 67.8 55.8 83.6

77 31.6 26.0 39.0

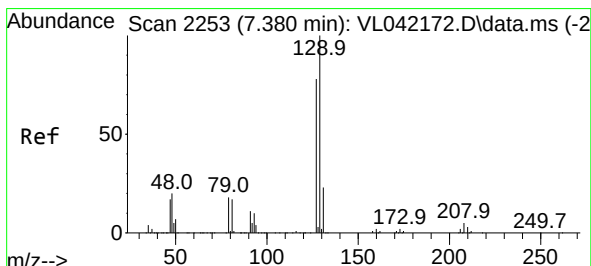
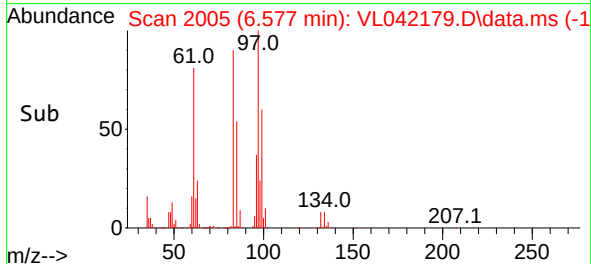
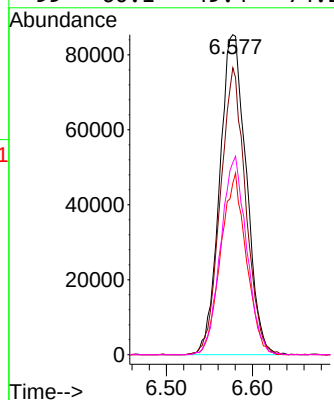
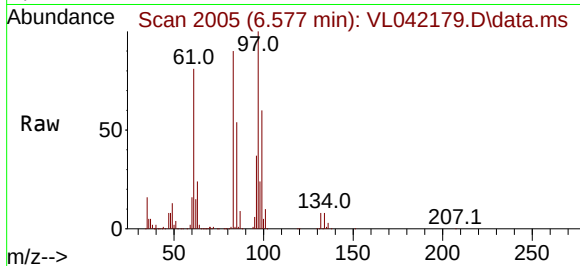




#47
1,1,2-Trichloroethane
Concen: 9.638 ppbv
RT: 6.577 min Scan# 2005
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

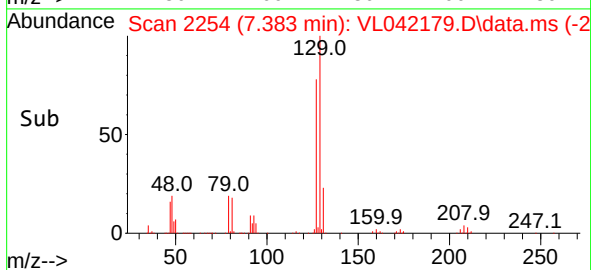
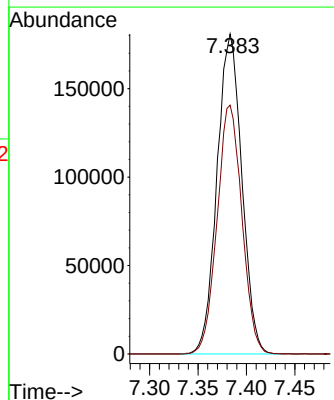
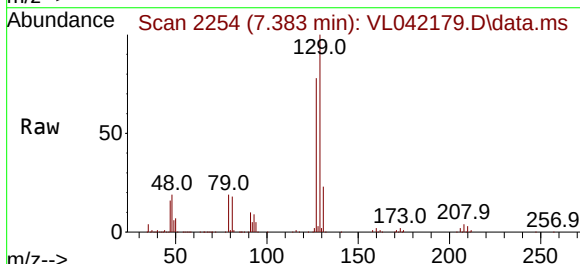
Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725

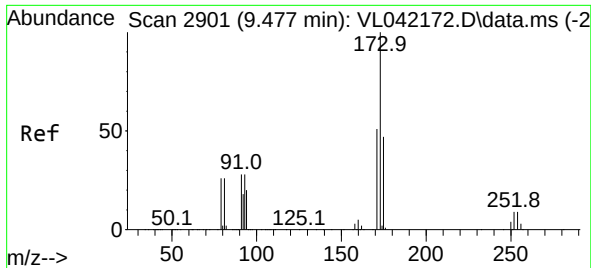
Tgt Ion: 97	Resp: 183228
Ion Ratio	Lower Upper
97	100
83	89.7 69.2 103.8
85	53.6 43.1 64.7
99	60.1 49.4 74.2



#48
Dibromochloromethane
Concen: 10.018 ppbv
RT: 7.383 min Scan# 2254
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 129	Resp: 322766
Ion Ratio	Lower Upper
129	100
127	77.7 39.1 117.2

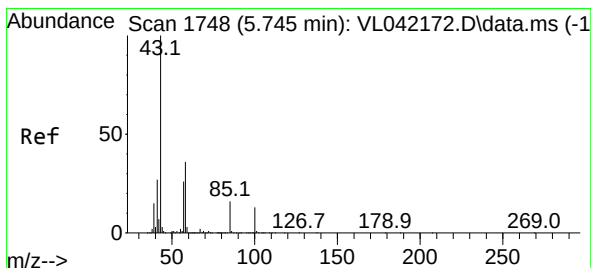
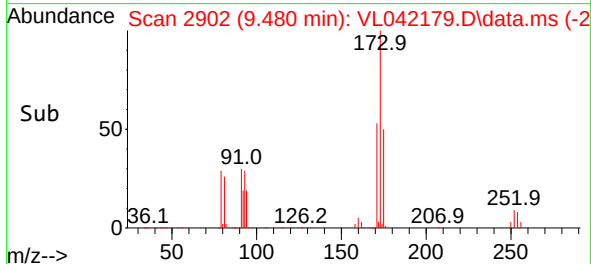
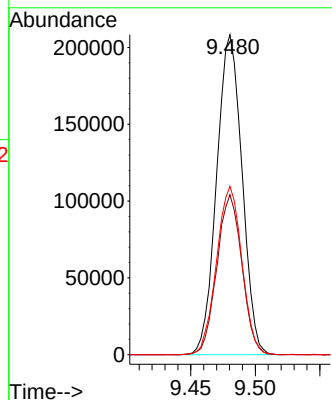
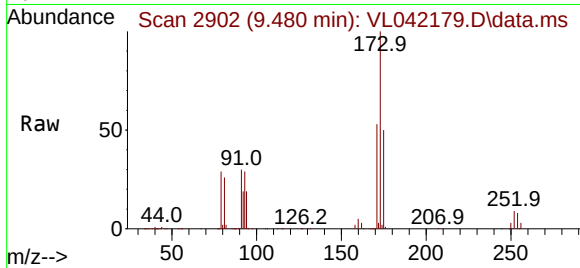




#49
Bromoform
Concen: 9.858 ppbv
RT: 9.480 min Scan# 2902
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

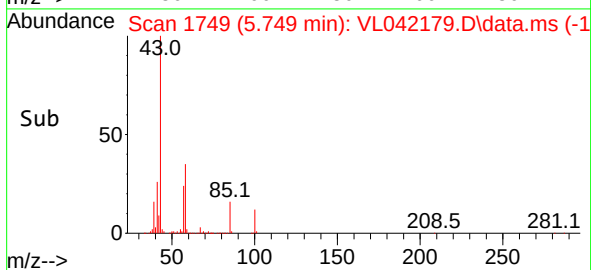
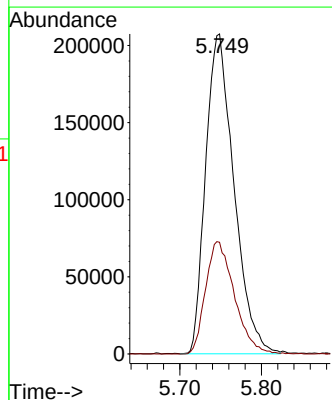
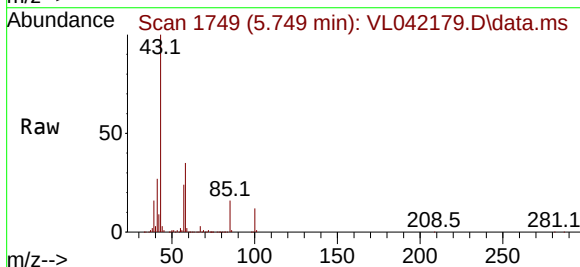
Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725

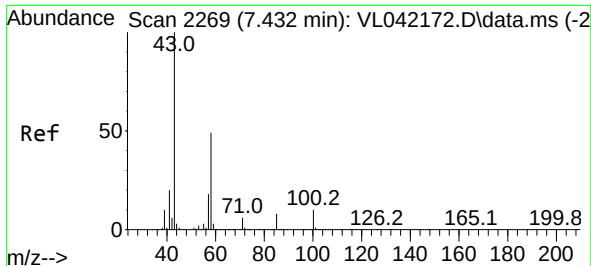
Tgt Ion:173 Resp: 285149
Ion Ratio Lower Upper
173 100
175 49.2 38.6 57.8
171 52.4 41.8 62.6



#50
4-Methyl-2-Pentanone
Concen: 8.749 ppbv
RT: 5.749 min Scan# 1749
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 43 Resp: 500791
Ion Ratio Lower Upper
43 100
58 35.8 29.0 43.6

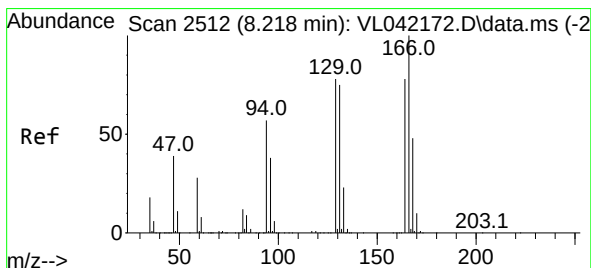
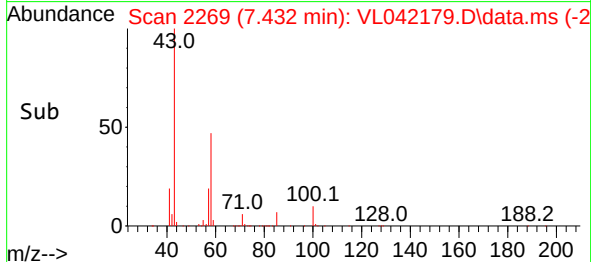
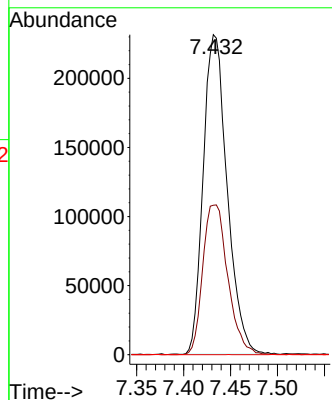
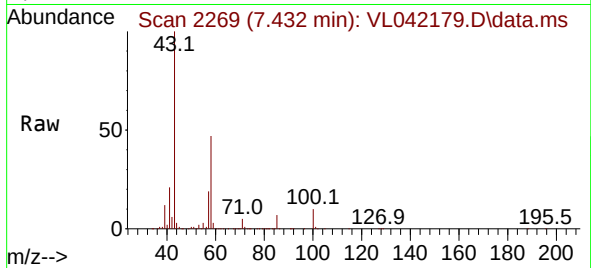




#51
2-Hexanone
Concen: 8.741 ppbv
RT: 7.432 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

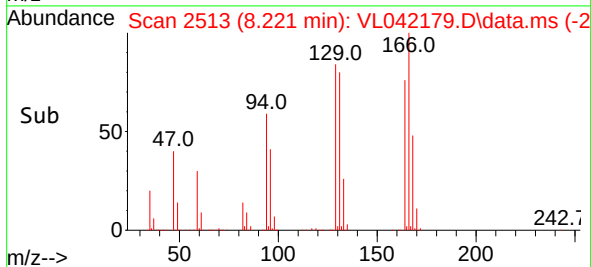
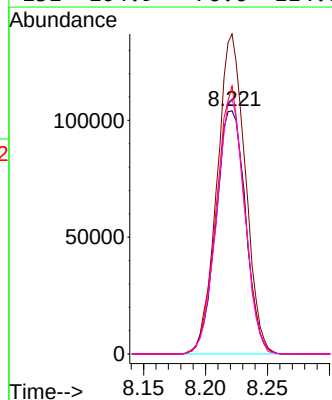
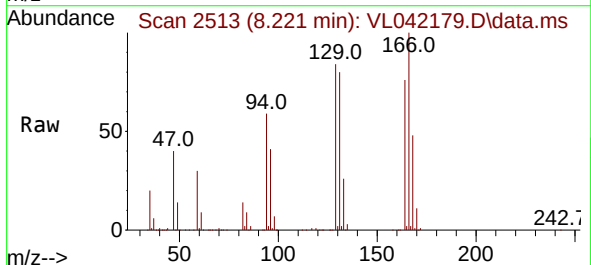
Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725

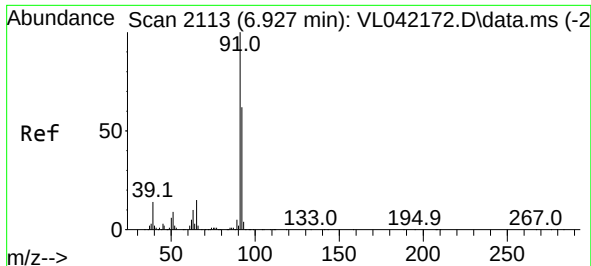
Tgt Ion: 43 Resp: 410889
Ion Ratio Lower Upper
43 100
58 48.9 39.7 59.5
98 0.0 0.1 0.1#



#52
Tetrachloroethene
Concen: 8.855 ppbv
RT: 8.221 min Scan# 2513
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 164 Resp: 173420
Ion Ratio Lower Upper
164 100
166 131.6 102.5 153.7
129 110.1 79.8 119.8
131 104.9 76.6 114.8

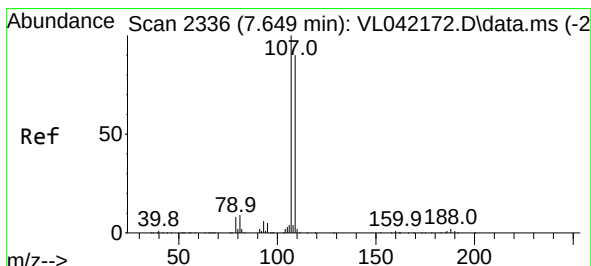
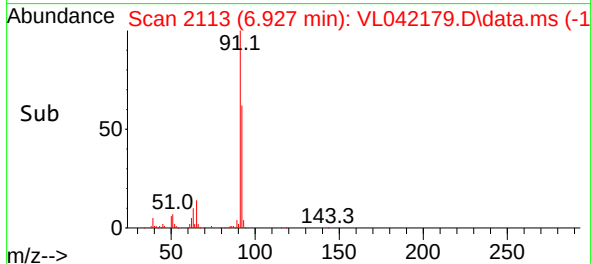
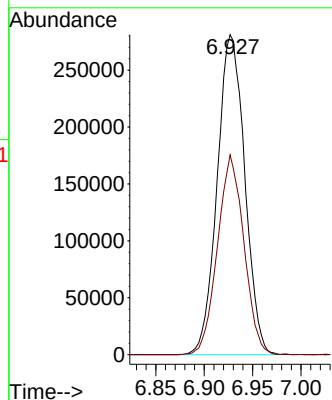
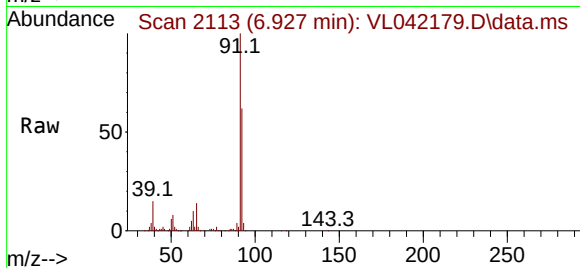




#53
Toluene
Concen: 9.514 ppbv
RT: 6.927 min Scan# 2113
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

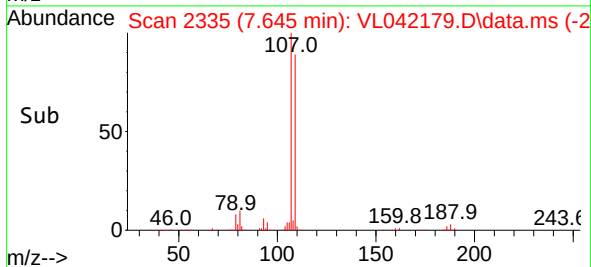
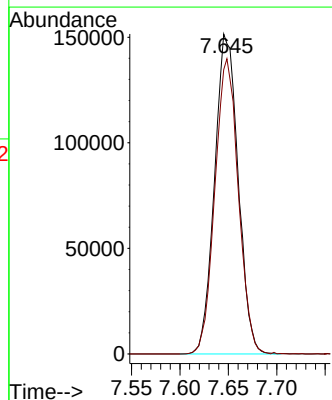
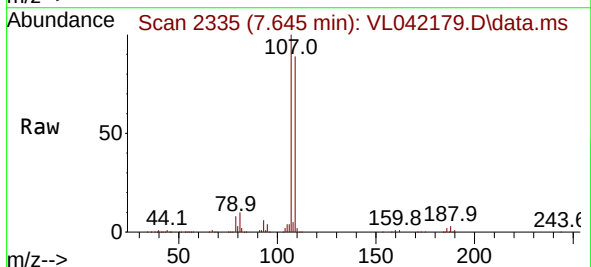
Instrument : MSVOA_L
ClientSampleId : ICVVL032725

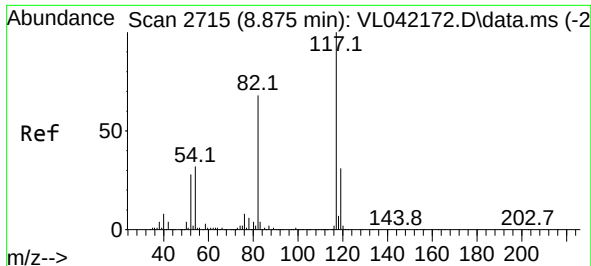
Tgt Ion: 91 Resp: 556897
Ion Ratio Lower Upper
91 100
92 59.8 48.4 72.6



#54
1,2-Dibromoethane
Concen: 9.695 ppbv
RT: 7.645 min Scan# 2335
Delta R.T. -0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 107 Resp: 256930
Ion Ratio Lower Upper
107 100
109 88.9 72.2 108.4

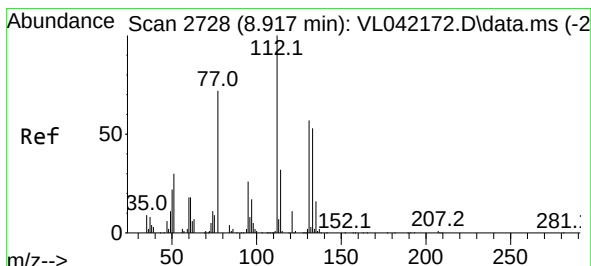
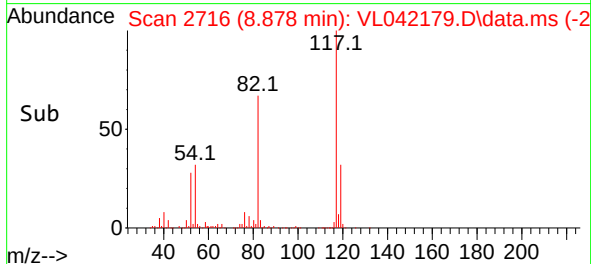
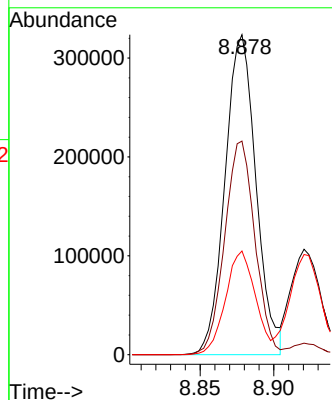
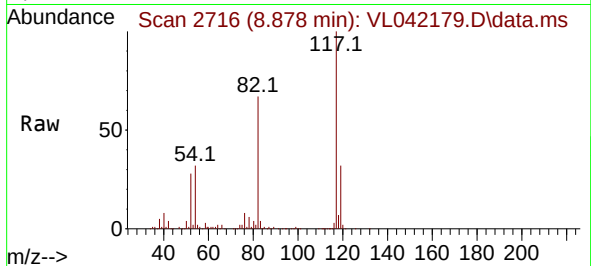




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

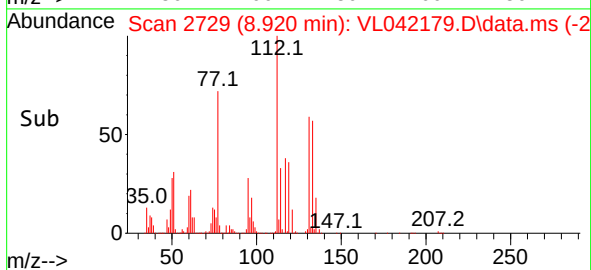
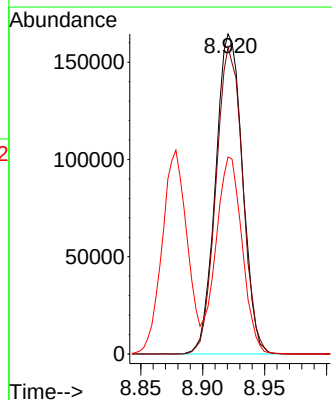
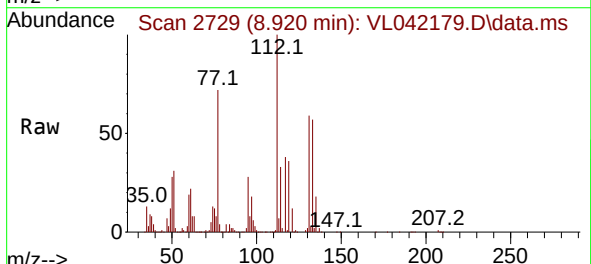
Instrument :
MSVOA_1
ClientSampleId :
ICVVL032725

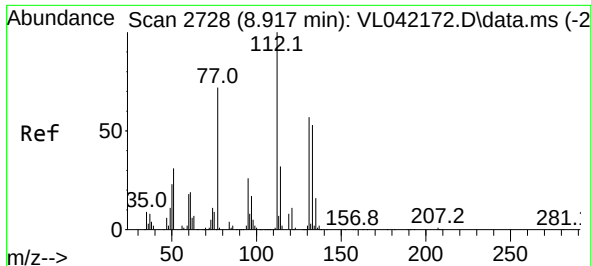
Tgt Ion:117 Resp: 473357
Ion Ratio Lower Upper
117 100
82 68.7 55.8 83.6
119 31.2 25.5 38.3



#56
1,1,1,2-Tetrachloroethane
Concen: 9.567 ppbv
RT: 8.920 min Scan# 2729
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion:131 Resp: 249270
Ion Ratio Lower Upper
131 100
133 95.0 76.6 114.8
119 61.3 49.8 74.6

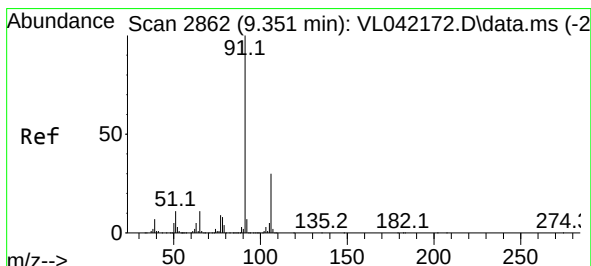
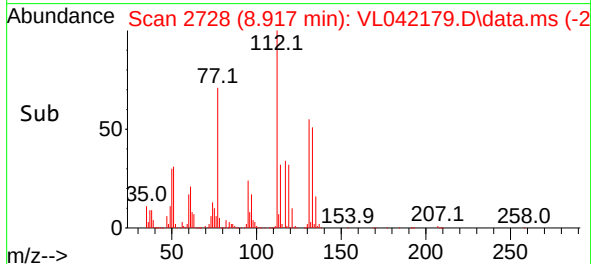
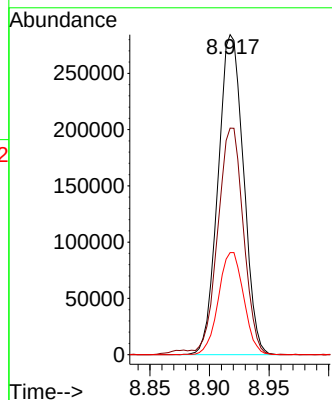
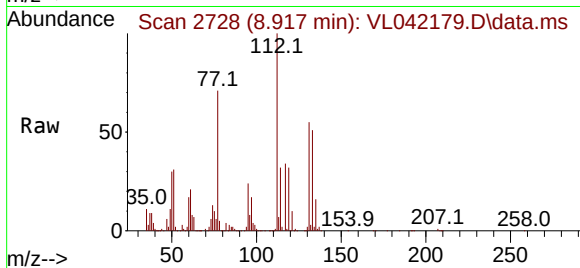




#57
Chlorobenzene
Concen: 9.411 ppbv
RT: 8.917 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

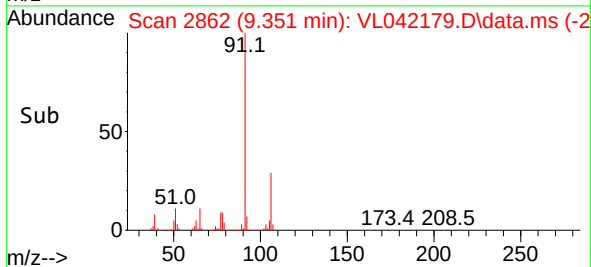
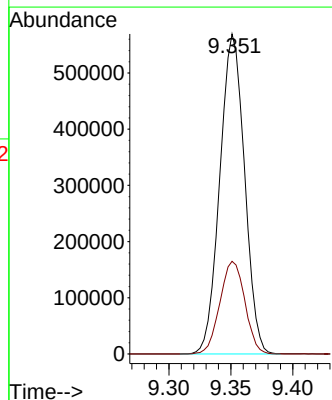
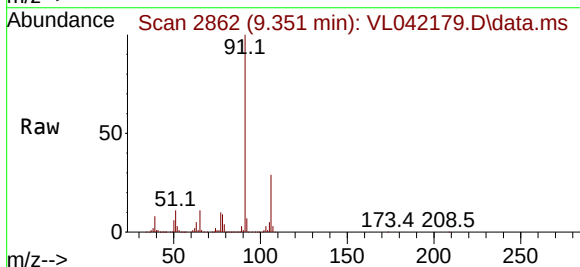
Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725

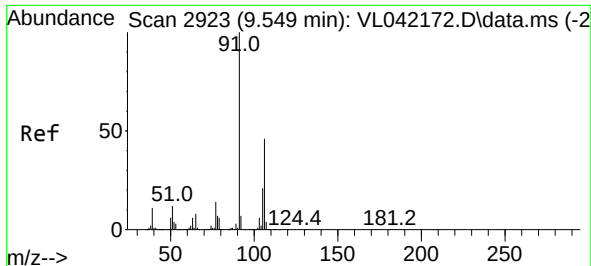
Tgt Ion:112 Resp: 422531
Ion Ratio Lower Upper
112 100
77 70.6 58.2 87.2
114 31.9 29.1 35.5



#58
Ethyl Benzene
Concen: 9.412 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 91 Resp: 791360
Ion Ratio Lower Upper
91 100
106 28.9 24.2 36.2





#59

m/p-Xylene

Concen: 8.695 ppbv

RT: 9.548 min Scan# 2923

Delta R.T. -0.000 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

Instrument :

MSVOA_L

ClientSampleId :

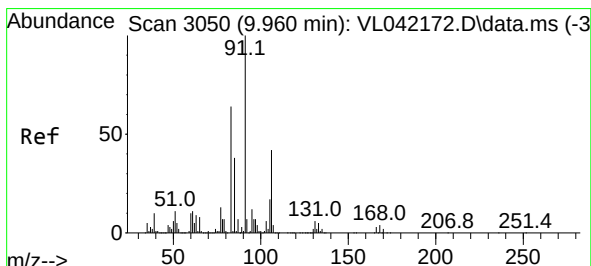
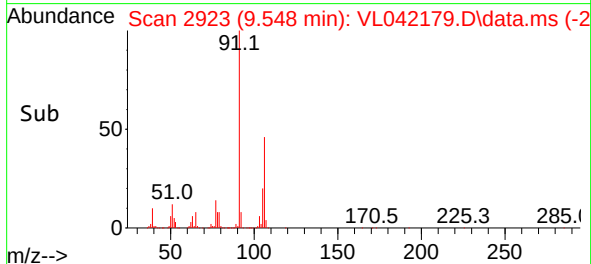
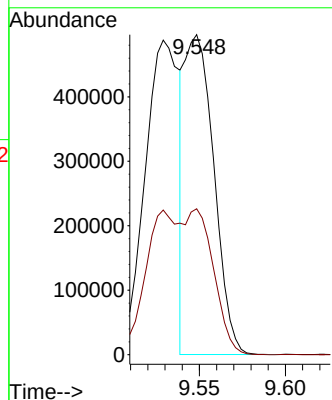
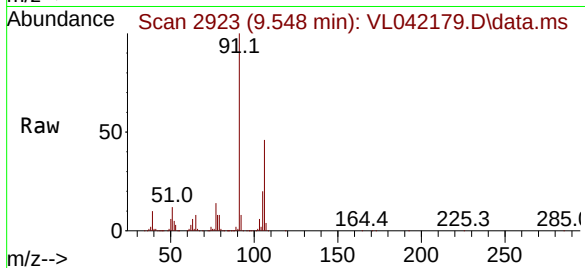
ICVVL032725

Tgt Ion: 91 Resp: 583773

Ion Ratio Lower Upper

91 100

106 97.9 36.4 54.6#



#60

o-Xylene

Concen: 9.404 ppbv

RT: 9.959 min Scan# 3050

Delta R.T. -0.000 min

Lab File: VL042179.D

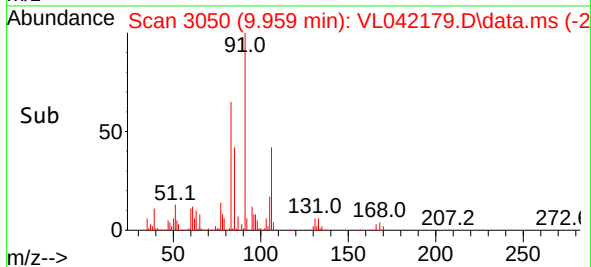
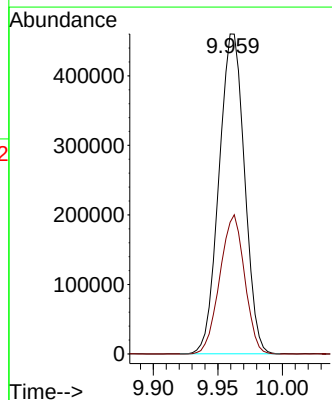
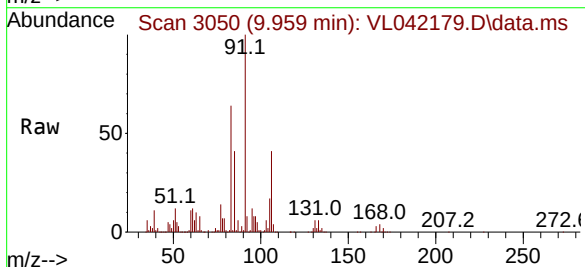
Acq: 27 Mar 2025 12:23

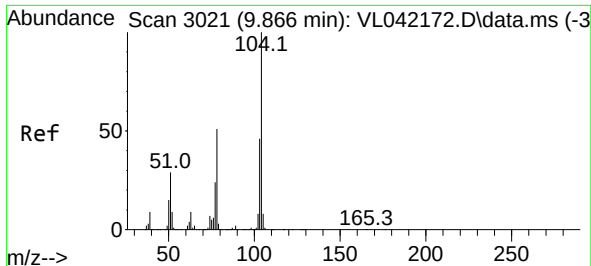
Tgt Ion: 91 Resp: 632918

Ion Ratio Lower Upper

91 100

106 42.2 20.8 62.5

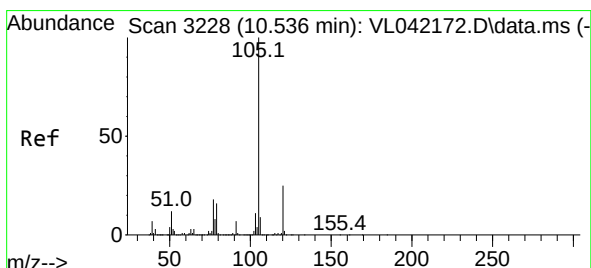
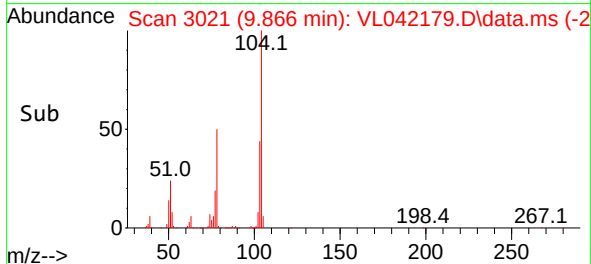
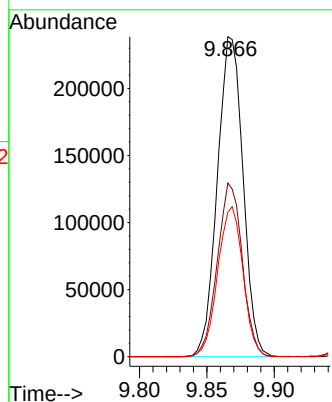
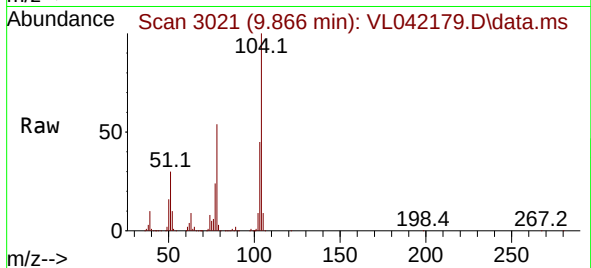




#61
Styrene
Concen: 9.488 ppbv
RT: 9.866 min Scan# 3021
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

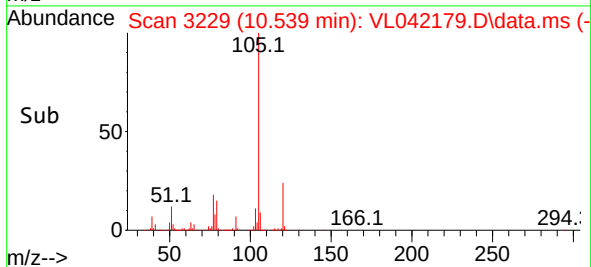
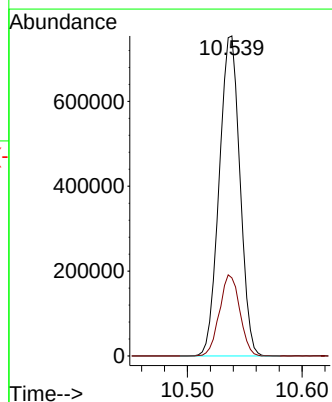
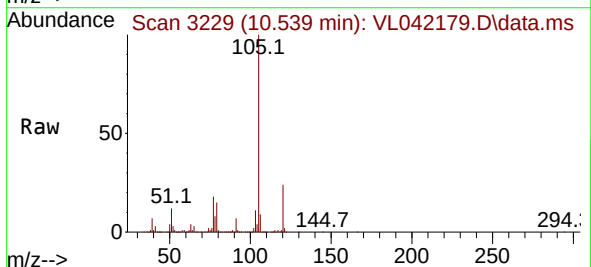
Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725

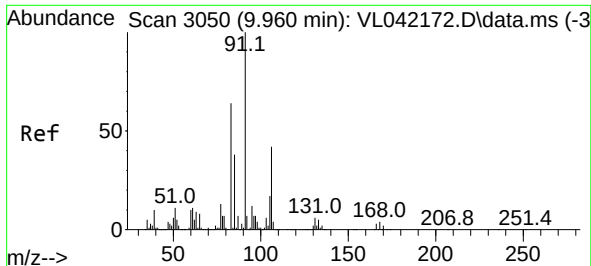
Tgt Ion:104 Resp: 315910
Ion Ratio Lower Upper
104 100
78 52.8 41.8 62.6
103 46.3 37.0 55.4



#62
Isopropylbenzene
Concen: 9.388 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion:105 Resp: 944938
Ion Ratio Lower Upper
105 100
120 24.9 19.9 29.9

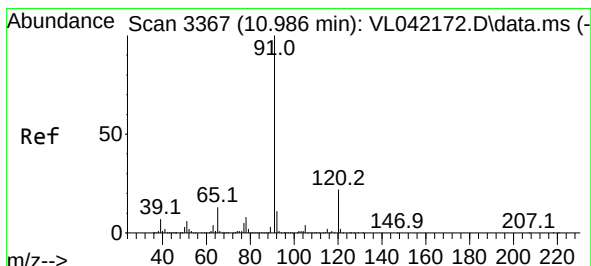
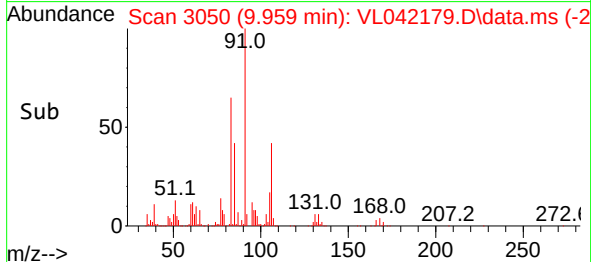
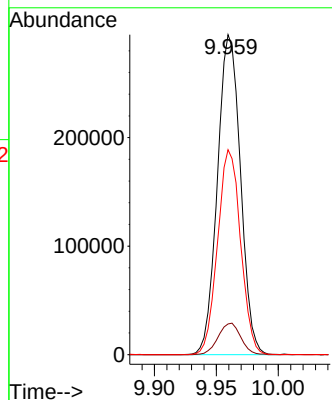
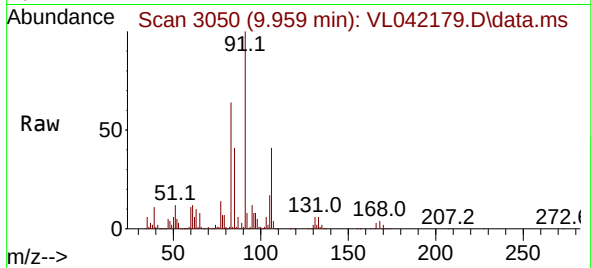




#63
 1,1,2,2-Tetrachloroethane
 Concen: 9.357 ppbv
 RT: 9.959 min Scan# 3050
 Delta R.T. -0.000 min
 Lab File: VL042179.D
 Acq: 27 Mar 2025 12:23

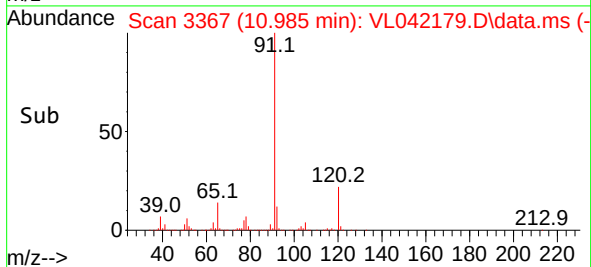
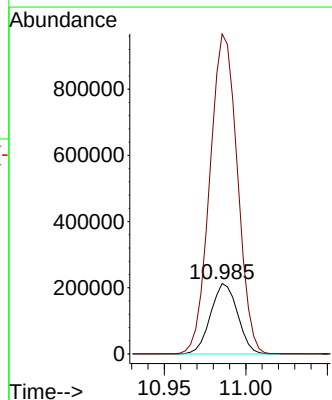
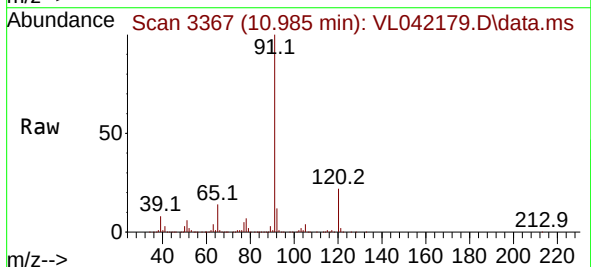
Instrument : MSVOA_L
 ClientSampleId : ICVVL032725

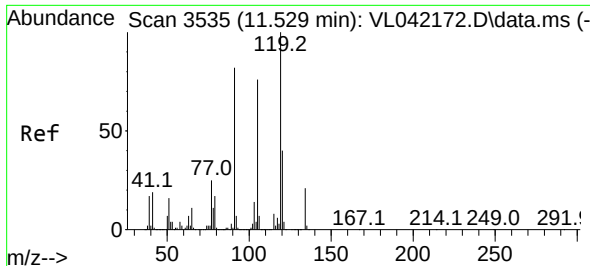
Tgt Ion: 83 Resp: 382635
 Ion Ratio Lower Upper
 83 100
 131 9.7 4.8 14.4
 85 63.9 32.5 97.5



#64
 n-propylbenzene
 Concen: 9.439 ppbv
 RT: 10.985 min Scan# 3367
 Delta R.T. -0.000 min
 Lab File: VL042179.D
 Acq: 27 Mar 2025 12:23

Tgt Ion: 120 Resp: 244547
 Ion Ratio Lower Upper
 120 100
 91 465.9 376.9 565.3

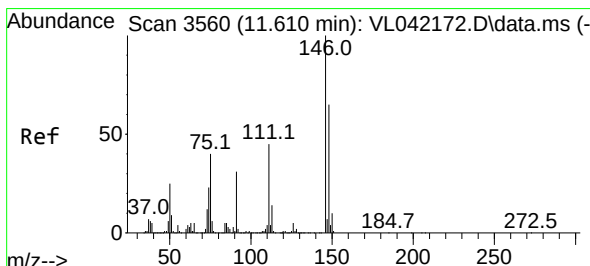
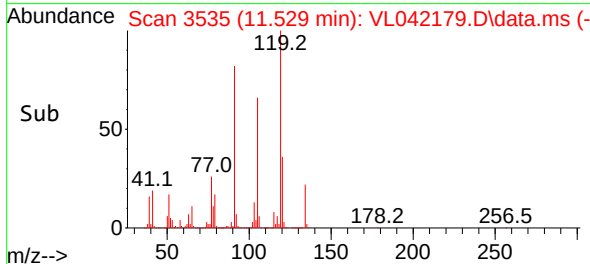
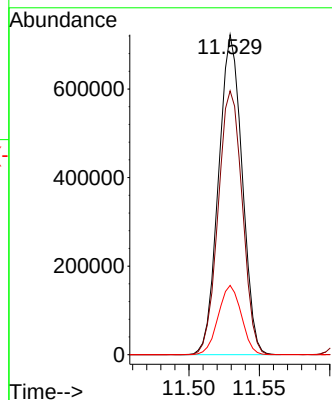
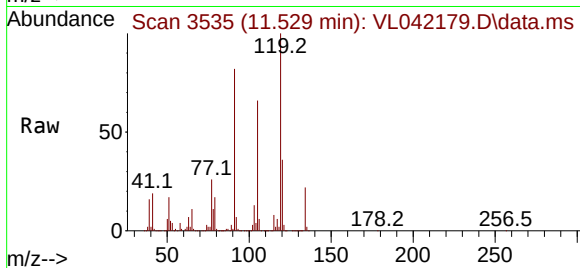




#65
tert-Butylbenzene
Concen: 9.065 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

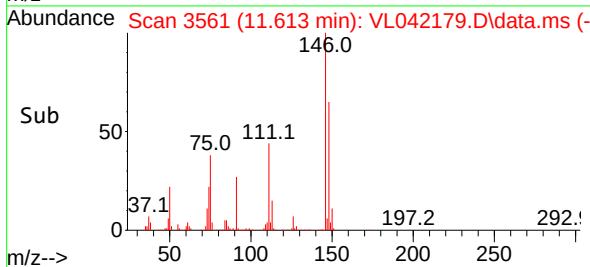
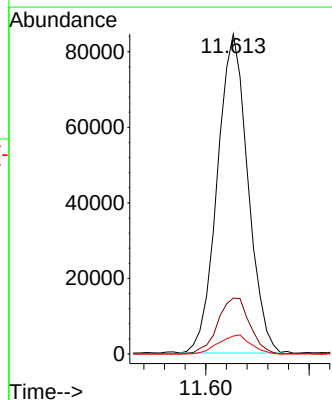
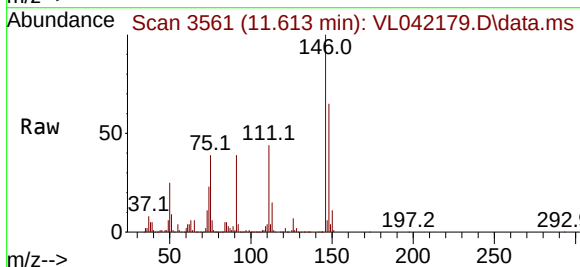
Instrument :
MSVOA_1
ClientSampleId :
ICVVL032725

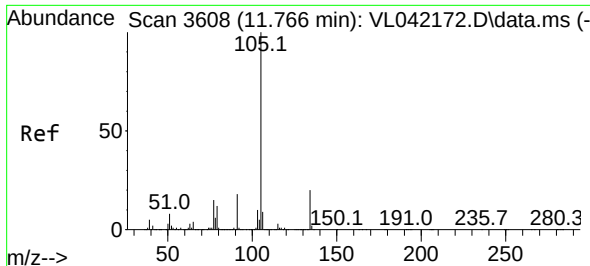
Tgt Ion:119 Resp: 843828
Ion Ratio Lower Upper
119 100
91 84.3 66.0 99.0
134 21.2 16.7 25.1



#66
Benzyl Chloride
Concen: 8.789 ppbv
RT: 11.613 min Scan# 3561
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 91 Resp: 86804
Ion Ratio Lower Upper
91 100
126 18.5 13.8 20.6
128 6.2 4.5 6.7

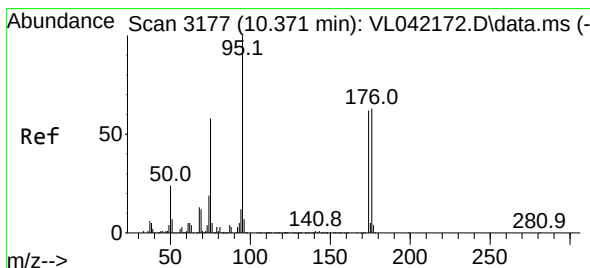
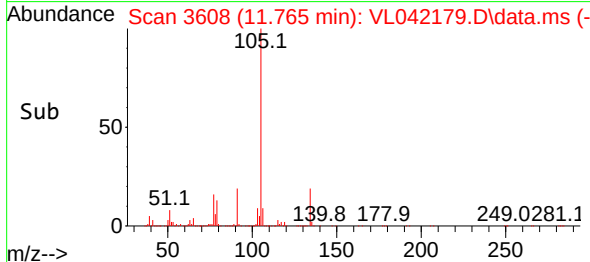
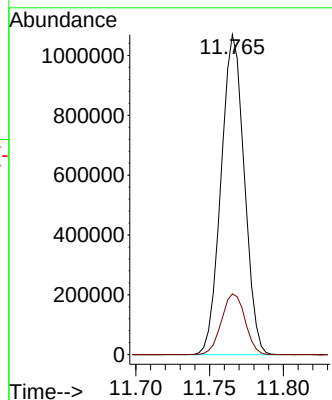
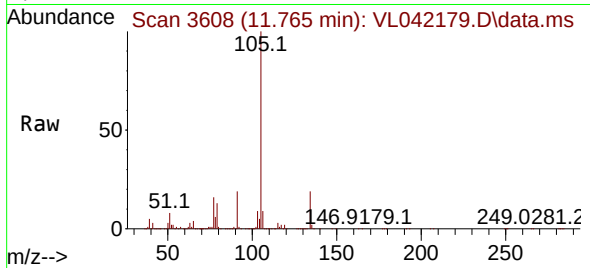




#67
sec-Butylbenzene
Concen: 9.063 ppbv
RT: 11.765 min Scan# 3178
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

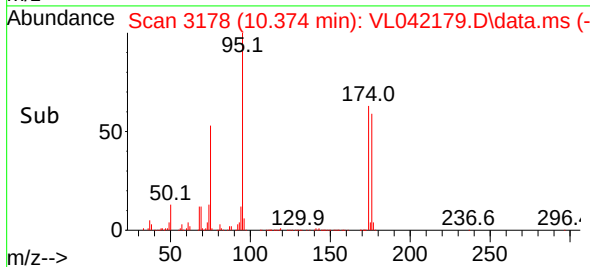
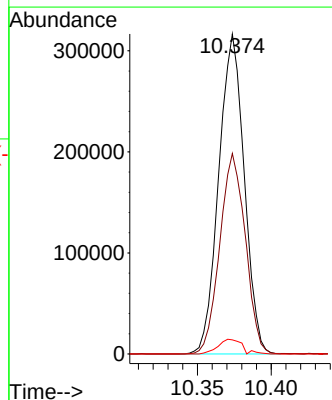
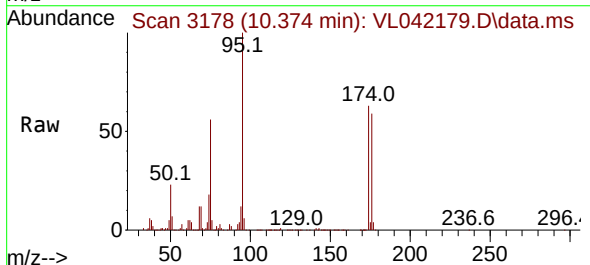
Instrument :
MSVOA_1
ClientSampleId :
ICVVL032725

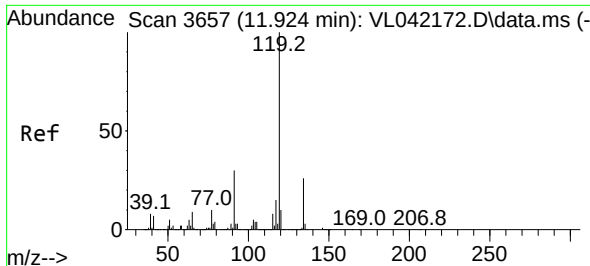
Tgt Ion:105 Resp: 1172636
Ion Ratio Lower Upper
105 100
134 19.4 15.5 23.3



#68
1-Bromo-4-Fluorobenzene
Concen: 9.774 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 95 Resp: 379929
Ion Ratio Lower Upper
95 100
174 63.0 50.6 76.0
175 4.4 3.8 5.6

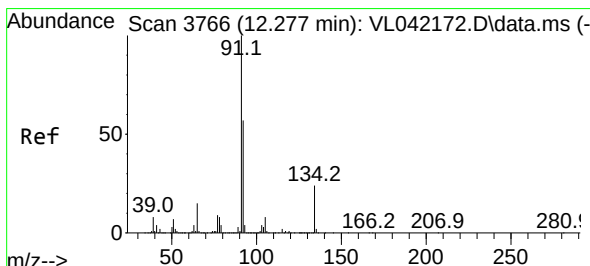
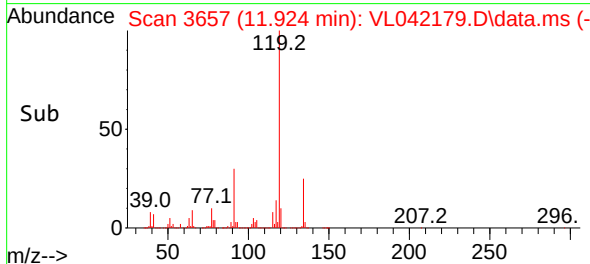
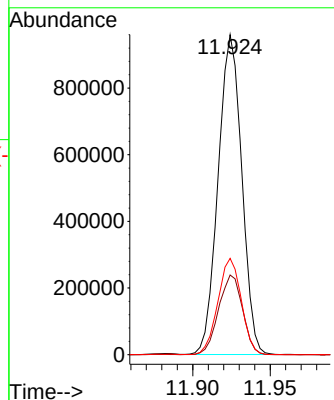
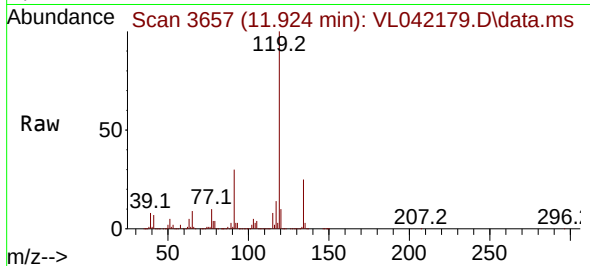




#69
p-Isopropyltoluene
Concen: 9.153 ppbv
RT: 11.924 min Scan# 3657
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

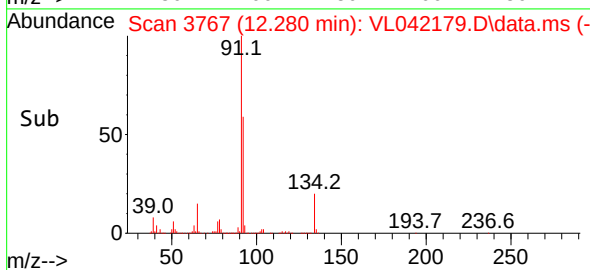
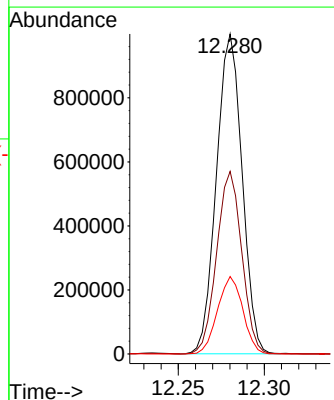
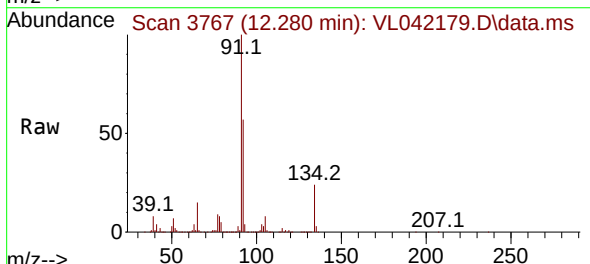
Instrument :
MSVOA_1
ClientSampleId :
ICVVL032725

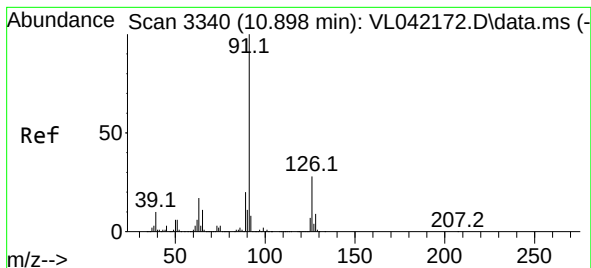
Tgt Ion:119 Resp: 1019694
Ion Ratio Lower Upper
119 100
134 25.3 20.4 30.6
91 29.9 23.7 35.5



#70
n-Butylbenzene
Concen: 9.115 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 91 Resp: 1038548
Ion Ratio Lower Upper
91 100
92 56.0 44.9 67.3
134 23.8 19.2 28.8

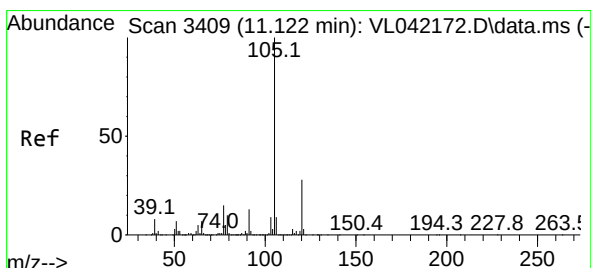
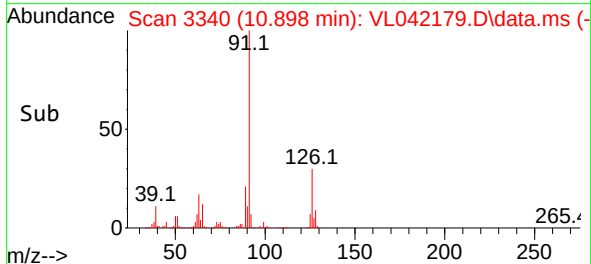
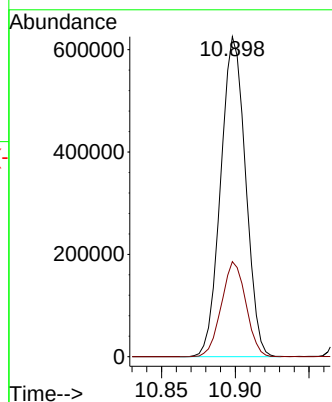
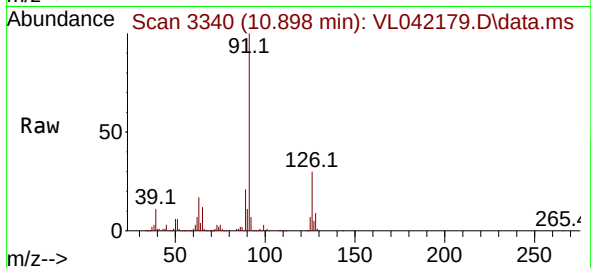




#71
2-Chlorotoluene
Concen: 9.382 ppbv
RT: 10.898 min Scan# 311
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

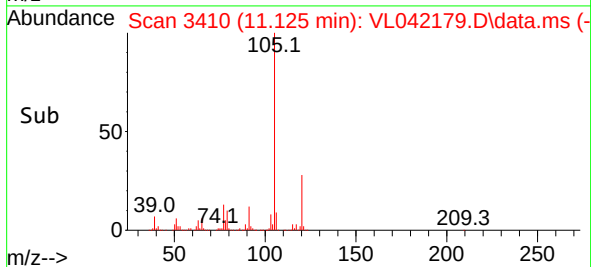
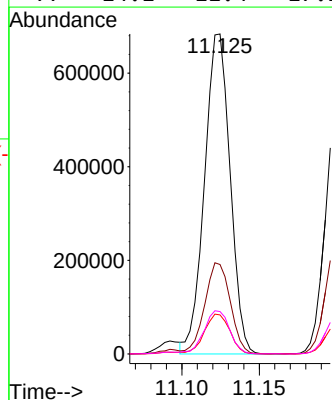
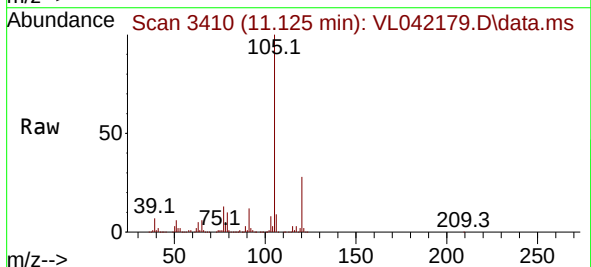
Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725

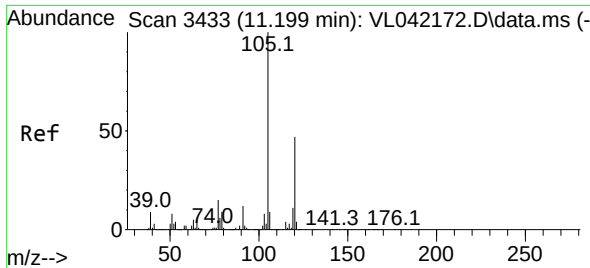
Tgt Ion: 91 Resp: 732874
Ion Ratio Lower Upper
91 100
126 29.2 11.6 46.4



#72
4-Ethyltoluene
Concen: 9.370 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 105 Resp: 785185
Ion Ratio Lower Upper
105 100
120 29.6 23.4 35.0
91 12.9 10.3 15.5
77 14.1 11.4 17.2

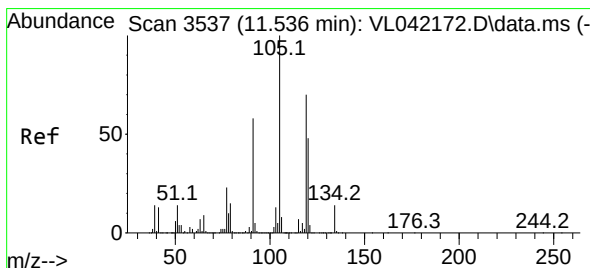
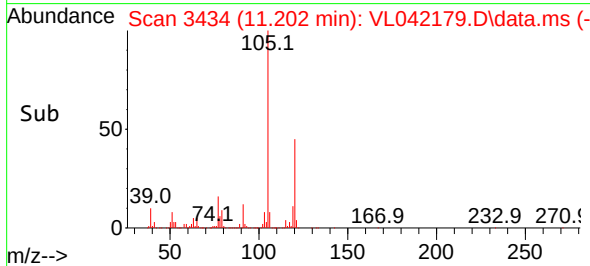
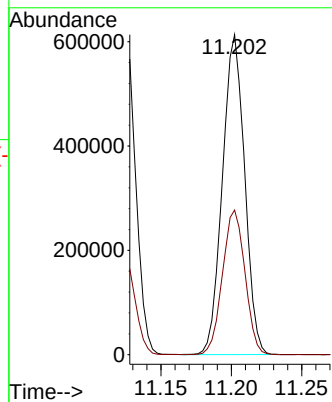
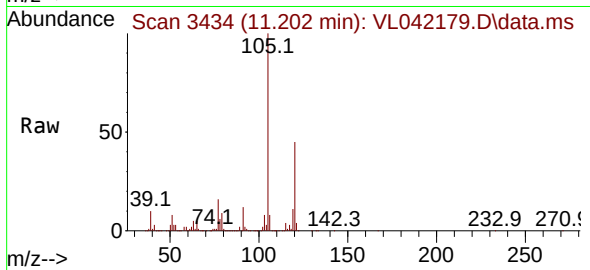




#73
1,3,5-Trimethylbenzene
Concen: 9.203 ppbv
RT: 11.202 min Scan# 3433
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

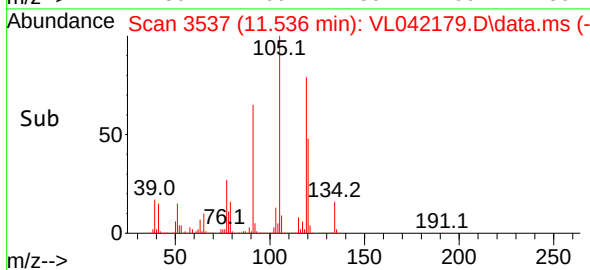
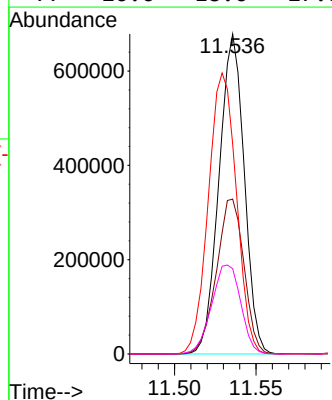
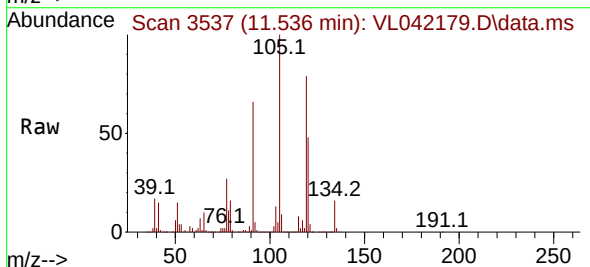
Instrument :
MSVOA_1
ClientSampleId :
ICVVL032725

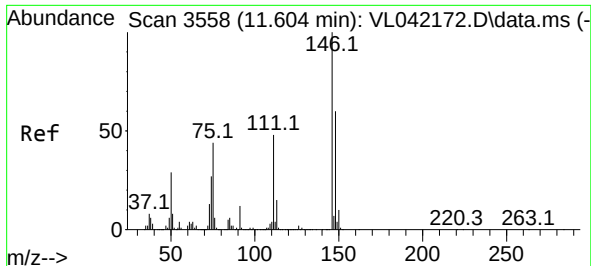
Tgt Ion:105 Resp: 673541
Ion Ratio Lower Upper
105 100
120 45.2 37.4 56.0



#74
1,2,4-Trimethylbenzene
Concen: 8.648 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion:105 Resp: 729155
Ion Ratio Lower Upper
105 100
120 48.4 38.6 58.0
91 65.6 46.2 69.2
77 26.6 18.6 27.8

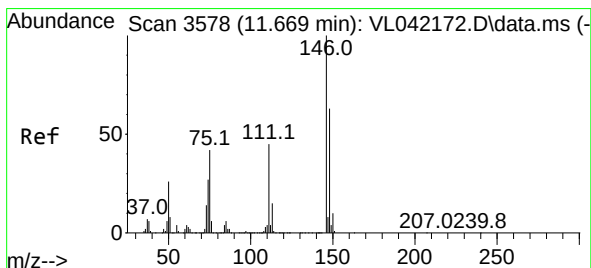
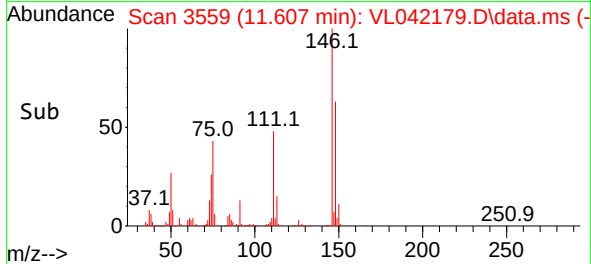
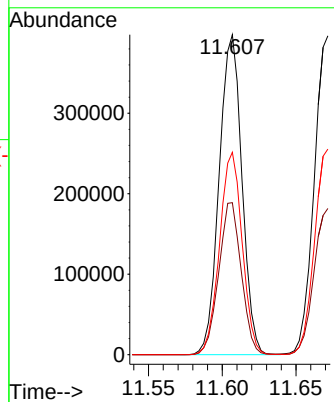
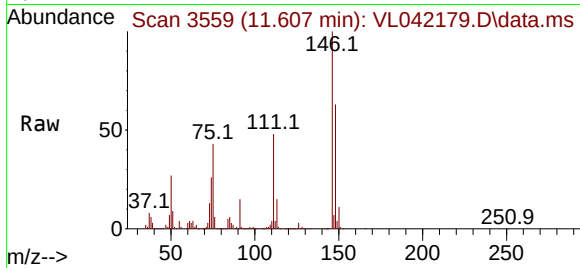




#75
1,3-Dichlorobenzene
Concen: 9.224 ppbv
RT: 11.607 min Scan# 3558
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

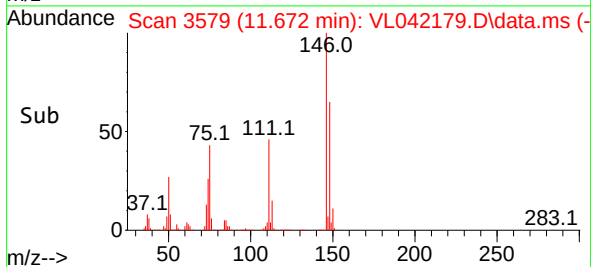
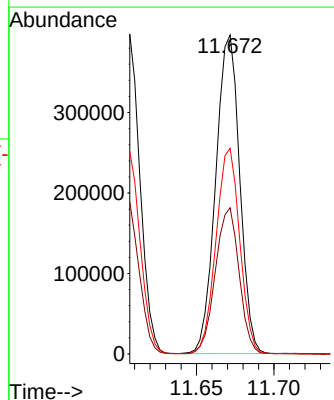
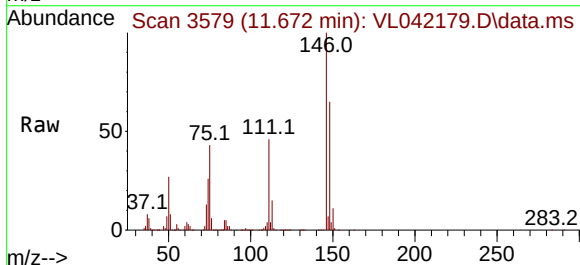
Instrument :
MSVOA_1
ClientSampleId :
ICVVL032725

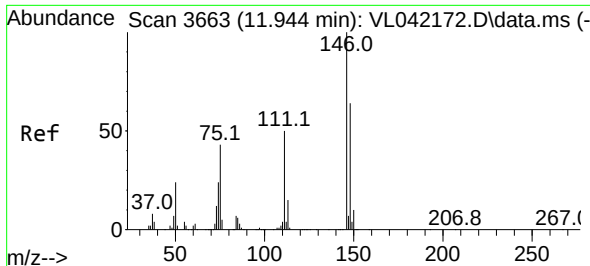
Tgt Ion:146 Resp: 426573
Ion Ratio Lower Upper
146 100
111 47.2 23.8 71.2
148 62.9 31.9 95.9



#76
1,4-Dichlorobenzene
Concen: 9.263 ppbv
RT: 11.672 min Scan# 3579
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion:146 Resp: 426318
Ion Ratio Lower Upper
146 100
111 45.6 23.0 69.0
148 64.1 31.9 95.7

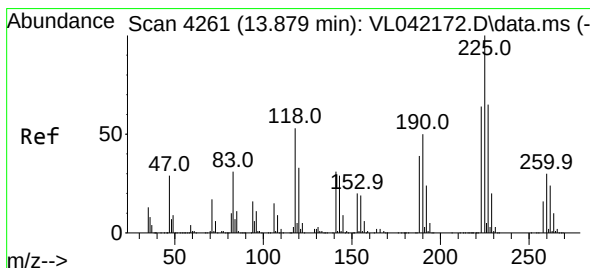
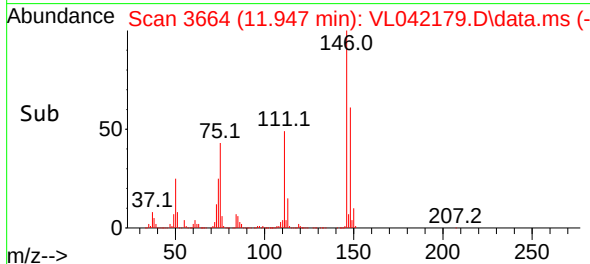
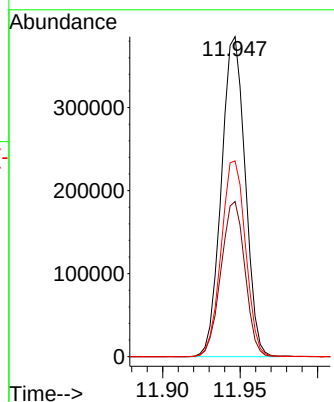
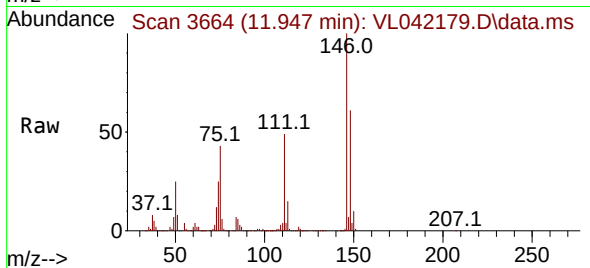




#77
1,2-Dichlorobenzene
Concen: 9.154 ppbv
RT: 11.947 min Scan# 3664
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

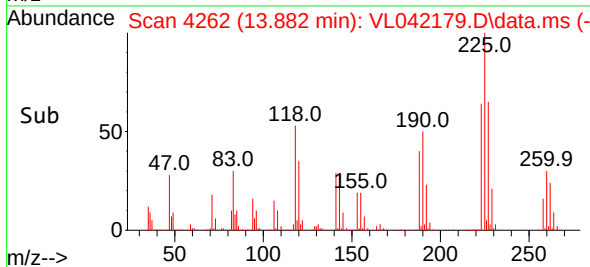
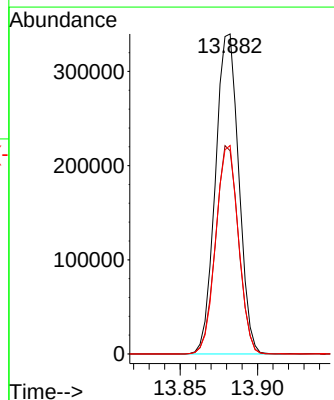
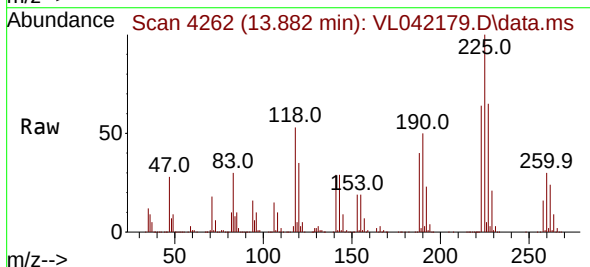
Instrument :
MSVOA_1
ClientSampleId :
ICVVL032725

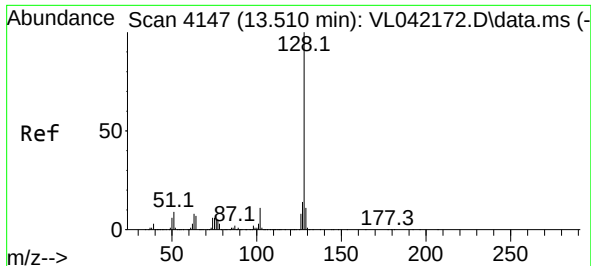
Tgt Ion:146 Resp: 412180
Ion Ratio Lower Upper
146 100
111 48.8 24.8 74.3
148 62.8 31.6 94.8



#78
Hexachloro-1,3-Butadiene
Concen: 7.776 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion:225 Resp: 356386
Ion Ratio Lower Upper
225 100
223 63.4 50.6 76.0
227 63.4 51.2 76.8

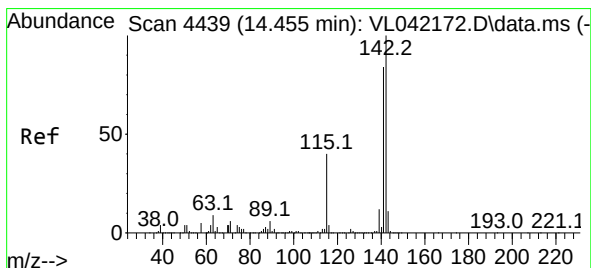
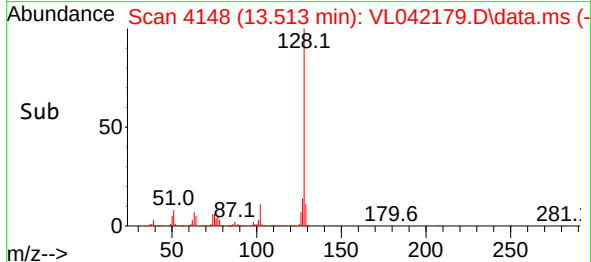
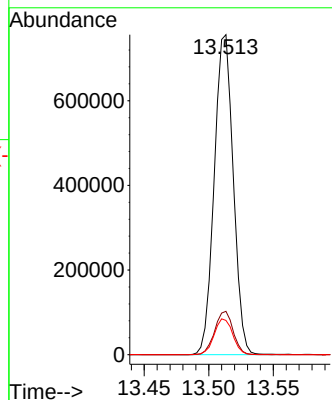
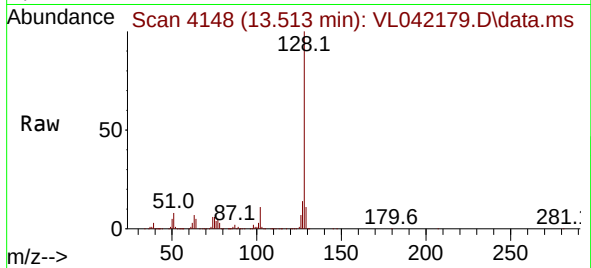




#79
Naphthalene
Concen: 8.385 ppbv
RT: 13.513 min Scan# 4147
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

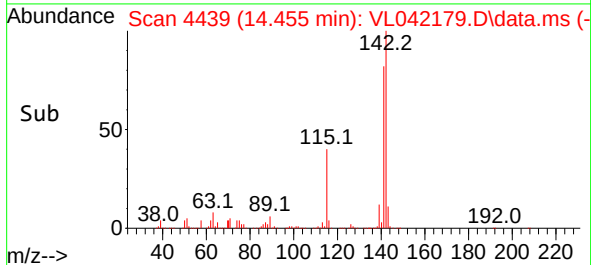
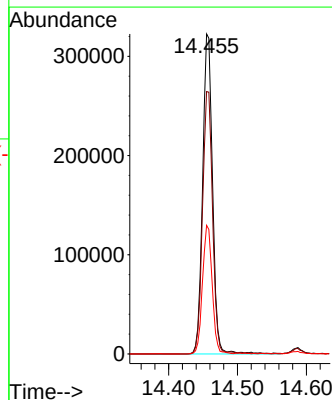
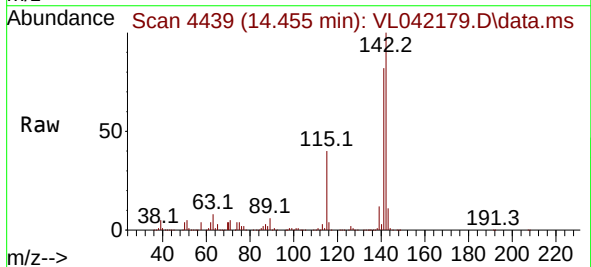
Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725

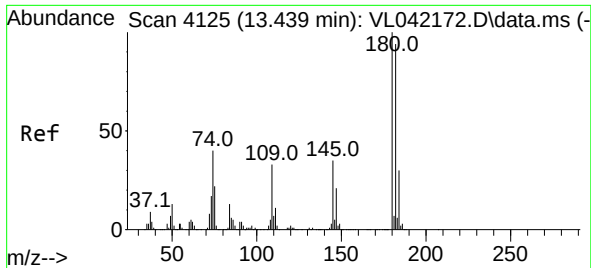
Tgt Ion:128 Resp: 773311
Ion Ratio Lower Upper
128 100
127 13.6 10.8 16.2
129 10.7 9.0 13.4



#80
Naphthalene,2-methyl-
Concen: 7.151 ppbv
RT: 14.455 min Scan# 4439
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

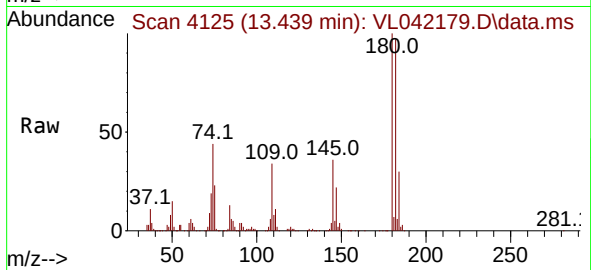
Tgt Ion:142 Resp: 323443
Ion Ratio Lower Upper
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141 83.5 66.3 99.5
115 39.8 31.6 47.4



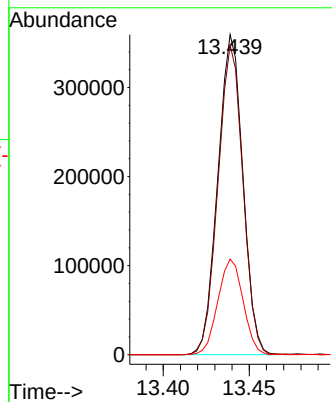
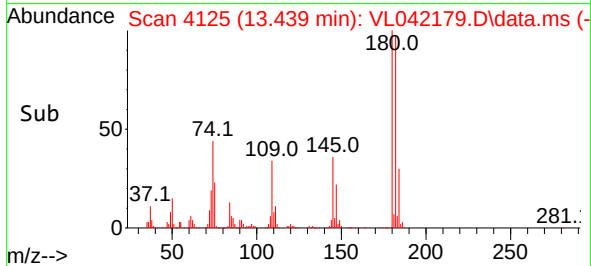


#81
 1,2,4-Trichlorobenzene
 Concen: 8.553 ppbv
 RT: 13.439 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VL042179.D
 Acq: 27 Mar 2025 12:23

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL032725



Tgt Ion:	180	Resp:	363863
Ion Ratio	Lower	Upper	
180	100		
182	96.2	75.1	112.7
184	30.1	24.4	36.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
 Data File : VL042286.D
 Acq On : 09 Apr 2025 10:20
 Operator : SY/MD
 Sample : VSTDC0010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDC0010

Quant Time: Apr 10 01:39:52 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 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	2.784	49	155631	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.956	114	397176	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.879	117	350140	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	285515	9.930	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.300%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.496	85	224739	9.780	ppbv	99
3) Chlorodifluoromethane	1.473	51	242368	10.325	ppbv	99
4) Chloromethane	1.531	50	94421	10.054	ppbv	99
5) Vinyl Chloride	1.580	62	87077	8.750	ppbv	96
6) Bromomethane	1.667	94	38883	9.136	ppbv	95
7) Chloroethane	1.703	64	35019	9.290	ppbv	100
8) Dichlorotetrafluoroethane	1.554	85	193376	9.882	ppbv	92
9) Propene	1.483	41	92247	8.573	ppbv	98
10) Heptane	4.972	43	280156	9.789	ppbv	99
11) Trichlorofluoromethane	1.874	101	218729	9.783	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.137	101	178752	9.726	ppbv	98
13) Ethanol	1.719	45	4608	4.530	ppbv	92
14) Bromoethene	1.781	108	61204	8.693	ppbv	97
15) Acetone	1.832	43	196063	9.008	ppbv	96
16) 1,3-Butadiene	1.606	39	94932	8.931	ppbv	98
17) tert-Butyl alcohol	2.040	59	220187	8.122	ppbv	98
18) 1,1-Dichloroethene	2.033	96	77686	9.042	ppbv	98
19) Isopropyl Alcohol	1.884	45	103348	8.415	ppbv	93
20) Methylene Chloride	2.059	84	68588	8.461	ppbv	95
21) Allyl Chloride	2.095	41	139965	9.118	ppbv	96
22) trans-1,2-Dichloroethene	2.337	96	88334	8.896	ppbv	94
23) Vinyl Acetate	2.460	43	73162	7.766	ppbv #	96
24) 1,1-Dichloroethane	2.405	63	180404	9.801	ppbv	99
25) Ethyl Acetate	2.833	43	567125	10.039	ppbv	98
26) Hexane	2.823	57	214891	9.848	ppbv	97
27) Carbon Disulfide	2.146	76	216499	9.253	ppbv	97
28) Methyl tert-Butyl Ether	2.438	73	109726	8.077	ppbv	94
29) Chloroform	2.845	83	340889	10.675	ppbv	99
30) Cyclohexane	3.852	84	170359	8.991	ppbv	97
31) cis-1,2-Dichloroethene	2.719	61	201796	9.110	ppbv	97
32) 1,1,1-Trichloroethane	3.363	97	332252	9.088	ppbv	98
34) 2-Butanone	2.554	43	313515	10.886	ppbv	98
35) Carbon Tetrachloride	3.758	117	349240	11.256	ppbv	100
36) Benzene	3.651	78	425324	10.802	ppbv	97
37) 1,2-Dichloroethane	3.214	62	256791	11.391	ppbv	99
38) Trichloroethene	4.541	130	170362	10.370	ppbv	97
39) 1,2-Dichloropropane	4.312	63	153583	10.710	ppbv	95
40) 1,4-Dioxane	4.577	88	72604	9.539	ppbv #	95
41) Tetrahydrofuran	3.053	42	175060	10.556	ppbv	95
42) Bromodichloromethane	4.483	83	358962	11.551	ppbv	100
43) Methyl Methacrylate	4.875	69	154975	9.297	ppbv	97
44) 2,2,4-Trimethylpentane	4.635	57	742388	11.157	ppbv	96
45) t-1,3-Dichloropropene	6.412	75	147204	8.231	ppbv	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
 Data File : VL042286.D
 Acq On : 09 Apr 2025 10:20
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

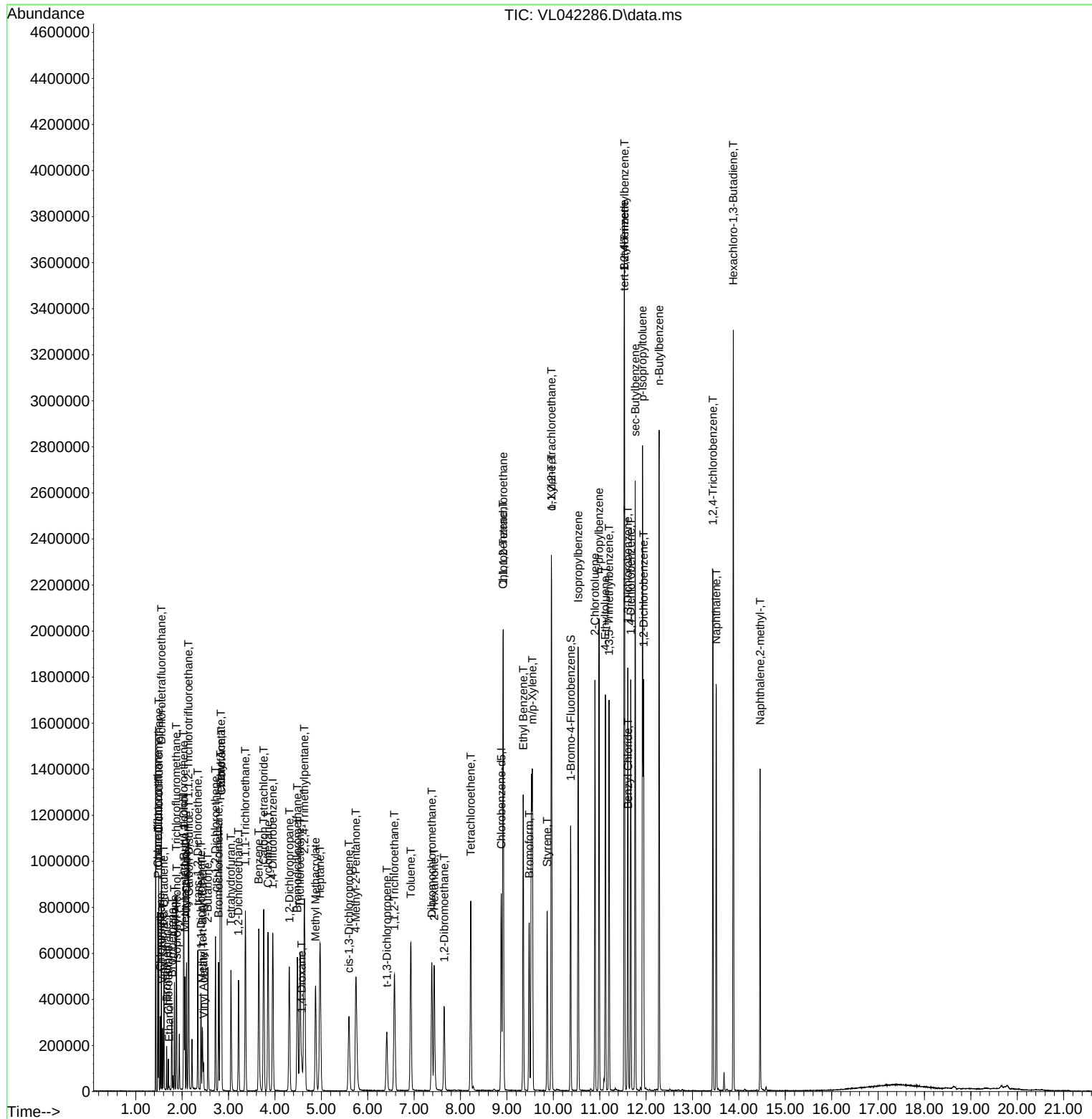
Quant Time: Apr 10 01:39:52 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 02:00:52 2025
 Response via : Initial Calibration

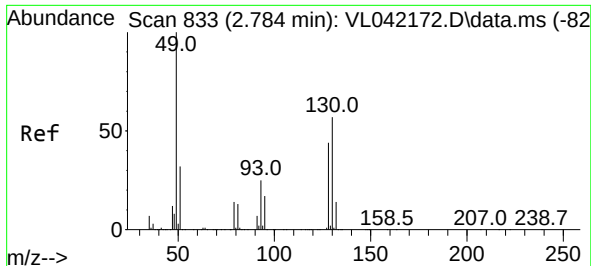
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	195802	8.932	ppbv	98
47) 1,1,2-Trichloroethane	6.574	97	172343	11.369	ppbv	97
48) Dibromochloromethane	7.380	129	280199	10.907	ppbv	100
49) Bromoform	9.481	173	250227	10.849	ppbv	99
50) 4-Methyl-2-Pentanone	5.745	43	445454	9.760	ppbv	95
51) 2-Hexanone	7.432	43	353706	9.437	ppbv #	94
52) Tetrachloroethene	8.222	164	141976	9.092	ppbv	95
53) Toluene	6.927	91	464948	9.961	ppbv	99
54) 1,2-Dibromoethane	7.649	107	229720	10.871	ppbv	96
56) 1,1,1,2-Tetrachloroethane	8.921	131	231041	11.987	ppbv	98
57) Chlorobenzene	8.917	112	399227	12.021	ppbv	93
58) Ethyl Benzene	9.351	91	673801	10.834	ppbv	98
59) m/p-Xylene	9.549	91	529747	10.667	ppbv #	14
60) o-Xylene	9.960	91	581045	11.671	ppbv	97
61) Styrene	9.869	104	251525	10.212	ppbv	98
62) Isopropylbenzene	10.536	105	859013	11.538	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.960	83	381841	12.623	ppbv	99
64) n-propylbenzene	10.986	120	228532	11.925	ppbv	100
65) tert-Butylbenzene	11.529	119	784483	11.393	ppbv	100
66) Benzyl Chloride	11.614	91	57966	7.934	ppbv	100
67) sec-Butylbenzene	11.766	105	1128106	11.787	ppbv	100
69) p-Isopropyltoluene	11.924	119	961623	11.669	ppbv	99
70) n-Butylbenzene	12.280	91	998455	11.847	ppbv	99
71) 2-Chlorotoluene	10.898	91	654276	11.323	ppbv	98
72) 4-Ethyltoluene	11.122	105	728517	11.753	ppbv	99
73) 1,3,5-Trimethylbenzene	11.202	105	620415	11.460	ppbv	100
74) 1,2,4-Trimethylbenzene	11.536	105	709204	11.371	ppbv	97
75) 1,3-Dichlorobenzene	11.607	146	426300	12.462	ppbv	98
76) 1,4-Dichlorobenzene	11.669	146	423561	12.442	ppbv	99
77) 1,2-Dichlorobenzene	11.947	146	419286	12.589	ppbv	99
78) Hexachloro-1,3-Butadiene	13.879	225	334414	9.864	ppbv	99
79) Naphthalene	13.513	128	808459	11.851	ppbv	99
80) Naphthalene,2-methyl-	14.459	142	373298	11.158	ppbv	100
81) 1,2,4-Trichlorobenzene	13.439	180	355741	11.305	ppbv	100

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

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Quant Time: Apr 10 01:39:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
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Response via : Initial Calibration

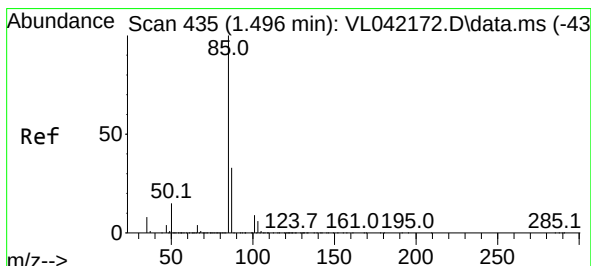
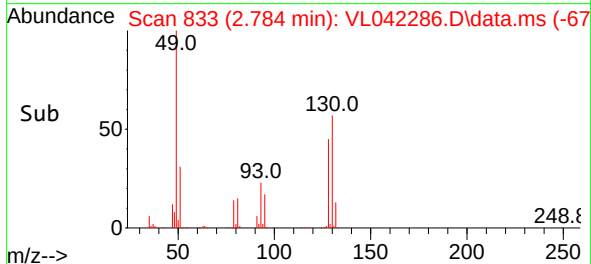
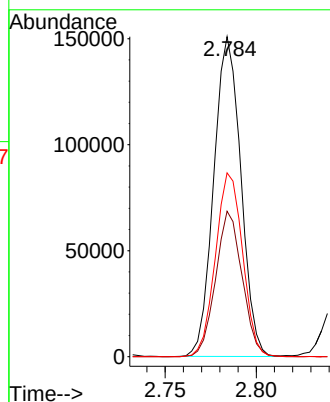
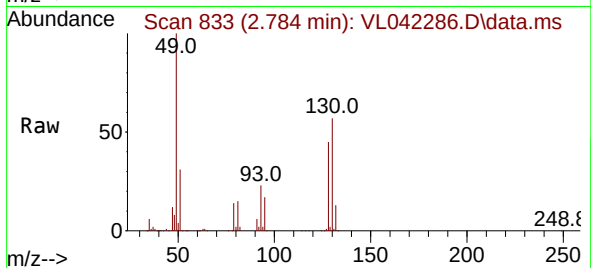




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. -0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

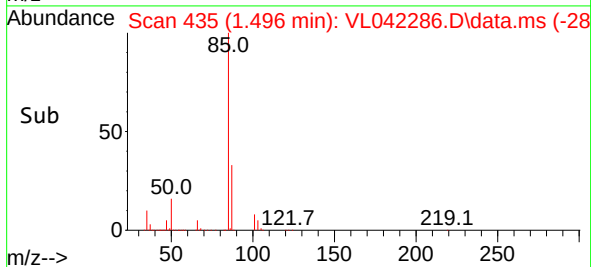
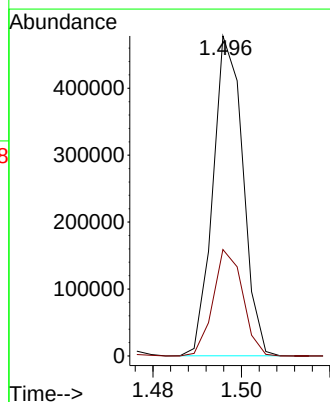
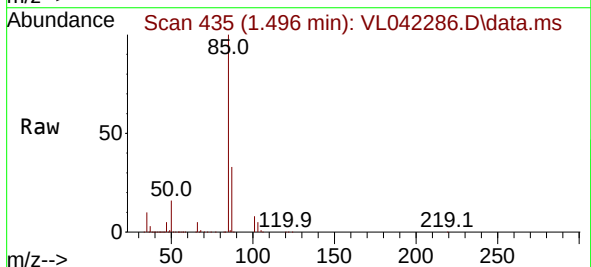
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

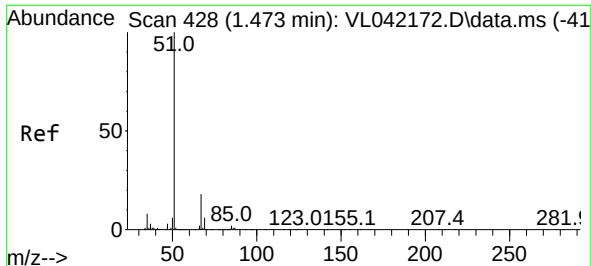
Tgt Ion: 49 Resp: 155631
Ion Ratio Lower Upper
49 100
128 44.6 22.9 68.5
130 57.7 28.8 86.4



#2
Dichlorodifluoromethane
Concen: 9.780 ppbv
RT: 1.496 min Scan# 435
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 85 Resp: 224739
Ion Ratio Lower Upper
85 100
87 33.3 26.1 39.1

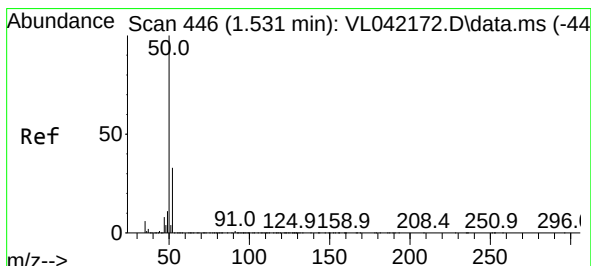
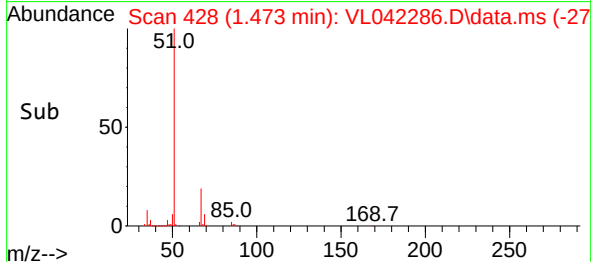
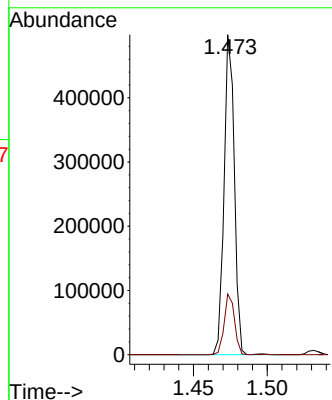
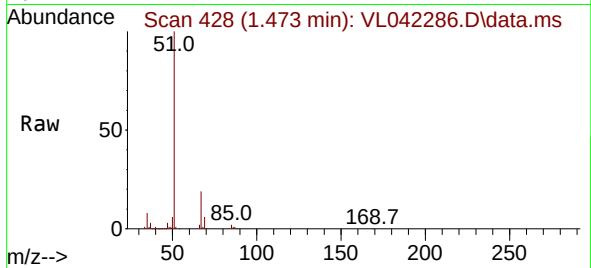




#3
Chlorodifluoromethane
Concen: 10.325 ppbv
RT: 1.473 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

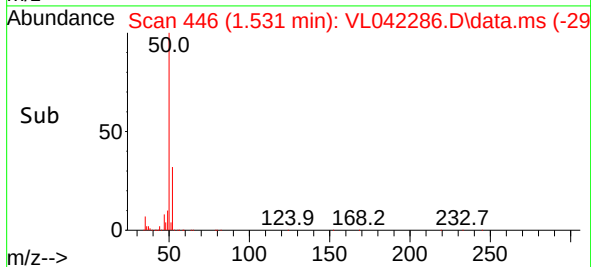
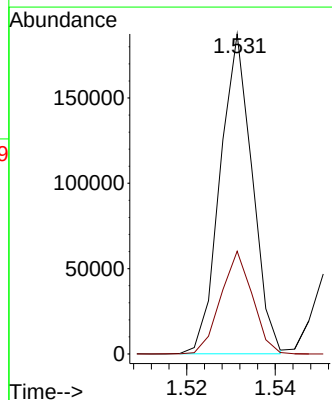
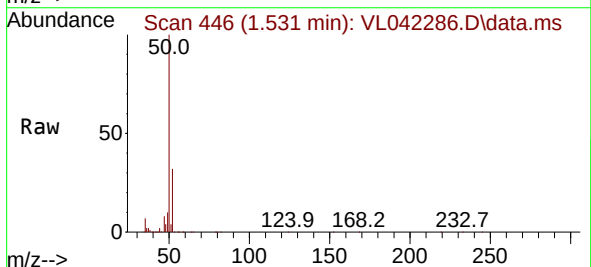
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

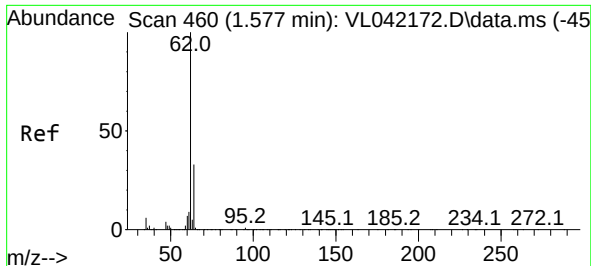
Tgt Ion: 51 Resp: 242368
Ion Ratio Lower Upper
51 100
67 19.0 15.0 22.6



#4
Chloromethane
Concen: 10.054 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 50 Resp: 94421
Ion Ratio Lower Upper
50 100
52 32.1 26.1 39.1

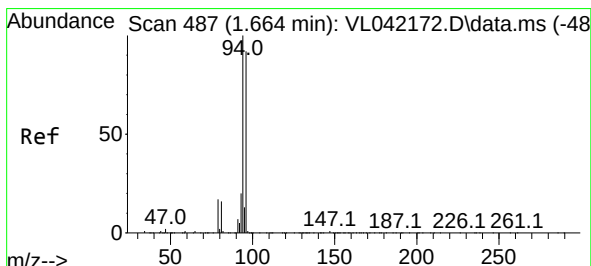
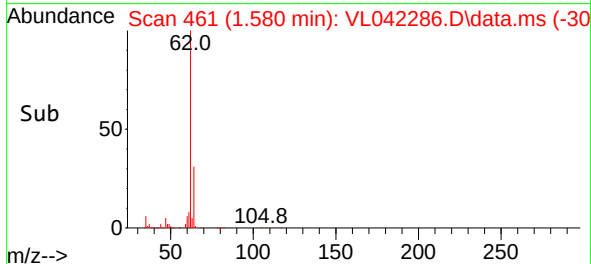
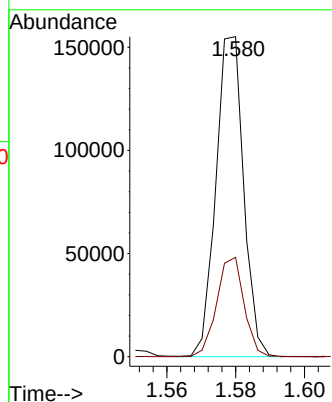
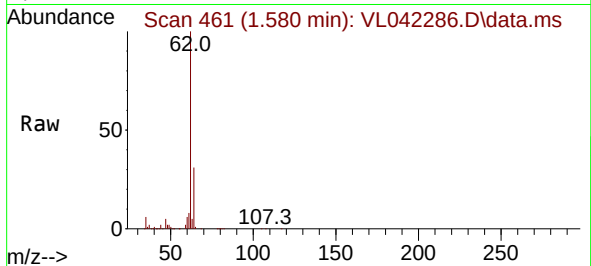




#5
 Vinyl Chloride
 Concen: 8.750 ppbv
 RT: 1.580 min Scan# 41
 Delta R.T. 0.003 min
 Lab File: VL042286.D
 Acq: 09 Apr 2025 10:20

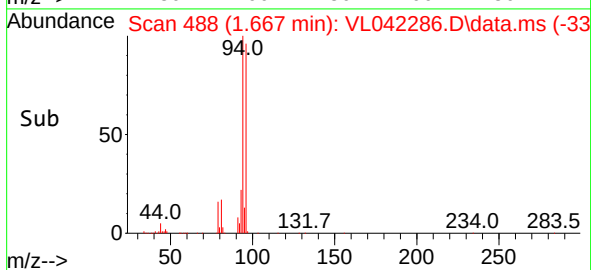
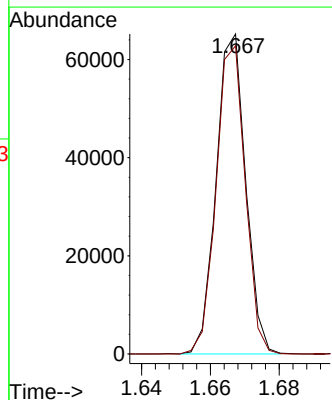
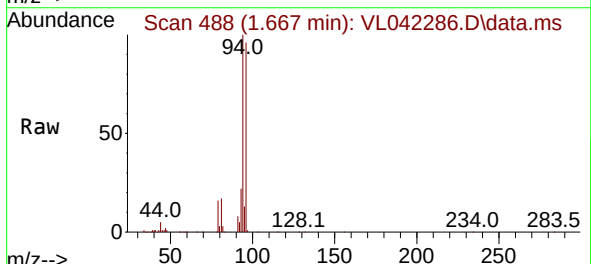
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDCCC010

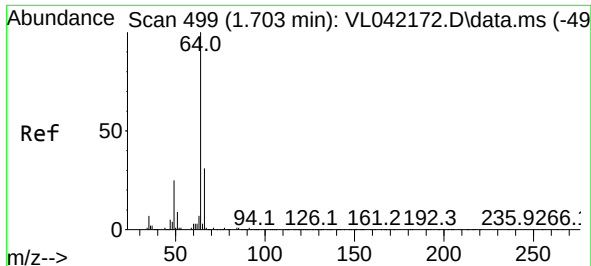
Tgt Ion: 62 Resp: 87077
 Ion Ratio Lower Upper
 62 100
 64 31.1 26.6 40.0



#6
 Bromomethane
 Concen: 9.136 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. 0.003 min
 Lab File: VL042286.D
 Acq: 09 Apr 2025 10:20

Tgt Ion: 94 Resp: 38883
 Ion Ratio Lower Upper
 94 100
 96 96.3 73.1 109.7

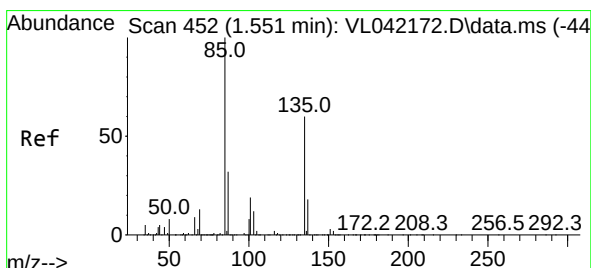
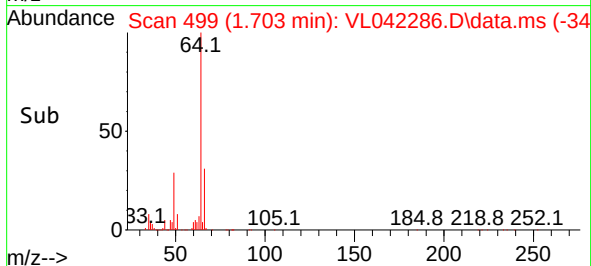
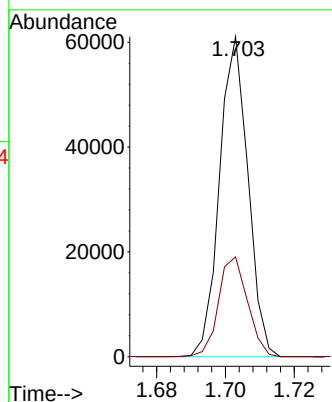
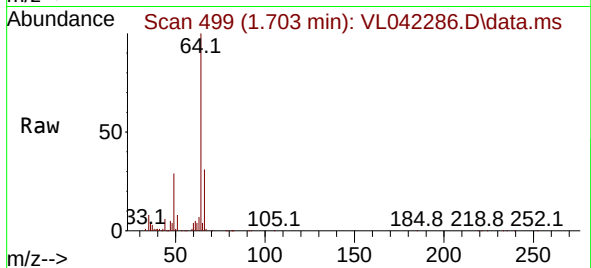




#7
Chloroethane
Concen: 9.290 ppbv
RT: 1.703 min Scan# 499
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

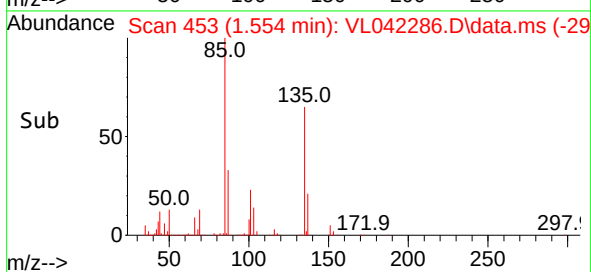
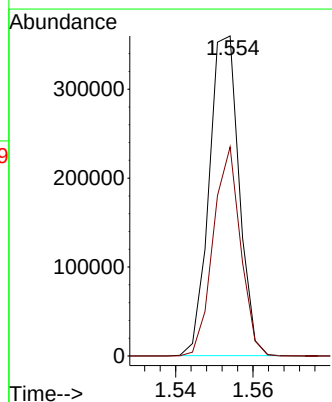
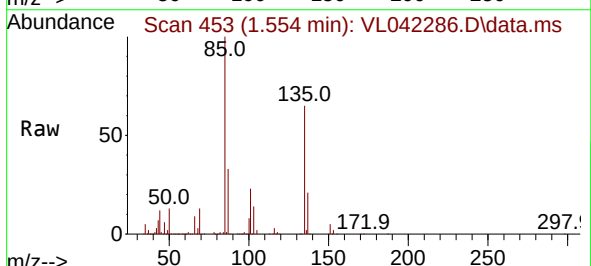
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

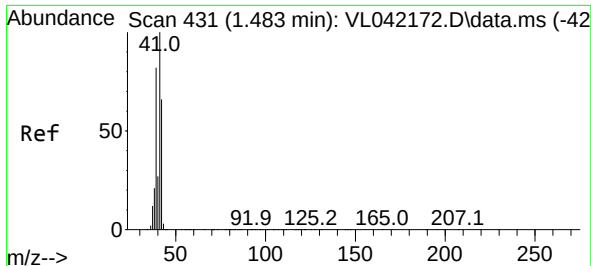
Tgt Ion: 64 Resp: 35019
Ion Ratio Lower Upper
64 100
66 31.2 25.2 37.8



#8
Dichlorotetrafluoroethane
Concen: 9.882 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 85 Resp: 193376
Ion Ratio Lower Upper
85 100
135 59.6 52.4 78.6

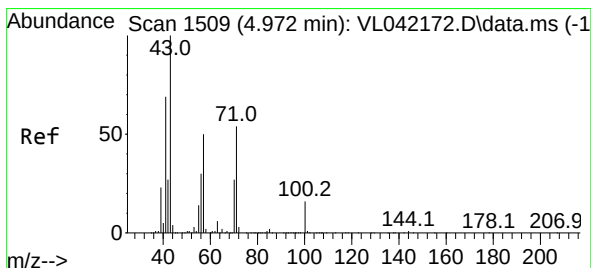
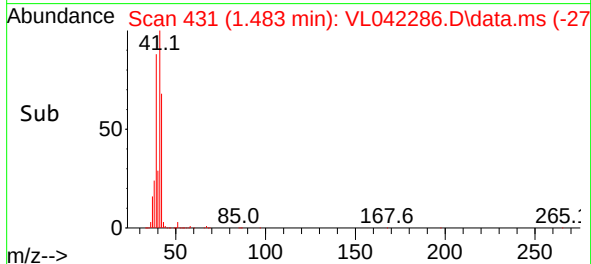
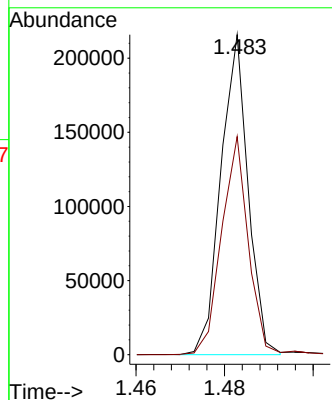
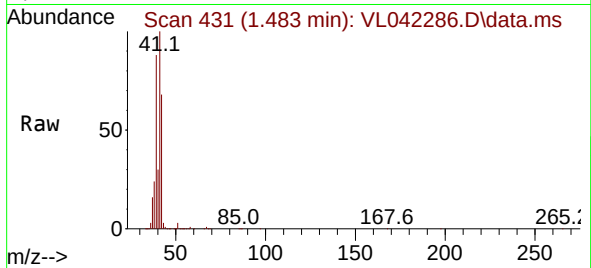




#9
Propene
Concen: 8.573 ppbv
RT: 1.483 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

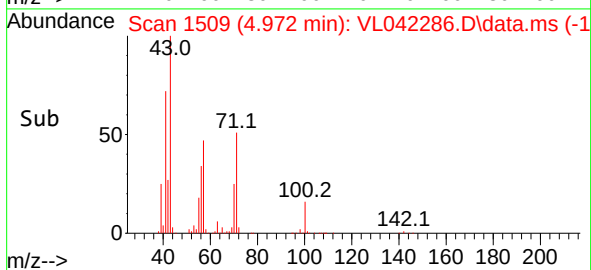
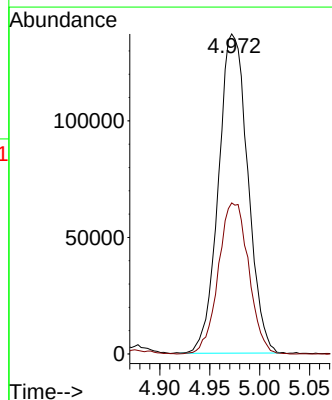
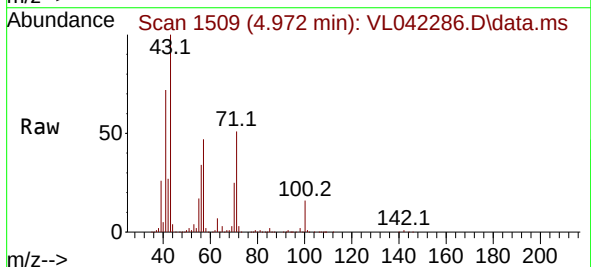
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

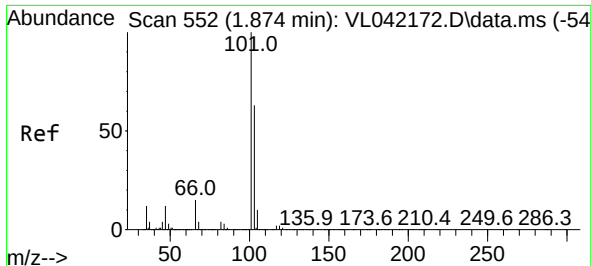
Tgt Ion: 41 Resp: 92247
Ion Ratio Lower Upper
41 100
42 67.9 55.4 83.2



#10
Heptane
Concen: 9.789 ppbv
RT: 4.972 min Scan# 1509
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 43 Resp: 280156
Ion Ratio Lower Upper
43 100
57 48.8 39.4 59.2

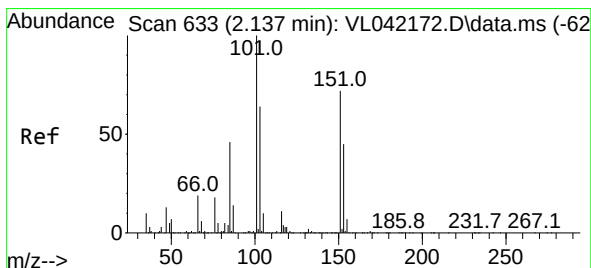
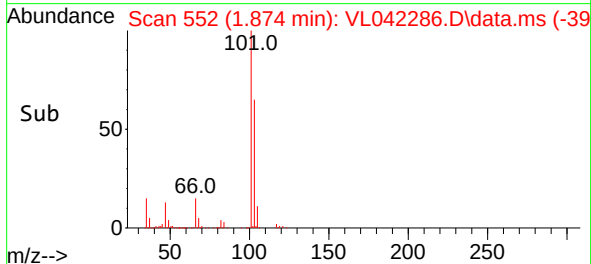
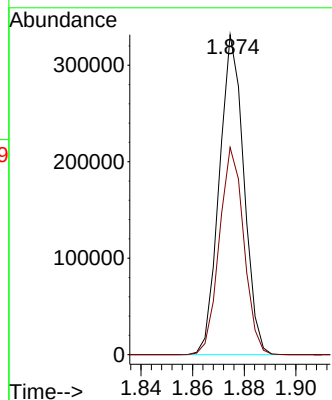
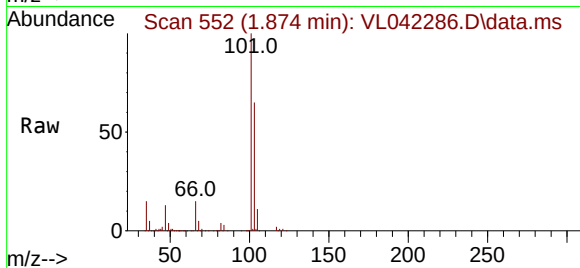




#11
 Trichlorofluoromethane
 Concen: 9.783 ppbv
 RT: 1.874 min Scan# 511
 Delta R.T. 0.000 min
 Lab File: VL042286.D
 Acq: 09 Apr 2025 10:20

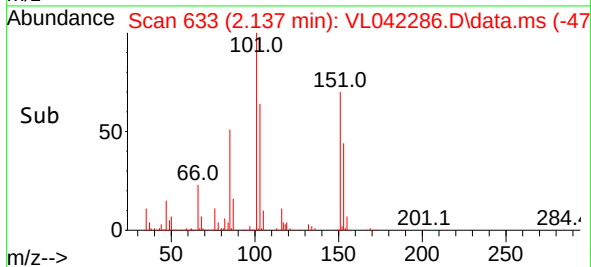
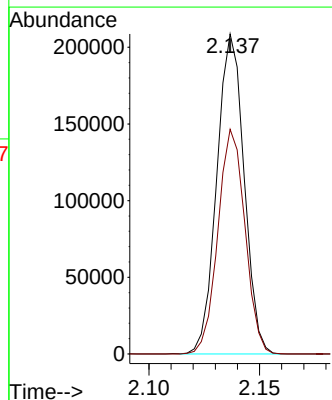
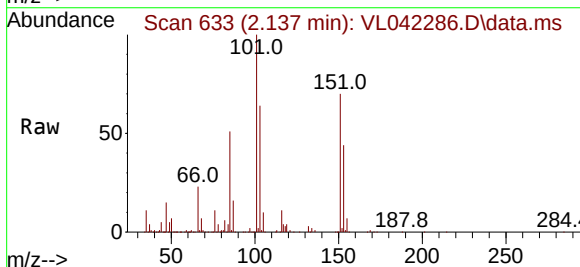
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDCCC010

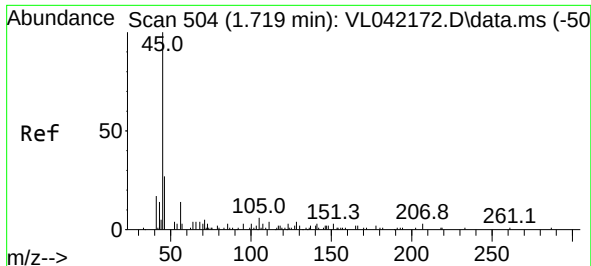
Tgt Ion:101 Resp: 218729
 Ion Ratio Lower Upper
 101 100
 103 64.8 50.2 75.2



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.726 ppbv
 RT: 2.137 min Scan# 633
 Delta R.T. 0.000 min
 Lab File: VL042286.D
 Acq: 09 Apr 2025 10:20

Tgt Ion:101 Resp: 178752
 Ion Ratio Lower Upper
 101 100
 151 69.7 57.1 85.7

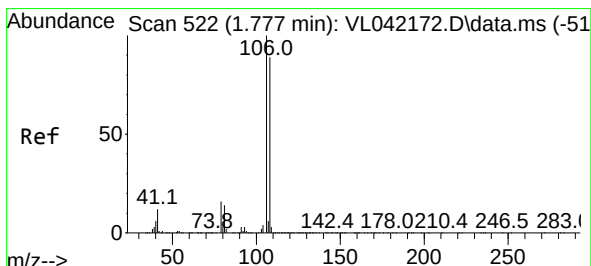
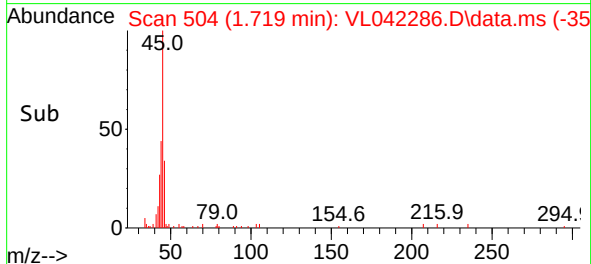
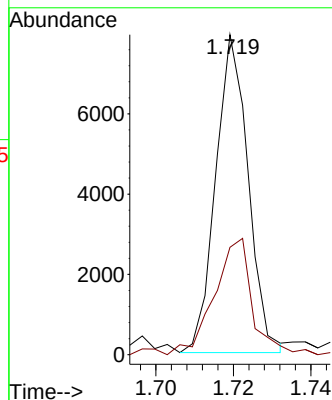
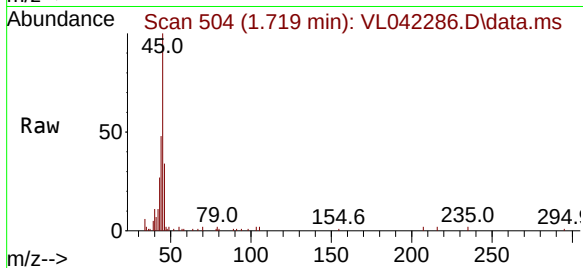




#13
Ethanol
Concen: 4.530 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

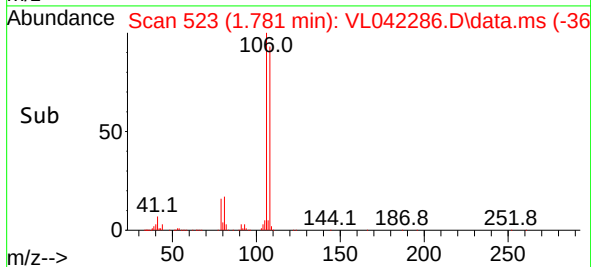
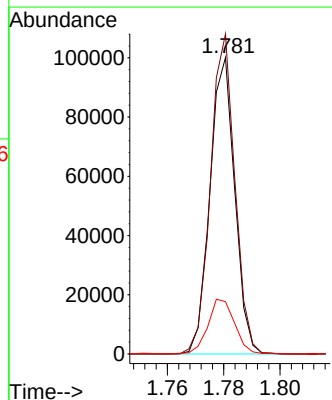
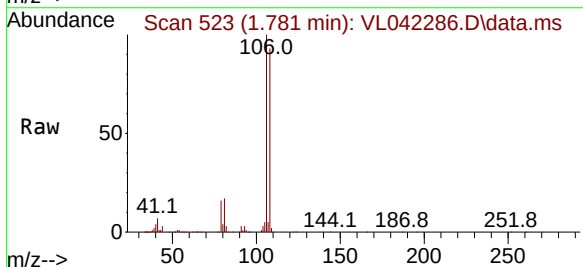
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MSVOA_L
ClientSampleId :
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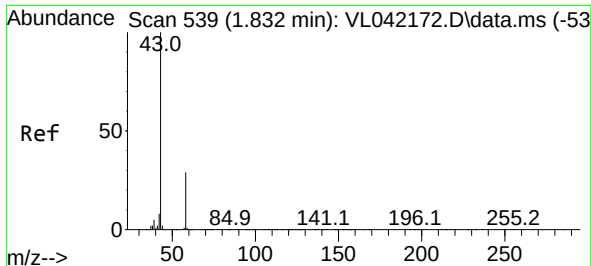
Tgt Ion: 45 Resp: 4608
Ion Ratio Lower Upper
45 100
46 44.9 20.2 80.8



#14
Bromoethene
Concen: 8.693 ppbv
RT: 1.781 min Scan# 523
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 108 Resp: 61204
Ion Ratio Lower Upper
108 100
106 105.7 86.8 130.2
79 20.3 15.0 22.6

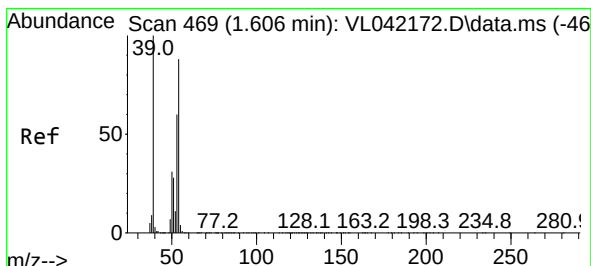
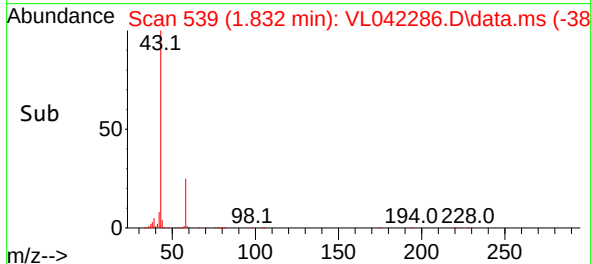
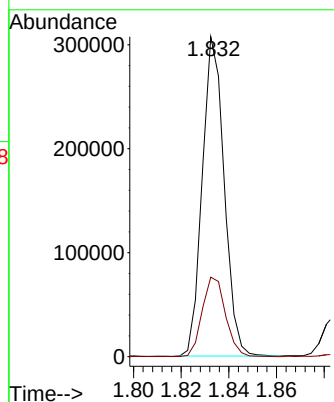
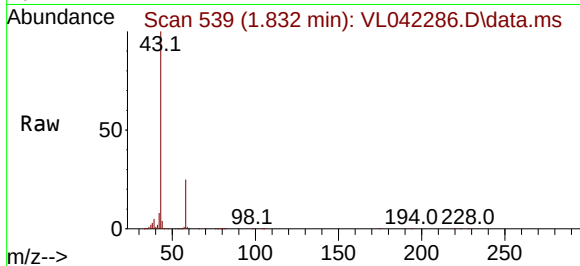




#15
Acetone
Concen: 9.008 ppbv
RT: 1.832 min Scan# 51
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

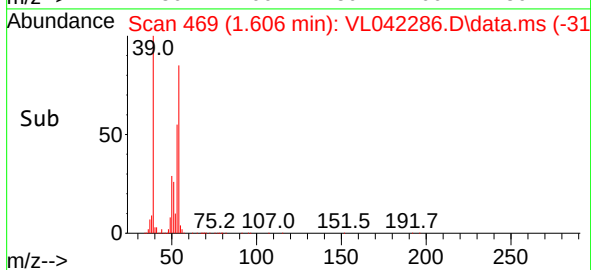
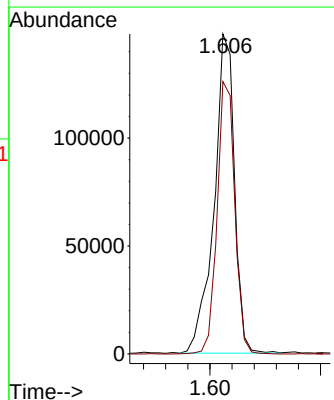
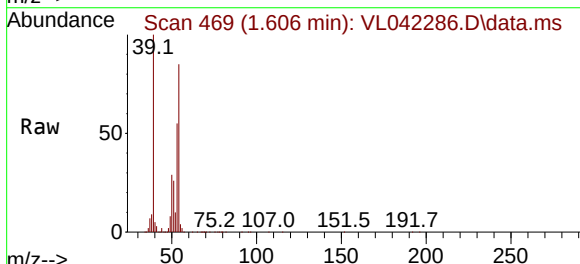
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

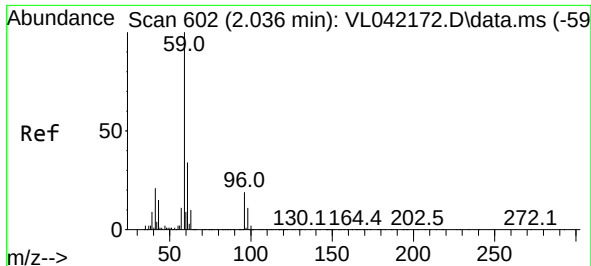
Tgt Ion: 43 Resp: 196063
Ion Ratio Lower Upper
43 100
58 26.8 23.2 34.8



#16
1,3-Butadiene
Concen: 8.931 ppbv
RT: 1.606 min Scan# 469
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 39 Resp: 94932
Ion Ratio Lower Upper
39 100
54 73.9 60.7 91.1

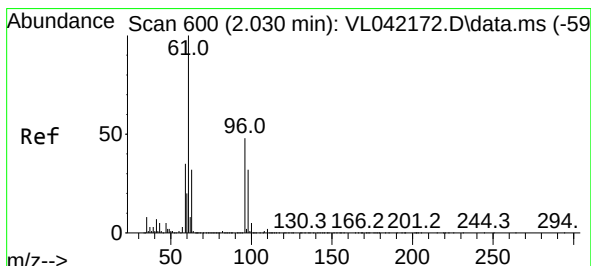
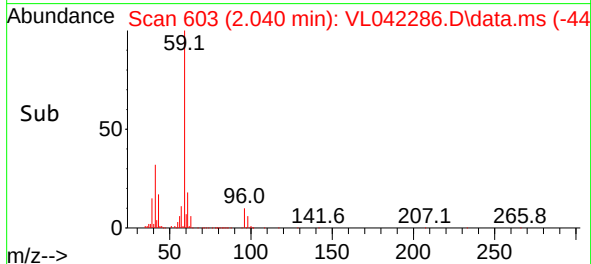
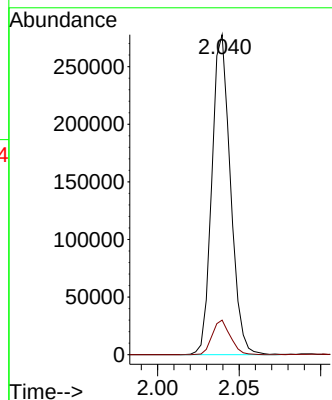
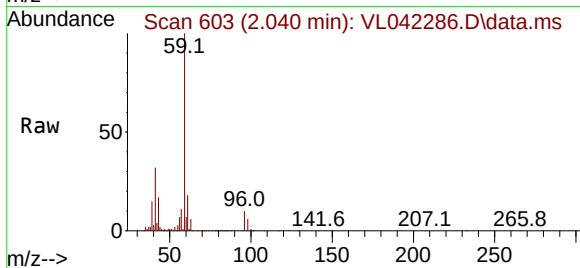




#17
tert-Butyl alcohol
Concen: 8.122 ppbv
RT: 2.040 min Scan# 601
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

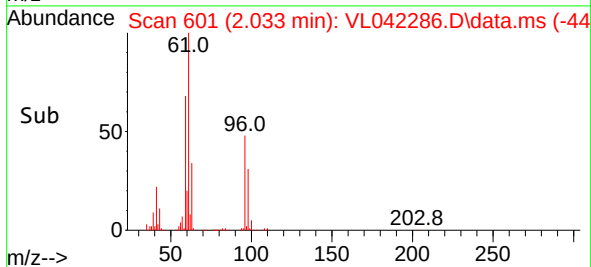
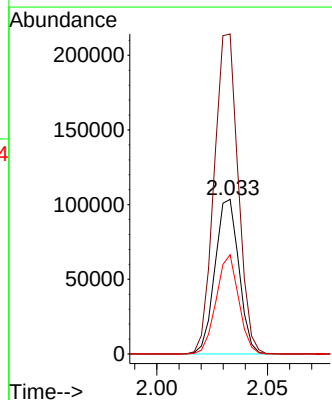
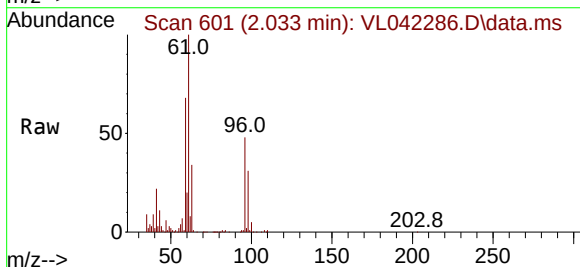
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

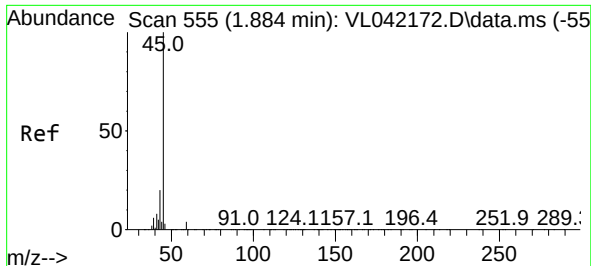
Tgt Ion: 59 Resp: 220187
Ion Ratio Lower Upper
59 100
57 10.5 8.9 13.3



#18
1,1-Dichloroethene
Concen: 9.042 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 96 Resp: 77686
Ion Ratio Lower Upper
96 100
61 207.1 167.6 251.4
98 64.2 53.5 80.3

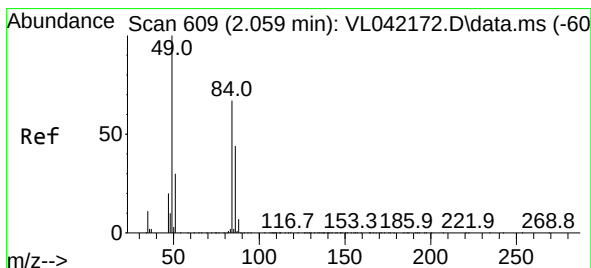
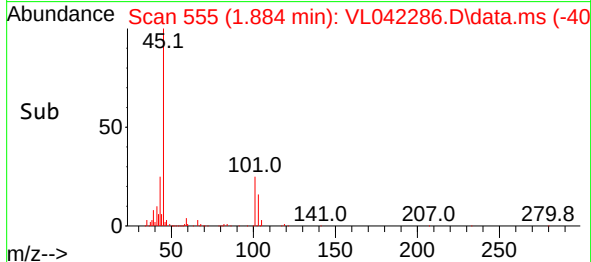
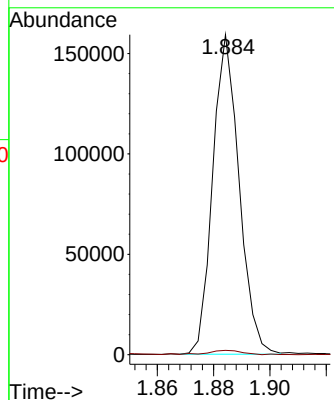
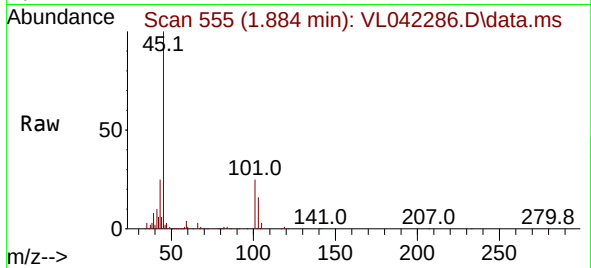




#19
Isopropyl Alcohol
Concen: 8.415 ppbv
RT: 1.884 min Scan# 511
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

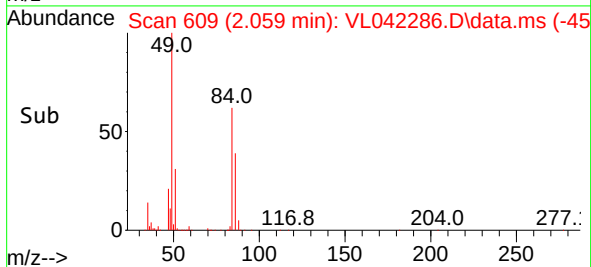
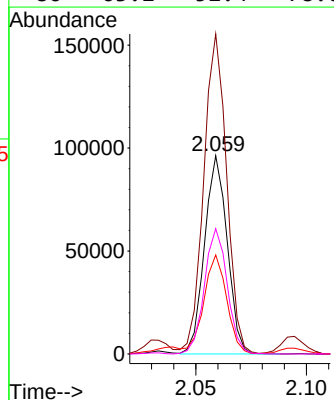
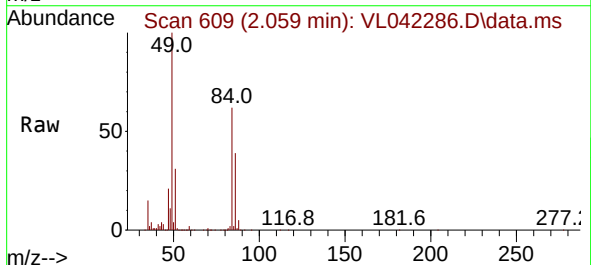
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

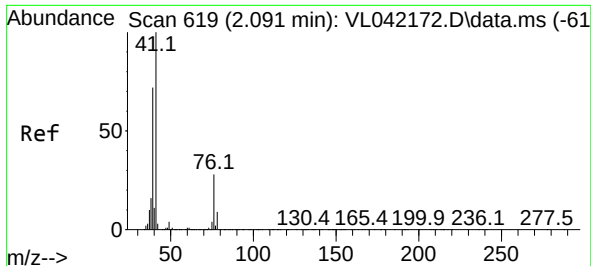
Tgt Ion: 45 Resp: 103348
Ion Ratio Lower Upper
45 100
58 50.7 36.9 55.3



#20
Methylene Chloride
Concen: 8.461 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 84 Resp: 68588
Ion Ratio Lower Upper
84 100
49 159.3 120.2 180.4
51 48.1 37.4 56.0
86 63.2 52.4 78.6

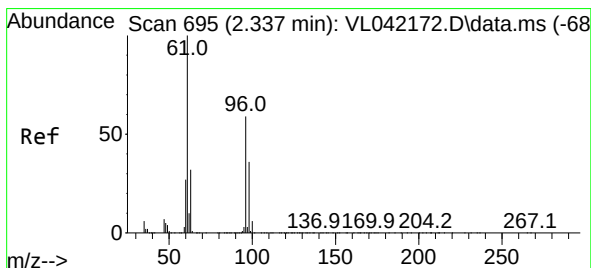
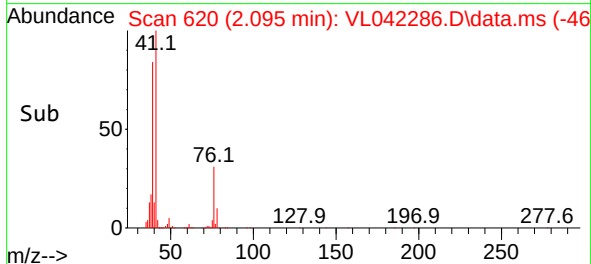
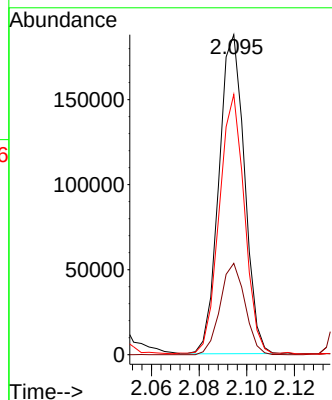
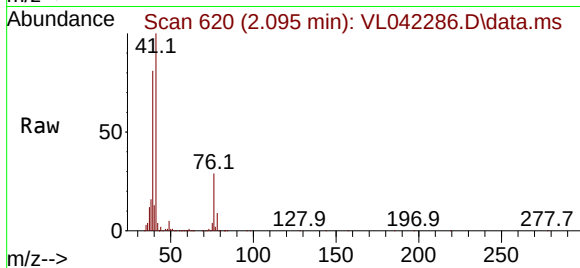




#21
 Allyl Chloride
 Concen: 9.118 ppbv
 RT: 2.095 min Scan# 619
 Delta R.T. 0.003 min
 Lab File: VL042286.D
 Acq: 09 Apr 2025 10:20

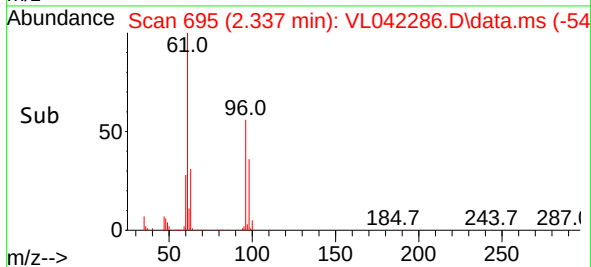
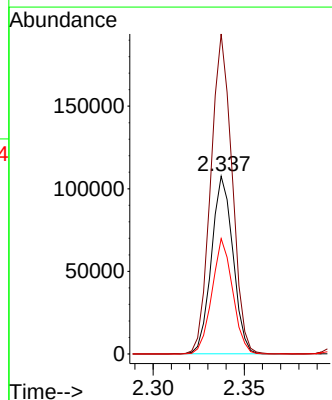
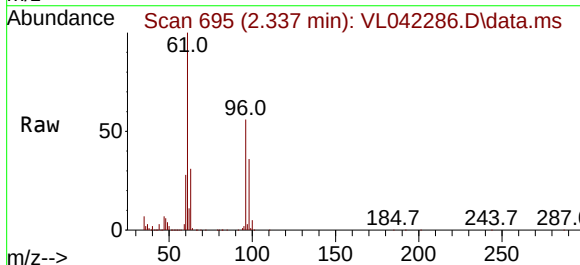
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDCCC010

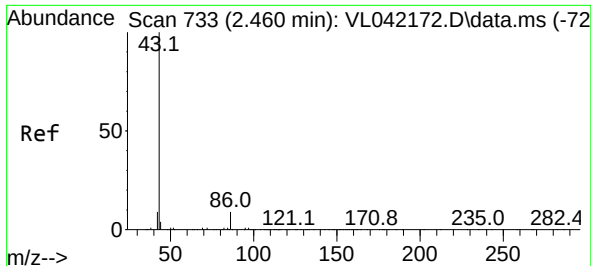
Tgt Ion: 41 Resp: 139965
 Ion Ratio Lower Upper
 41 100
 76 27.7 24.1 36.1
 39 79.7 61.1 91.7



#22
 trans-1,2-Dichloroethene
 Concen: 8.896 ppbv
 RT: 2.337 min Scan# 695
 Delta R.T. 0.000 min
 Lab File: VL042286.D
 Acq: 09 Apr 2025 10:20

Tgt Ion: 96 Resp: 88334
 Ion Ratio Lower Upper
 96 100
 61 180.1 136.6 204.8
 98 64.9 49.4 74.2

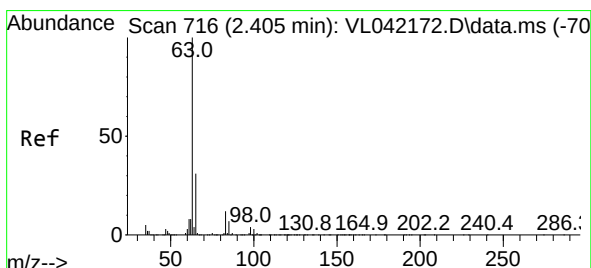
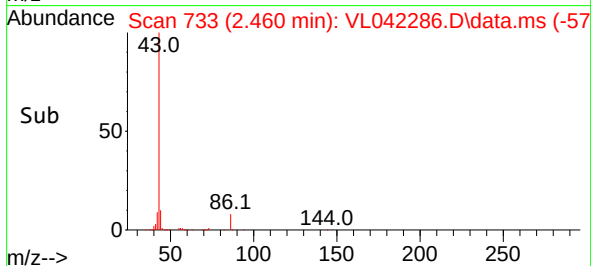
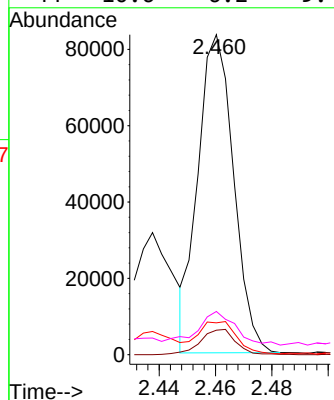
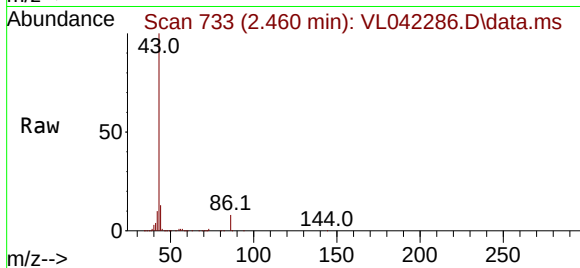




#23
 Vinyl Acetate
 Concen: 7.766 ppbv
 RT: 2.460 min Scan# 716
 Delta R.T. 0.000 min
 Lab File: VL042286.D
 Acq: 09 Apr 2025 10:20

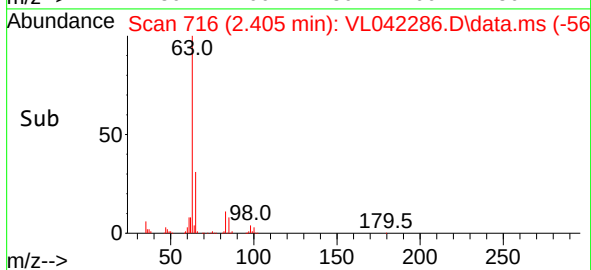
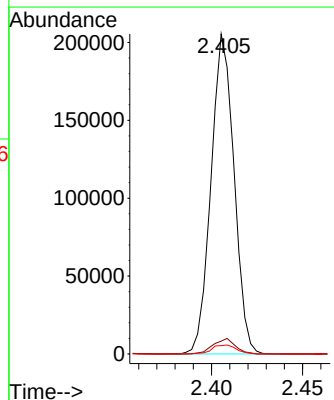
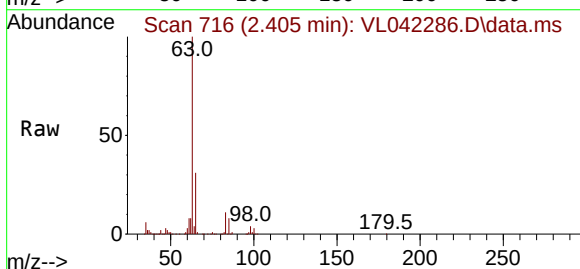
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDCCC010

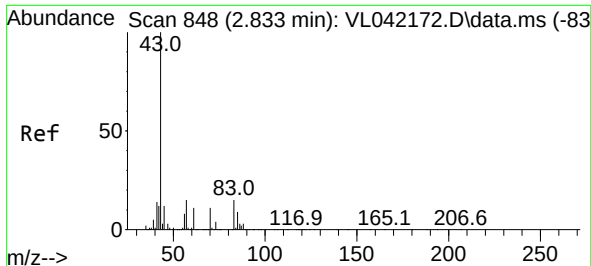
Tgt Ion:	43	Resp:	73162
Ion	Ratio	Lower	Upper
43	100		
86	7.6	5.5	8.3
42	9.7	8.6	13.0
44	10.6	6.2	9.4



#24
 1,1-Dichloroethane
 Concen: 9.801 ppbv
 RT: 2.405 min Scan# 716
 Delta R.T. 0.000 min
 Lab File: VL042286.D
 Acq: 09 Apr 2025 10:20

Tgt Ion:	63	Resp:	180404
Ion	Ratio	Lower	Upper
63	100		
98	4.0	2.3	6.8
100	2.6	1.6	4.7





#25

Ethyl Acetate

Concen: 10.039 ppbv

RT: 2.833 min Scan# 84

Delta R.T. 0.000 min

Lab File: VL042286.D

Acq: 09 Apr 2025 10:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 43 Resp: 567125

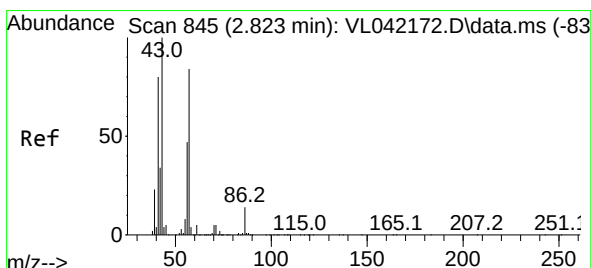
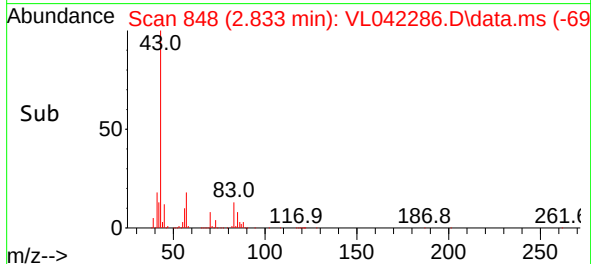
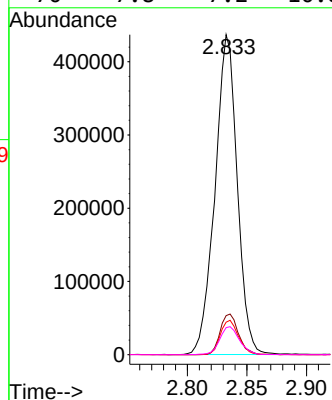
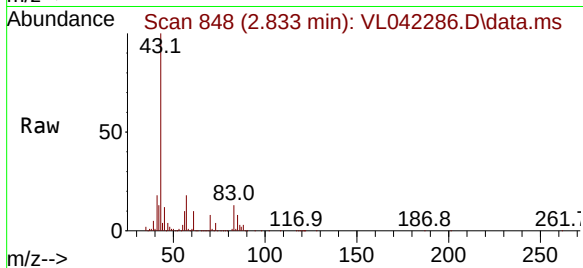
Ion Ratio Lower Upper

43 100

45 10.5 8.2 12.2

61 8.9 7.3 10.9

70 7.8 7.2 10.8



#26

Hexane

Concen: 9.848 ppbv

RT: 2.823 min Scan# 845

Delta R.T. 0.000 min

Lab File: VL042286.D

Acq: 09 Apr 2025 10:20

Tgt Ion: 57 Resp: 214891

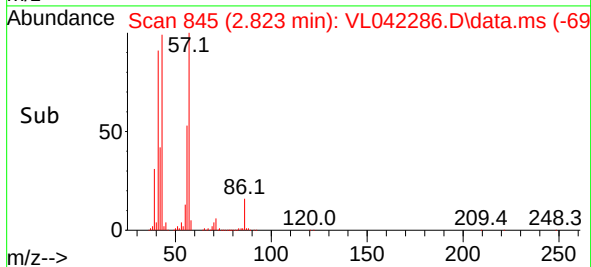
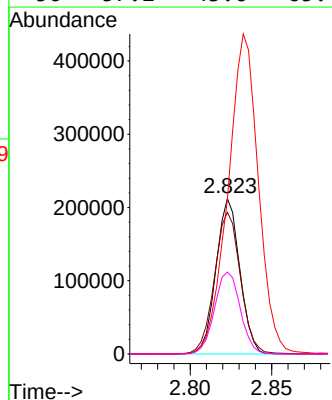
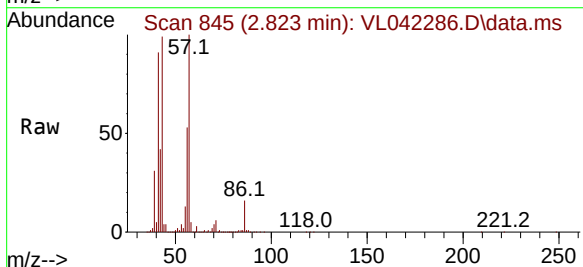
Ion Ratio Lower Upper

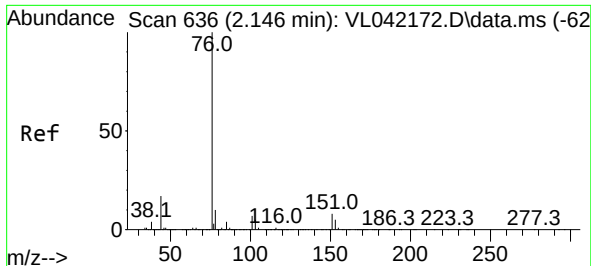
57 100

41 99.1 76.6 114.8

43 264.9 207.8 311.8

56 57.2 43.6 65.4

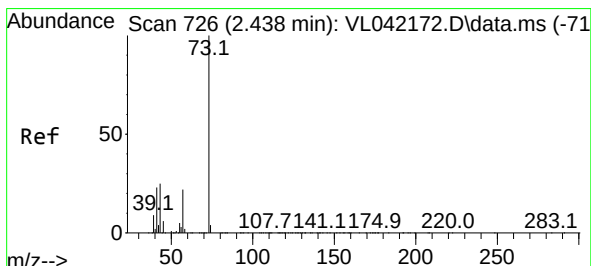
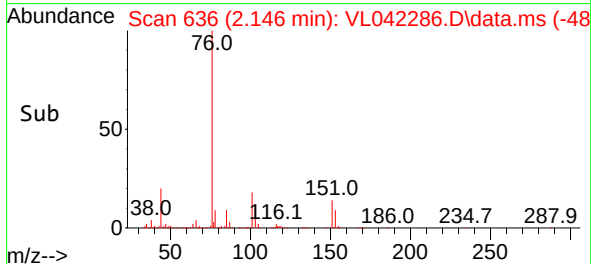
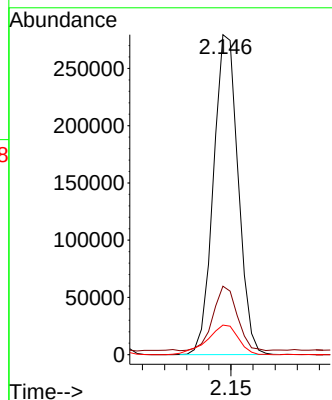
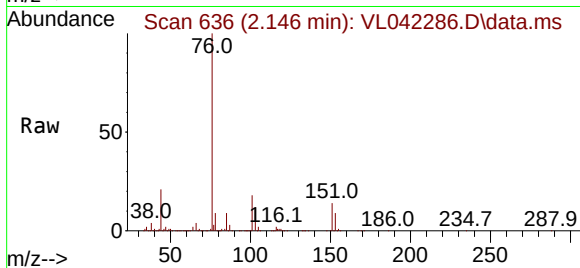




#27
Carbon Disulfide
Concen: 9.253 ppbv
RT: 2.146 min Scan# 611
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

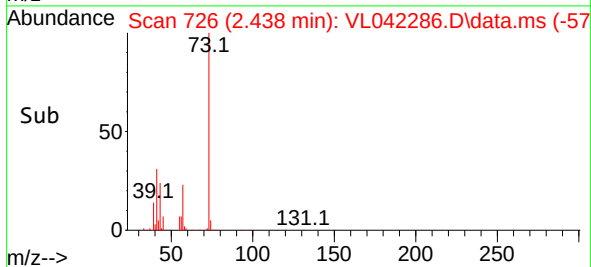
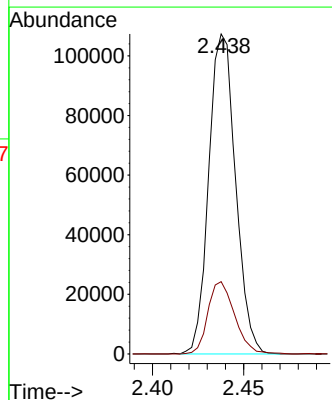
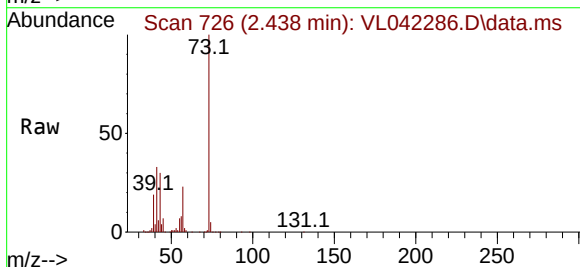
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

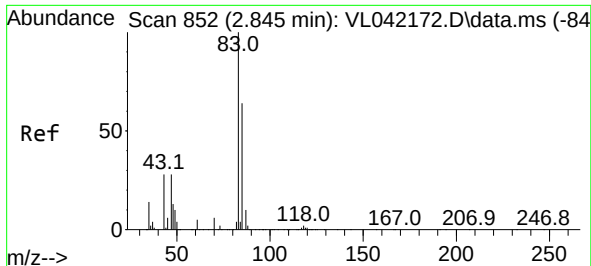
Tgt Ion: 76 Resp: 216499
Ion Ratio Lower Upper
76 100
44 20.6 14.7 22.1
78 11.8 9.3 13.9



#28
Methyl tert-Butyl Ether
Concen: 8.077 ppbv
RT: 2.438 min Scan# 726
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 73 Resp: 109726
Ion Ratio Lower Upper
73 100
57 22.6 20.5 30.7





#29

Chloroform

Concen: 10.675 ppbv

RT: 2.845 min Scan# 81

Delta R.T. 0.000 min

Lab File: VL042286.D

Acq: 09 Apr 2025 10:20

Instrument :

MSVOA_1

ClientSampleId :

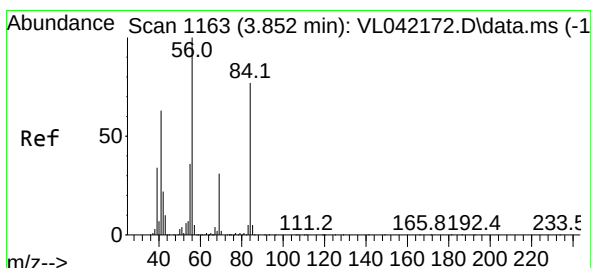
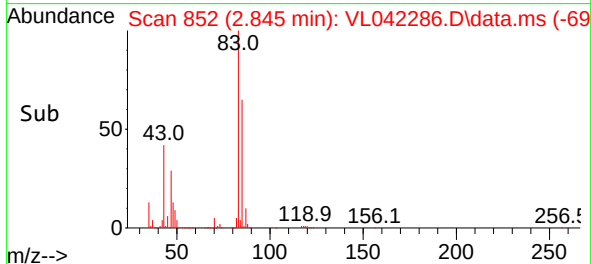
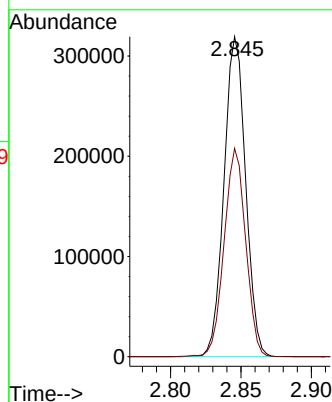
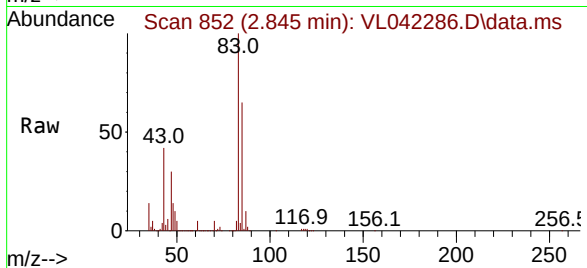
VSTDCCC010

Tgt Ion: 83 Resp: 340889

Ion Ratio Lower Upper

83 100

85 65.0 51.4 77.2



#30

Cyclohexane

Concen: 8.991 ppbv

RT: 3.852 min Scan# 1163

Delta R.T. 0.000 min

Lab File: VL042286.D

Acq: 09 Apr 2025 10:20

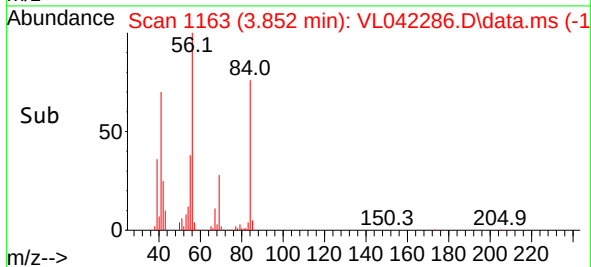
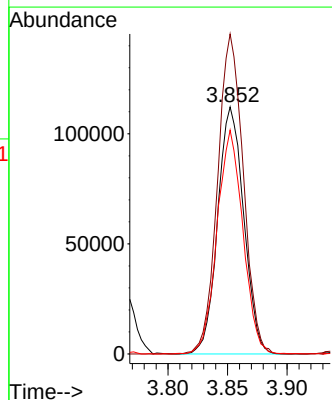
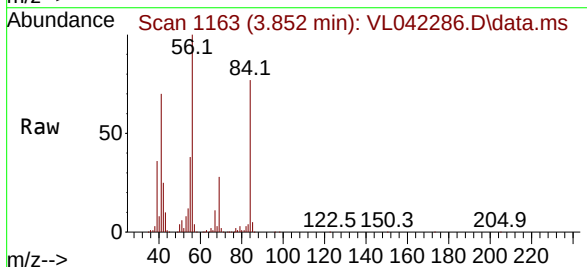
Tgt Ion: 84 Resp: 170359

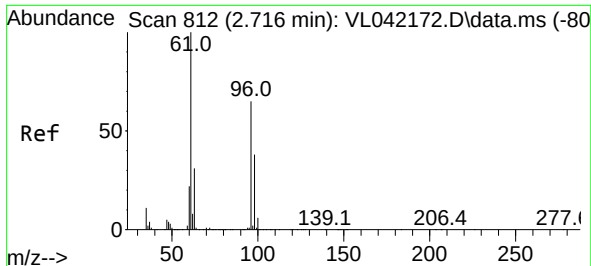
Ion Ratio Lower Upper

84 100

56 127.8 102.8 154.2

41 90.1 66.5 99.7

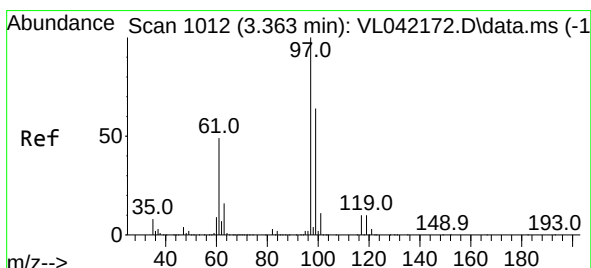
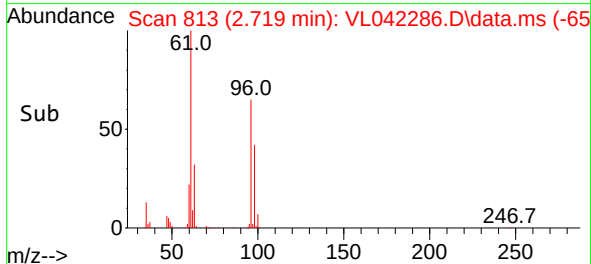
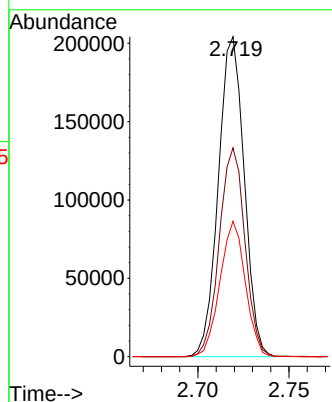
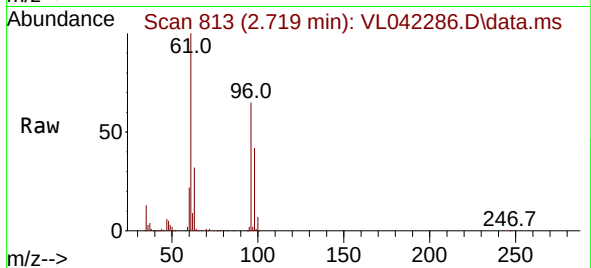




#31
cis-1,2-Dichloroethene
Concen: 9.110 ppbv
RT: 2.719 min Scan# 812
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

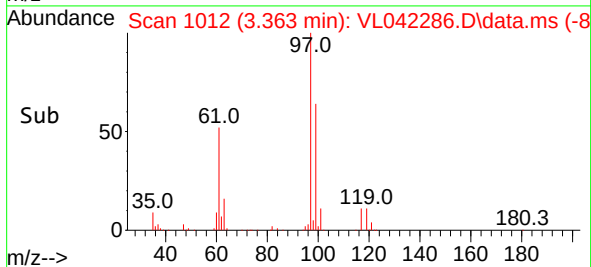
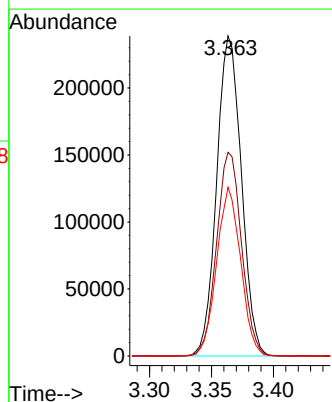
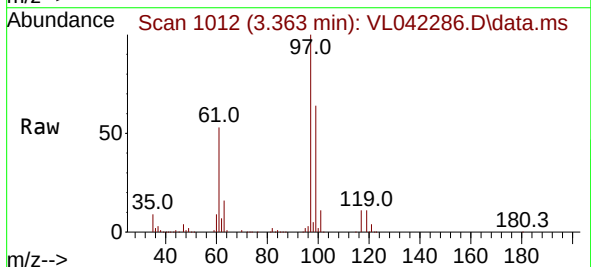
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

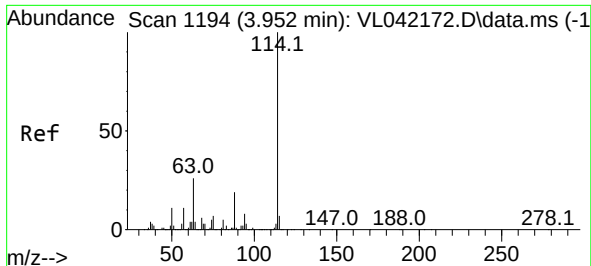
Tgt Ion: 61 Resp: 201796
Ion Ratio Lower Upper
61 100
96 65.3 51.8 77.8
98 42.3 30.6 46.0



#32
1,1,1-Trichloroethane
Concen: 9.088 ppbv
RT: 3.363 min Scan# 1012
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 97 Resp: 332252
Ion Ratio Lower Upper
97 100
99 64.1 51.5 77.3
61 51.3 38.7 58.1

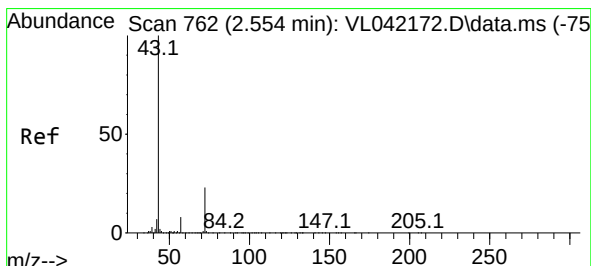
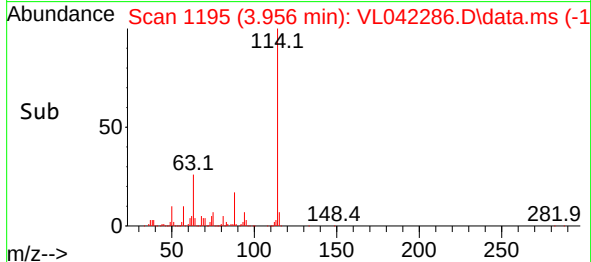
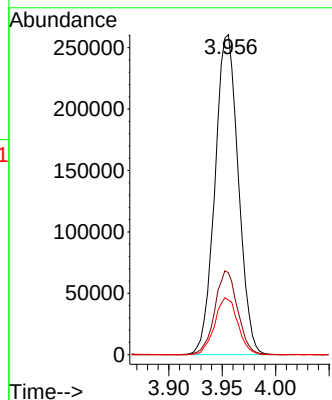
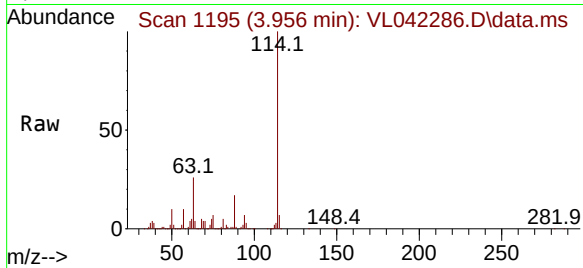




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.956 min Scan# 1195
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

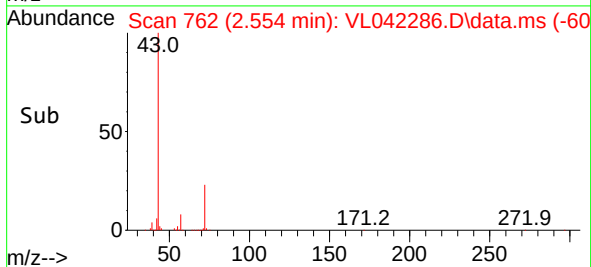
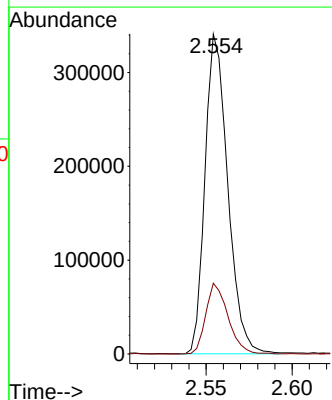
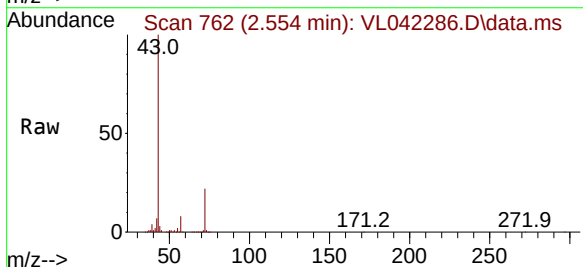
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

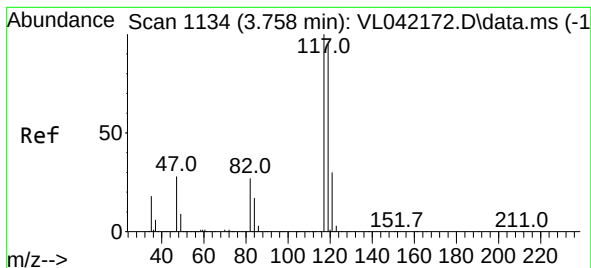
Tgt Ion:114 Resp: 397176
Ion Ratio Lower Upper
114 100
63 25.6 20.7 31.1
88 17.6 15.0 22.4



#34
2-Butanone
Concen: 10.886 ppbv
RT: 2.554 min Scan# 762
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 43 Resp: 313515
Ion Ratio Lower Upper
43 100
72 21.7 18.2 27.2





#35

Carbon Tetrachloride

Concen: 11.256 ppbv

RT: 3.758 min Scan# 1134

Delta R.T. 0.000 min

Lab File: VL042286.D

Acq: 09 Apr 2025 10:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

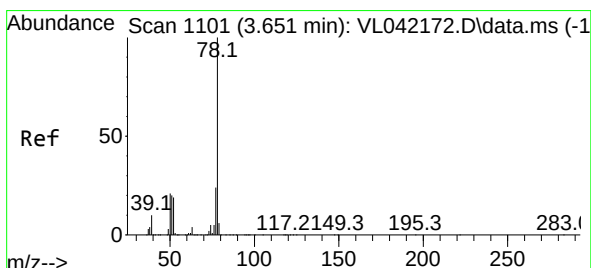
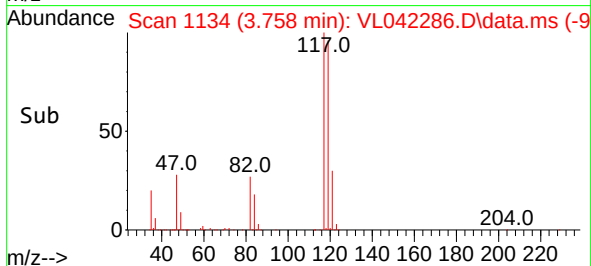
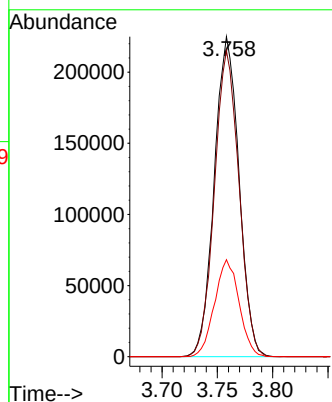
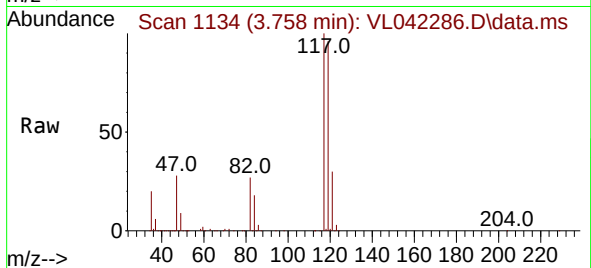
Tgt Ion:117 Resp: 349240

Ion Ratio Lower Upper

117 100

119 95.6 76.2 114.2

121 30.3 24.2 36.4



#36

Benzene

Concen: 10.802 ppbv

RT: 3.651 min Scan# 1101

Delta R.T. 0.000 min

Lab File: VL042286.D

Acq: 09 Apr 2025 10:20

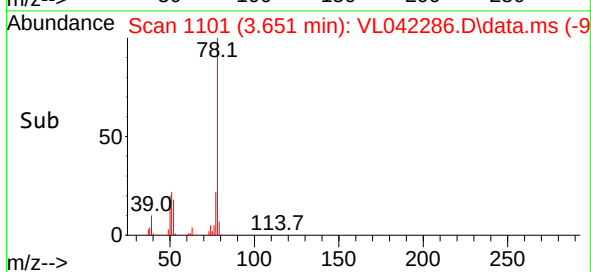
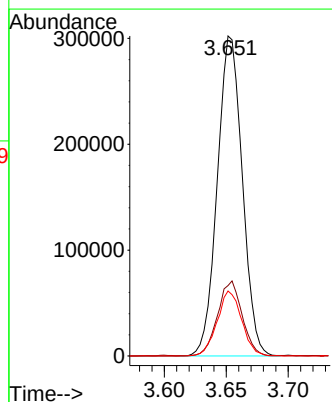
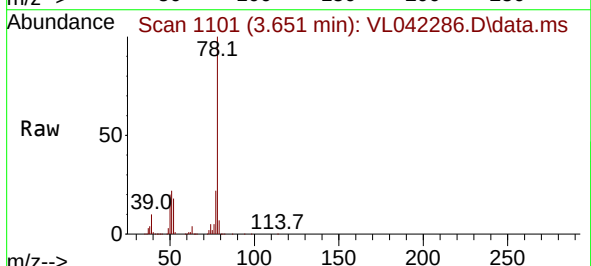
Tgt Ion: 78 Resp: 425324

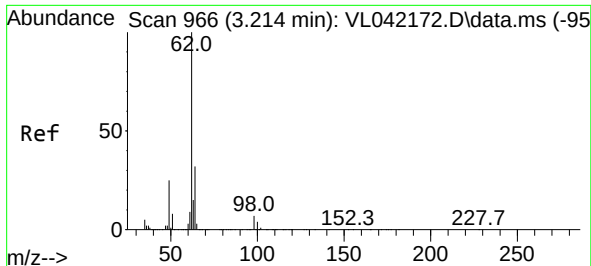
Ion Ratio Lower Upper

78 100

77 21.9 19.1 28.7

50 20.3 16.6 24.8





#37

1,2-Dichloroethane

Concen: 11.391 ppbv

RT: 3.214 min Scan# 9

Delta R.T. 0.000 min

Lab File: VL042286.D

Acq: 09 Apr 2025 10:20

Instrument :

MSVOA_1

ClientSampleId :

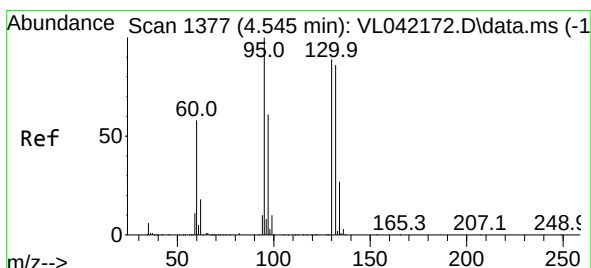
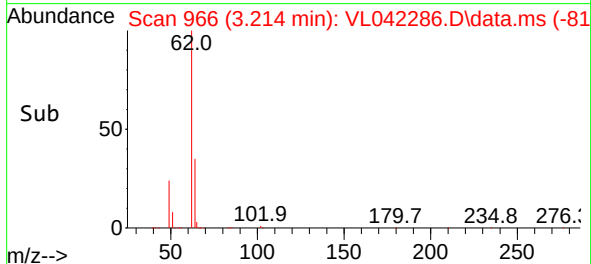
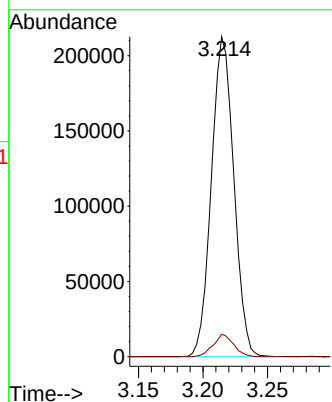
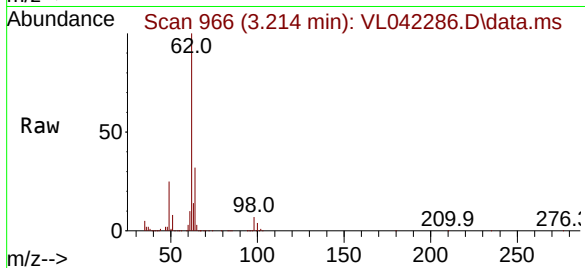
VSTDCCC010

Tgt Ion: 62 Resp: 256791

Ion Ratio Lower Upper

62 100

98 6.3 5.4 8.2



#38

Trichloroethene

Concen: 10.370 ppbv

RT: 4.541 min Scan# 1376

Delta R.T. -0.003 min

Lab File: VL042286.D

Acq: 09 Apr 2025 10:20

Tgt Ion:130 Resp: 170362

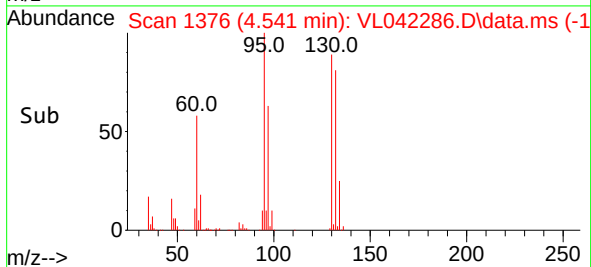
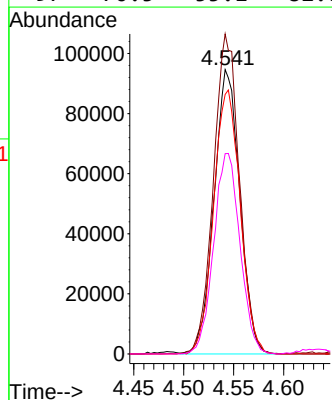
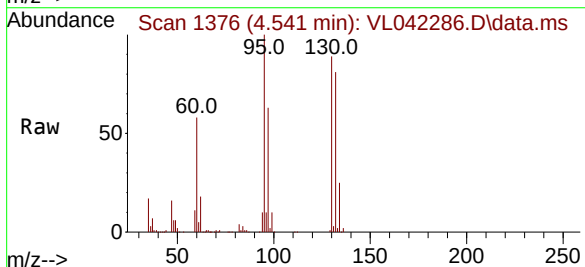
Ion Ratio Lower Upper

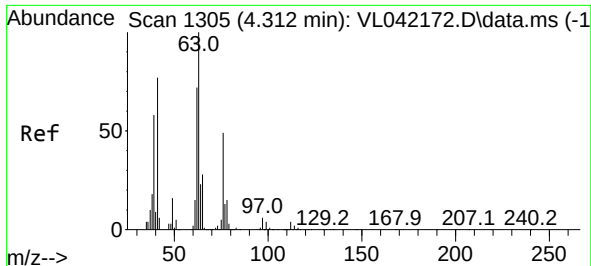
130 100

95 112.5 89.8 134.8

132 91.3 77.4 116.2

97 70.5 55.1 82.7





#39

1,2-Dichloropropane

Concen: 10.710 ppbv

RT: 4.312 min Scan# 11

Delta R.T. 0.000 min

Lab File: VL042286.D

Acq: 09 Apr 2025 10:20

Instrument :

MSVOA_1

ClientSampleId :

VSTDCCC010

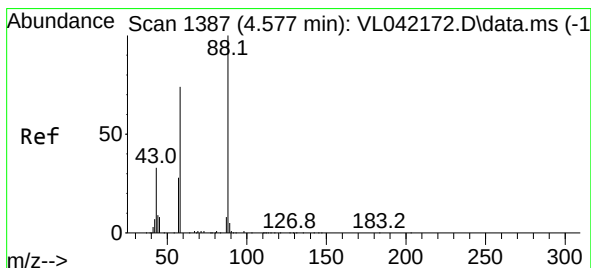
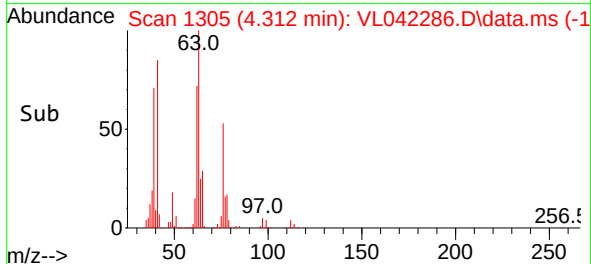
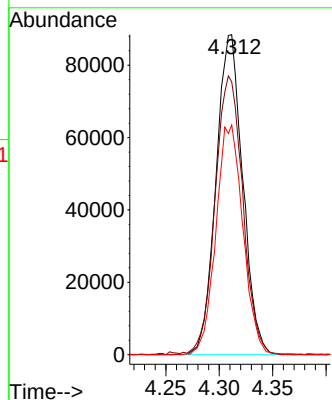
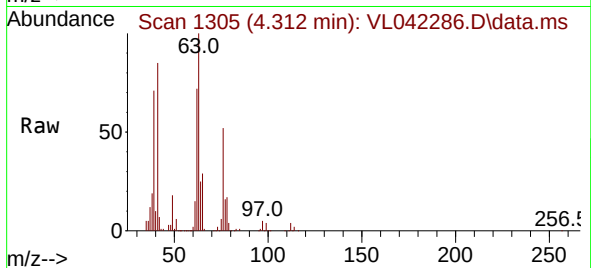
Tgt Ion: 63 Resp: 153583

Ion Ratio Lower Upper

63 100

41 85.0 61.7 92.5

62 71.8 57.6 86.4



#40

1,4-Dioxane

Concen: 9.539 ppbv

RT: 4.577 min Scan# 1387

Delta R.T. 0.000 min

Lab File: VL042286.D

Acq: 09 Apr 2025 10:20

Tgt Ion: 88 Resp: 72604

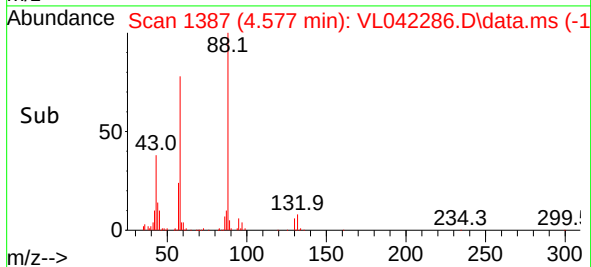
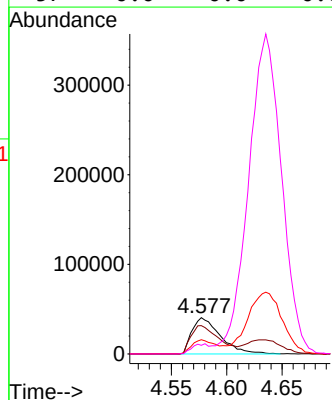
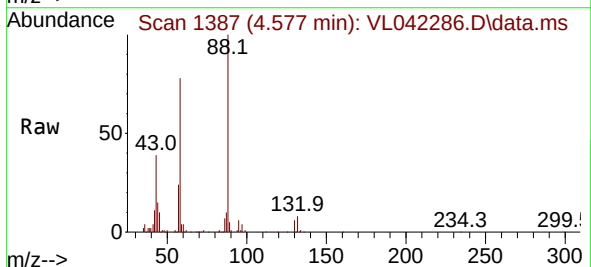
Ion Ratio Lower Upper

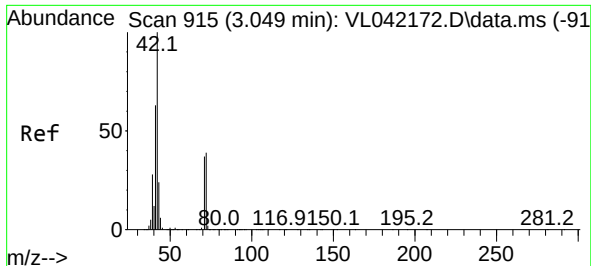
88 100

58 75.1 62.7 94.1

43 33.8 23.0 34.4

57 0.0 0.0 0.0

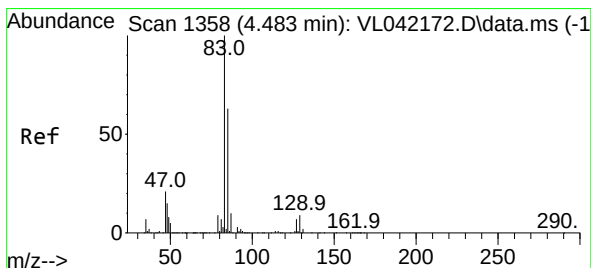
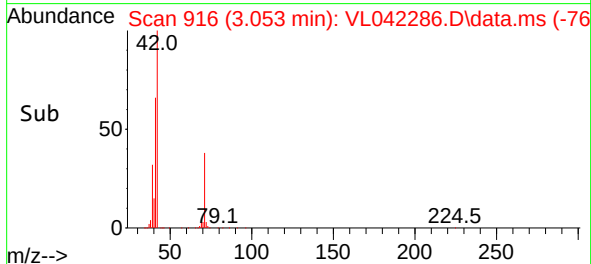
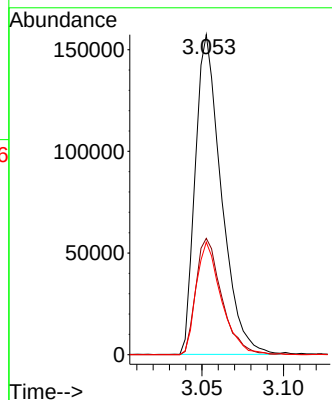
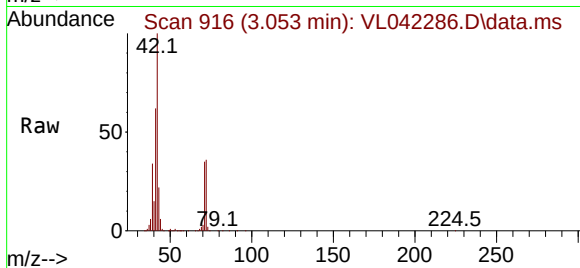




#41
Tetrahydrofuran
Concen: 10.556 ppbv
RT: 3.053 min Scan# 915
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

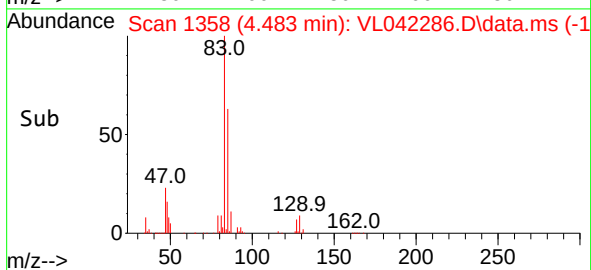
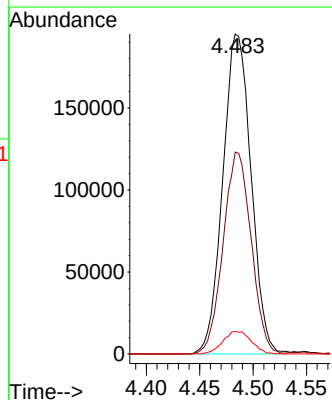
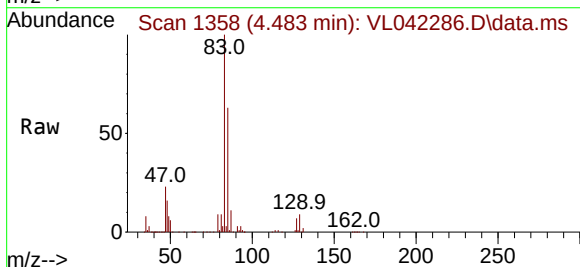
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

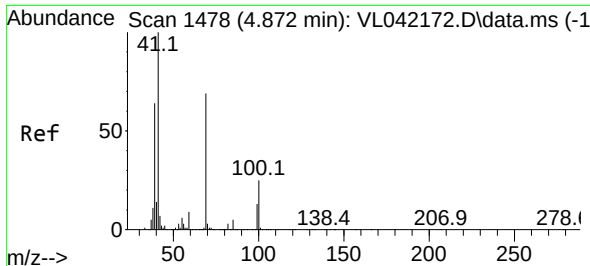
Tgt Ion: 42 Resp: 175060
Ion Ratio Lower Upper
42 100
72 36.2 31.4 47.0
71 34.2 30.2 45.4



#42
Bromodichloromethane
Concen: 11.551 ppbv
RT: 4.483 min Scan# 1358
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 83 Resp: 358962
Ion Ratio Lower Upper
83 100
85 63.1 50.5 75.7
127 7.1 5.9 8.9

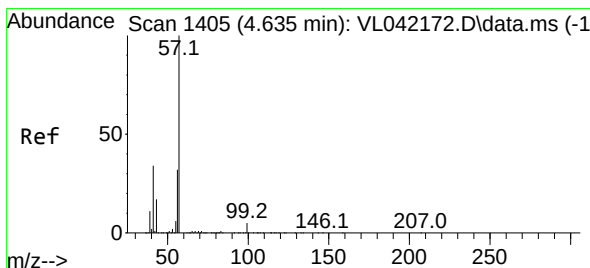
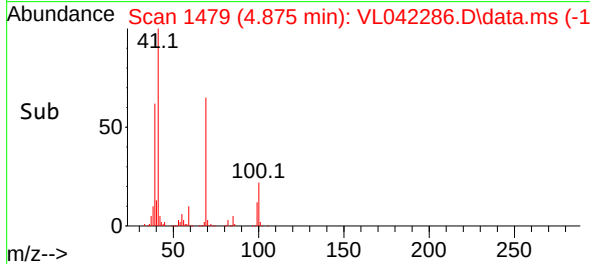
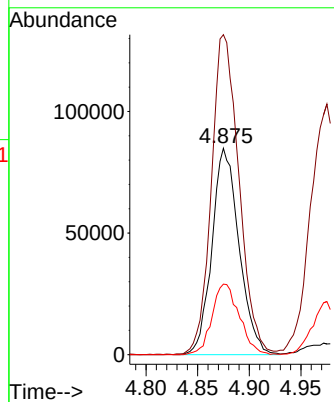
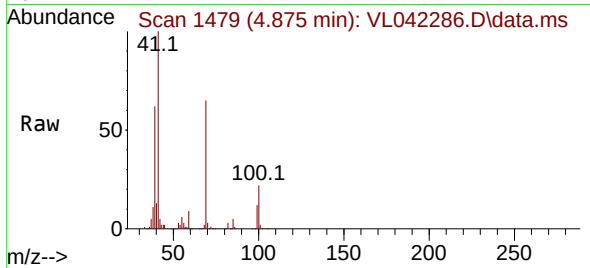




#43
Methyl Methacrylate
Concen: 9.297 ppbv
RT: 4.875 min Scan# 1478
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

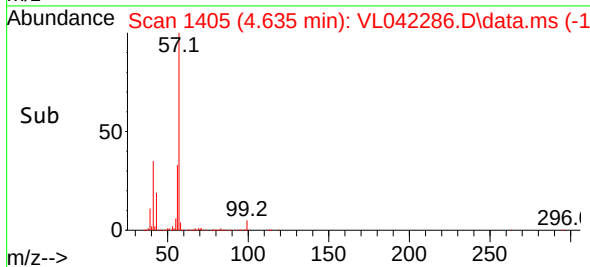
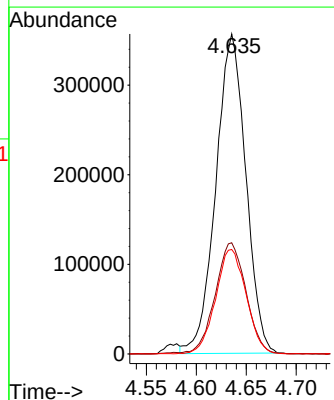
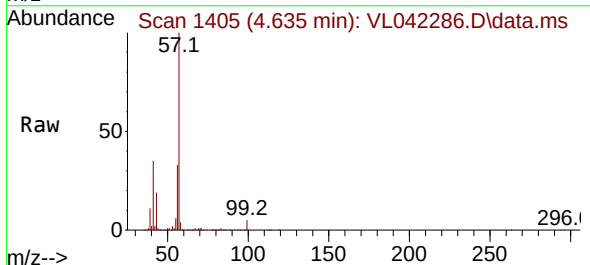
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

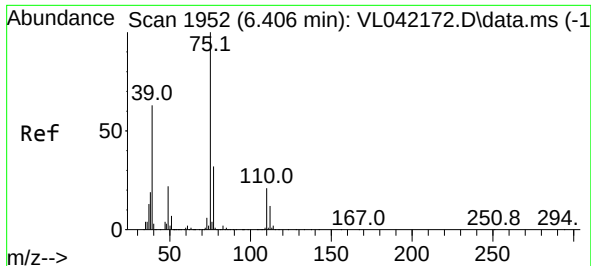
Tgt Ion: 69 Resp: 154975
Ion Ratio Lower Upper
69 100
41 158.4 123.8 185.6
100 34.5 28.4 42.6



#44
2,2,4-Trimethylpentane
Concen: 11.157 ppbv
RT: 4.635 min Scan# 1405
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 57 Resp: 742388
Ion Ratio Lower Upper
57 100
41 36.2 26.8 40.2
56 33.5 25.6 38.4





#45

t-1,3-Dichloropropene

Concen: 8.231 ppbv

RT: 6.412 min Scan# 1954

Delta R.T. 0.006 min

Lab File: VL042286.D

Acq: 09 Apr 2025 10:20

Instrument :

MSVOA_1

ClientSampleId :

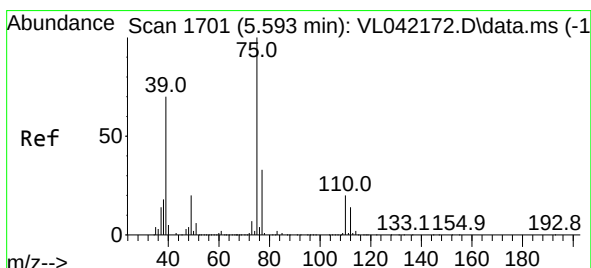
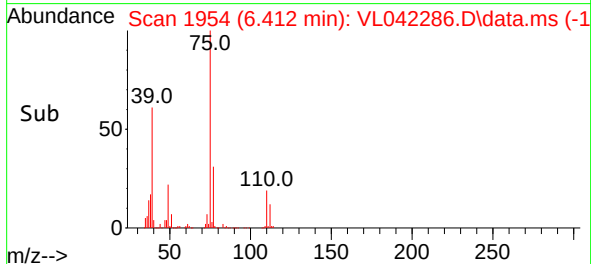
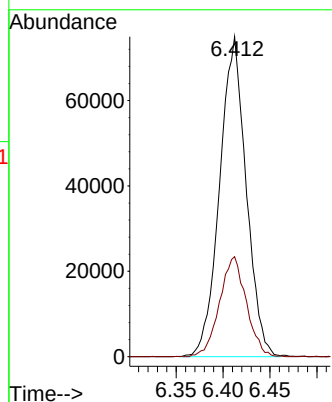
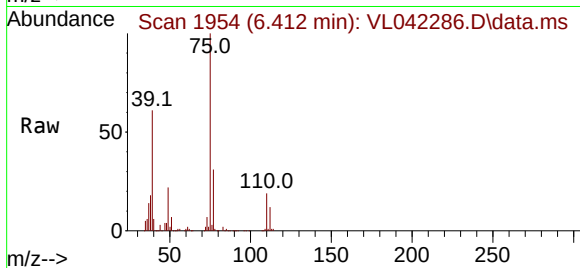
VSTDCCC010

Tgt Ion: 75 Resp: 147204

Ion Ratio Lower Upper

75 100

77 31.2 26.0 39.0



#46

cis-1,3-Dichloropropene

Concen: 8.932 ppbv

RT: 5.593 min Scan# 1701

Delta R.T. 0.000 min

Lab File: VL042286.D

Acq: 09 Apr 2025 10:20

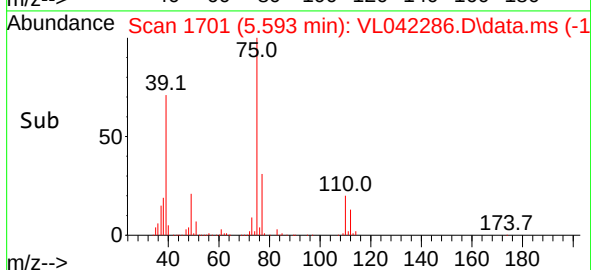
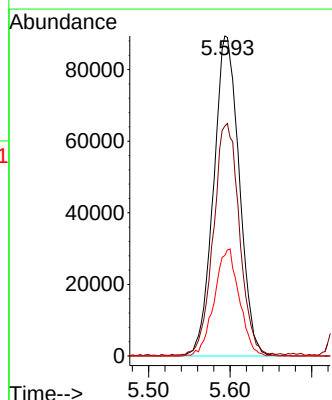
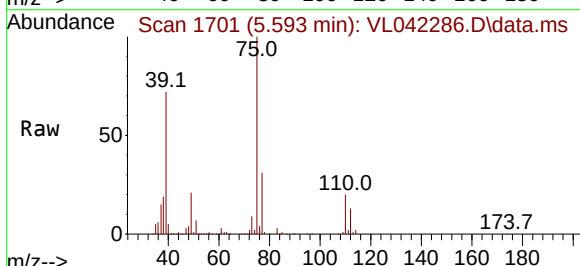
Tgt Ion: 75 Resp: 195802

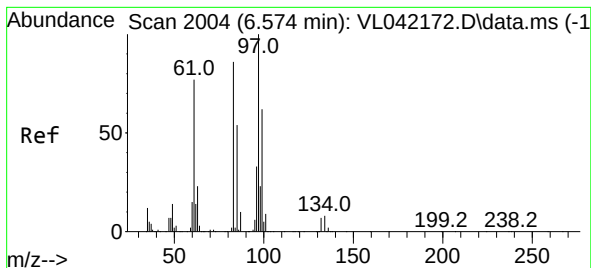
Ion Ratio Lower Upper

75 100

39 71.5 55.8 83.6

77 31.4 26.0 39.0





#47

1,1,2-Trichloroethane

Concen: 11.369 ppbv

RT: 6.574 min Scan# 2004

Delta R.T. 0.000 min

Lab File: VL042286.D

Acq: 09 Apr 2025 10:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 97 Resp: 172343

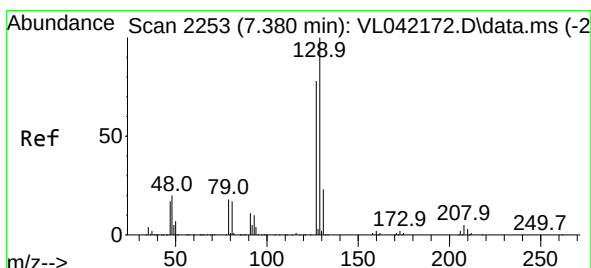
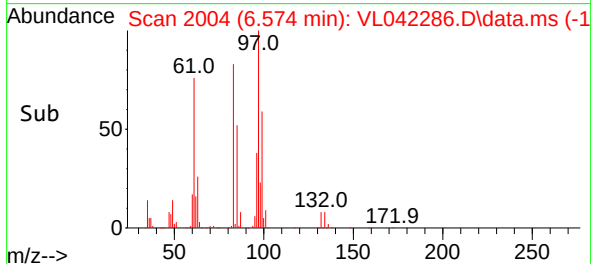
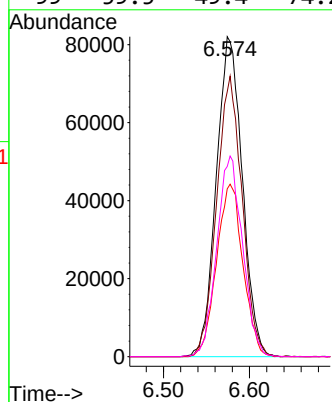
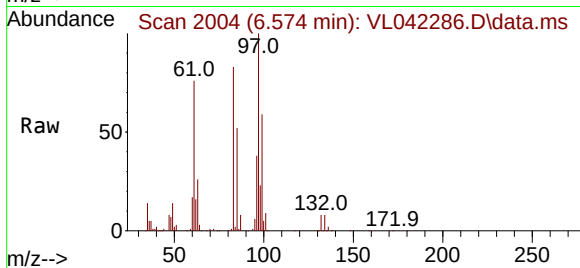
Ion Ratio Lower Upper

97 100

83 82.8 69.2 103.8

85 52.5 43.1 64.7

99 59.5 49.4 74.2



#48

Dibromochloromethane

Concen: 10.907 ppbv

RT: 7.380 min Scan# 2253

Delta R.T. 0.000 min

Lab File: VL042286.D

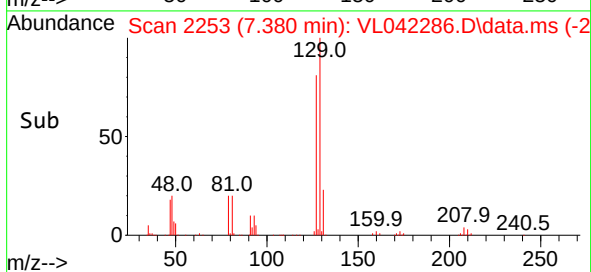
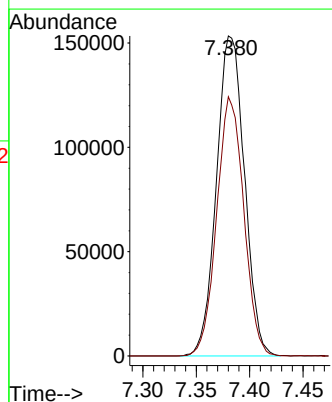
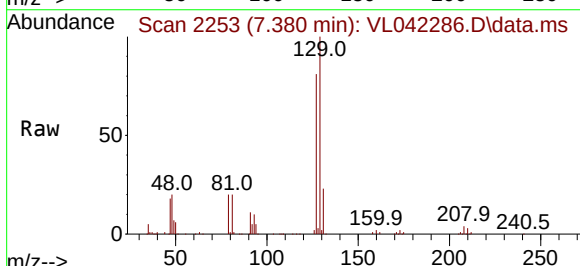
Acq: 09 Apr 2025 10:20

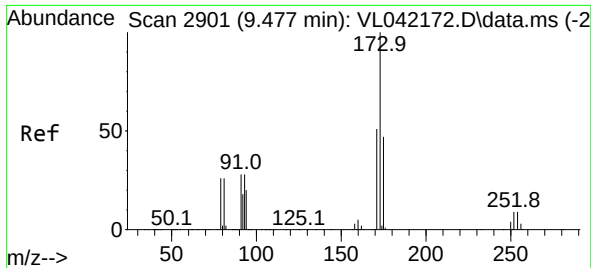
Tgt Ion: 129 Resp: 280199

Ion Ratio Lower Upper

129 100

127 78.2 39.1 117.2

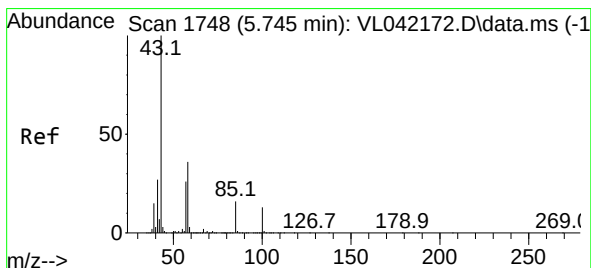
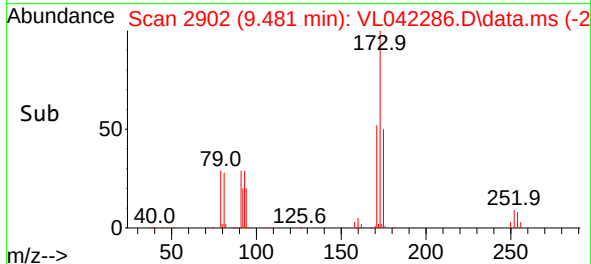
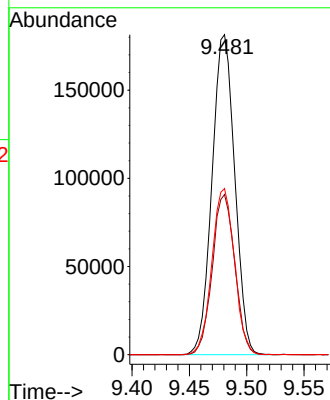
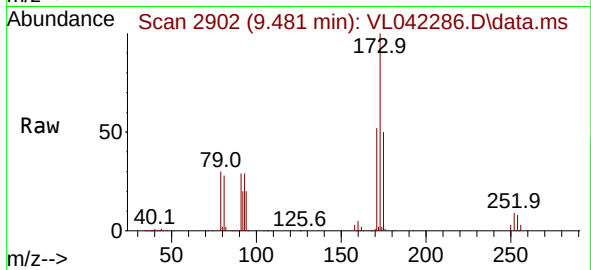




#49
Bromoform
Concen: 10.849 ppbv
RT: 9.481 min Scan# 2901
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

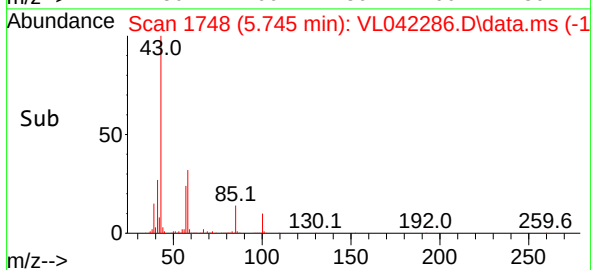
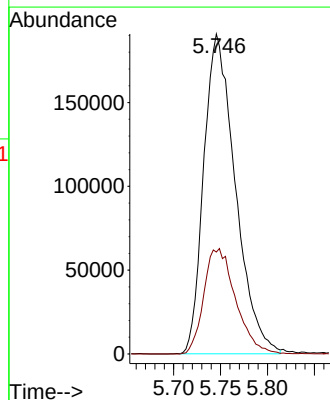
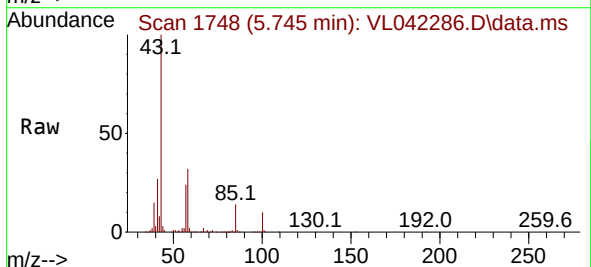
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

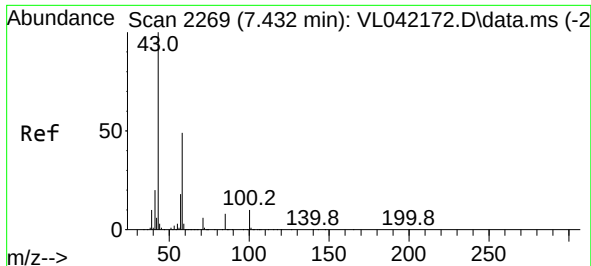
Tgt Ion:173 Resp: 250227
Ion Ratio Lower Upper
173 100
175 49.5 38.6 57.8
171 51.5 41.8 62.6



#50
4-Methyl-2-Pentanone
Concen: 9.760 ppbv
RT: 5.745 min Scan# 1748
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 43 Resp: 445454
Ion Ratio Lower Upper
43 100
58 33.4 29.0 43.6

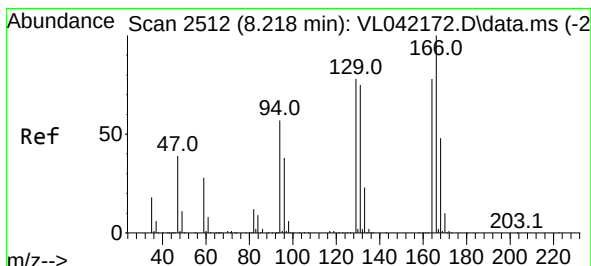
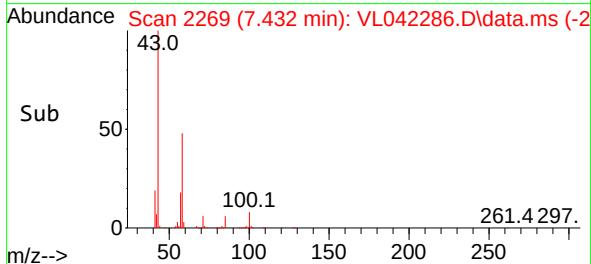
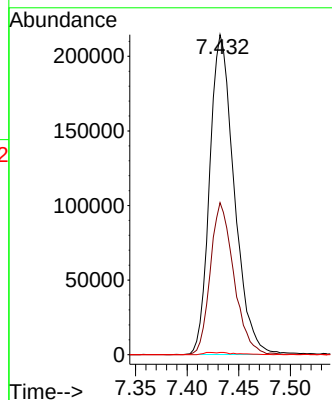
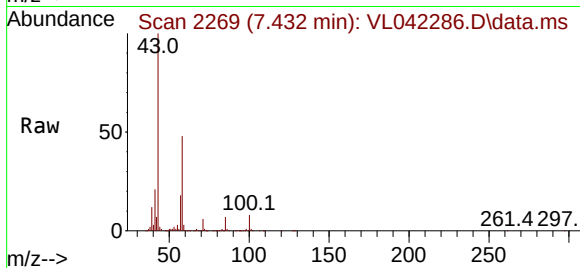




#51
2-Hexanone
Concen: 9.437 ppbv
RT: 7.432 min Scan# 2133
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

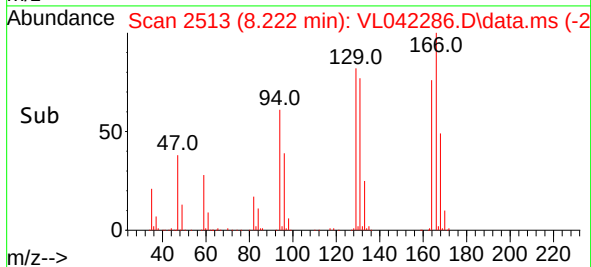
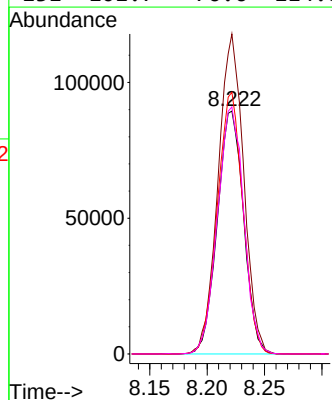
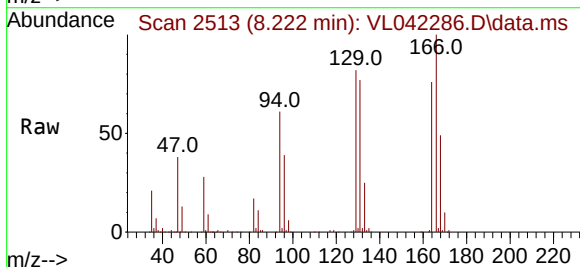
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

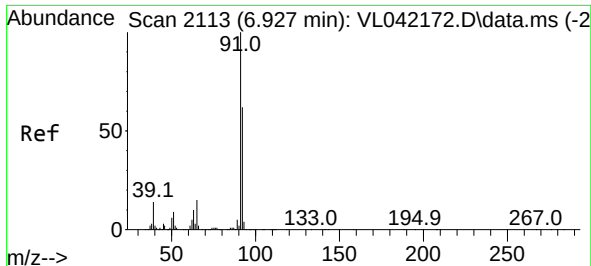
Tgt Ion: 43 Resp: 353706
Ion Ratio Lower Upper
43 100
58 45.8 39.7 59.5
98 0.9 0.1 0.1#



#52
Tetrachloroethene
Concen: 9.092 ppbv
RT: 8.222 min Scan# 2513
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 164 Resp: 141976
Ion Ratio Lower Upper
164 100
166 131.7 102.5 153.7
129 107.7 79.8 119.8
131 101.7 76.6 114.8

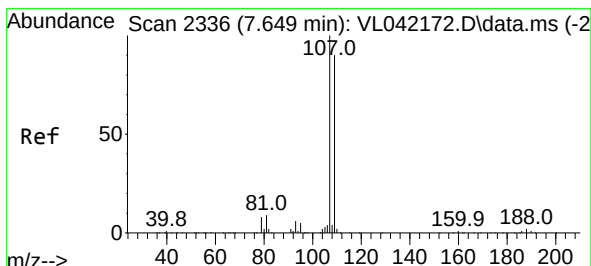
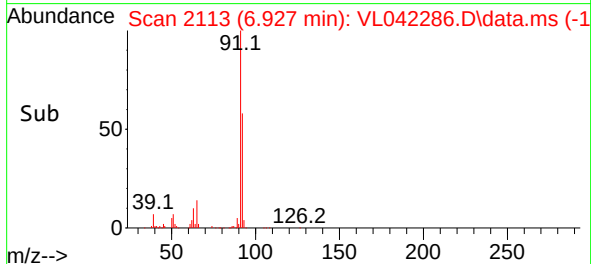
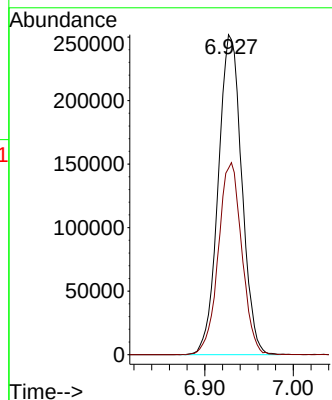
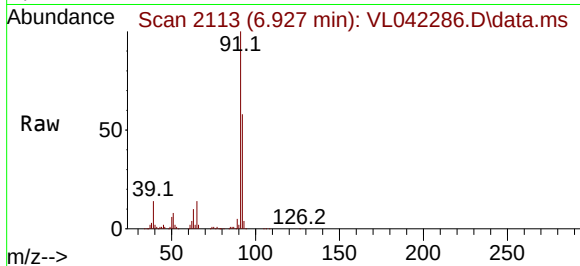




#53
Toluene
Concen: 9.961 ppbv
RT: 6.927 min Scan# 2113
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

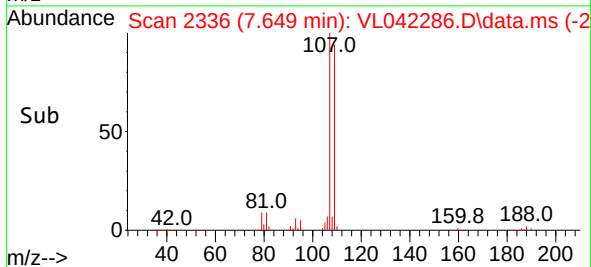
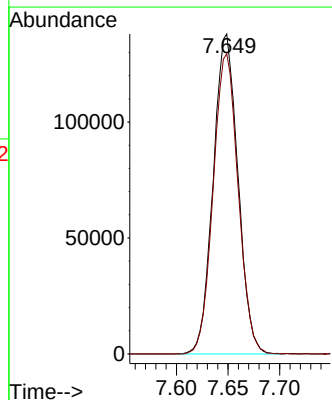
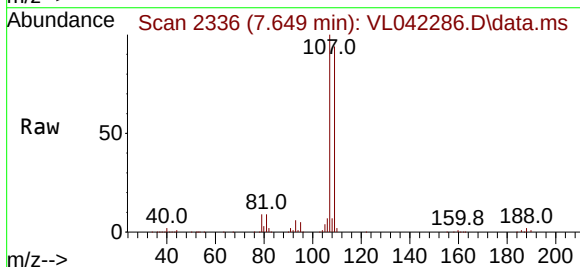
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

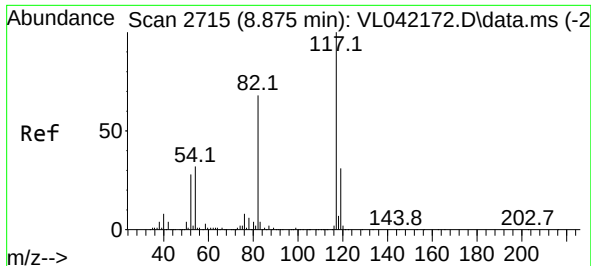
Tgt Ion: 91 Resp: 464948
Ion Ratio Lower Upper
91 100
92 60.0 48.4 72.6



#54
1,2-Dibromoethane
Concen: 10.871 ppbv
RT: 7.649 min Scan# 2336
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 107 Resp: 229720
Ion Ratio Lower Upper
107 100
109 93.8 72.2 108.4

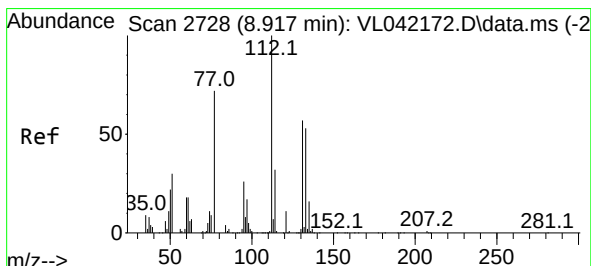
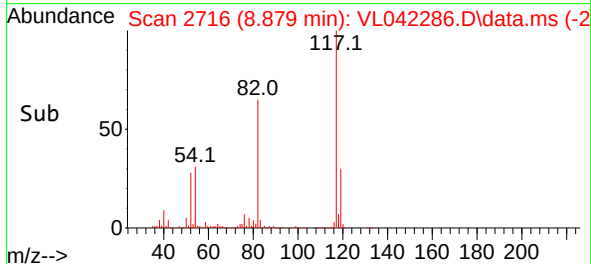
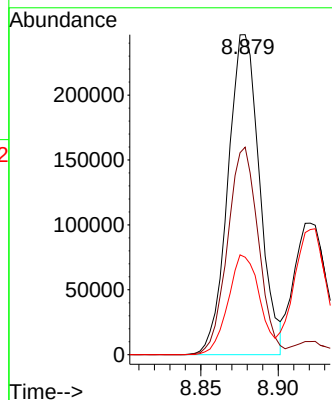
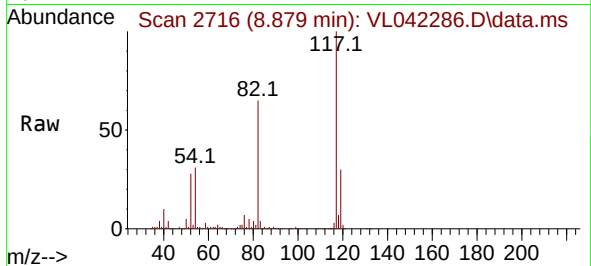




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.879 min Scan# 2715
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

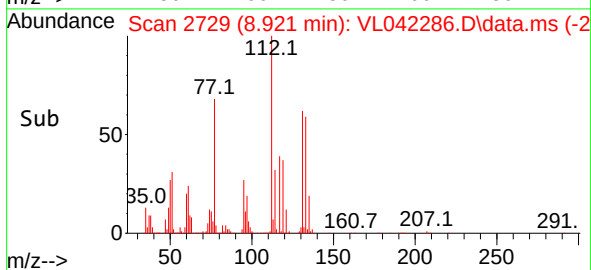
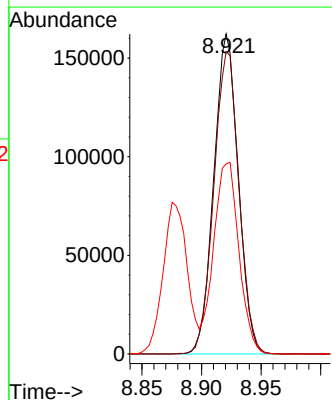
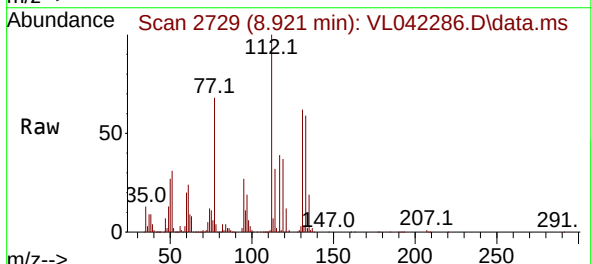
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

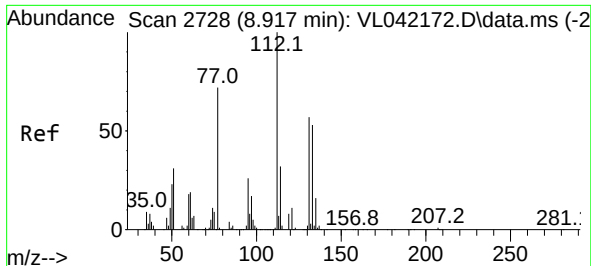
Tgt Ion:117 Resp: 350140
Ion Ratio Lower Upper
117 100
82 67.4 55.8 83.6
119 31.2 25.5 38.3



#56
1,1,1,2-Tetrachloroethane
Concen: 11.987 ppbv
RT: 8.921 min Scan# 2729
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion:131 Resp: 231041
Ion Ratio Lower Upper
131 100
133 97.4 76.6 114.8
119 63.2 49.8 74.6

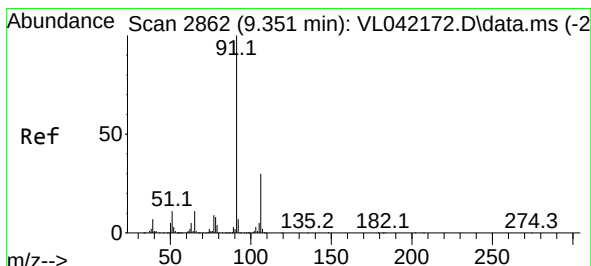
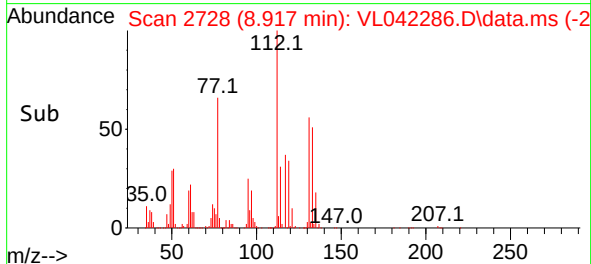
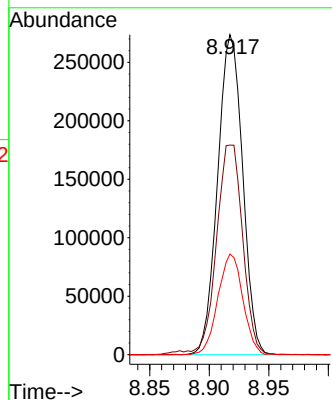
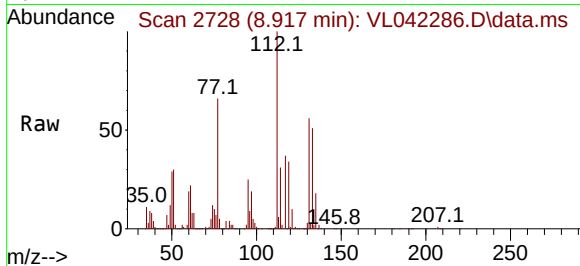




#57
Chlorobenzene
Concen: 12.021 ppbv
RT: 8.917 min Scan# 211
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

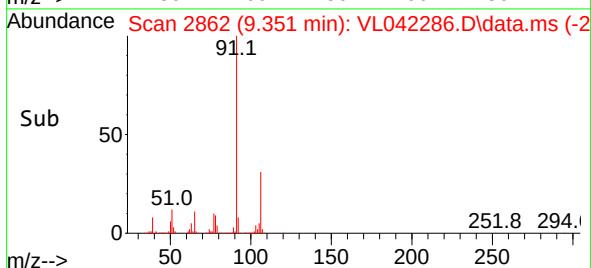
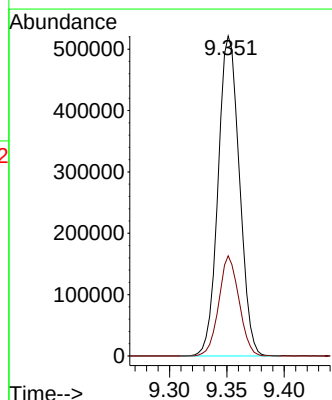
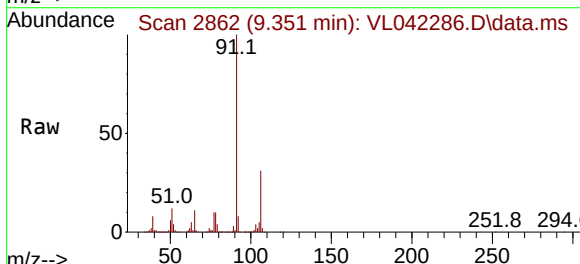
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

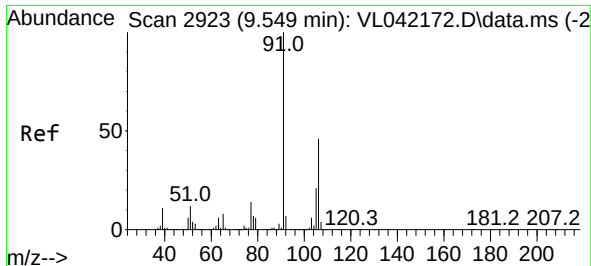
Tgt Ion:112 Resp: 399227
Ion Ratio Lower Upper
112 100
77 65.3 58.2 87.2
114 31.4 29.1 35.5



#58
Ethyl Benzene
Concen: 10.834 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 91 Resp: 673801
Ion Ratio Lower Upper
91 100
106 31.3 24.2 36.2

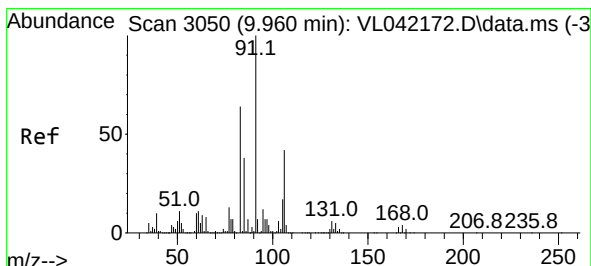
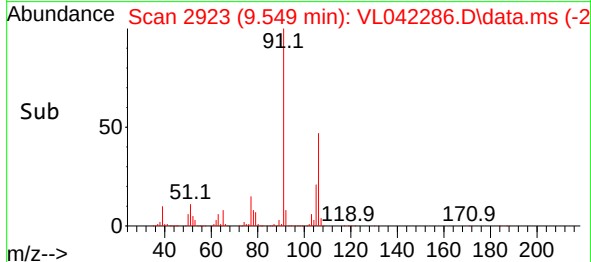
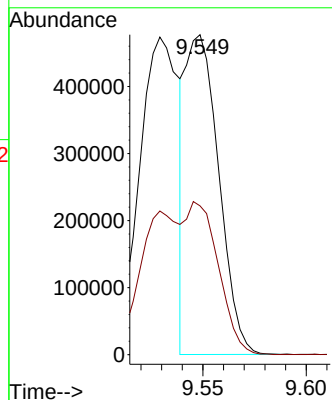
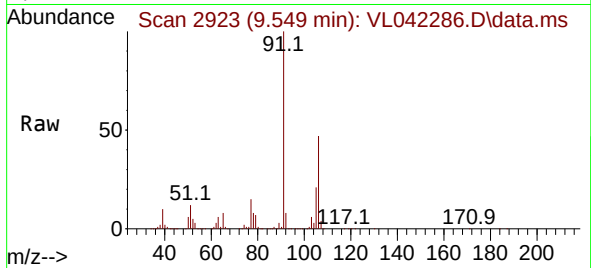




#59
m/p-Xylene
Concen: 10.667 ppbv
RT: 9.549 min Scan# 2923
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

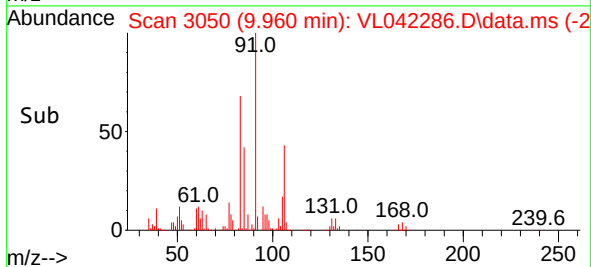
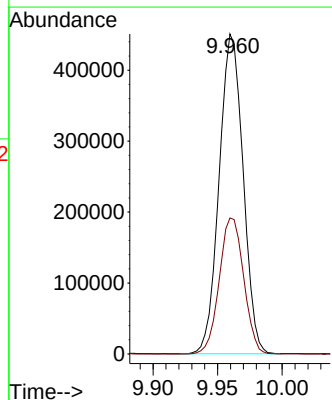
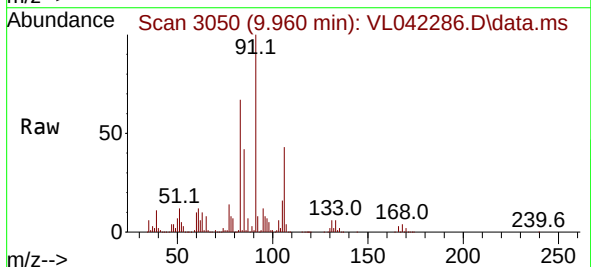
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

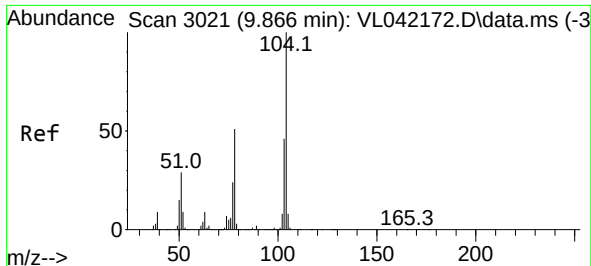
Tgt Ion: 91 Resp: 529747
Ion Ratio Lower Upper
91 100
106 101.9 36.4 54.6#



#60
o-Xylene
Concen: 11.671 ppbv
RT: 9.960 min Scan# 3050
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 91 Resp: 581045
Ion Ratio Lower Upper
91 100
106 43.4 20.8 62.5

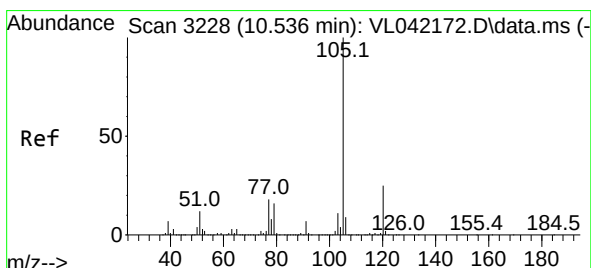
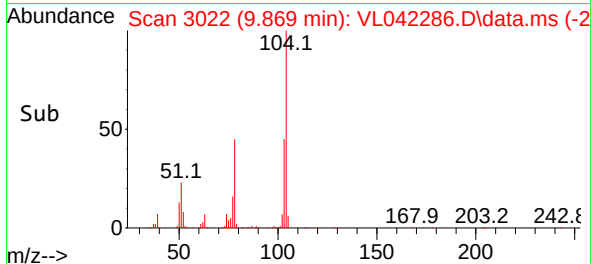
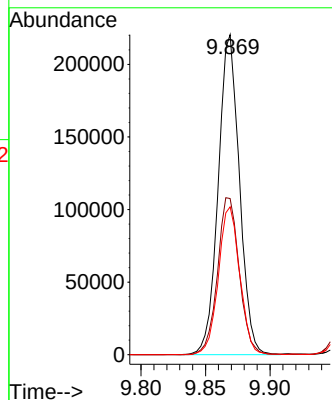
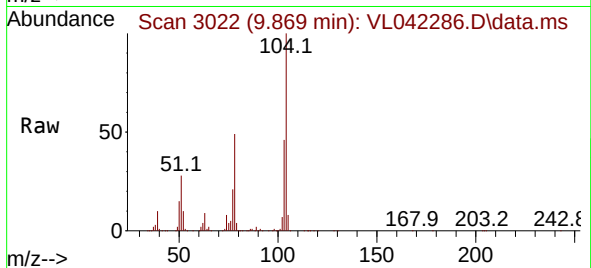




#61
Styrene
Concen: 10.212 ppbv
RT: 9.869 min Scan# 3021
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

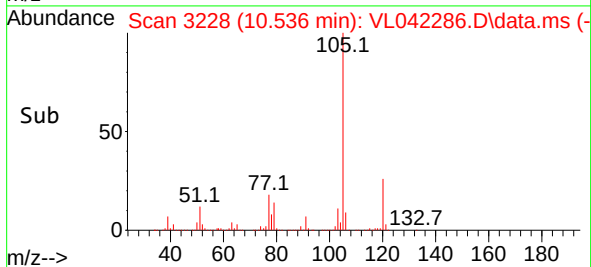
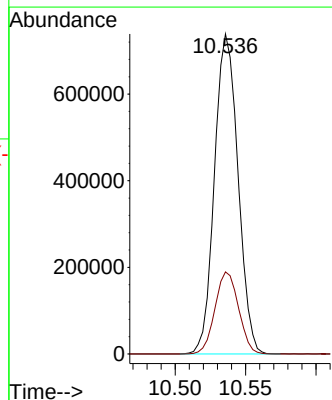
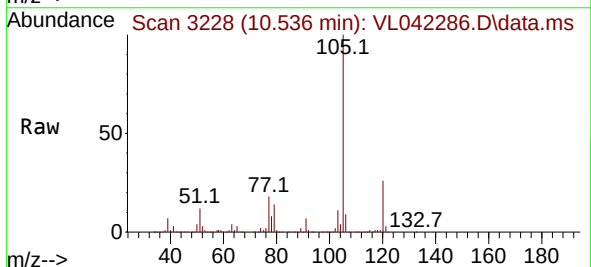
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

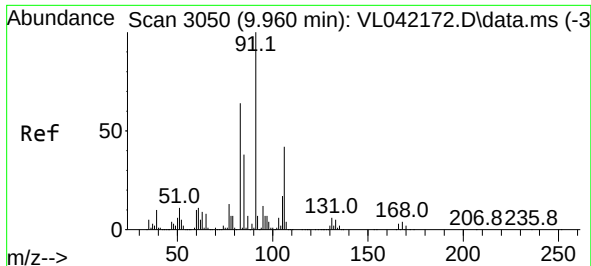
Tgt Ion:104 Resp: 251525
Ion Ratio Lower Upper
104 100
78 50.4 41.8 62.6
103 46.7 37.0 55.4



#62
Isopropylbenzene
Concen: 11.538 ppbv
RT: 10.536 min Scan# 3228
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion:105 Resp: 859013
Ion Ratio Lower Upper
105 100
120 25.6 19.9 29.9

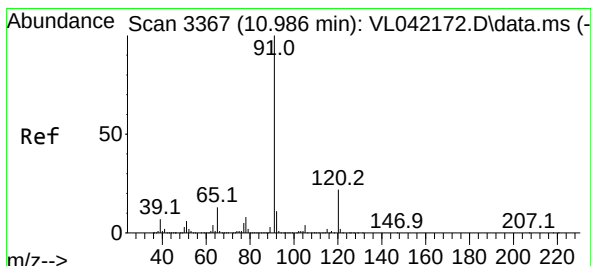
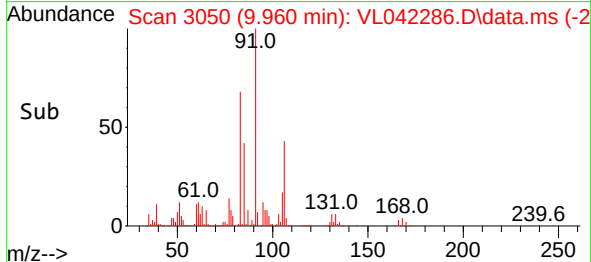
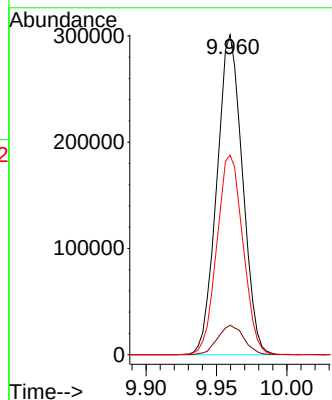
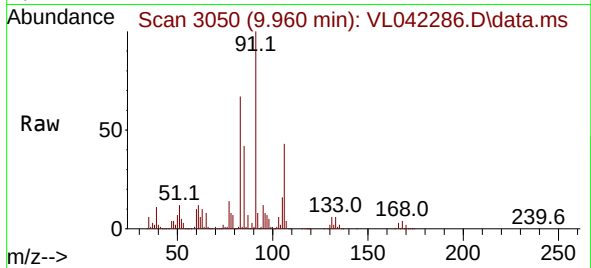




#63
 1,1,2,2-Tetrachloroethane
 Concen: 12.623 ppbv
 RT: 9.960 min Scan# 3050
 Delta R.T. 0.000 min
 Lab File: VL042286.D
 Acq: 09 Apr 2025 10:20

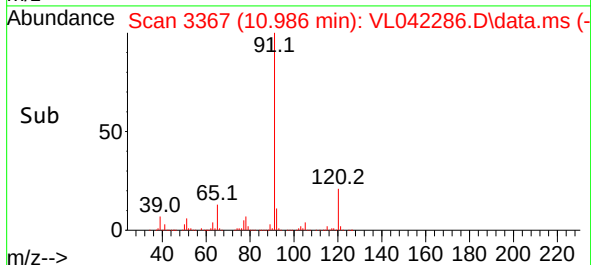
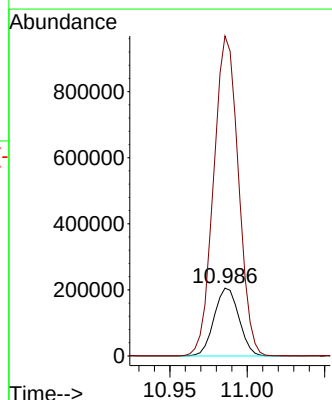
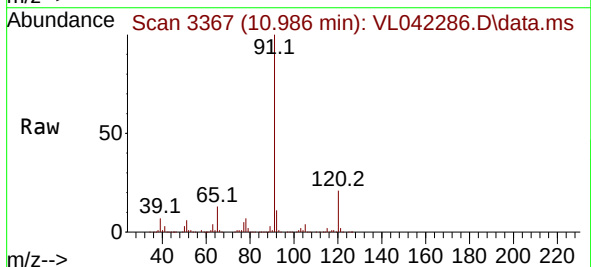
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDCCC010

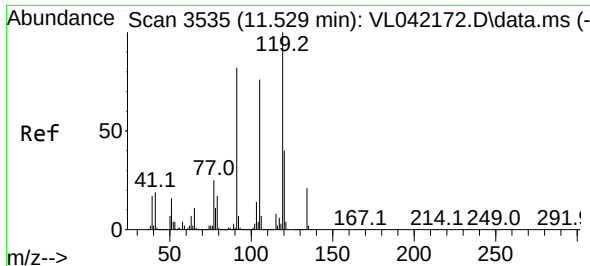
Tgt Ion: 83 Resp: 381841
 Ion Ratio Lower Upper
 83 100
 131 9.4 4.8 14.4
 85 63.7 32.5 97.5



#64
 n-propylbenzene
 Concen: 11.925 ppbv
 RT: 10.986 min Scan# 3367
 Delta R.T. 0.000 min
 Lab File: VL042286.D
 Acq: 09 Apr 2025 10:20

Tgt Ion: 120 Resp: 228532
 Ion Ratio Lower Upper
 120 100
 91 472.2 376.9 565.3

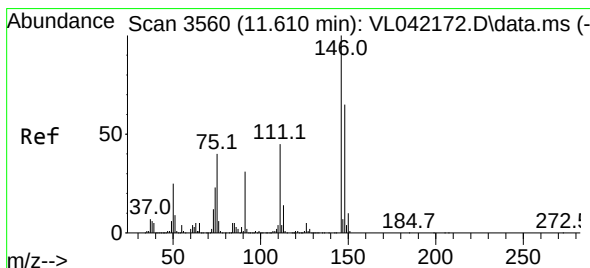
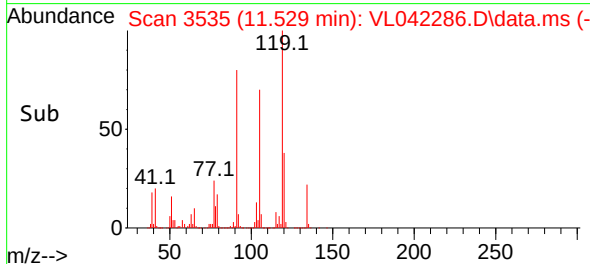
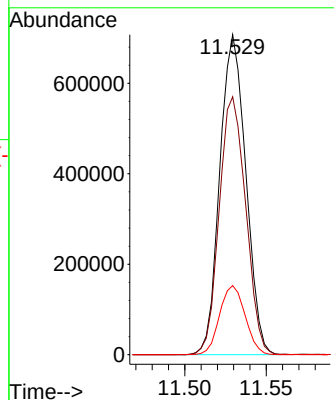
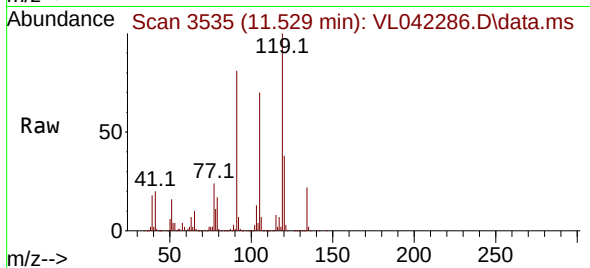




#65
tert-Butylbenzene
Concen: 11.393 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

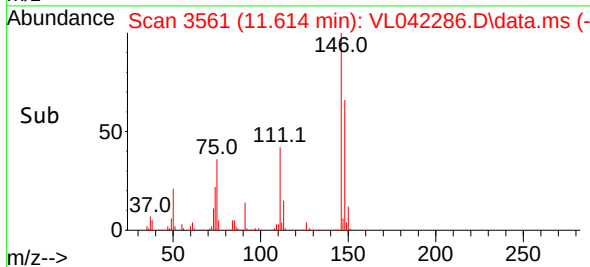
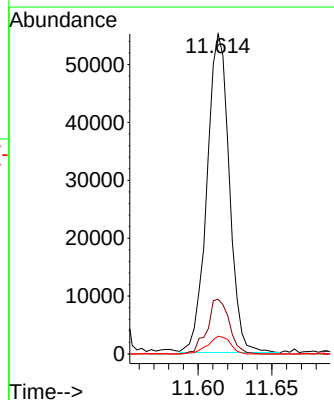
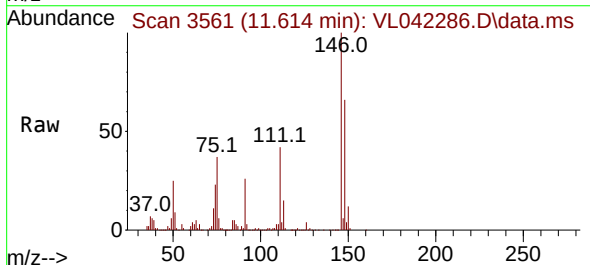
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

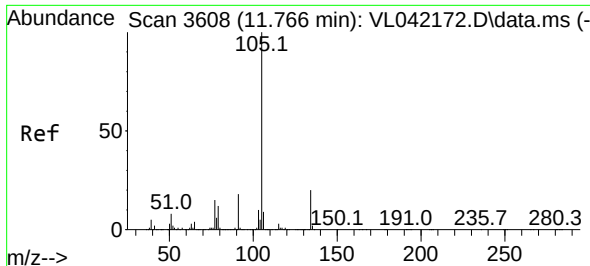
Tgt Ion:119 Resp: 784483
Ion Ratio Lower Upper
119 100
91 82.1 66.0 99.0
134 21.2 16.7 25.1



#66
Benzyl Chloride
Concen: 7.934 ppbv
RT: 11.614 min Scan# 3561
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 91 Resp: 57966
Ion Ratio Lower Upper
91 100
126 17.0 13.8 20.6
128 5.7 4.5 6.7

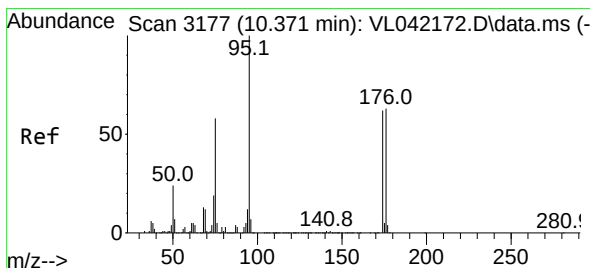
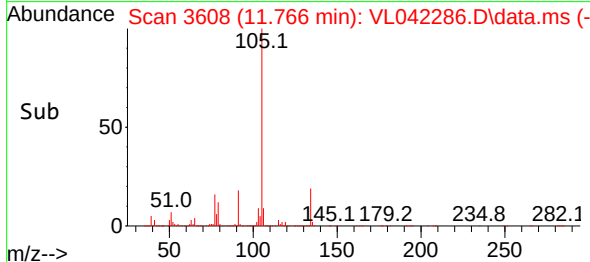
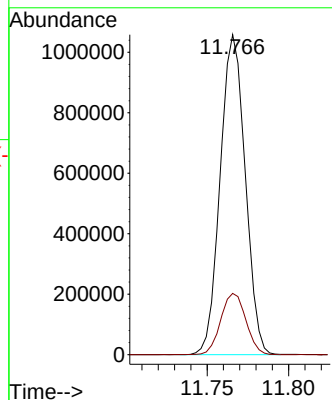
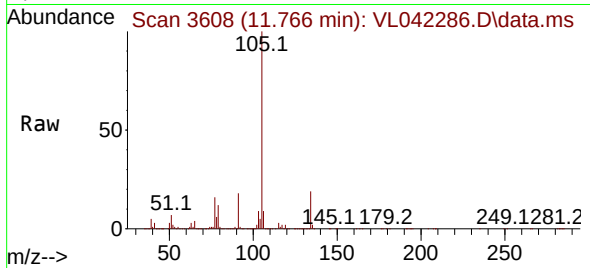




#67
 sec-Butylbenzene
 Concen: 11.787 ppbv
 RT: 11.766 min Scan# 3608
 Delta R.T. 0.000 min
 Lab File: VL042286.D
 Acq: 09 Apr 2025 10:20

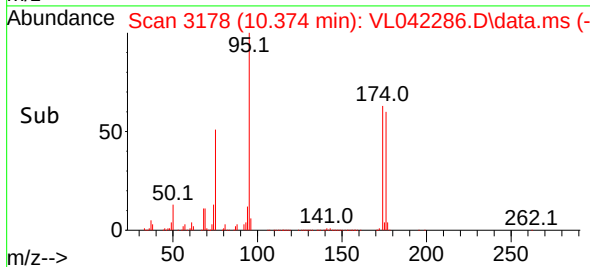
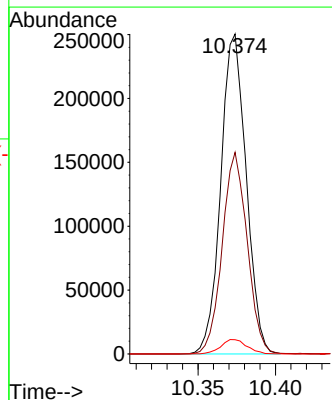
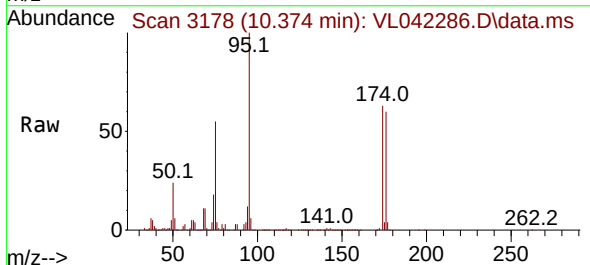
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDCCC010

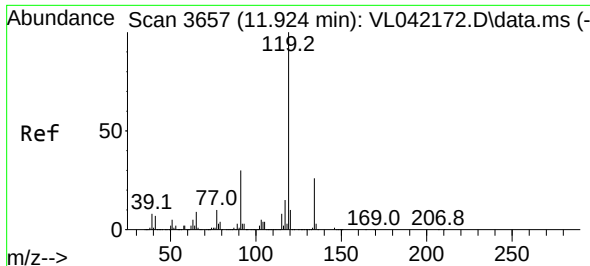
Tgt Ion:105 Resp: 1128106
 Ion Ratio Lower Upper
 105 100
 134 19.3 15.5 23.3



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.930 ppbv
 RT: 10.374 min Scan# 3178
 Delta R.T. 0.003 min
 Lab File: VL042286.D
 Acq: 09 Apr 2025 10:20

Tgt Ion: 95 Resp: 285515
 Ion Ratio Lower Upper
 95 100
 174 61.9 50.6 76.0
 175 4.7 3.8 5.6

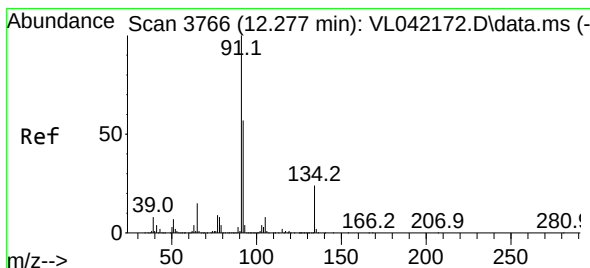
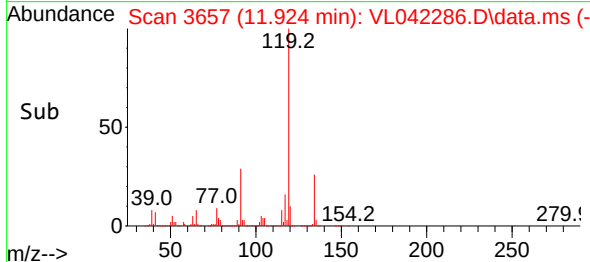
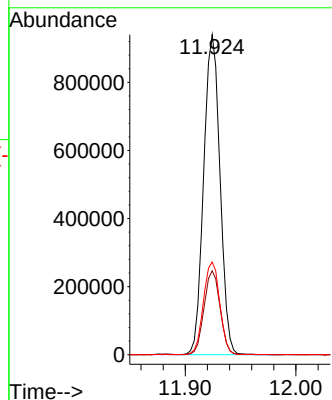
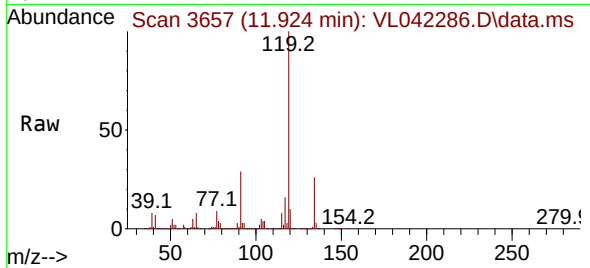




#69
p-Isopropyltoluene
Concen: 11.669 ppbv
RT: 11.924 min Scan# 3657
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

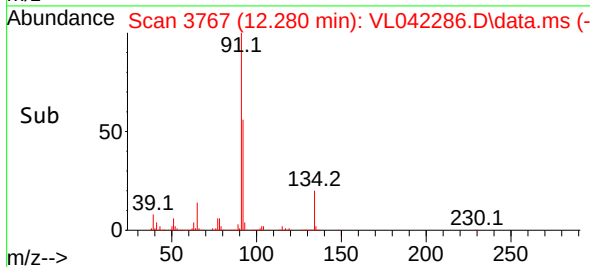
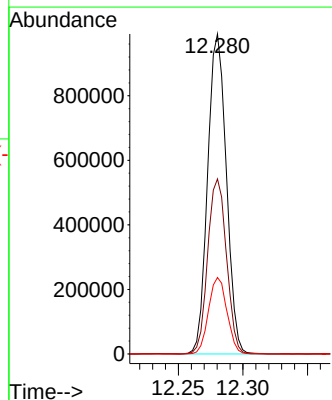
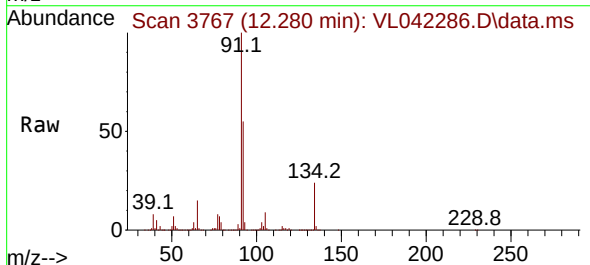
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

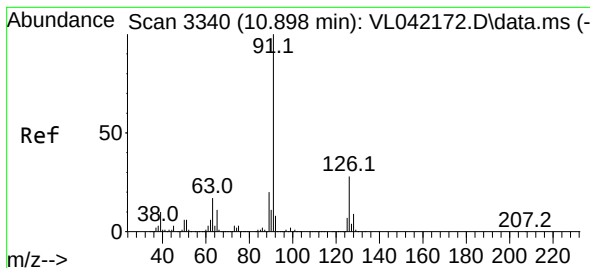
Tgt Ion:	119	Resp:	961623
Ion	Ratio	Lower	Upper
119	100		
134	25.8	20.4	30.6
91	29.2	23.7	35.5



#70
n-Butylbenzene
Concen: 11.847 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion:	91	Resp:	998455
Ion	Ratio	Lower	Upper
91	100		
92	55.0	44.9	67.3
134	23.6	19.2	28.8

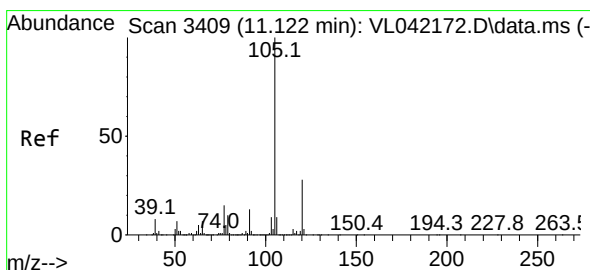
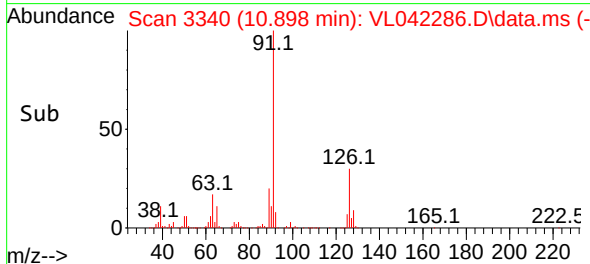
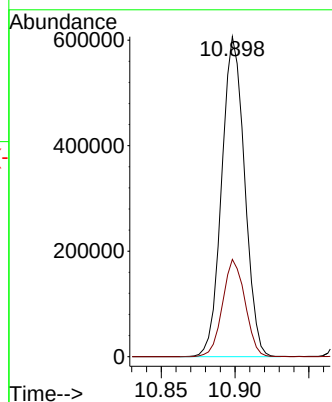
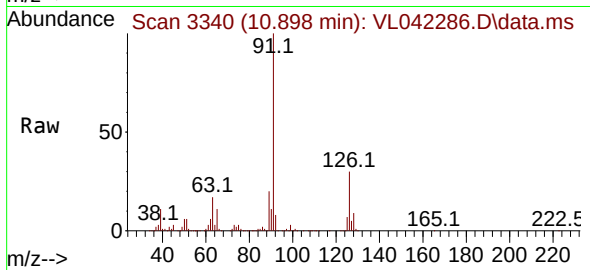




#71
2-Chlorotoluene
Concen: 11.323 ppbv
RT: 10.898 min Scan# 31
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

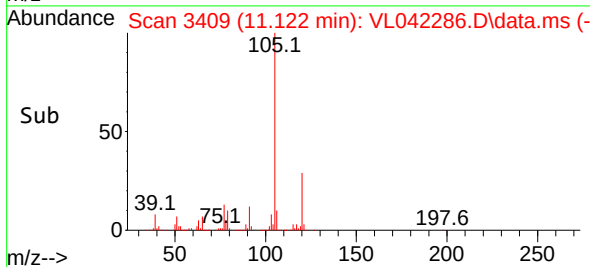
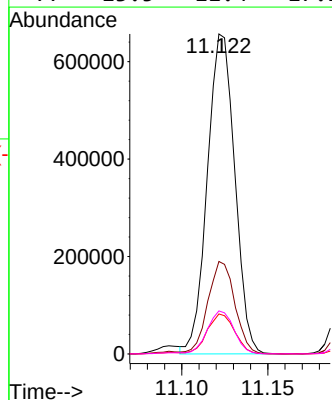
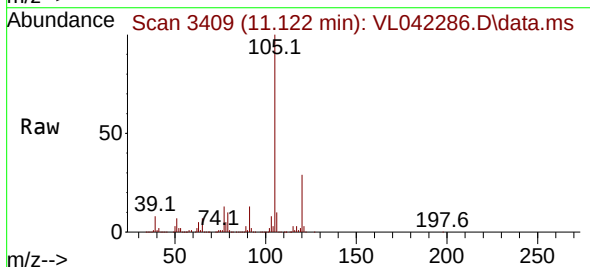
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

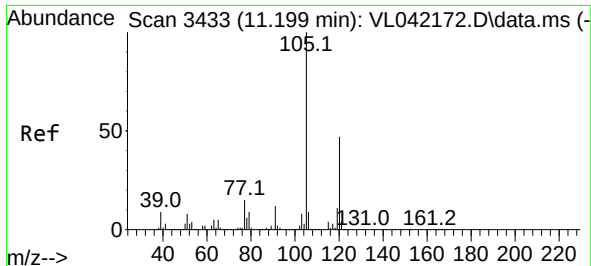
Tgt Ion: 91 Resp: 654276
Ion Ratio Lower Upper
91 100
126 29.8 11.6 46.4



#72
4-Ethyltoluene
Concen: 11.753 ppbv
RT: 11.122 min Scan# 3409
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 105 Resp: 728517
Ion Ratio Lower Upper
105 100
120 29.1 23.4 35.0
91 12.8 10.3 15.5
77 13.5 11.4 17.2

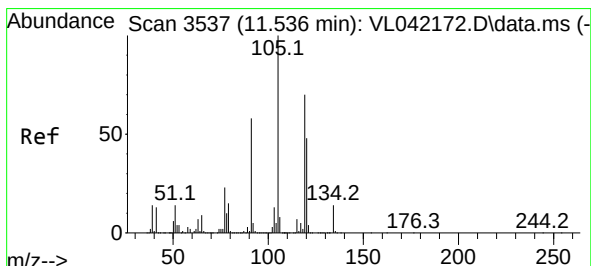
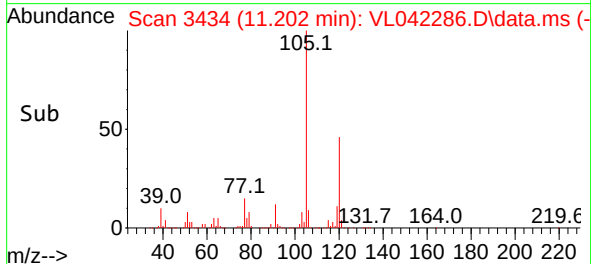
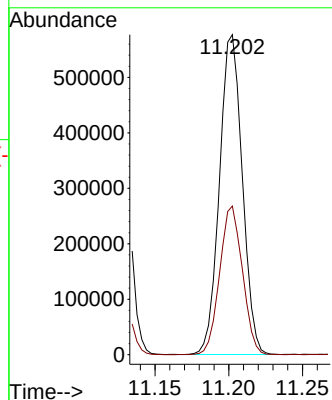
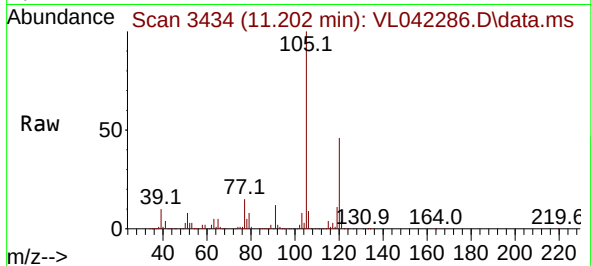




#73
1,3,5-Trimethylbenzene
Concen: 11.460 ppbv
RT: 11.202 min Scan# 3434
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

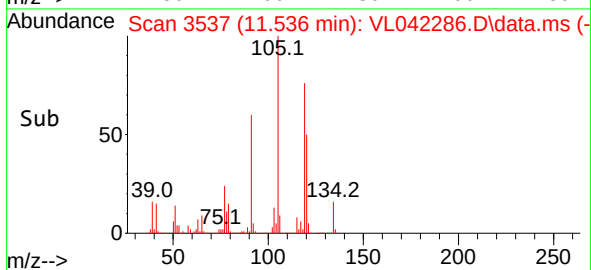
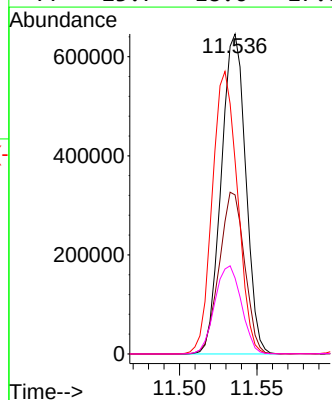
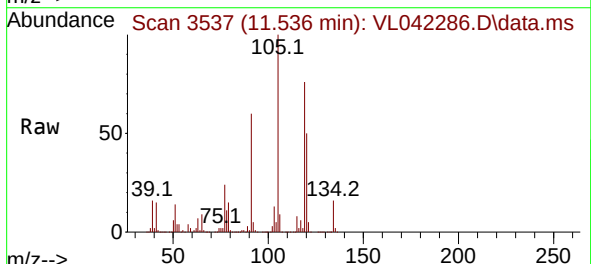
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

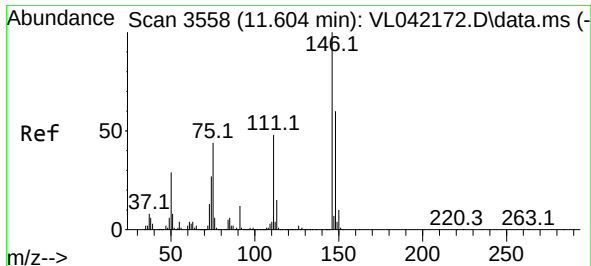
Tgt Ion:105 Resp: 620415
Ion Ratio Lower Upper
105 100
120 46.4 37.4 56.0



#74
1,2,4-Trimethylbenzene
Concen: 11.371 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion:105 Resp: 709204
Ion Ratio Lower Upper
105 100
120 49.7 38.6 58.0
91 60.3 46.2 69.2
77 23.7 18.6 27.8

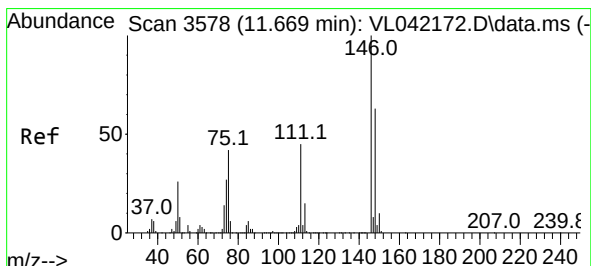
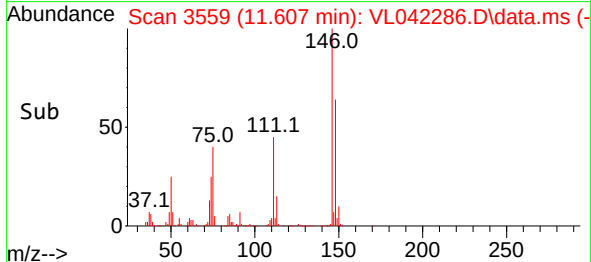
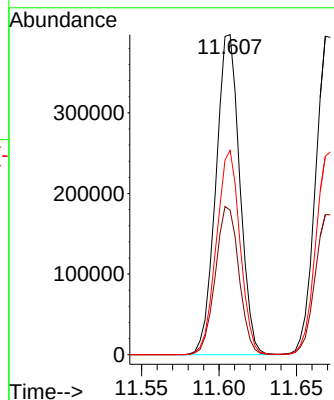
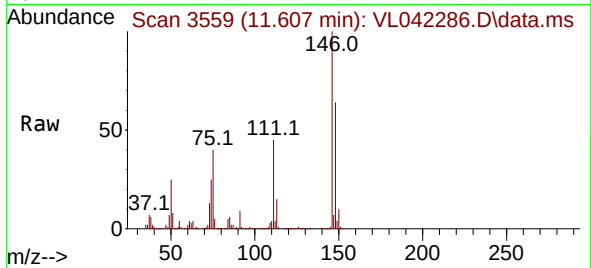




#75
1,3-Dichlorobenzene
Concen: 12.462 ppbv
RT: 11.607 min Scan# 3558
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

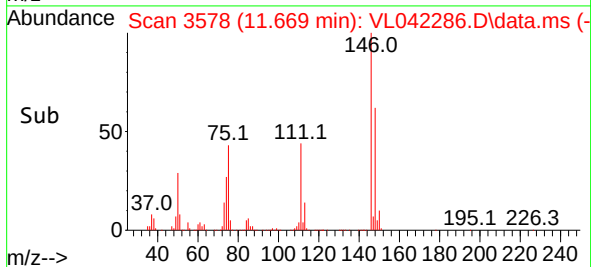
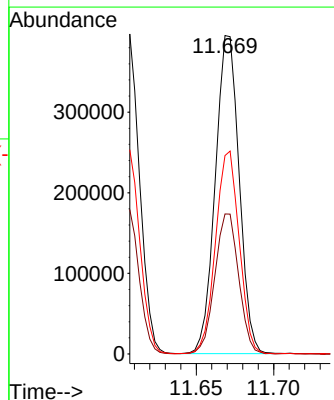
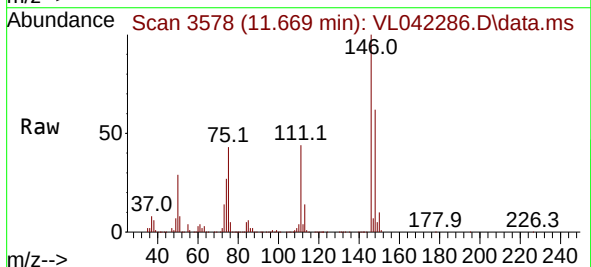
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

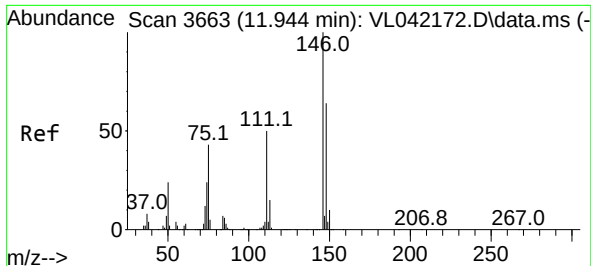
Tgt Ion:146 Resp: 426300
Ion Ratio Lower Upper
146 100
111 45.6 23.8 71.2
148 63.0 31.9 95.9



#76
1,4-Dichlorobenzene
Concen: 12.442 ppbv
RT: 11.669 min Scan# 3578
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion:146 Resp: 423561
Ion Ratio Lower Upper
146 100
111 44.2 23.0 69.0
148 63.4 31.9 95.7

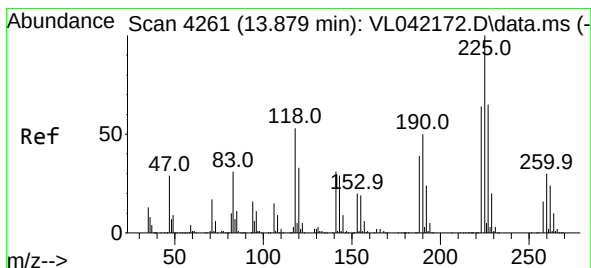
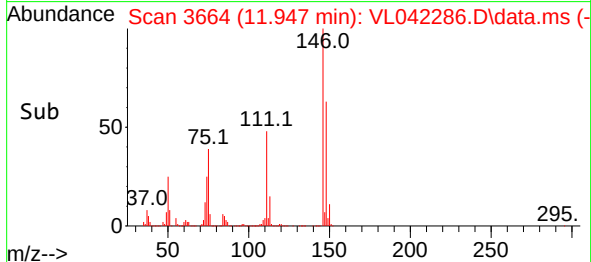
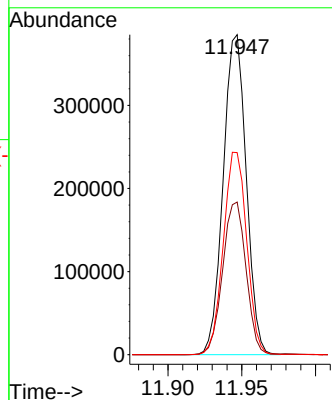
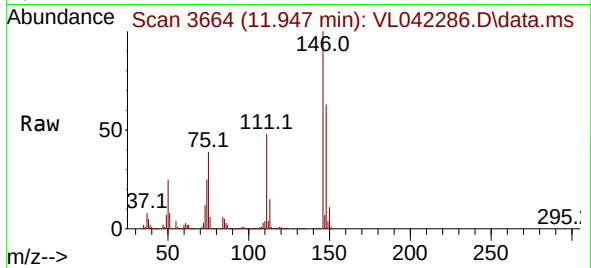




#77
1,2-Dichlorobenzene
Concen: 12.589 ppbv
RT: 11.947 min Scan# 3664
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

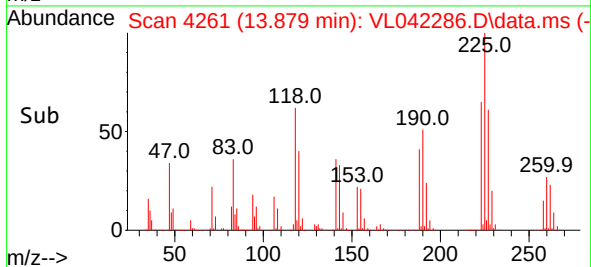
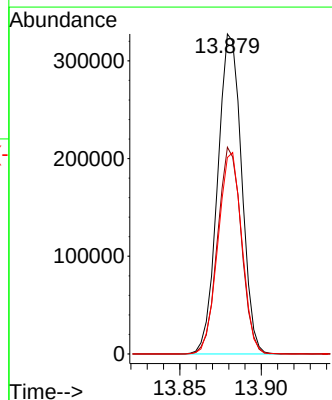
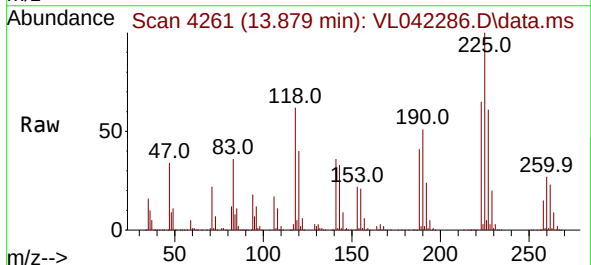
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

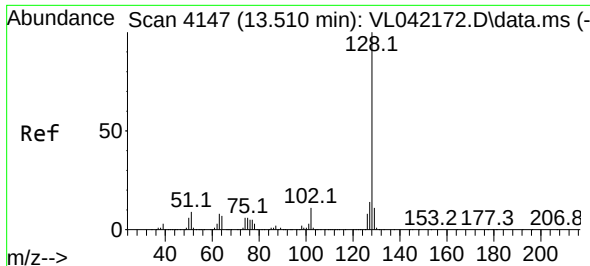
Tgt Ion:146 Resp: 419286
Ion Ratio Lower Upper
146 100
111 48.5 24.8 74.3
148 64.3 31.6 94.8



#78
Hexachloro-1,3-Butadiene
Concen: 9.864 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion:225 Resp: 334414
Ion Ratio Lower Upper
225 100
223 63.9 50.6 76.0
227 62.8 51.2 76.8

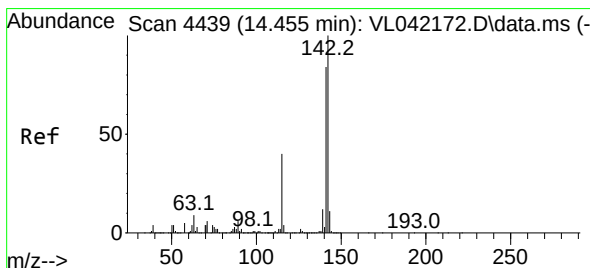
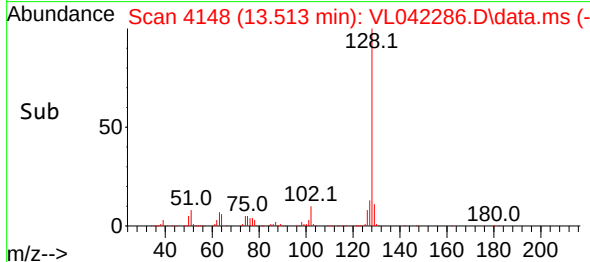
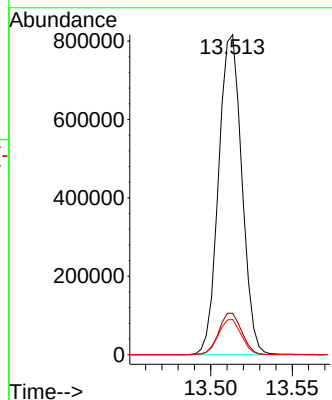
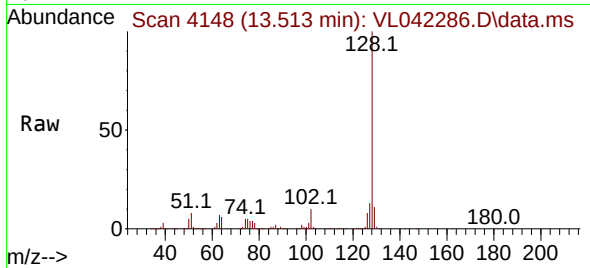




#79
Naphthalene
Concen: 11.851 ppbv
RT: 13.513 min Scan# 4147
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

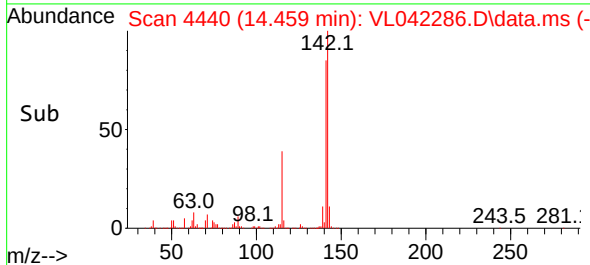
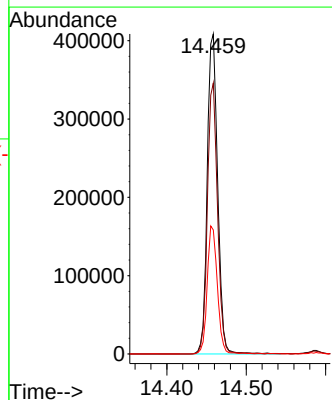
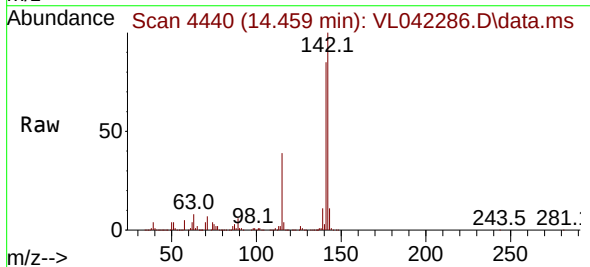
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

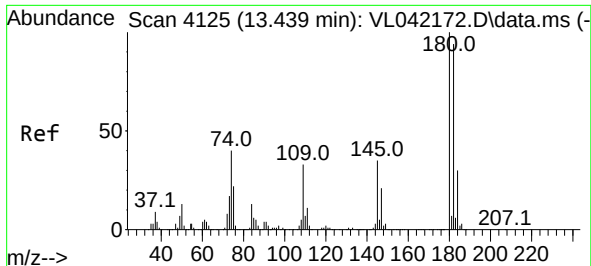
Tgt Ion:128 Resp: 808459
Ion Ratio Lower Upper
128 100
127 12.9 10.8 16.2
129 11.0 9.0 13.4



#80
Naphthalene,2-methyl-
Concen: 11.158 ppbv
RT: 14.459 min Scan# 4440
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

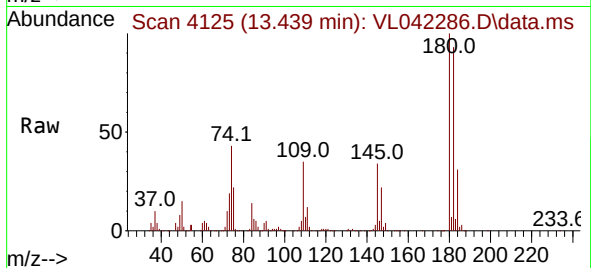
Tgt Ion:142 Resp: 373298
Ion Ratio Lower Upper
142 100
141 82.9 66.3 99.5
115 39.2 31.6 47.4



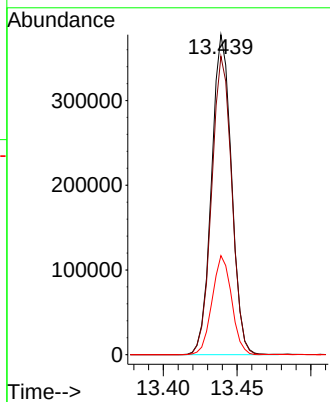
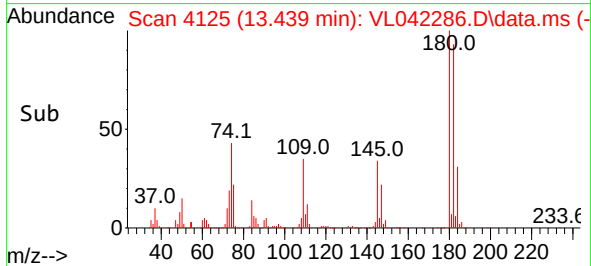


#81
 1,2,4-Trichlorobenzene
 Concen: 11.305 ppbv
 RT: 13.439 min Scan# 41
 Delta R.T. 0.000 min
 Lab File: VL042286.D
 Acq: 09 Apr 2025 10:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



Tgt Ion:	180	Resp:	355741
Ion	Ratio	Lower	Upper
180	100		
182	93.9	75.1	112.7
184	30.3	24.4	36.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
 Data File : VL042289.D
 Acq On : 09 Apr 2025 12:31
 Operator : SY/MD
 Sample : VL0409ABS02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0409ABS02

Quant Time: Apr 10 01:42:11 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	2.784	49	160536	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	421845	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	368487	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	288141	9.522	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.200%

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.496	85	227351	9.592	ppbv	98
3) Chlorodifluoromethane	1.473	51	246719	10.189	ppbv	98
4) Chloromethane	1.531	50	94644	9.770	ppbv	99
5) Vinyl Chloride	1.577	62	89453	8.714	ppbv	95
6) Bromomethane	1.664	94	39433	8.983	ppbv	100
7) Chloroethane	1.703	64	35803	9.208	ppbv	97
8) Dichlorotetrafluoroethane	1.551	85	196779	9.748	ppbv	94
9) Propene	1.483	41	104428	9.409	ppbv	96
10) Heptane	4.972	43	285337	9.665	ppbv	99
11) Trichlorofluoromethane	1.874	101	219275	9.507	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.136	101	180430	9.518	ppbv	95
13) Ethanol	1.719	45	4753	4.530	ppbv	93
14) Bromoethene	1.780	108	64175	8.837	ppbv	98
15) Acetone	1.832	43	200151	8.915	ppbv	96
16) 1,3-Butadiene	1.606	39	93954	8.569	ppbv	99
17) tert-Butyl alcohol	2.039	59	231293	8.271	ppbv	98
18) 1,1-Dichloroethene	2.030	96	78979	8.912	ppbv	96
19) Isopropyl Alcohol	1.884	45	111918	8.835	ppbv	96
20) Methylene Chloride	2.059	84	70611	8.444	ppbv	95
21) Allyl Chloride	2.094	41	147389	9.308	ppbv	98
22) trans-1,2-Dichloroethene	2.337	96	89877	8.775	ppbv	94
23) Vinyl Acetate	2.460	43	85028	8.750	ppbv	97
24) 1,1-Dichloroethane	2.405	63	184801	9.733	ppbv	99
25) Ethyl Acetate	2.832	43	590692	10.137	ppbv	98
26) Hexane	2.823	57	223800	9.943	ppbv	98
27) Carbon Disulfide	2.146	76	223675	9.267	ppbv	98
28) Methyl tert-Butyl Ether	2.437	73	119034	8.494	ppbv	97
29) Chloroform	2.845	83	341042	10.353	ppbv	99
30) Cyclohexane	3.852	84	182880	9.357	ppbv	97
31) cis-1,2-Dichloroethene	2.716	61	221881	9.710	ppbv	98
32) 1,1,1-Trichloroethane	3.363	97	336493	8.923	ppbv	97
34) 2-Butanone	2.554	43	334636	10.940	ppbv	98
35) Carbon Tetrachloride	3.758	117	343376	10.420	ppbv	97
36) Benzene	3.651	78	442736	10.586	ppbv	98
37) 1,2-Dichloroethane	3.214	62	262528	10.965	ppbv	100
38) Trichloroethene	4.541	130	176435	10.111	ppbv	98
39) 1,2-Dichloropropane	4.308	63	161101	10.578	ppbv	97
40) 1,4-Dioxane	4.574	88	76321	9.441	ppbv #	97
41) Tetrahydrofuran	3.049	42	187790	10.661	ppbv	96
42) Bromodichloromethane	4.483	83	360662	10.927	ppbv	100
43) Methyl Methacrylate	4.875	69	165984	9.375	ppbv	98
44) 2,2,4-Trimethylpentane	4.632	57	757855	10.723	ppbv	98
45) t-1,3-Dichloropropene	6.406	75	161245	8.489	ppbv	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
 Data File : VL042289.D
 Acq On : 09 Apr 2025 12:31
 Operator : SY/MD
 Sample : VL0409ABS02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

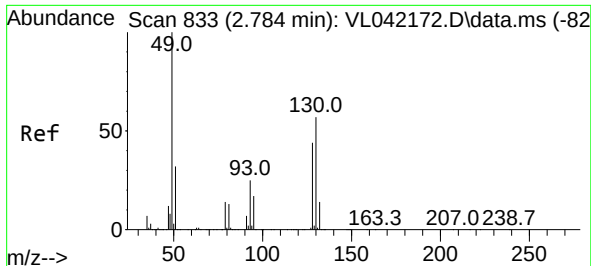
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0409ABS02

Quant Time: Apr 10 01:42:11 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)
46) cis-1,3-Dichloropropene	5.593	75	213566	9.172	ppbv	98
47) 1,1,2-Trichloroethane	6.574	97	173506	10.777	ppbv	99
48) Dibromochloromethane	7.380	129	286938	10.516	ppbv	100
49) Bromoform	9.477	173	254430	10.386	ppbv	99
50) 4-Methyl-2-Pentanone	5.742	43	463069	9.552	ppbv	96
51) 2-Hexanone	7.428	43	364946	9.168	ppbv #	96
52) Tetrachloroethene	8.218	164	148369	8.946	ppbv	94
53) Toluene	6.927	91	490916	9.903	ppbv	99
54) 1,2-Dibromoethane	7.648	107	238091	10.608	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.920	131	232553	11.465	ppbv	100
57) Chlorobenzene	8.914	112	397485	11.372	ppbv	93
58) Ethyl Benzene	9.351	91	695035	10.619	ppbv	98
59) m/p-Xylene	9.548	91	593323	11.352	ppbv #	31
60) o-Xylene	9.959	91	574256	10.960	ppbv	97
61) Styrene	9.866	104	258350	9.967	ppbv	99
62) Isopropylbenzene	10.536	105	864354	11.032	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.959	83	377007	11.843	ppbv	99
64) n-propylbenzene	10.985	120	228525	11.331	ppbv	99
65) tert-Butylbenzene	11.529	119	790461	10.909	ppbv	99
66) Benzyl Chloride	11.613	91	58131	7.561	ppbv	97
67) sec-Butylbenzene	11.765	105	1124096	11.161	ppbv	99
69) p-Isopropyltoluene	11.924	119	950025	10.954	ppbv	99
70) n-Butylbenzene	12.280	91	986632	11.124	ppbv	99
71) 2-Chlorotoluene	10.898	91	660346	10.859	ppbv	99
72) 4-Ethyltoluene	11.121	105	726883	11.142	ppbv	99
73) 1,3,5-Trimethylbenzene	11.202	105	618219	10.851	ppbv	99
74) 1,2,4-Trimethylbenzene	11.532	105	702287	10.699	ppbv #	84
75) 1,3-Dichlorobenzene	11.604	146	419165	11.644	ppbv	99
76) 1,4-Dichlorobenzene	11.668	146	417746	11.660	ppbv	98
77) 1,2-Dichlorobenzene	11.943	146	415780	11.862	ppbv	99
78) Hexachloro-1,3-Butadiene	13.879	225	331886	9.302	ppbv	99
79) Naphthalene	13.510	128	810441	11.288	ppbv	99
80) Naphthalene,2-methyl-	14.455	142	388095	11.023	ppbv	99
81) 1,2,4-Trichlorobenzene	13.439	180	357711	10.802	ppbv	99

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

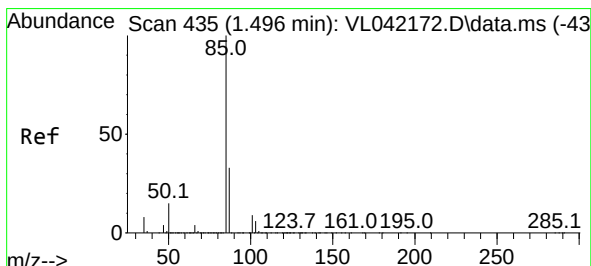
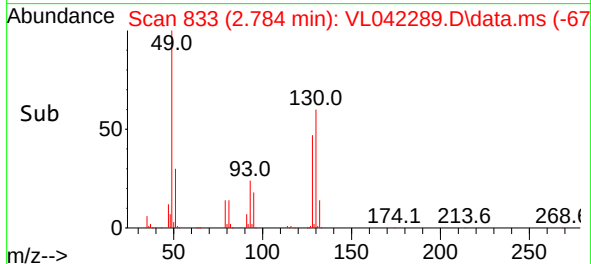
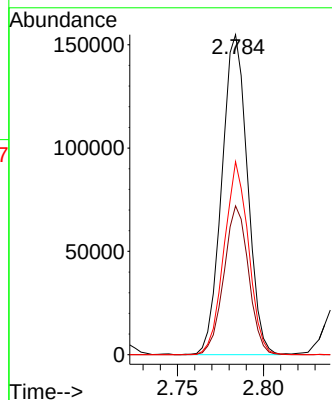
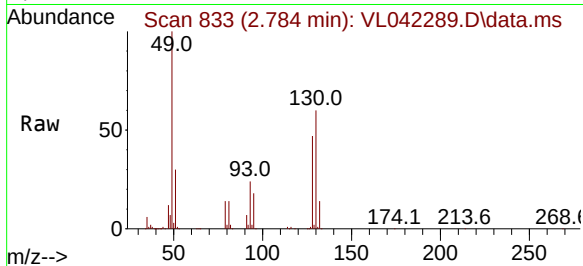
- 1
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#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 833
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

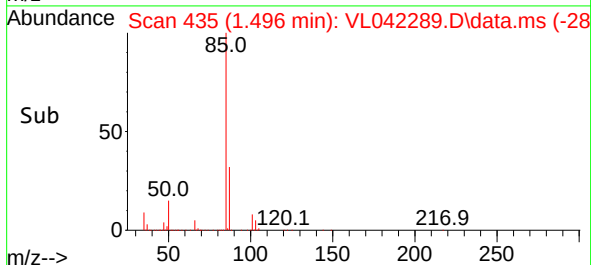
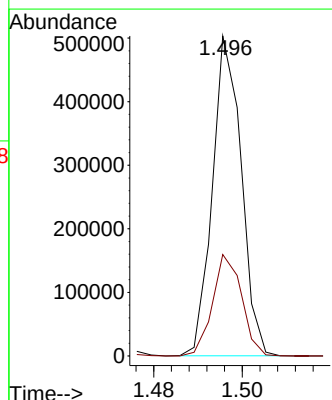
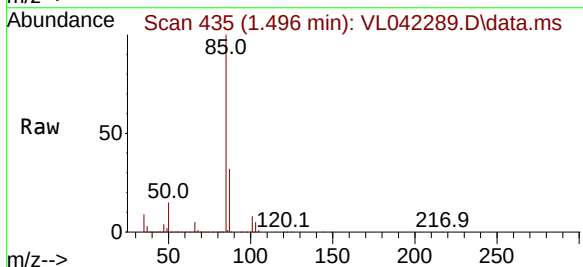
Instrument :
MSVOA_1
ClientSampleId :
VL0409ABS02

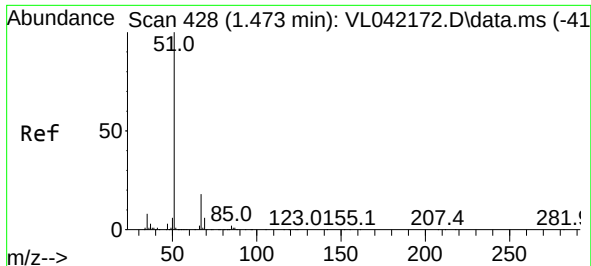
Tgt Ion: 49 Resp: 160536
Ion Ratio Lower Upper
49 100
128 44.7 22.9 68.5
130 57.4 28.8 86.4



#2
Dichlorodifluoromethane
Concen: 9.592 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 85 Resp: 227351
Ion Ratio Lower Upper
85 100
87 31.7 26.1 39.1

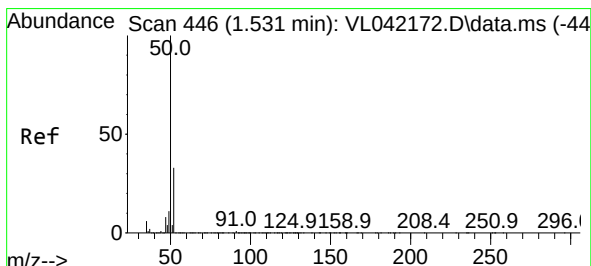
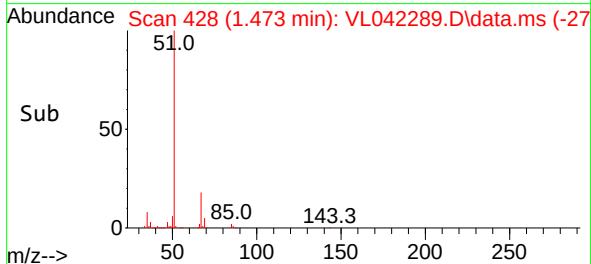
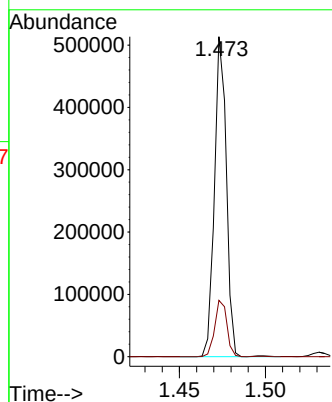
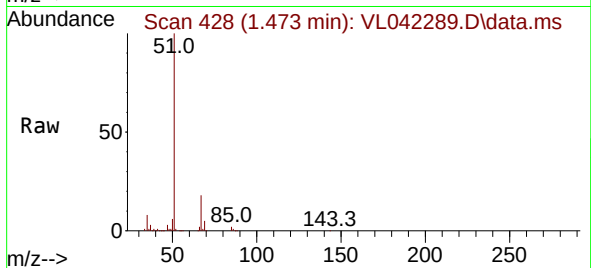




#3
Chlorodifluoromethane
Concen: 10.189 ppbv
RT: 1.473 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

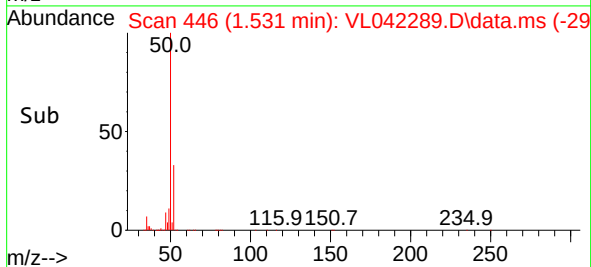
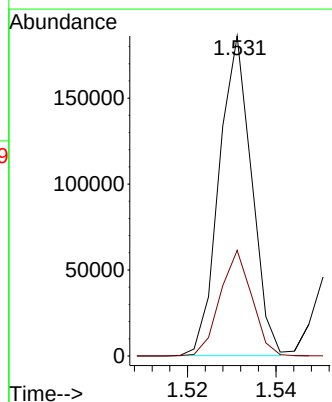
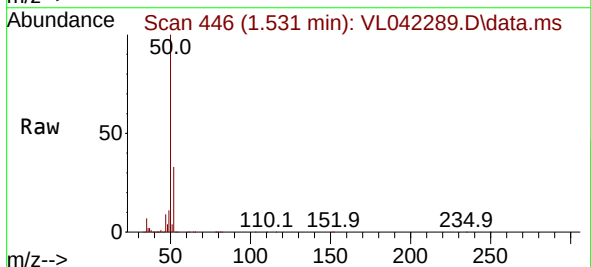
Instrument :
MSVOA_L
ClientSampleId :
VL0409ABS02

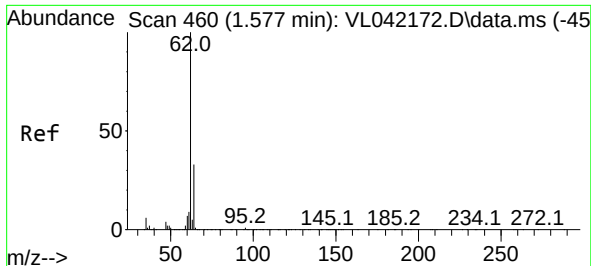
Tgt Ion: 51 Resp: 246719
Ion Ratio Lower Upper
51 100
67 18.1 15.0 22.6



#4
Chloromethane
Concen: 9.770 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 50 Resp: 94644
Ion Ratio Lower Upper
50 100
52 32.9 26.1 39.1

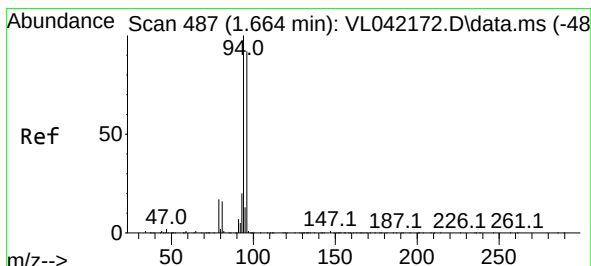
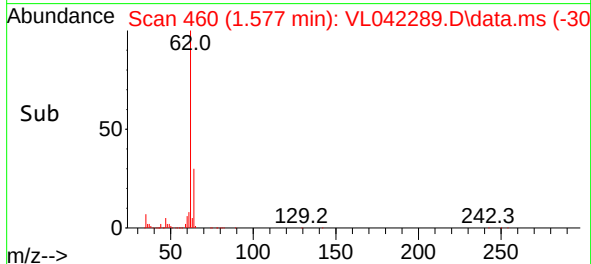
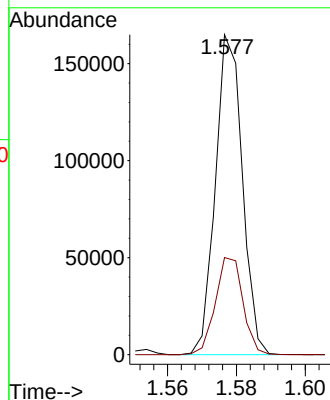
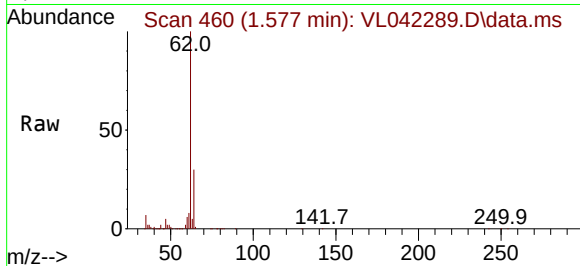




#5
 Vinyl Chloride
 Concen: 8.714 ppbv
 RT: 1.577 min Scan# 460
 Delta R.T. -0.000 min
 Lab File: VL042289.D
 Acq: 09 Apr 2025 12:31

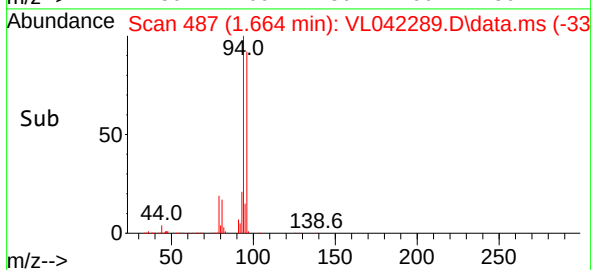
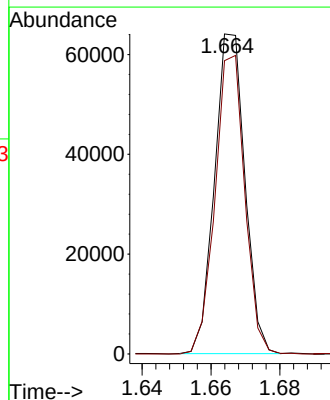
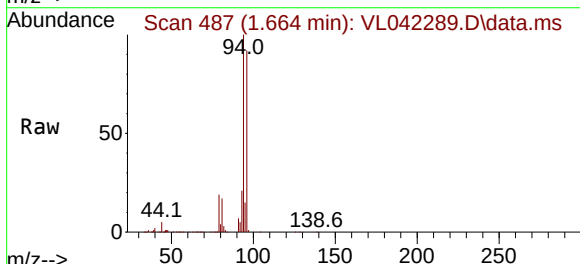
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0409ABS02

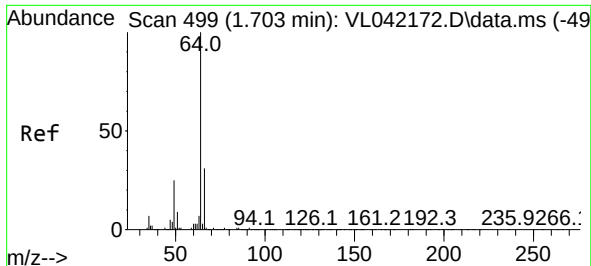
Tgt Ion: 62 Resp: 89453
 Ion Ratio Lower Upper
 62 100
 64 30.3 26.6 40.0



#6
 Bromomethane
 Concen: 8.983 ppbv
 RT: 1.664 min Scan# 487
 Delta R.T. -0.000 min
 Lab File: VL042289.D
 Acq: 09 Apr 2025 12:31

Tgt Ion: 94 Resp: 39433
 Ion Ratio Lower Upper
 94 100
 96 91.7 73.1 109.7

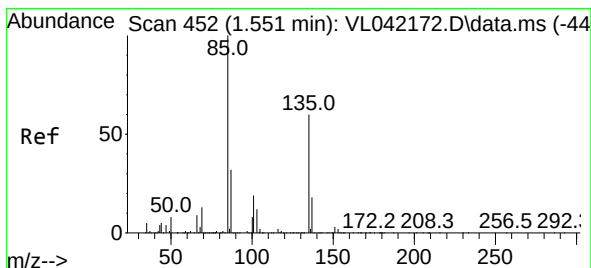
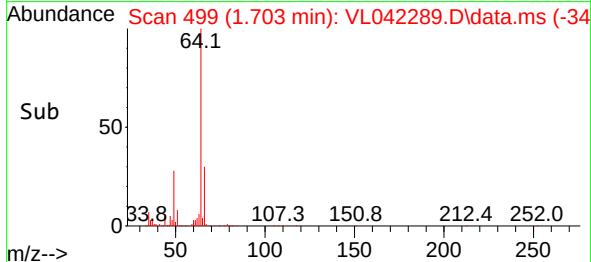
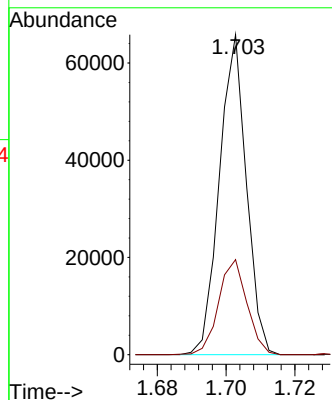
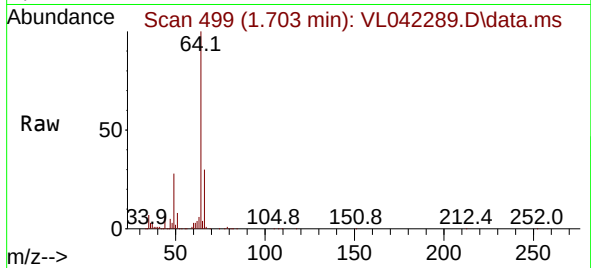




#7
Chloroethane
Concen: 9.208 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

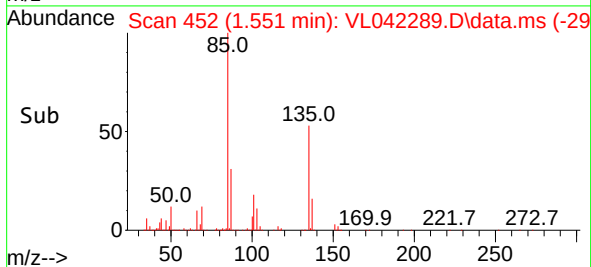
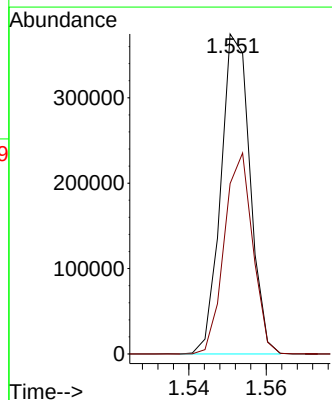
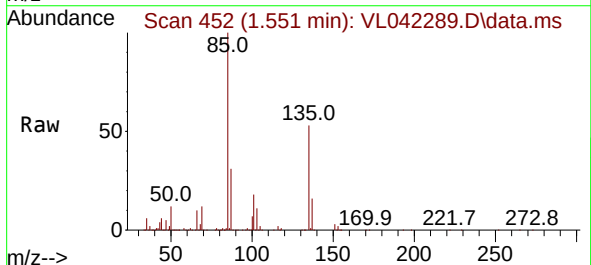
Instrument :
MSVOA_1
ClientSampleId :
VL0409ABS02

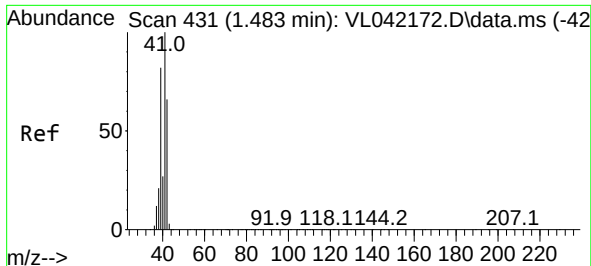
Tgt Ion: 64 Resp: 35803
Ion Ratio Lower Upper
64 100
66 29.7 25.2 37.8



#8
Dichlorotetrafluoroethane
Concen: 9.748 ppbv
RT: 1.551 min Scan# 452
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 85 Resp: 196779
Ion Ratio Lower Upper
85 100
135 61.1 52.4 78.6

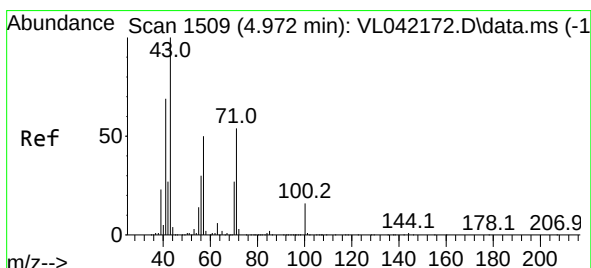
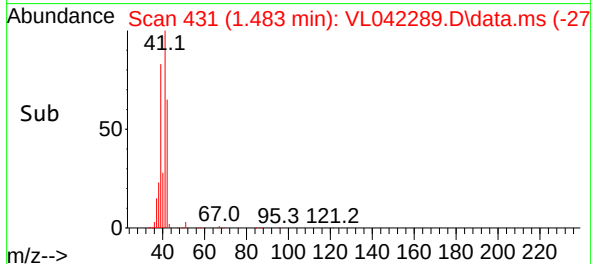
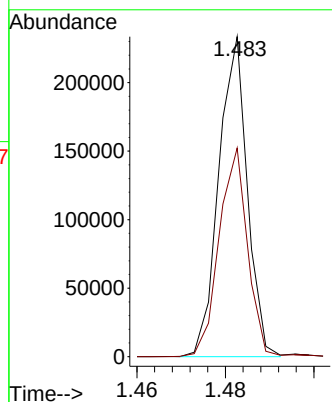
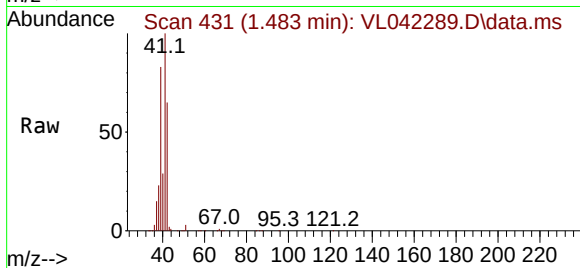




#9
Propene
Concen: 9.409 ppbv
RT: 1.483 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

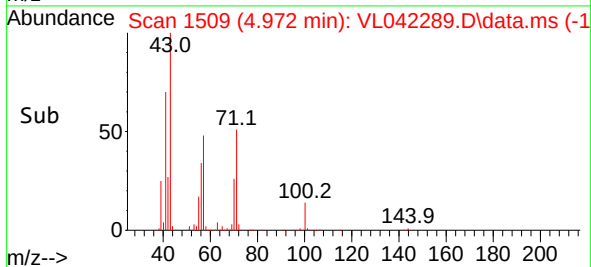
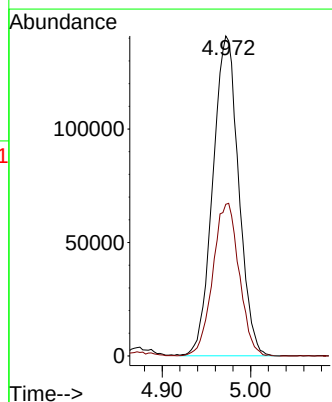
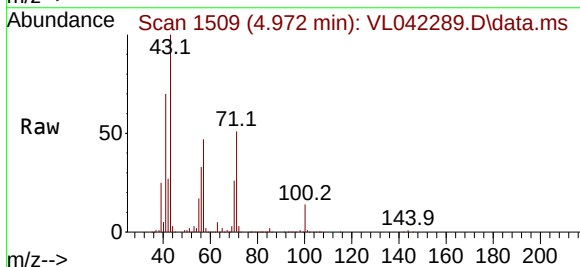
Instrument :
MSVOA_1
ClientSampleId :
VL0409ABS02

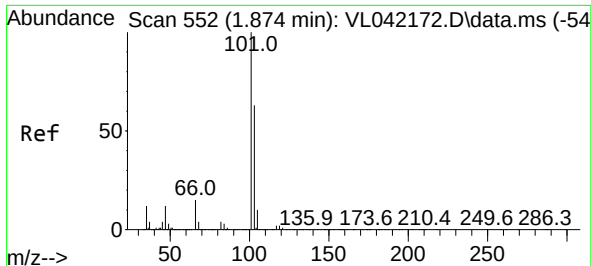
Tgt Ion: 41 Resp: 104428
Ion Ratio Lower Upper
41 100
42 65.8 55.4 83.2



#10
Heptane
Concen: 9.665 ppbv
RT: 4.972 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 43 Resp: 285337
Ion Ratio Lower Upper
43 100
57 48.7 39.4 59.2

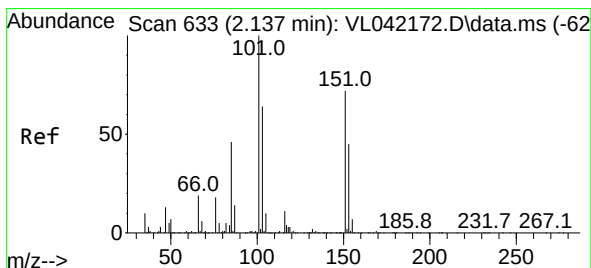
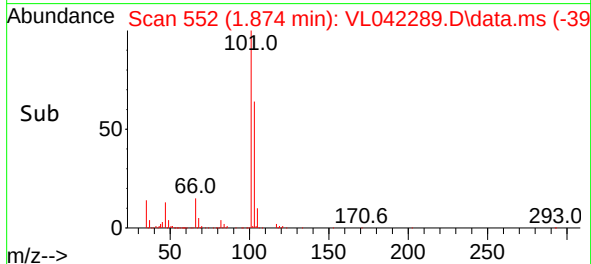
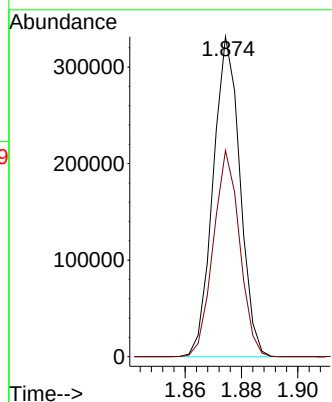
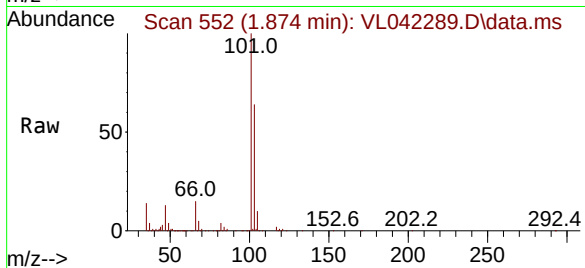




#11
Trichlorofluoromethane
Concen: 9.507 ppbv
RT: 1.874 min Scan# 511
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

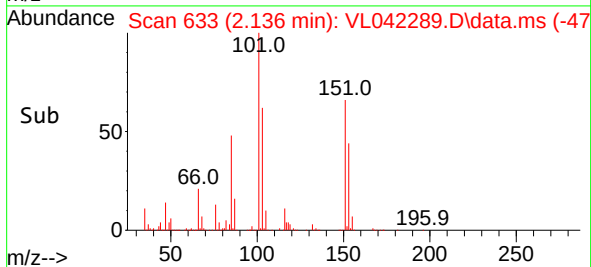
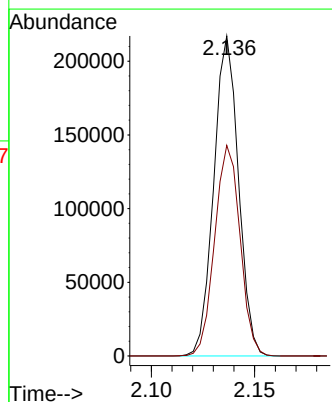
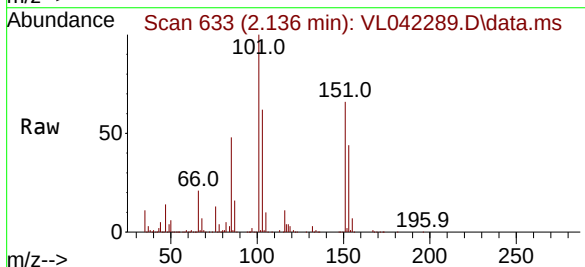
Instrument :
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ClientSampleId :
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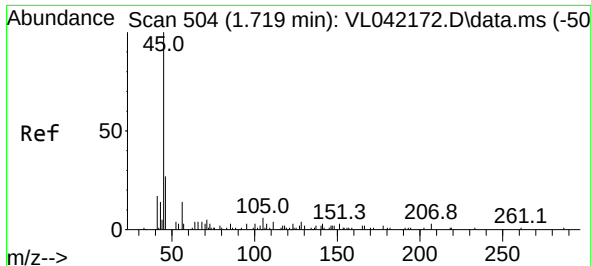
Tgt Ion:101 Resp: 219275
Ion Ratio Lower Upper
101 100
103 64.5 50.2 75.2



#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.518 ppbv
RT: 2.136 min Scan# 633
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion:101 Resp: 180430
Ion Ratio Lower Upper
101 100
151 67.6 57.1 85.7

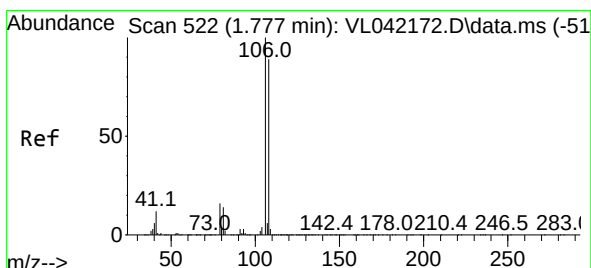
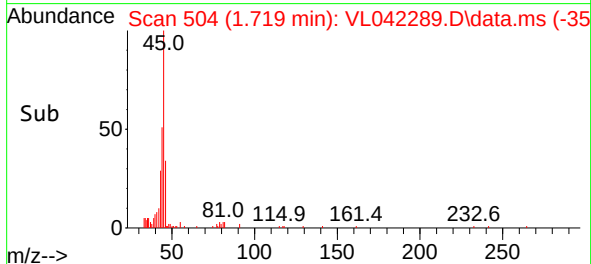
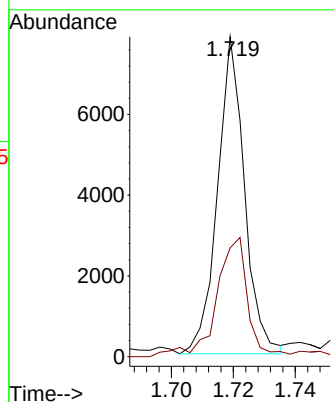
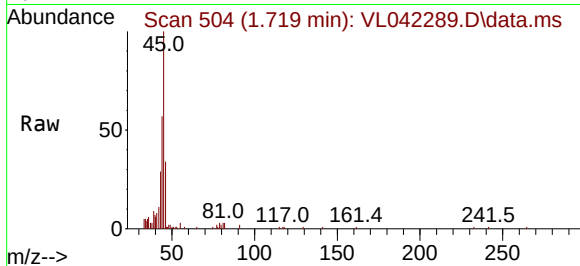




#13
Ethanol
Concen: 4.530 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

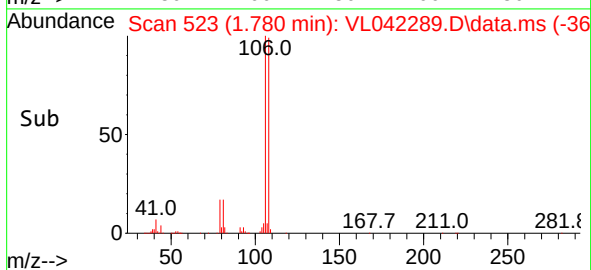
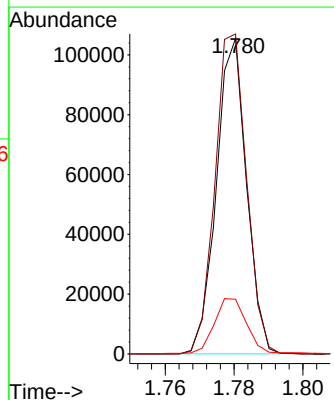
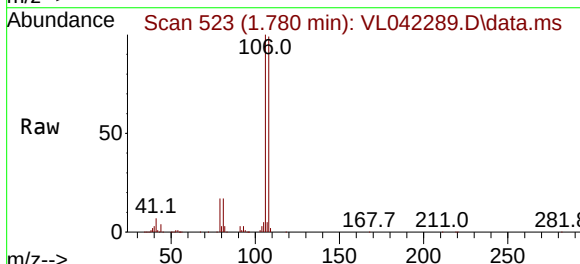
Instrument :
MSVOA_L
ClientSampleId :
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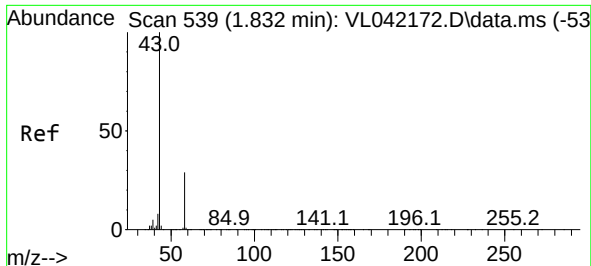
Tgt Ion: 45 Resp: 4753
Ion Ratio Lower Upper
45 100
46 45.9 20.2 80.8



#14
Bromoethene
Concen: 8.837 ppbv
RT: 1.780 min Scan# 523
Delta R.T. 0.003 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 108 Resp: 64175
Ion Ratio Lower Upper
108 100
106 106.5 86.8 130.2
79 20.4 15.0 22.6

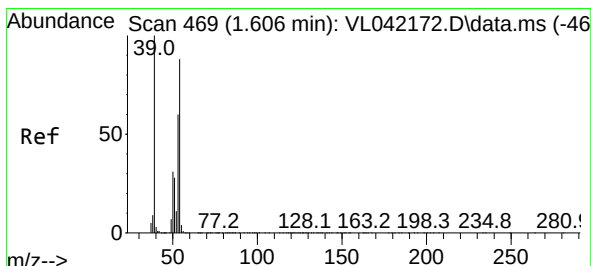
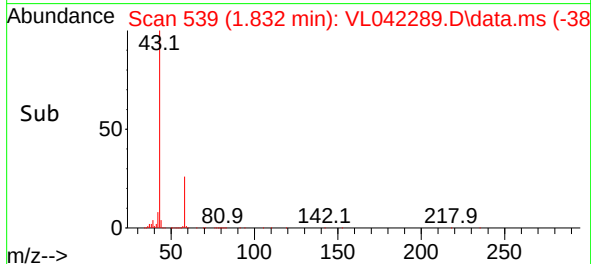
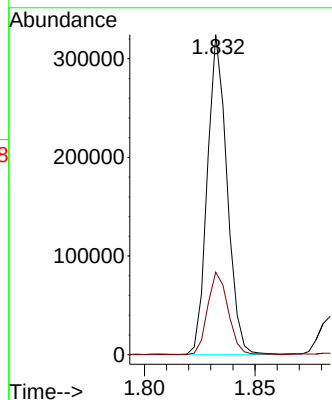
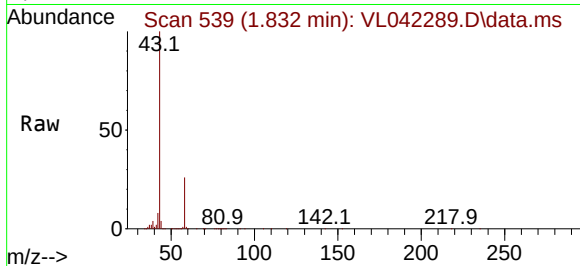




#15
Acetone
Concen: 8.915 ppbv
RT: 1.832 min Scan# 51
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

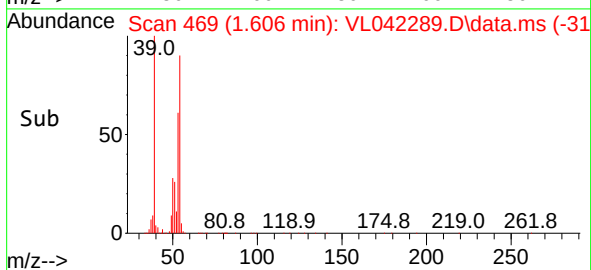
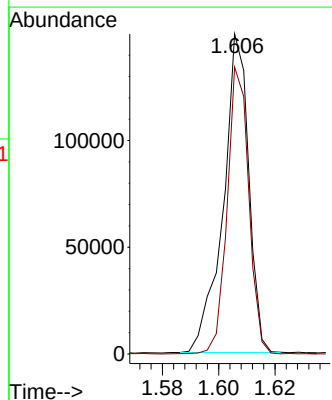
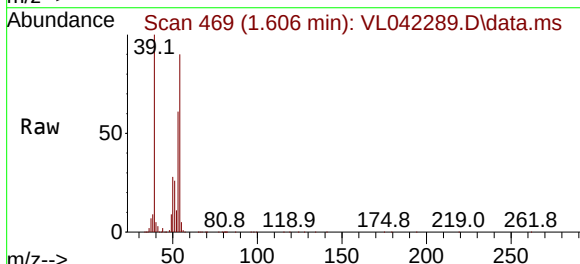
Instrument :
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ClientSampleId :
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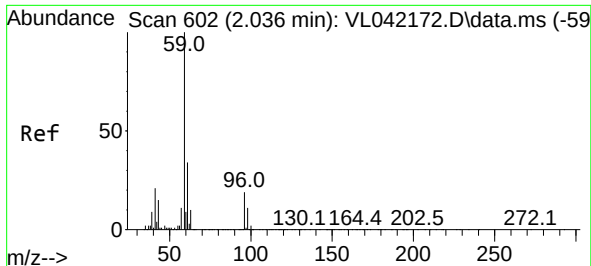
Tgt Ion: 43 Resp: 200151
Ion Ratio Lower Upper
43 100
58 27.1 23.2 34.8



#16
1,3-Butadiene
Concen: 8.569 ppbv
RT: 1.606 min Scan# 469
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 39 Resp: 93954
Ion Ratio Lower Upper
39 100
54 76.4 60.7 91.1

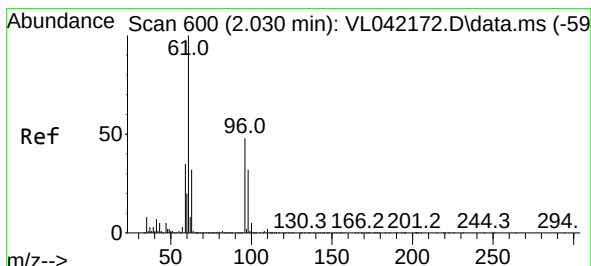
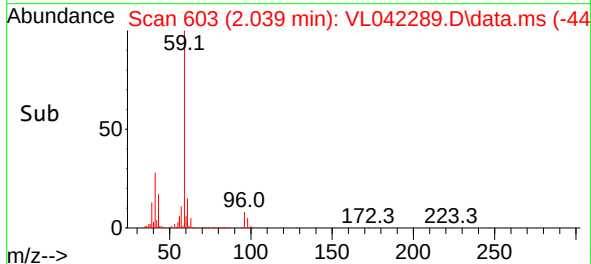
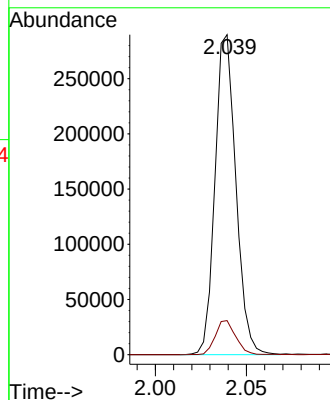
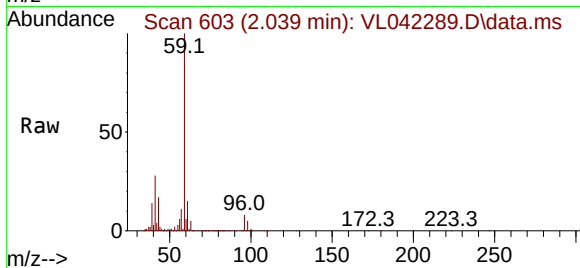




#17
tert-Butyl alcohol
Concen: 8.271 ppbv
RT: 2.039 min Scan# 60
Delta R.T. 0.003 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

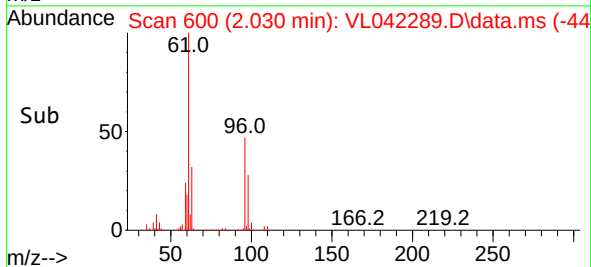
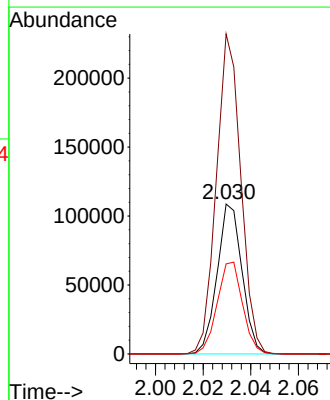
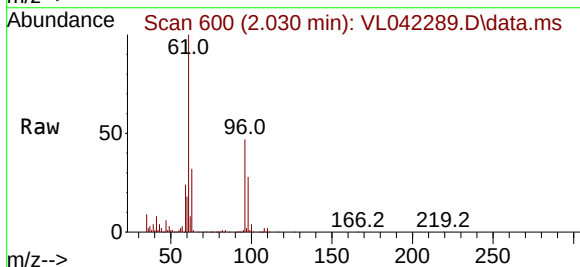
Instrument :
MSVOA_L
ClientSampleId :
VL0409ABS02

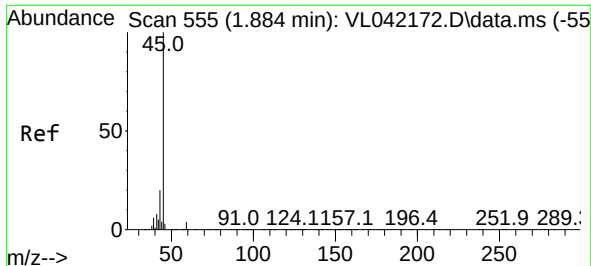
Tgt Ion: 59 Resp: 231293
Ion Ratio Lower Upper
59 100
57 10.5 8.9 13.3



#18
1,1-Dichloroethene
Concen: 8.912 ppbv
RT: 2.030 min Scan# 600
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 96 Resp: 78979
Ion Ratio Lower Upper
96 100
61 213.3 167.6 251.4
98 60.0 53.5 80.3

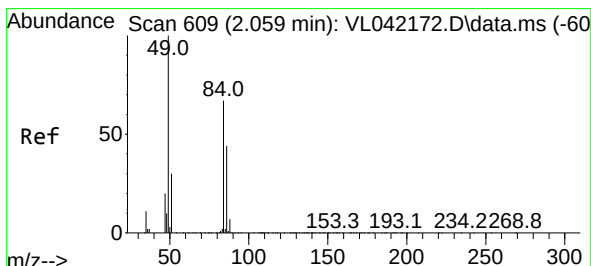
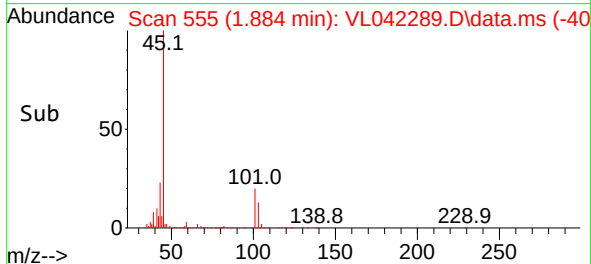
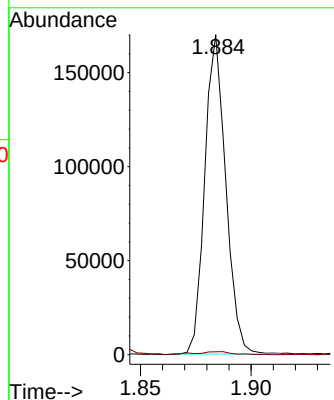
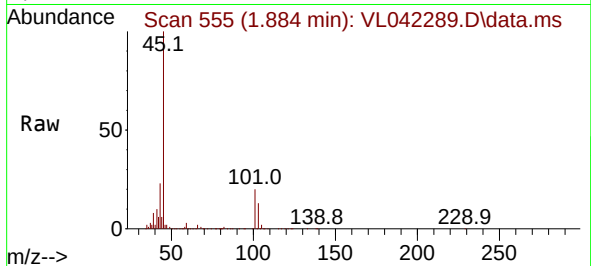




#19
Isopropyl Alcohol
Concen: 8.835 ppbv
RT: 1.884 min Scan# 511
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

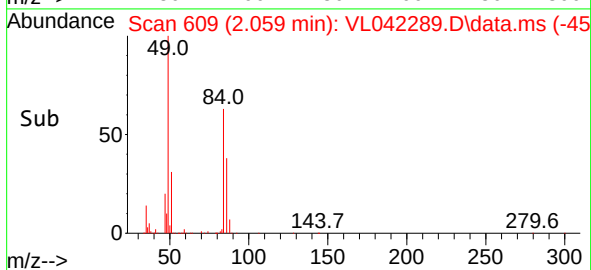
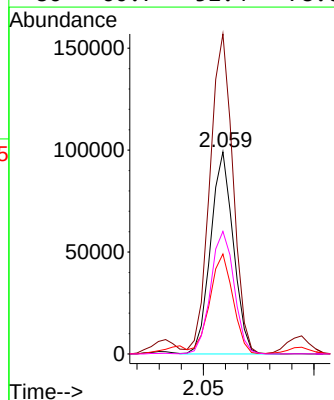
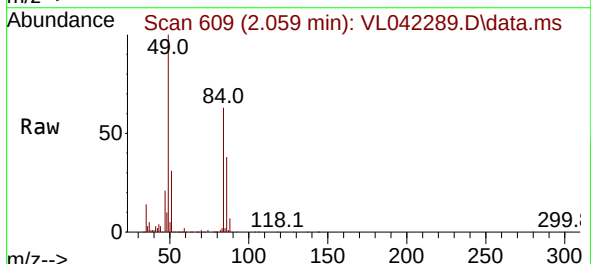
Instrument :
MSVOA_1
ClientSampleId :
VL0409ABS02

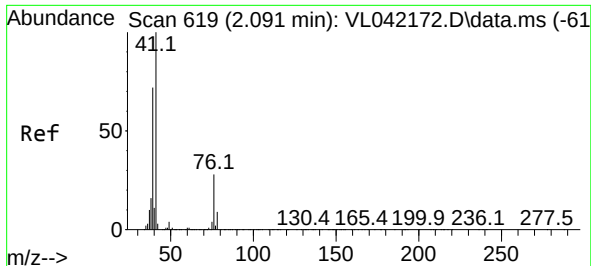
Tgt Ion: 45 Resp: 111918
Ion Ratio Lower Upper
45 100
58 48.5 36.9 55.3



#20
Methylene Chloride
Concen: 8.444 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 84 Resp: 70611
Ion Ratio Lower Upper
84 100
49 156.0 120.2 180.4
51 48.6 37.4 56.0
86 60.7 52.4 78.6

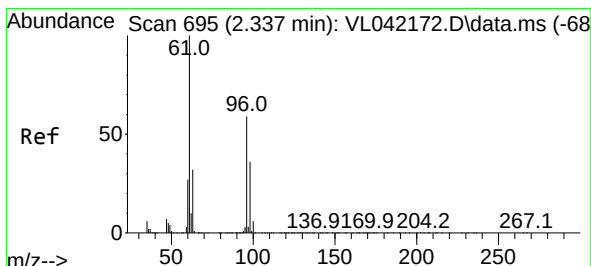
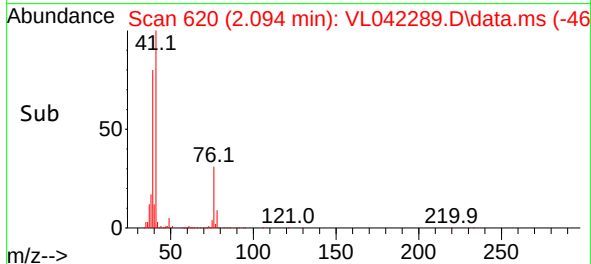
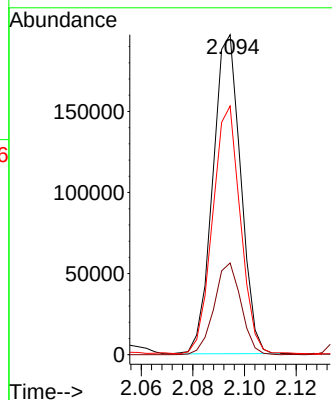
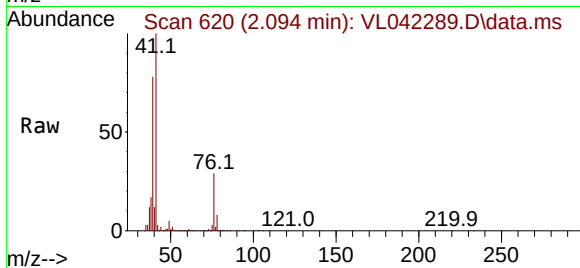




#21
 Allyl Chloride
 Concen: 9.308 ppbv
 RT: 2.094 min Scan# 619
 Delta R.T. 0.003 min
 Lab File: VL042289.D
 Acq: 09 Apr 2025 12:31

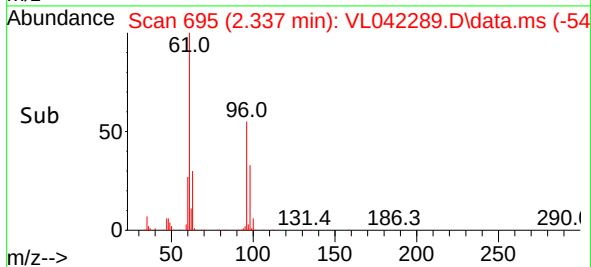
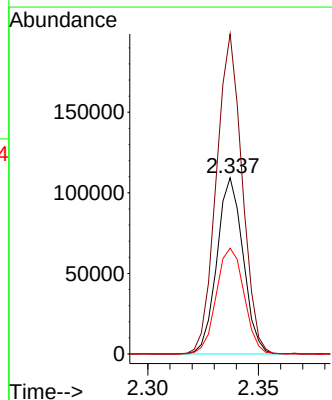
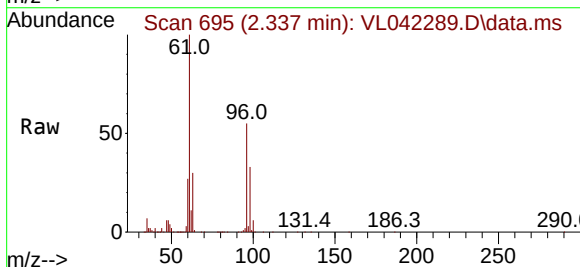
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0409ABS02

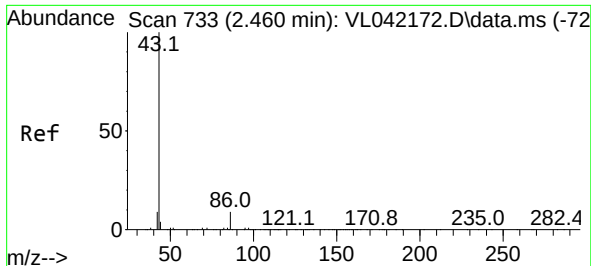
Tgt Ion: 41 Resp: 147389
 Ion Ratio Lower Upper
 41 100
 76 27.7 24.1 36.1
 39 77.7 61.1 91.7



#22
 trans-1,2-Dichloroethene
 Concen: 8.775 ppbv
 RT: 2.337 min Scan# 695
 Delta R.T. -0.000 min
 Lab File: VL042289.D
 Acq: 09 Apr 2025 12:31

Tgt Ion: 96 Resp: 89877
 Ion Ratio Lower Upper
 96 100
 61 181.6 136.6 204.8
 98 60.0 49.4 74.2

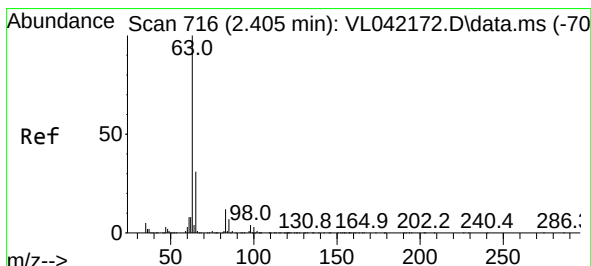
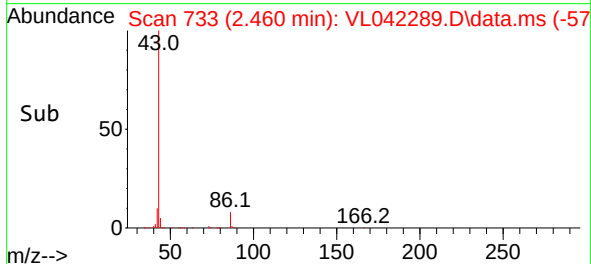
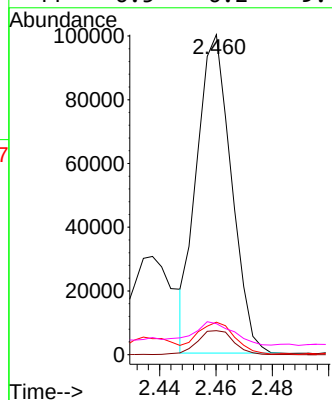
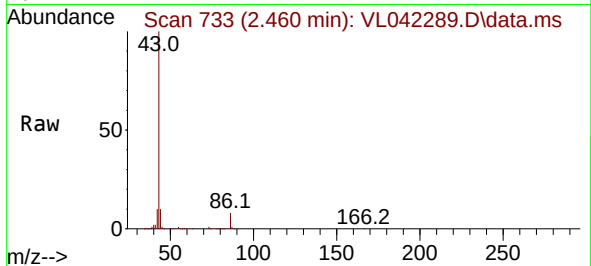




#23
 Vinyl Acetate
 Concen: 8.750 ppbv
 RT: 2.460 min Scan# 716
 Delta R.T. -0.000 min
 Lab File: VL042289.D
 Acq: 09 Apr 2025 12:31

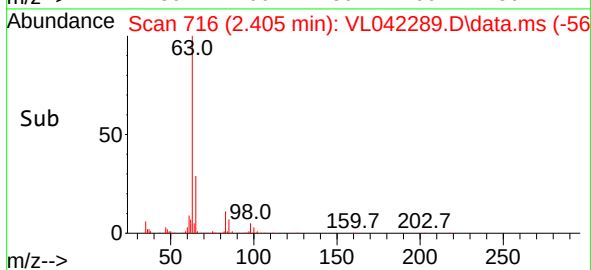
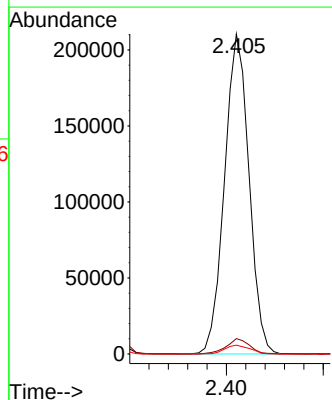
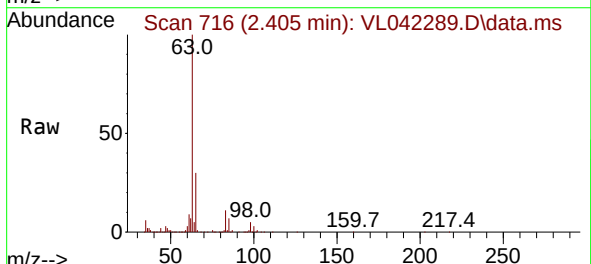
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0409ABS02

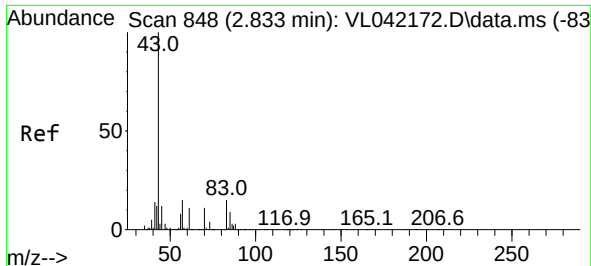
Tgt Ion:	43	Resp:	85028
Ion	Ratio	Lower	Upper
43	100		
86	7.5	5.5	8.3
42	9.9	8.6	13.0
44	6.5	6.2	9.4



#24
 1,1-Dichloroethane
 Concen: 9.733 ppbv
 RT: 2.405 min Scan# 716
 Delta R.T. -0.000 min
 Lab File: VL042289.D
 Acq: 09 Apr 2025 12:31

Tgt Ion:	63	Resp:	184801
Ion	Ratio	Lower	Upper
63	100		
98	4.8	2.3	6.8
100	2.8	1.6	4.7

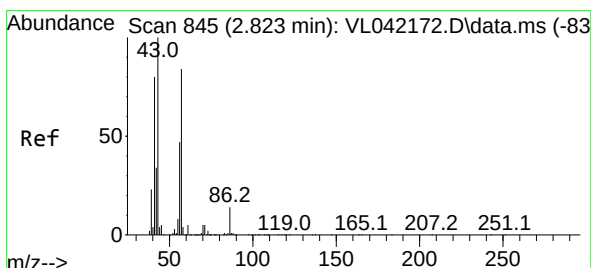
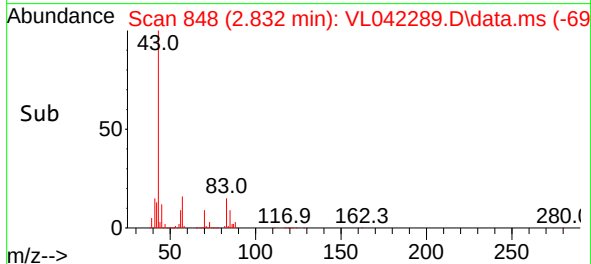
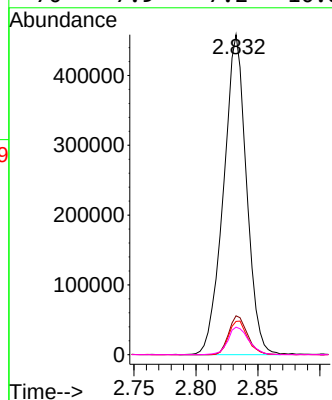
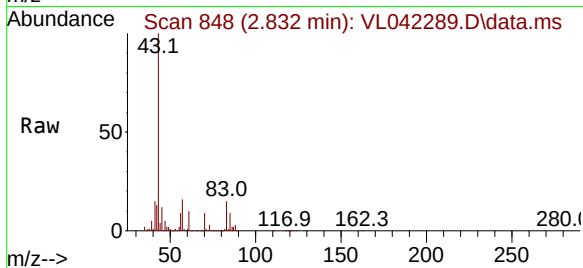




#25
Ethyl Acetate
Concen: 10.137 ppbv
RT: 2.832 min Scan# 84
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

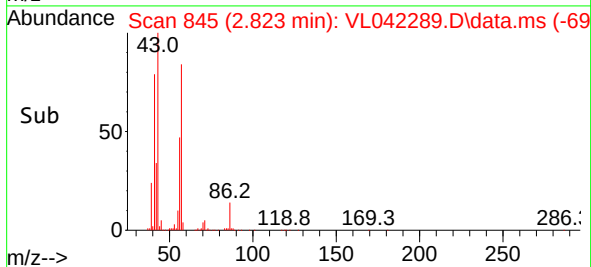
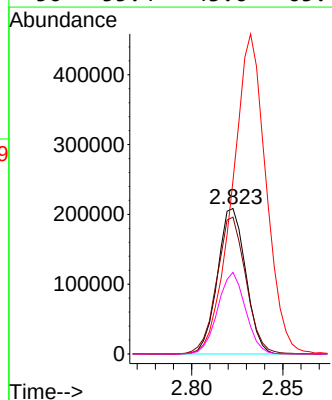
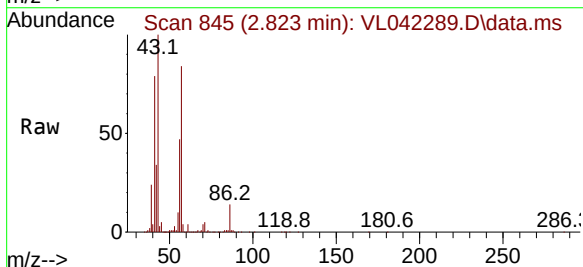
Instrument :
MSVOA_L
ClientSampleId :
VL0409ABS02

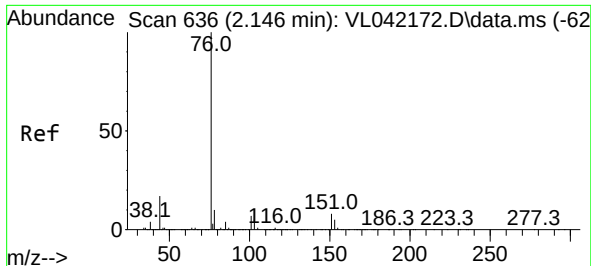
Tgt Ion: 43	Resp: 590692
Ion Ratio	Lower Upper
43 100	
45 10.0	8.2 12.2
61 8.7	7.3 10.9
70 7.9	7.2 10.8



#26
Hexane
Concen: 9.943 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 57	Resp: 223800
Ion Ratio	Lower Upper
57 100	
41 97.7	76.6 114.8
43 264.7	207.8 311.8
56 55.4	43.6 65.4

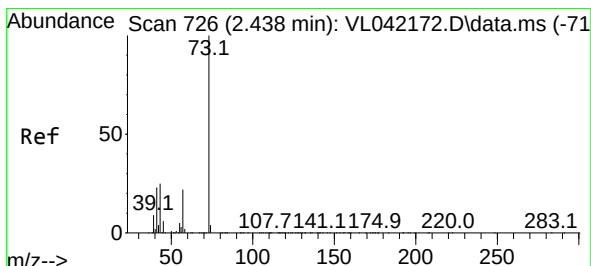
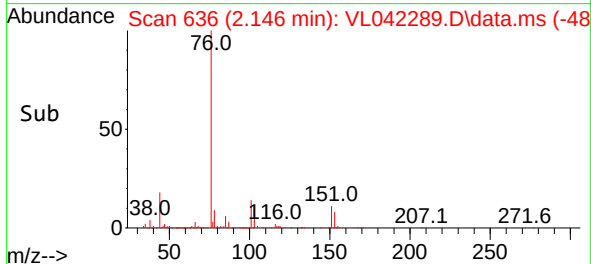
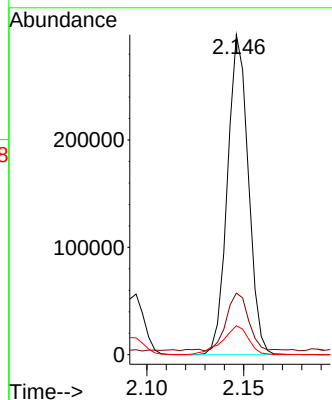
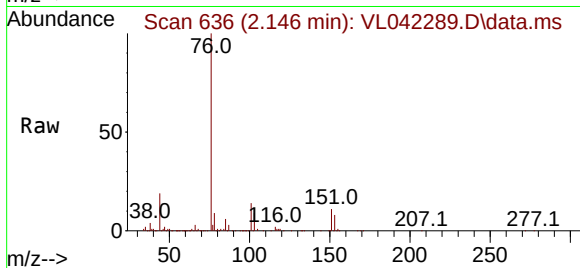




#27
Carbon Disulfide
Concen: 9.267 ppbv
RT: 2.146 min Scan# 611
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

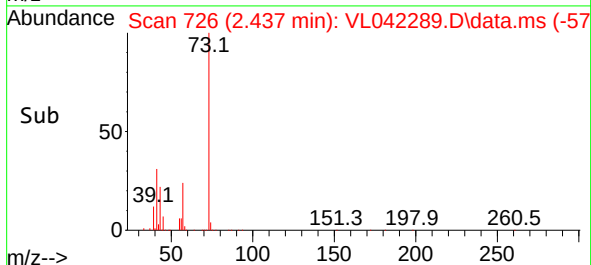
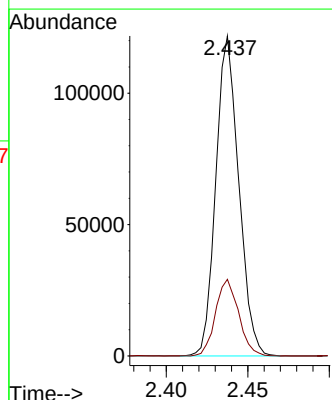
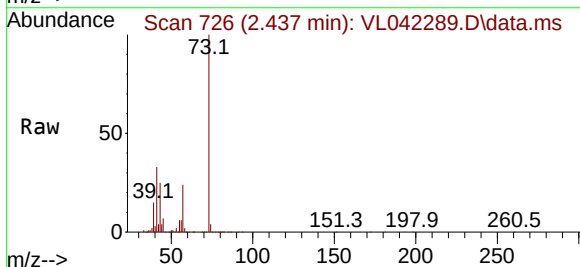
Instrument :
MSVOA_1
ClientSampleId :
VL0409ABS02

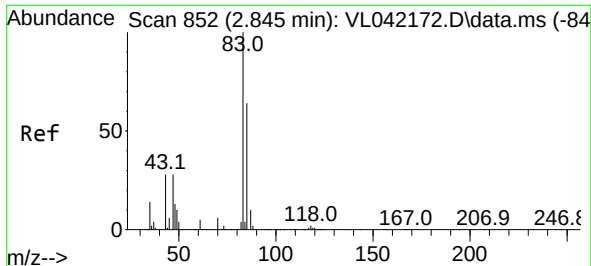
Tgt Ion: 76 Resp: 223675
Ion Ratio Lower Upper
76 100
44 19.6 14.7 22.1
78 11.3 9.3 13.9



#28
Methyl tert-Butyl Ether
Concen: 8.494 ppbv
RT: 2.437 min Scan# 726
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 73 Resp: 119034
Ion Ratio Lower Upper
73 100
57 24.2 20.5 30.7





#29

Chloroform

Concen: 10.353 ppbv

RT: 2.845 min Scan# 81

Delta R.T. -0.000 min

Lab File: VL042289.D

Acq: 09 Apr 2025 12:31

Instrument :

MSVOA_L

ClientSampleId :

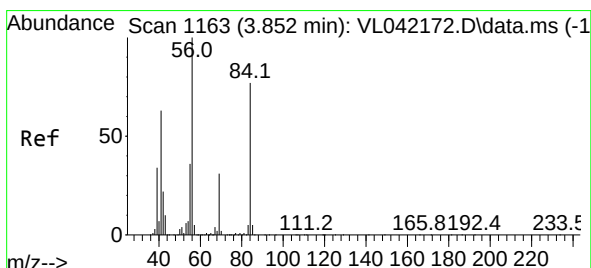
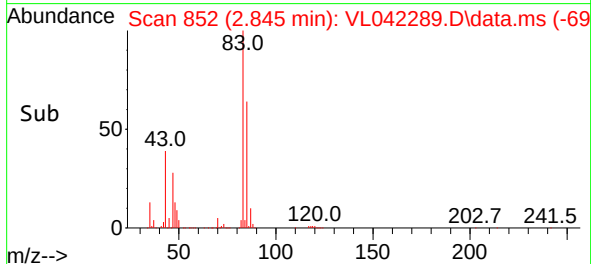
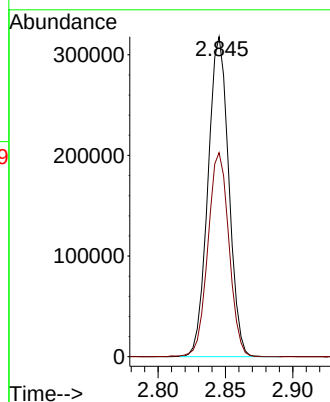
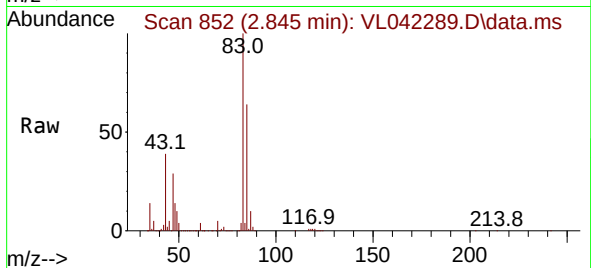
VL0409ABS02

Tgt Ion: 83 Resp: 341042

Ion Ratio Lower Upper

83 100

85 63.8 51.4 77.2



#30

Cyclohexane

Concen: 9.357 ppbv

RT: 3.852 min Scan# 1163

Delta R.T. -0.000 min

Lab File: VL042289.D

Acq: 09 Apr 2025 12:31

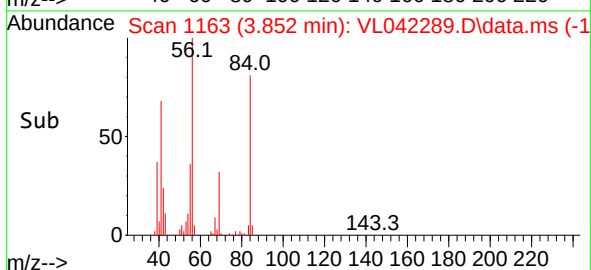
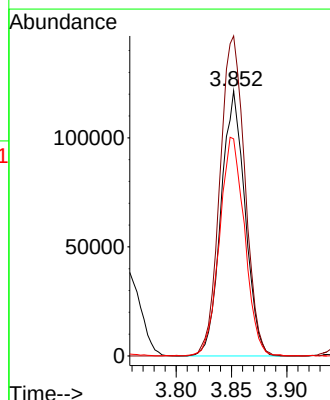
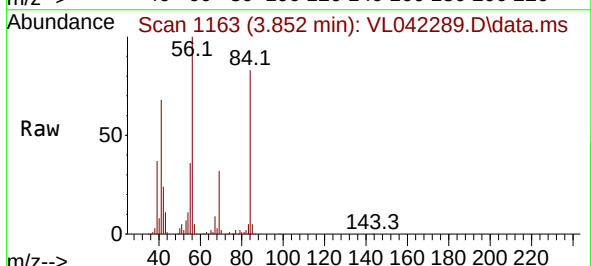
Tgt Ion: 84 Resp: 182880

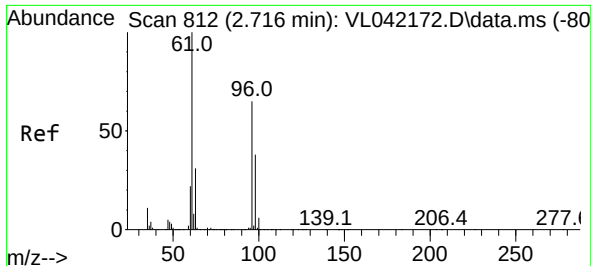
Ion Ratio Lower Upper

84 100

56 125.8 102.8 154.2

41 86.5 66.5 99.7

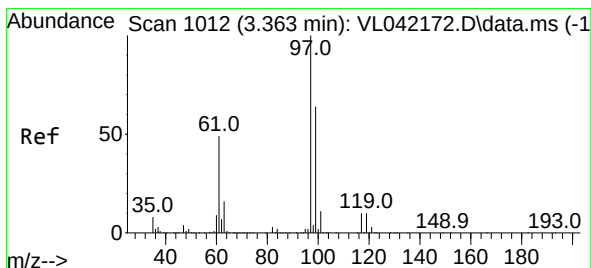
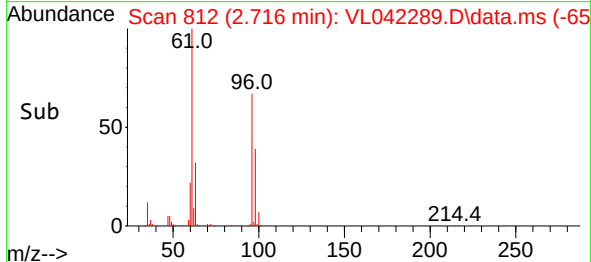
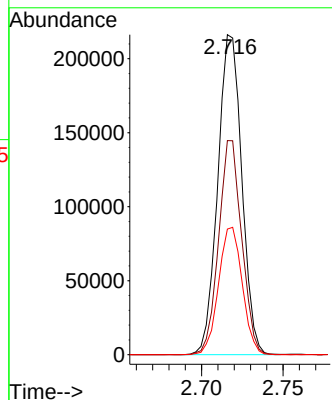
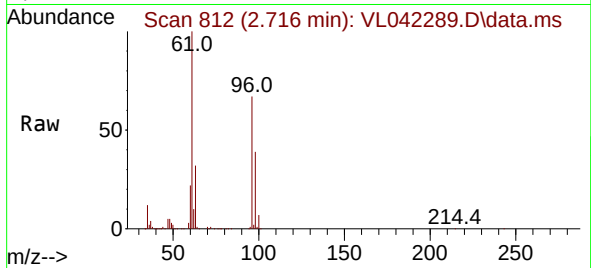




#31
 cis-1,2-Dichloroethene
 Concen: 9.710 ppbv
 RT: 2.716 min Scan# 812
 Delta R.T. -0.000 min
 Lab File: VL042289.D
 Acq: 09 Apr 2025 12:31

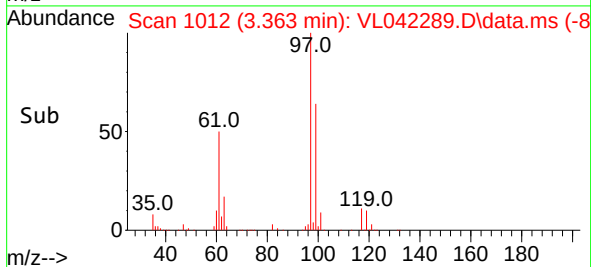
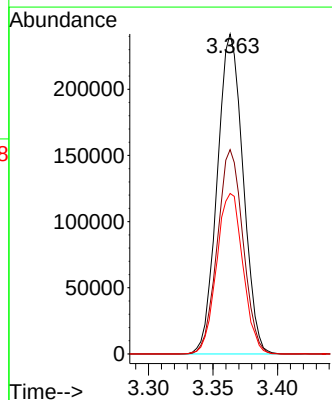
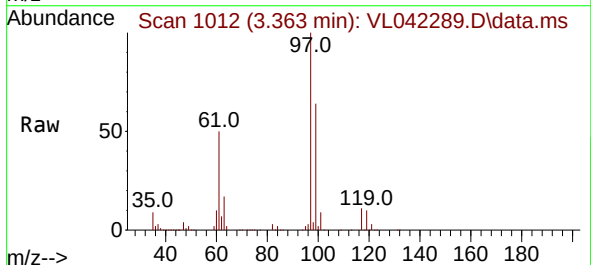
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0409ABS02

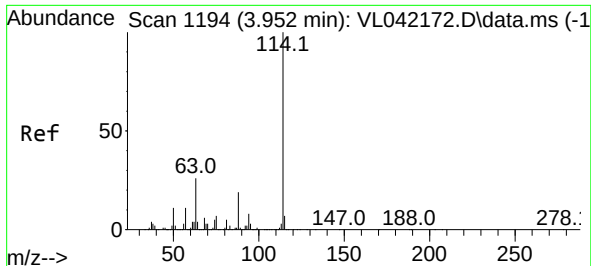
Tgt Ion: 61 Resp: 221881
 Ion Ratio Lower Upper
 61 100
 96 66.9 51.8 77.8
 98 39.2 30.6 46.0



#32
 1,1,1-Trichloroethane
 Concen: 8.923 ppbv
 RT: 3.363 min Scan# 1012
 Delta R.T. -0.000 min
 Lab File: VL042289.D
 Acq: 09 Apr 2025 12:31

Tgt Ion: 97 Resp: 336493
 Ion Ratio Lower Upper
 97 100
 99 63.4 51.5 77.3
 61 51.2 38.7 58.1





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.952 min Scan# 1194

Delta R.T. -0.000 min

Lab File: VL042289.D

Acq: 09 Apr 2025 12:31

Instrument :

MSVOA_L

ClientSampleId :

VL0409ABS02

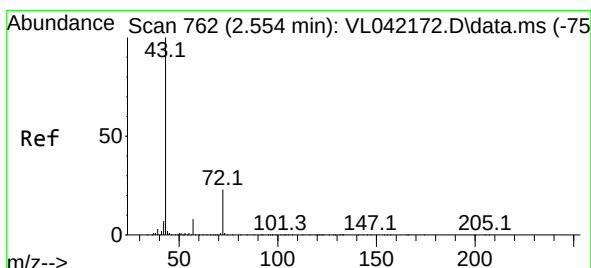
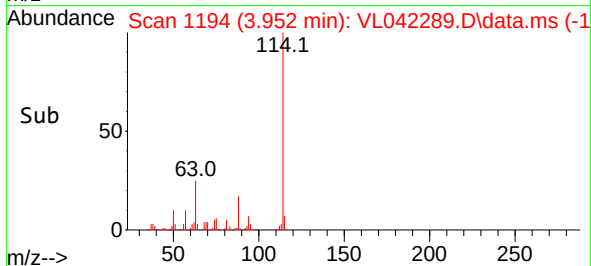
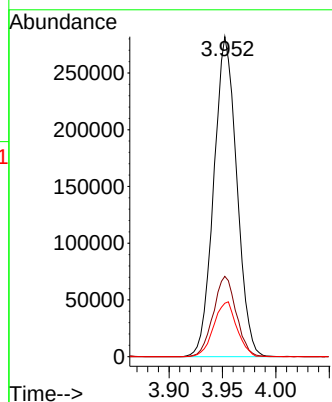
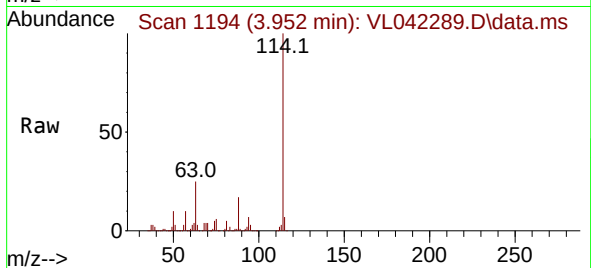
Tgt Ion:114 Resp: 421845

Ion Ratio Lower Upper

114 100

63 25.2 20.7 31.1

88 17.3 15.0 22.4



#34

2-Butanone

Concen: 10.940 ppbv

RT: 2.554 min Scan# 762

Delta R.T. -0.000 min

Lab File: VL042289.D

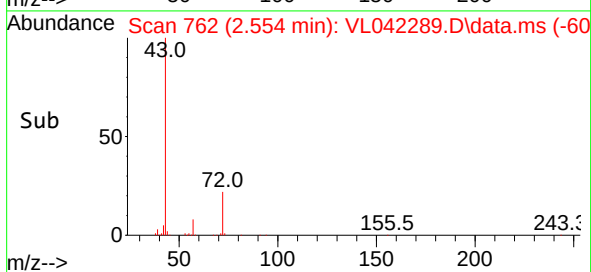
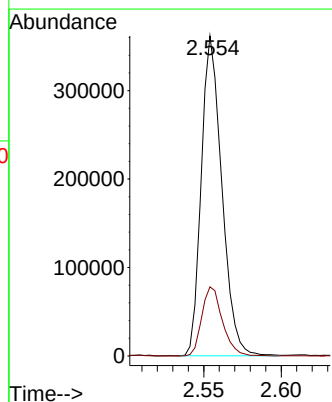
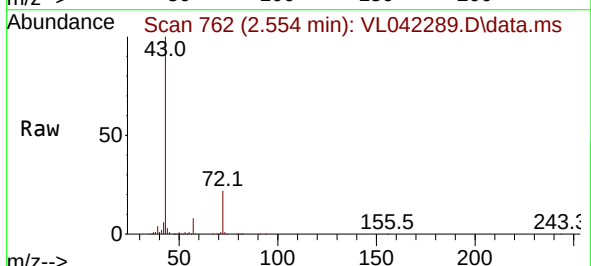
Acq: 09 Apr 2025 12:31

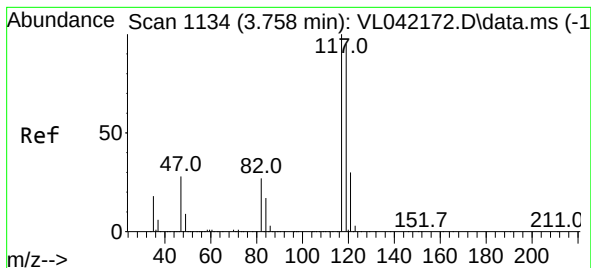
Tgt Ion: 43 Resp: 334636

Ion Ratio Lower Upper

43 100

72 21.7 18.2 27.2





#35

Carbon Tetrachloride

Concen: 10.420 ppbv

RT: 3.758 min Scan# 1134

Delta R.T. -0.000 min

Lab File: VL042289.D

Acq: 09 Apr 2025 12:31

Instrument :

MSVOA_L

ClientSampleId :

VL0409ABS02

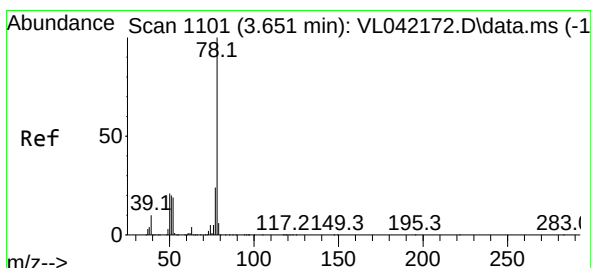
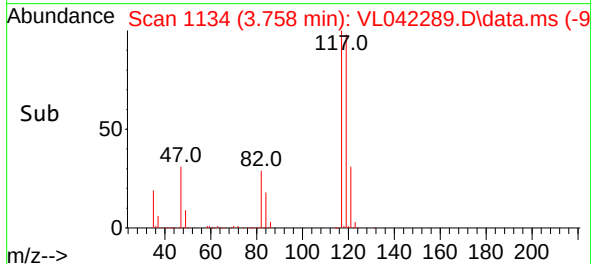
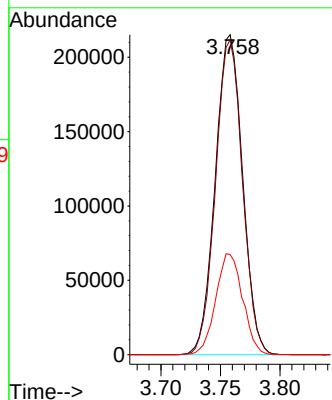
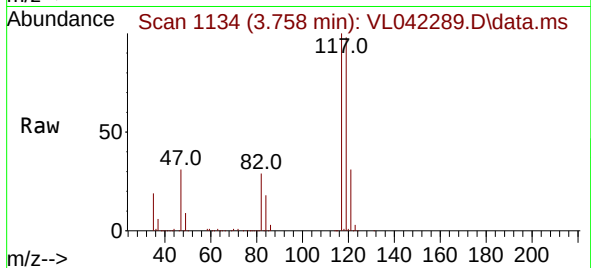
Tgt Ion:117 Resp: 343376

Ion Ratio Lower Upper

117 100

119 98.4 76.2 114.2

121 31.3 24.2 36.4



#36

Benzene

Concen: 10.586 ppbv

RT: 3.651 min Scan# 1101

Delta R.T. -0.000 min

Lab File: VL042289.D

Acq: 09 Apr 2025 12:31

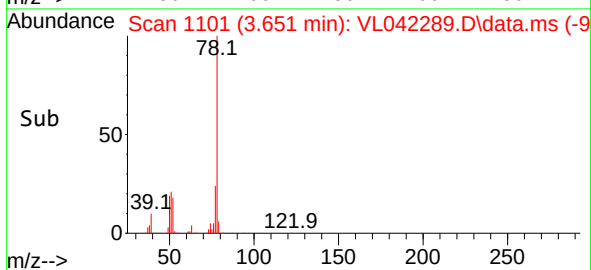
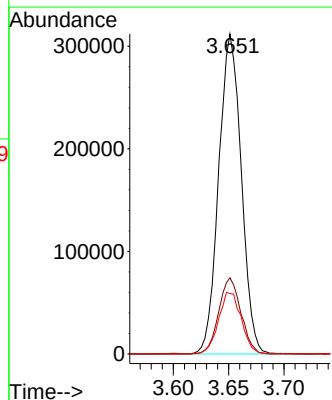
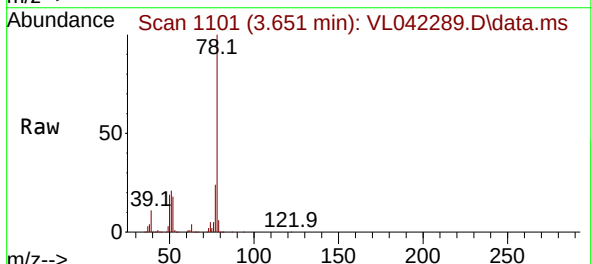
Tgt Ion: 78 Resp: 442736

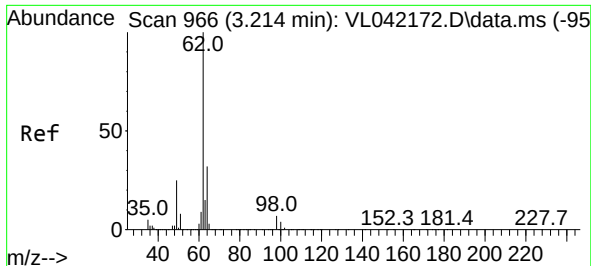
Ion Ratio Lower Upper

78 100

77 23.7 19.1 28.7

50 18.9 16.6 24.8

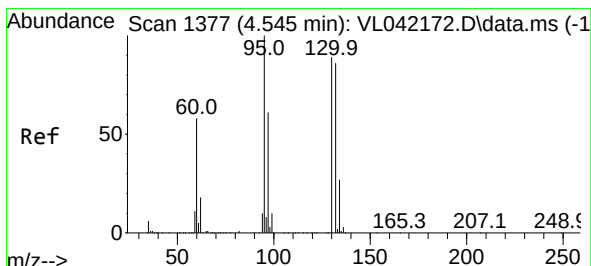
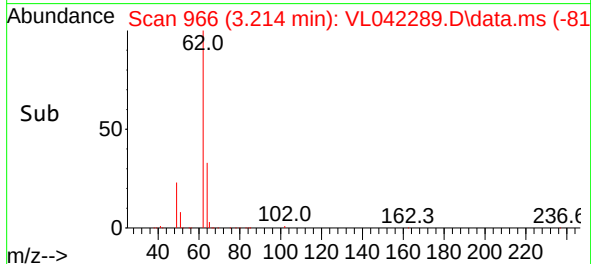
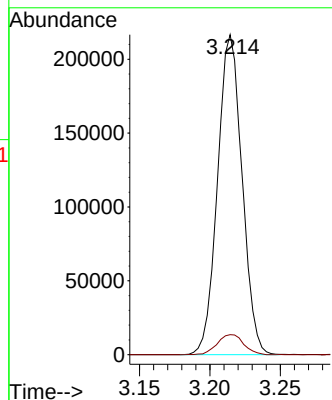
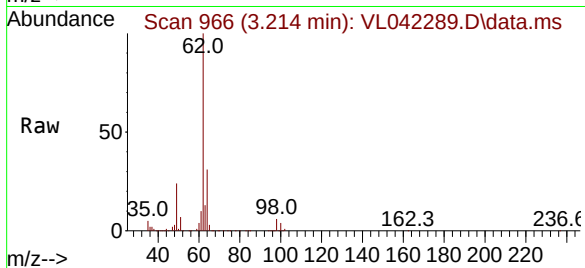




#37
1,2-Dichloroethane
Concen: 10.965 ppbv
RT: 3.214 min Scan# 966
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

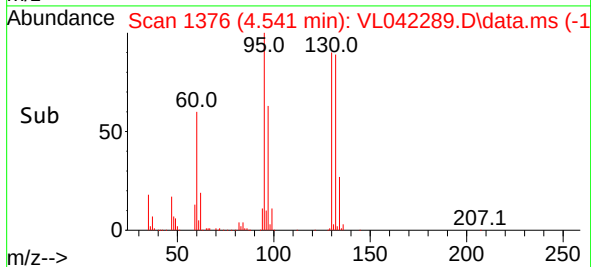
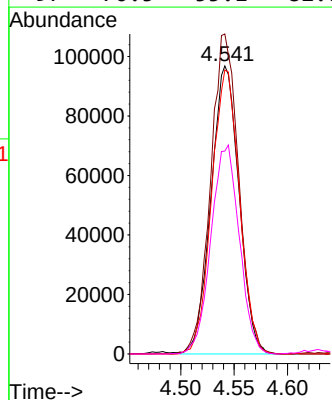
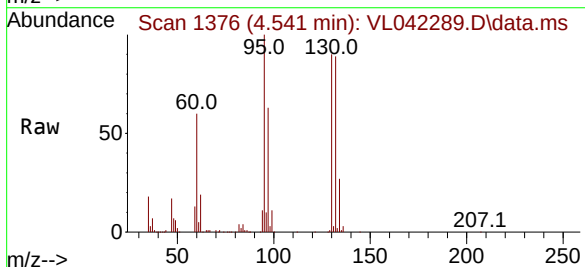
Instrument :
MSVOA_1
ClientSampleId :
VL0409ABS02

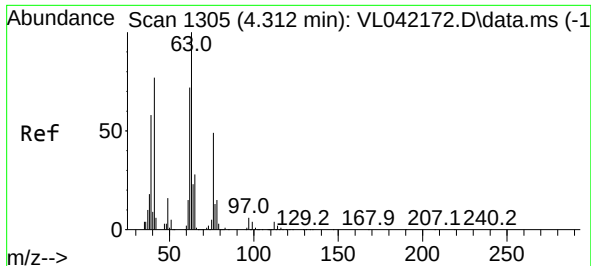
Tgt Ion: 62 Resp: 262528
Ion Ratio Lower Upper
62 100
98 6.8 5.4 8.2



#38
Trichloroethene
Concen: 10.111 ppbv
RT: 4.541 min Scan# 1376
Delta R.T. -0.003 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion:130 Resp: 176435
Ion Ratio Lower Upper
130 100
95 111.1 89.8 134.8
132 98.6 77.4 116.2
97 70.5 55.1 82.7





#39

1,2-Dichloropropane

Concen: 10.578 ppbv

RT: 4.308 min Scan# 1

Delta R.T. -0.003 min

Lab File: VL042289.D

Acq: 09 Apr 2025 12:31

Instrument :

MSVOA_L

ClientSampleId :

VL0409ABS02

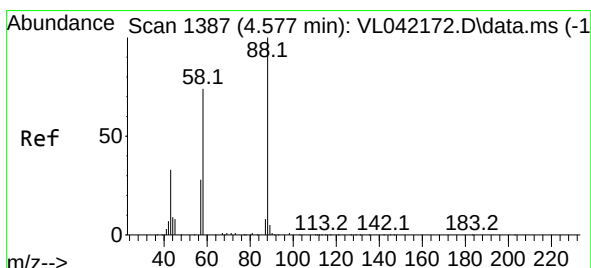
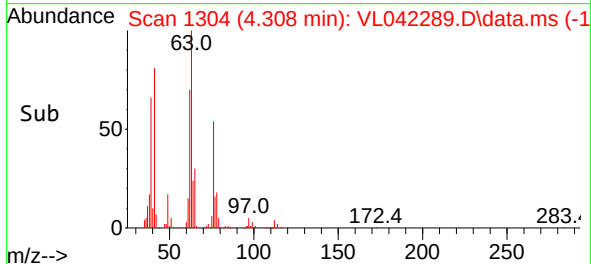
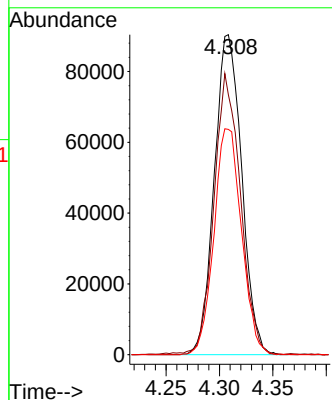
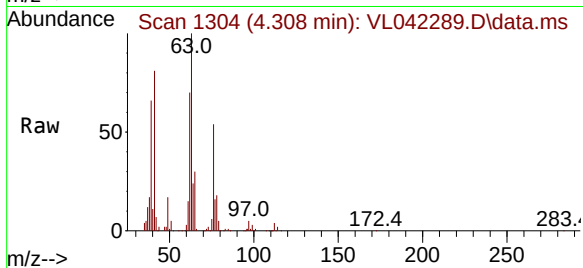
Tgt Ion: 63 Resp: 161101

Ion Ratio Lower Upper

63 100

41 81.1 61.7 92.5

62 70.4 57.6 86.4



#40

1,4-Dioxane

Concen: 9.441 ppbv

RT: 4.574 min Scan# 1386

Delta R.T. -0.003 min

Lab File: VL042289.D

Acq: 09 Apr 2025 12:31

Tgt Ion: 88 Resp: 76321

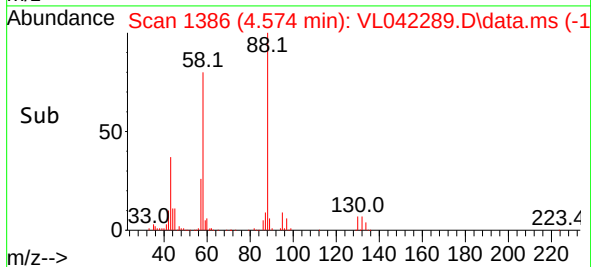
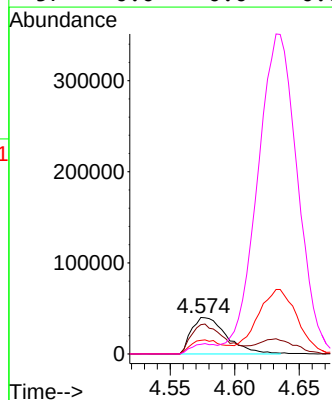
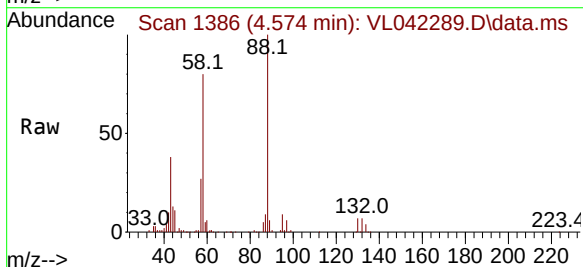
Ion Ratio Lower Upper

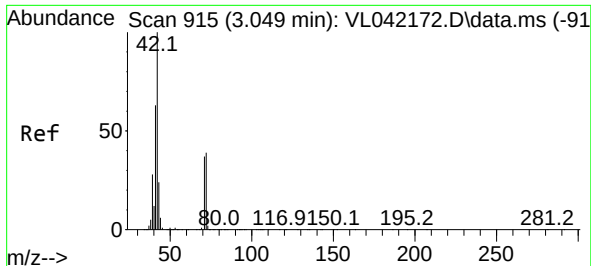
88 100

58 80.1 62.7 94.1

43 32.6 23.0 34.4

57 0.0 0.0 0.0

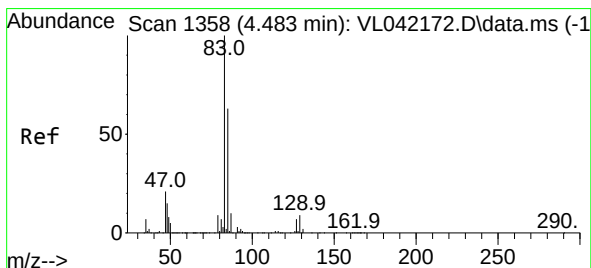
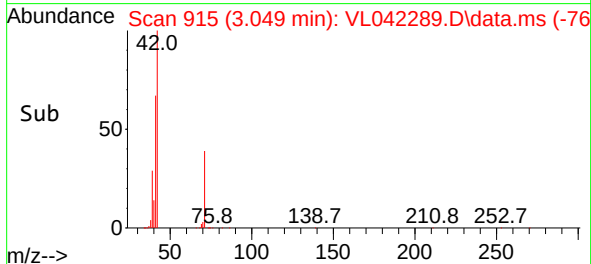
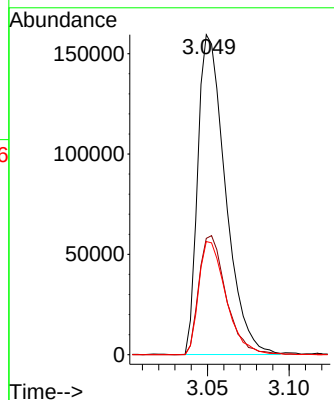
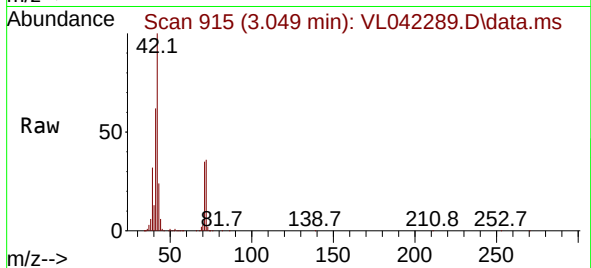




#41
Tetrahydrofuran
Concen: 10.661 ppbv
RT: 3.049 min Scan# 915
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

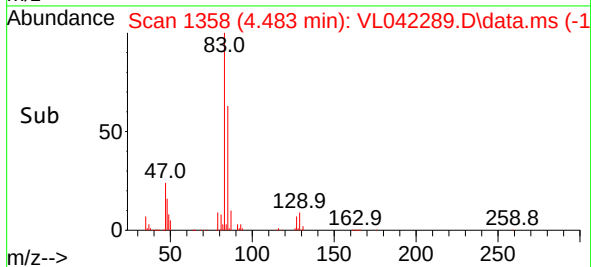
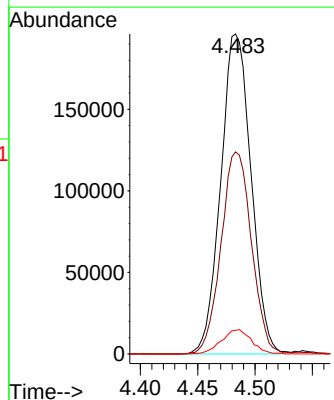
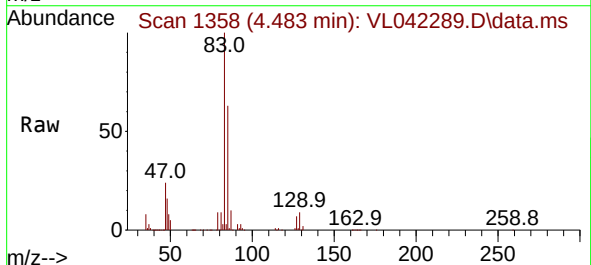
Instrument :
MSVOA_L
ClientSampleId :
VL0409ABS02

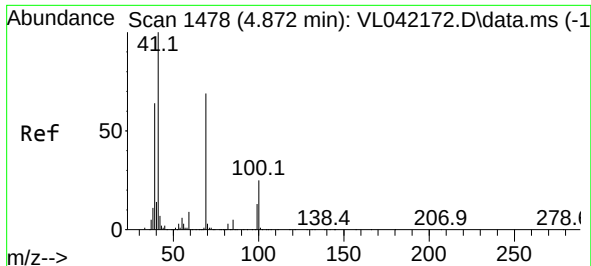
Tgt Ion: 42 Resp: 187790
Ion Ratio Lower Upper
42 100
72 36.8 31.4 47.0
71 35.0 30.2 45.4



#42
Bromodichloromethane
Concen: 10.927 ppbv
RT: 4.483 min Scan# 1358
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 83 Resp: 360662
Ion Ratio Lower Upper
83 100
85 63.1 50.5 75.7
127 7.4 5.9 8.9

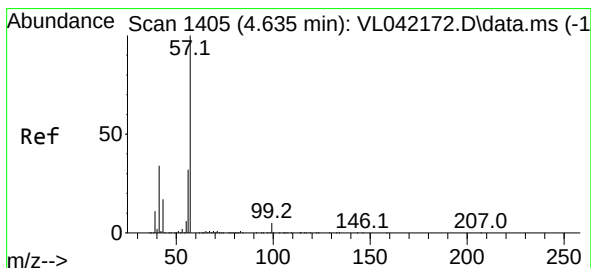
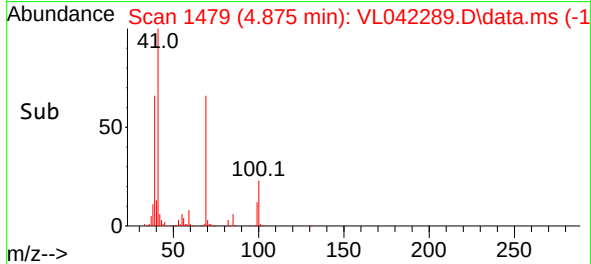
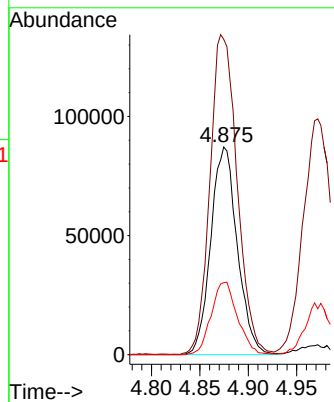
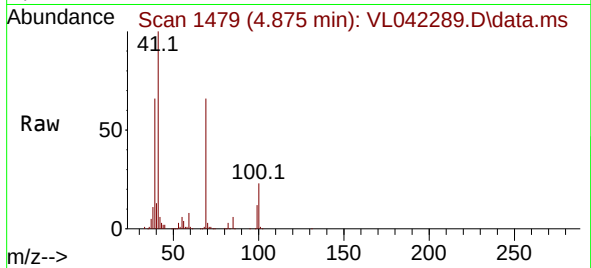




#43
Methyl Methacrylate
Concen: 9.375 ppbv
RT: 4.875 min Scan# 1478
Delta R.T. 0.003 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

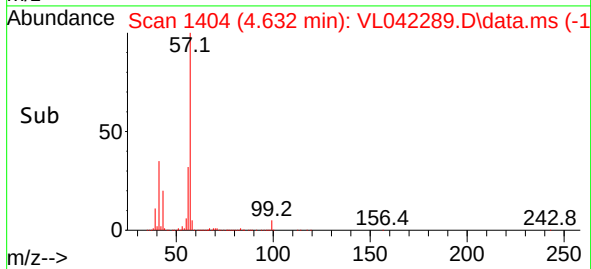
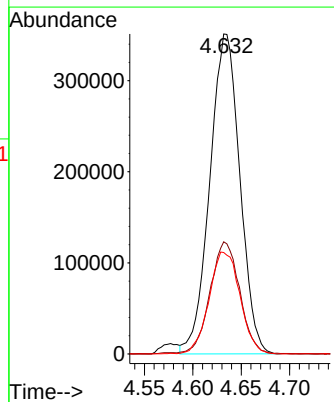
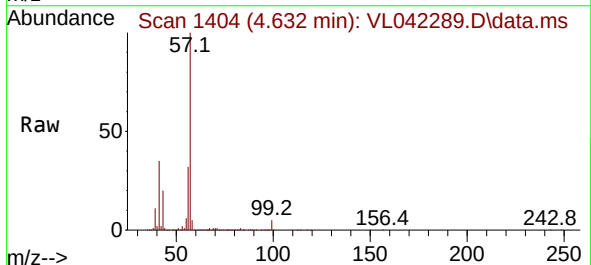
Instrument :
MSVOA_L
ClientSampleId :
VL0409ABS02

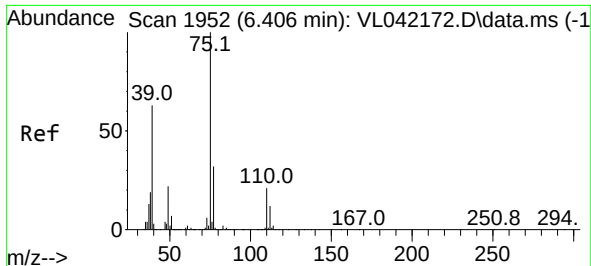
Tgt Ion: 69 Resp: 165984
Ion Ratio Lower Upper
69 100
41 157.7 123.8 185.6
100 34.7 28.4 42.6



#44
2,2,4-Trimethylpentane
Concen: 10.723 ppbv
RT: 4.632 min Scan# 1404
Delta R.T. -0.003 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 57 Resp: 757855
Ion Ratio Lower Upper
57 100
41 35.2 26.8 40.2
56 32.9 25.6 38.4

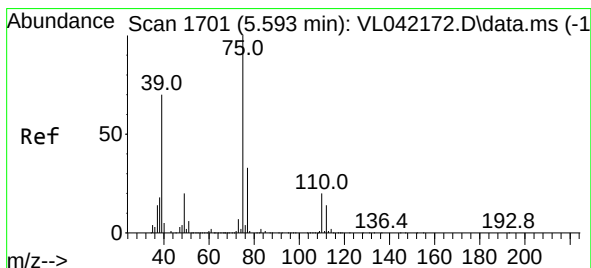
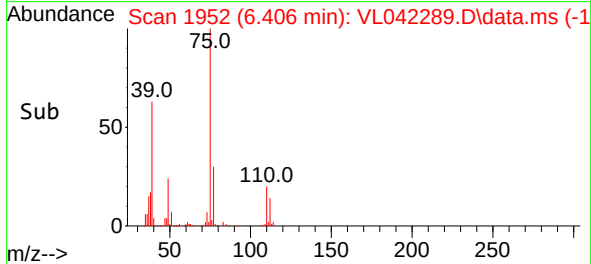
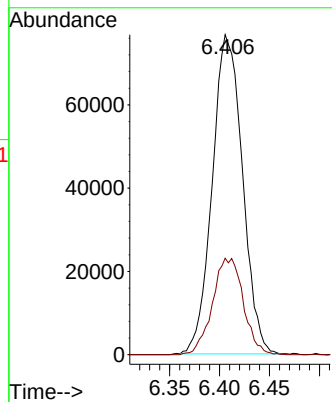
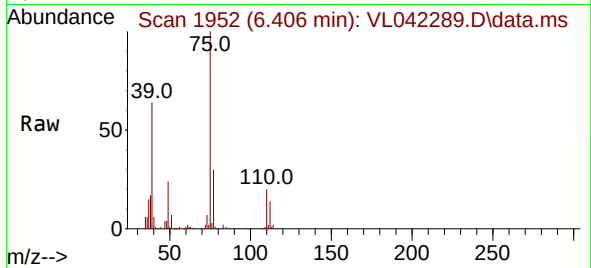




#45
t-1,3-Dichloropropene
Concen: 8.489 ppbv
RT: 6.406 min Scan# 1952
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

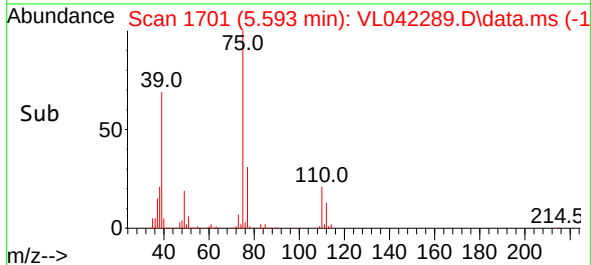
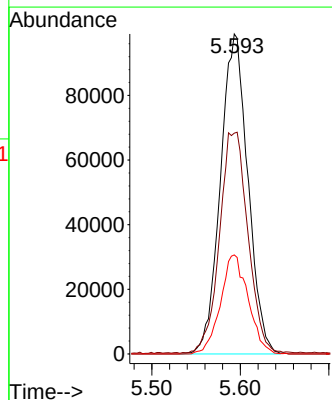
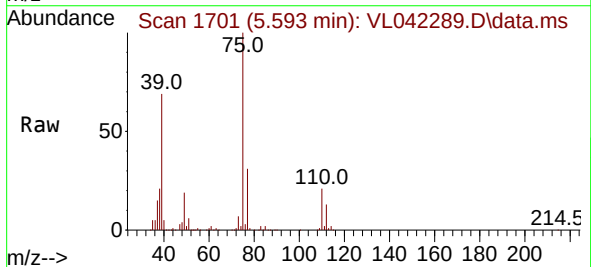
Instrument :
MSVOA_L
ClientSampleId :
VL0409ABS02

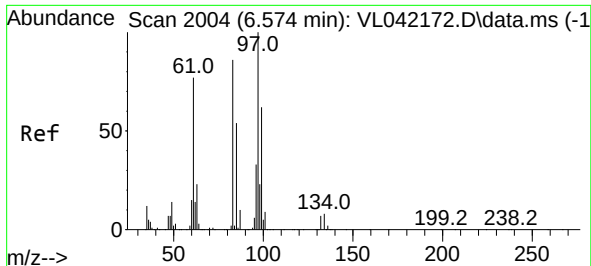
Tgt Ion: 75 Resp: 161245
Ion Ratio Lower Upper
75 100
77 30.2 26.0 39.0



#46
cis-1,3-Dichloropropene
Concen: 9.172 ppbv
RT: 5.593 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 75 Resp: 213566
Ion Ratio Lower Upper
75 100
39 68.8 55.8 83.6
77 30.9 26.0 39.0

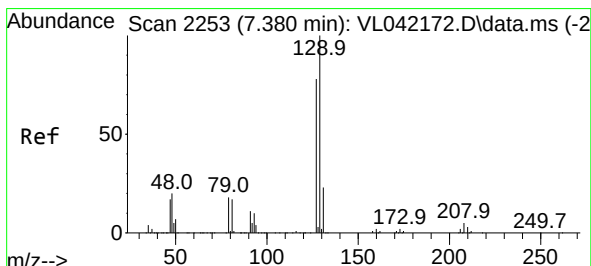
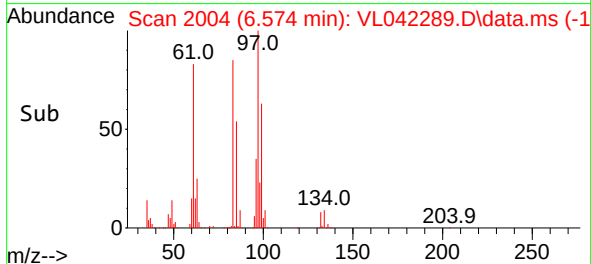
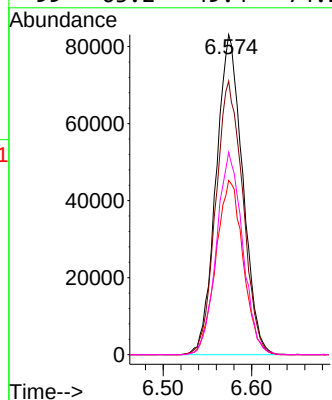
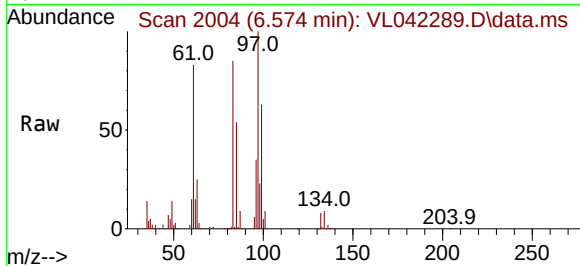




#47
1,1,2-Trichloroethane
Concen: 10.777 ppbv
RT: 6.574 min Scan# 2004
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

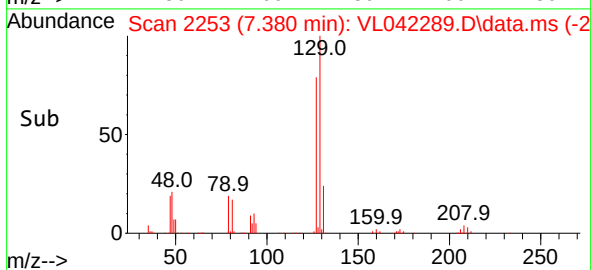
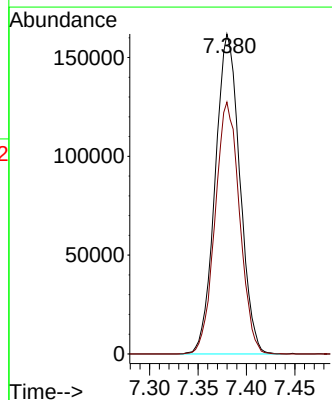
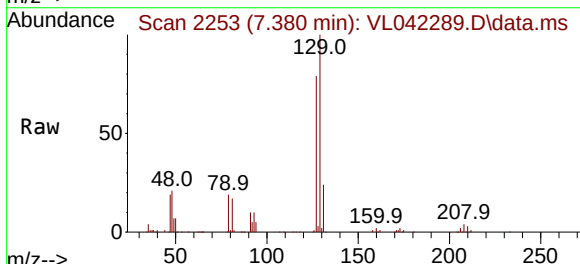
Instrument :
MSVOA_L
ClientSampleId :
VL0409ABS02

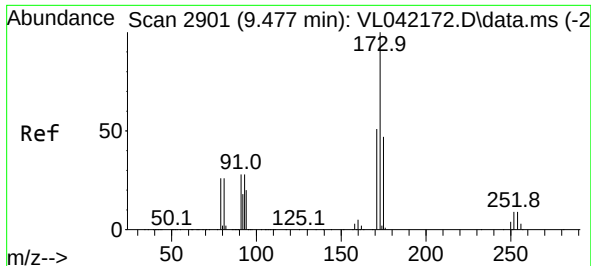
Tgt Ion: 97	Resp: 173506		
Ion	Ratio	Lower	Upper
97	100		
83	85.5	69.2	103.8
85	54.4	43.1	64.7
99	63.2	49.4	74.2



#48
Dibromochloromethane
Concen: 10.516 ppbv
RT: 7.380 min Scan# 2253
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion:129	Resp: 286938
Ion Ratio	Lower Upper
129 100	
127 78.2	39.1 117.2

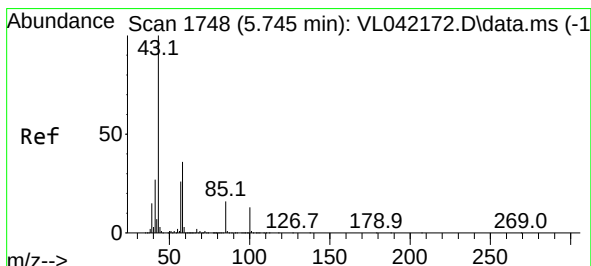
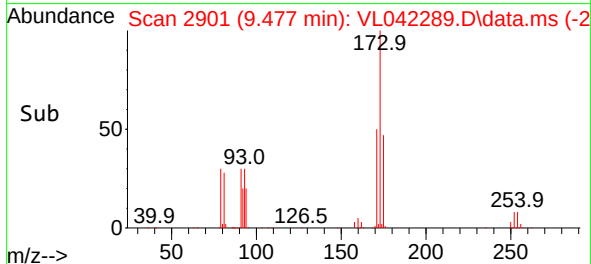
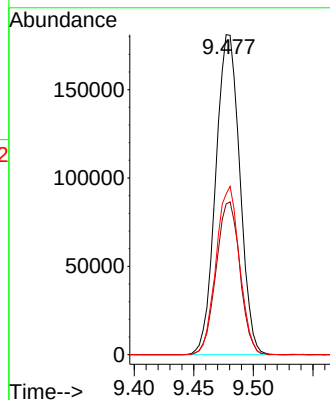
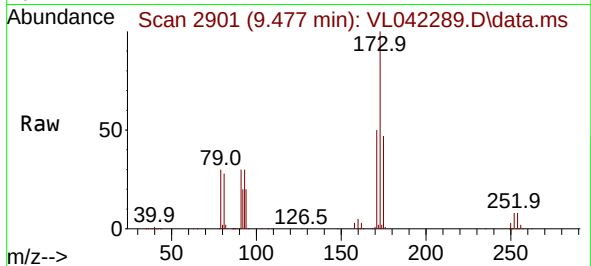




#49
Bromoform
Concen: 10.386 ppbv
RT: 9.477 min Scan# 2901
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

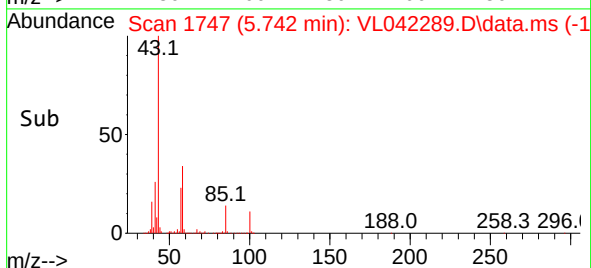
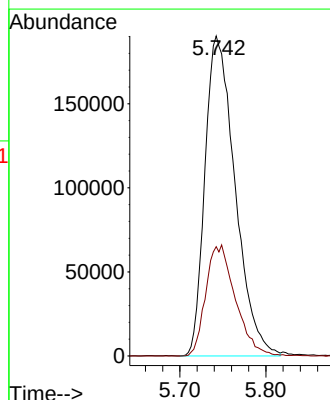
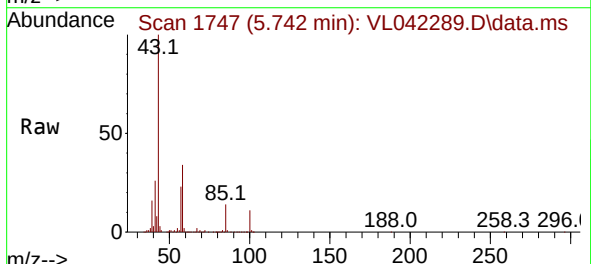
Instrument :
MSVOA_L
ClientSampleId :
VL0409ABS02

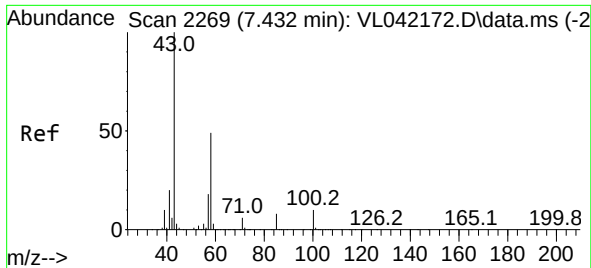
Tgt Ion:173 Resp: 254430
Ion Ratio Lower Upper
173 100
175 47.2 38.6 57.8
171 51.2 41.8 62.6



#50
4-Methyl-2-Pentanone
Concen: 9.552 ppbv
RT: 5.742 min Scan# 1747
Delta R.T. -0.003 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 43 Resp: 463069
Ion Ratio Lower Upper
43 100
58 34.2 29.0 43.6

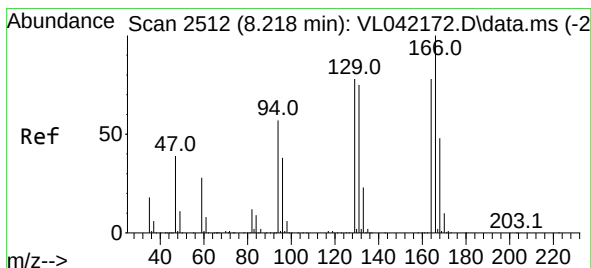
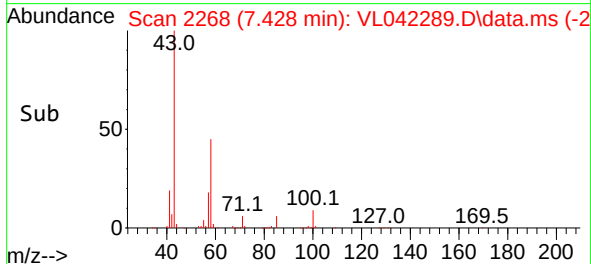
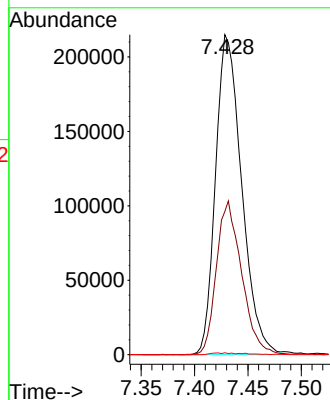
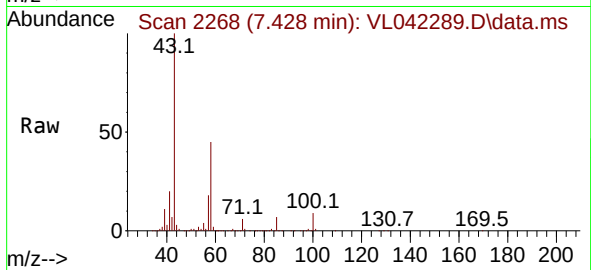




#51
2-Hexanone
Concen: 9.168 ppbv
RT: 7.428 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

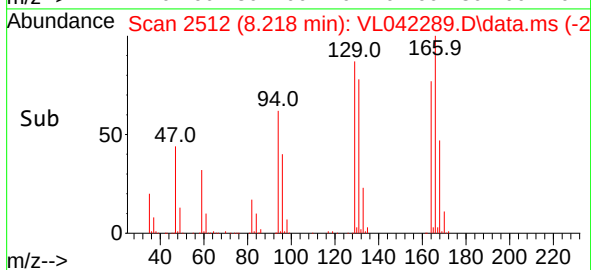
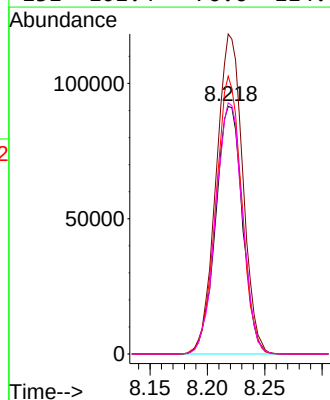
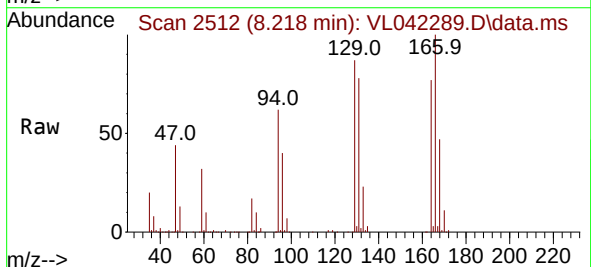
Instrument :
MSVOA_L
ClientSampleId :
VL0409ABS02

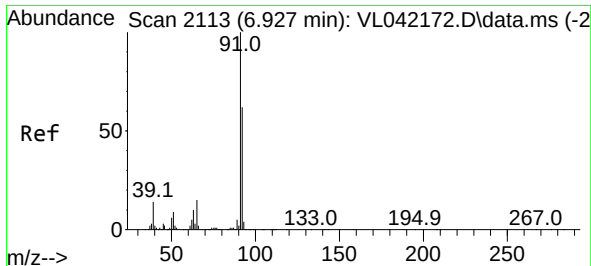
Tgt Ion: 43 Resp: 364946
Ion Ratio Lower Upper
43 100
58 46.5 39.7 59.5
98 0.8 0.1 0.1#



#52
Tetrachloroethene
Concen: 8.946 ppbv
RT: 8.218 min Scan# 2512
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 164 Resp: 148369
Ion Ratio Lower Upper
164 100
166 129.3 102.5 153.7
129 112.2 79.8 119.8
131 101.4 76.6 114.8

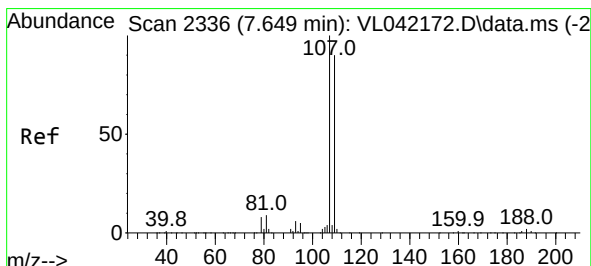
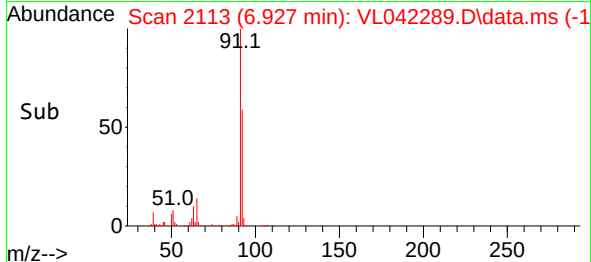
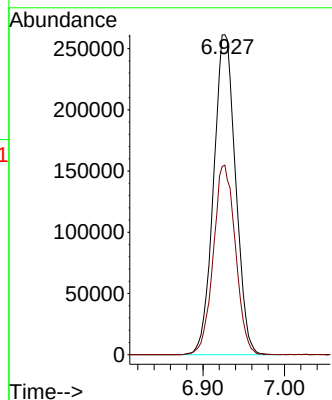
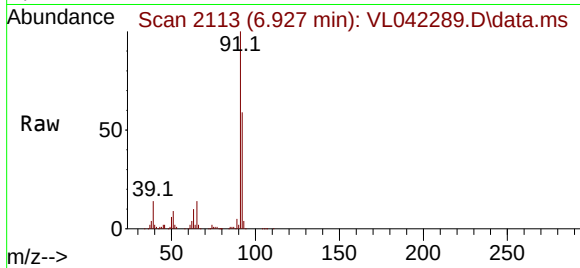




#53
Toluene
Concen: 9.903 ppbv
RT: 6.927 min Scan# 2113
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

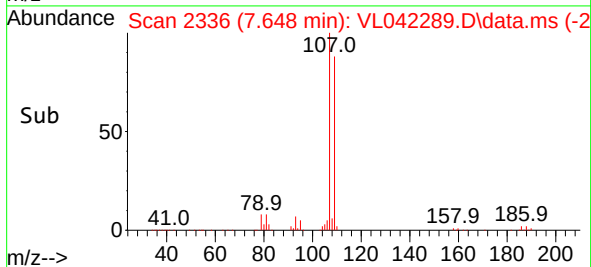
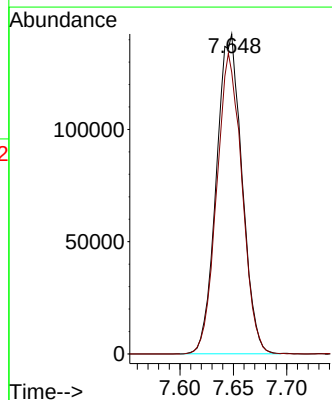
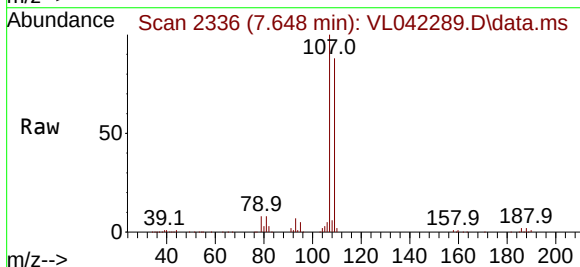
Instrument :
MSVOA_L
ClientSampleId :
VL0409ABS02

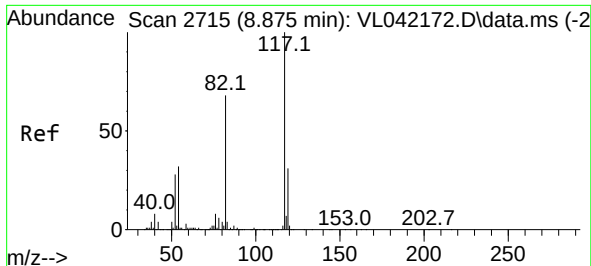
Tgt Ion: 91 Resp: 490916
Ion Ratio Lower Upper
91 100
92 59.5 48.4 72.6



#54
1,2-Dibromoethane
Concen: 10.608 ppbv
RT: 7.648 min Scan# 2336
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 107 Resp: 238091
Ion Ratio Lower Upper
107 100
109 88.1 72.2 108.4

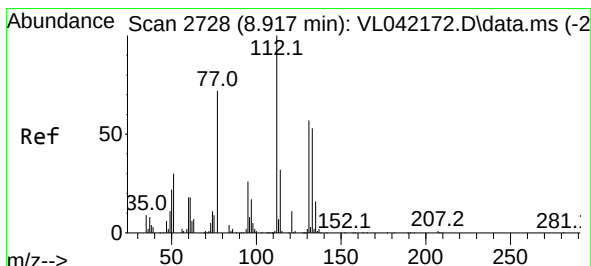
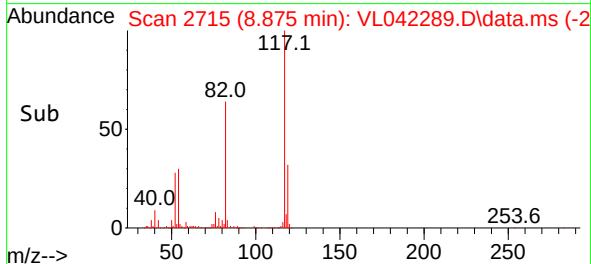
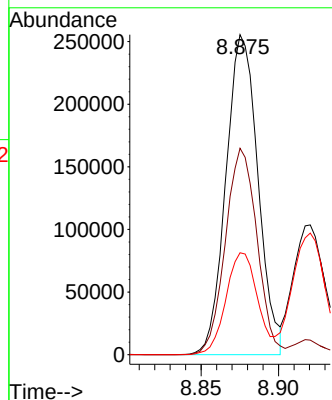
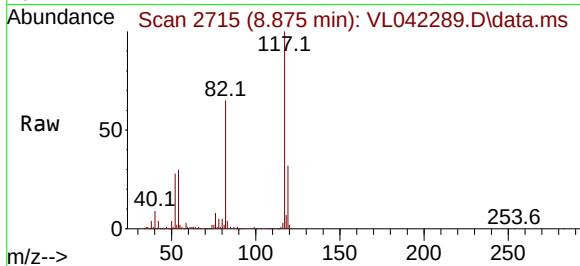




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

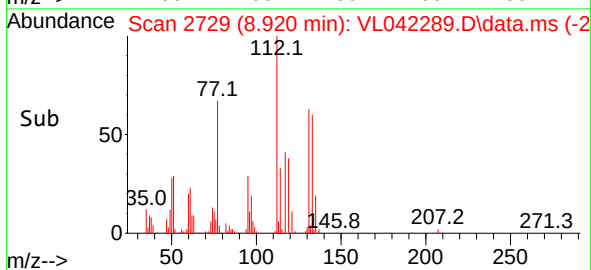
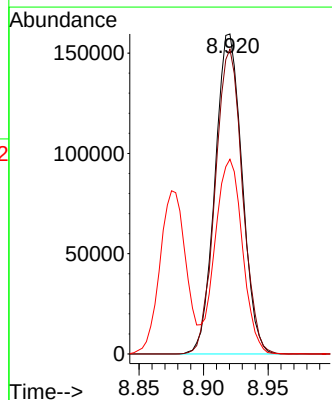
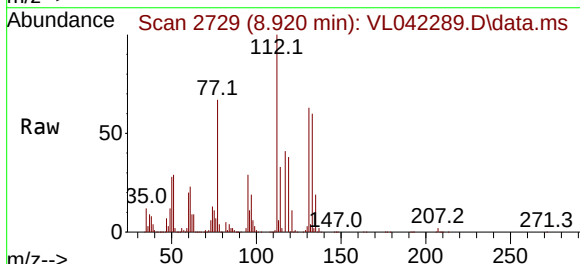
Instrument :
MSVOA_1
ClientSampleId :
VL0409ABS02

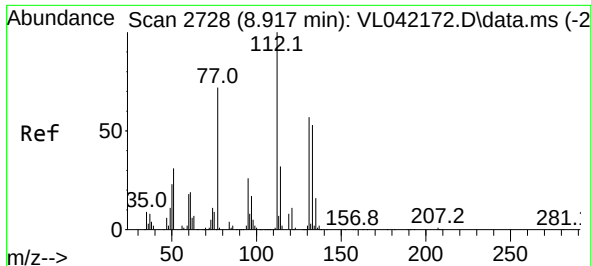
Tgt Ion:117 Resp: 368487
Ion Ratio Lower Upper
117 100
82 67.9 55.8 83.6
119 31.8 25.5 38.3



#56
1,1,1,2-Tetrachloroethane
Concen: 11.465 ppbv
RT: 8.920 min Scan# 2729
Delta R.T. 0.003 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion:131 Resp: 232553
Ion Ratio Lower Upper
131 100
133 95.9 76.6 114.8
119 62.4 49.8 74.6

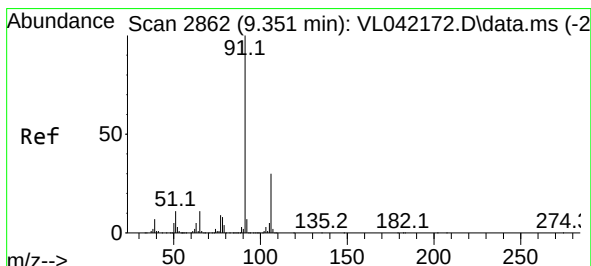
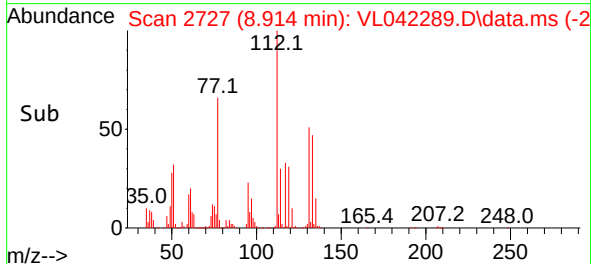
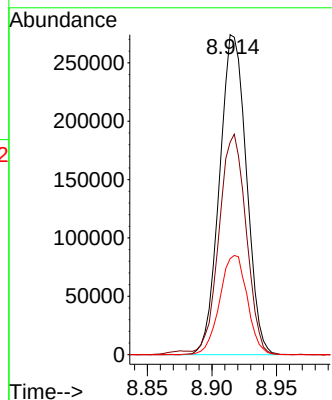
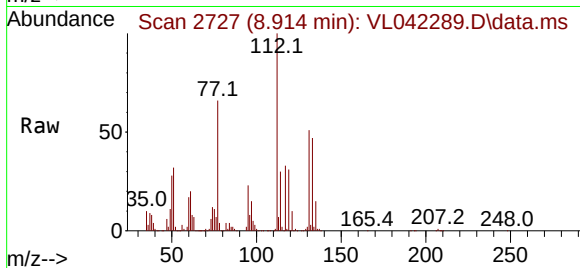




#57
Chlorobenzene
Concen: 11.372 ppbv
RT: 8.914 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

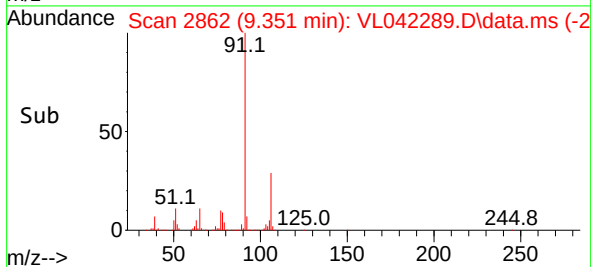
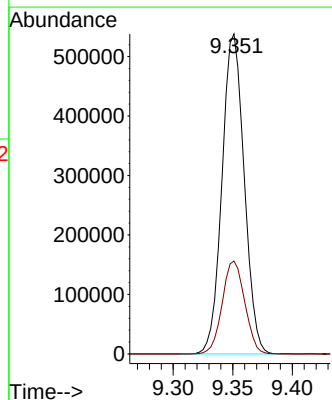
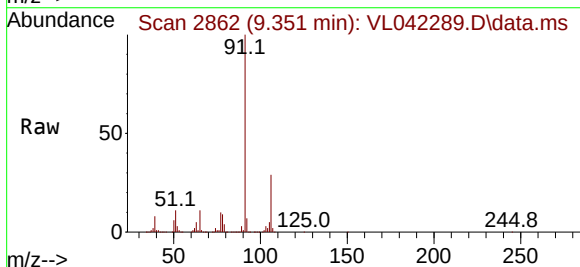
Instrument :
MSVOA_L
ClientSampleId :
VL0409ABS02

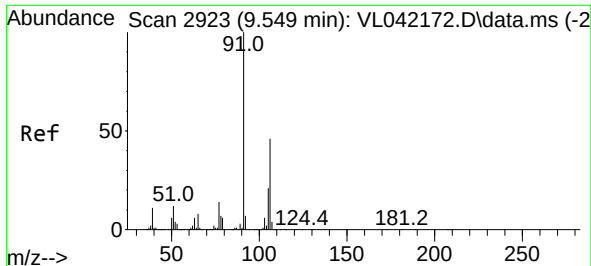
Tgt Ion:112 Resp: 397485
Ion Ratio Lower Upper
112 100
77 66.3 58.2 87.2
114 30.0 29.1 35.5



#58
Ethyl Benzene
Concen: 10.619 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 91 Resp: 695035
Ion Ratio Lower Upper
91 100
106 29.0 24.2 36.2





#59

m/p-Xylene

Concen: 11.352 ppbv

RT: 9.548 min Scan# 2923

Delta R.T. -0.000 min

Lab File: VL042289.D

Acq: 09 Apr 2025 12:31

Instrument :

MSVOA_1

ClientSampleId :

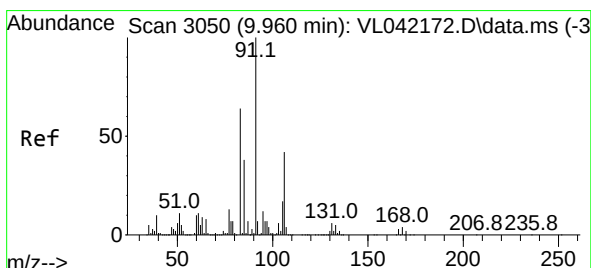
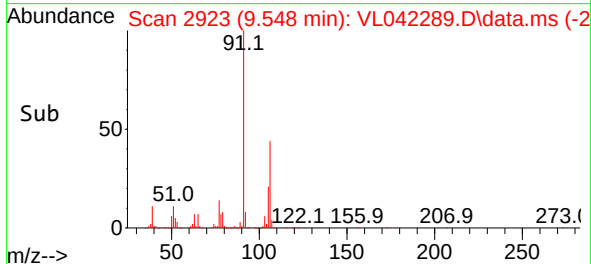
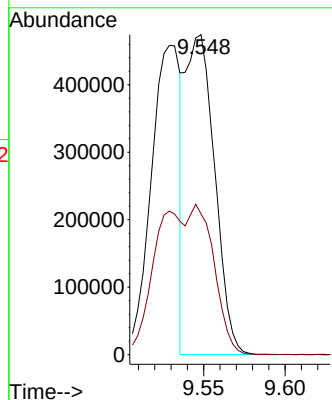
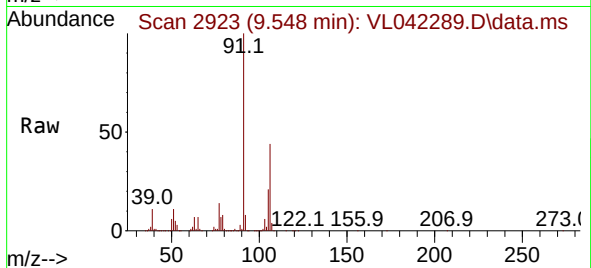
VL0409ABS02

Tgt Ion: 91 Resp: 593323

Ion Ratio Lower Upper

91 100

106 90.6 36.4 54.6#



#60

o-Xylene

Concen: 10.960 ppbv

RT: 9.959 min Scan# 3050

Delta R.T. -0.000 min

Lab File: VL042289.D

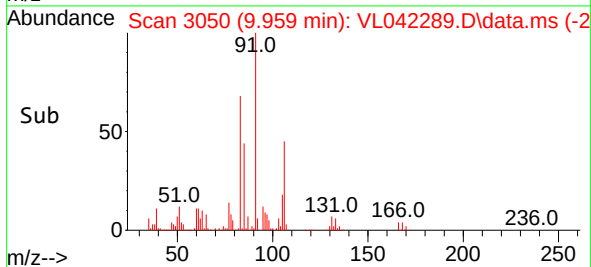
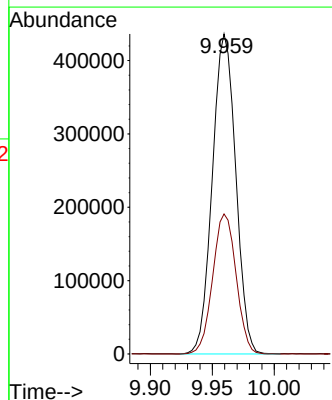
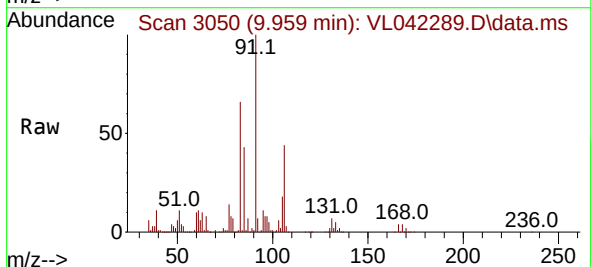
Acq: 09 Apr 2025 12:31

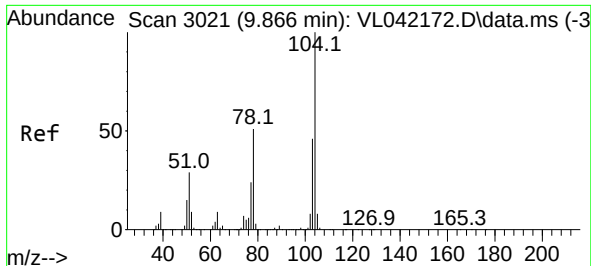
Tgt Ion: 91 Resp: 574256

Ion Ratio Lower Upper

91 100

106 43.7 20.8 62.5

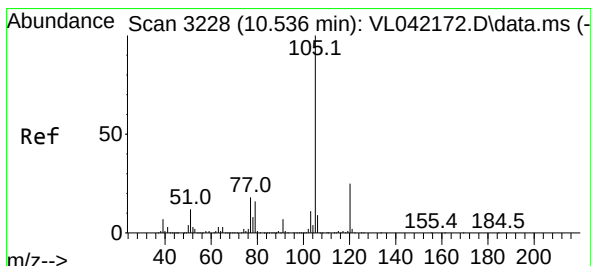
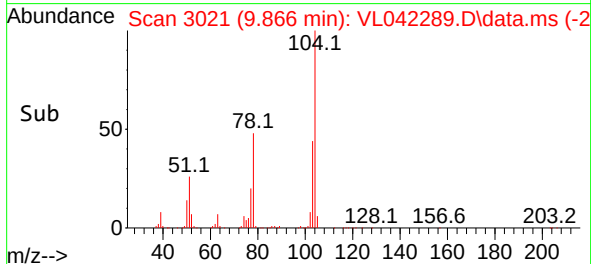
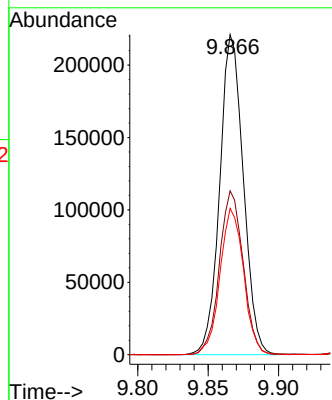
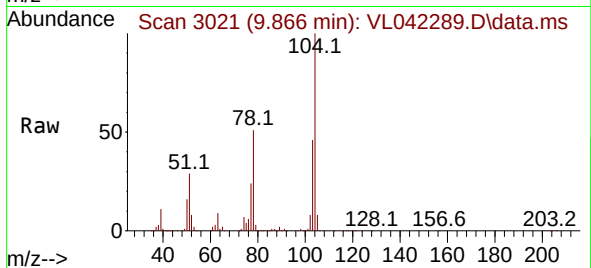




#61
Styrene
Concen: 9.967 ppbv
RT: 9.866 min Scan# 3021
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

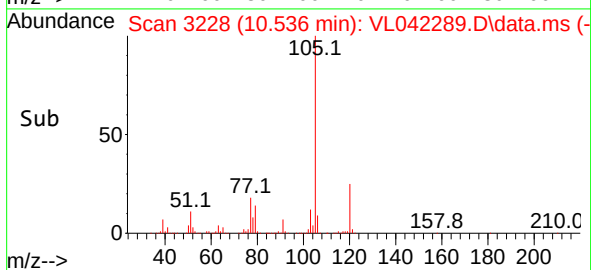
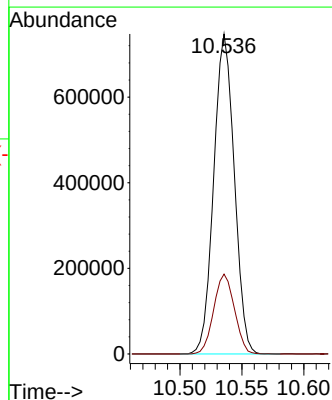
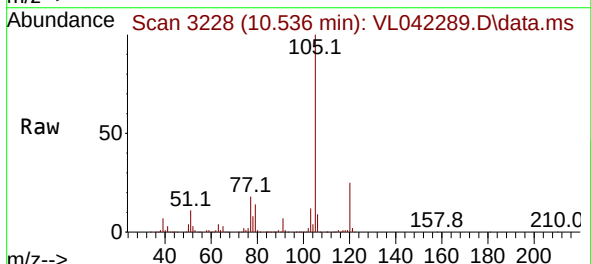
Instrument :
MSVOA_1
ClientSampleId :
VL0409ABS02

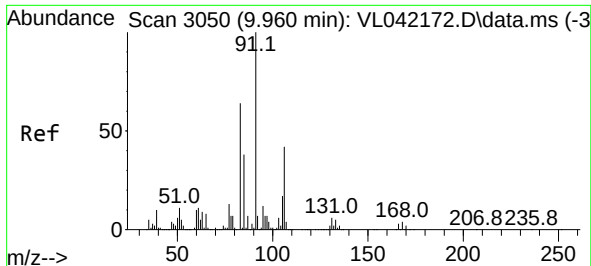
Tgt Ion:104 Resp: 258350
Ion Ratio Lower Upper
104 100
78 51.6 41.8 62.6
103 45.9 37.0 55.4



#62
Isopropylbenzene
Concen: 11.032 ppbv
RT: 10.536 min Scan# 3228
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion:105 Resp: 864354
Ion Ratio Lower Upper
105 100
120 25.1 19.9 29.9

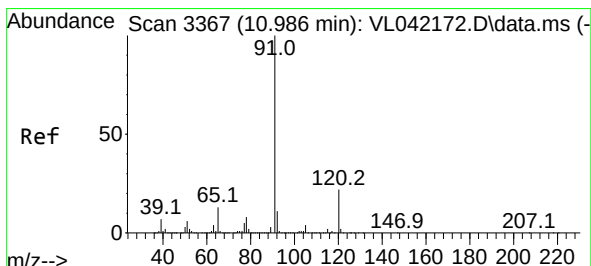
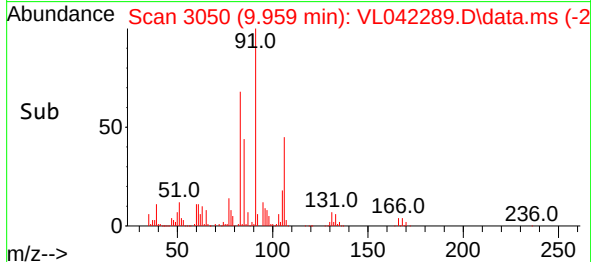
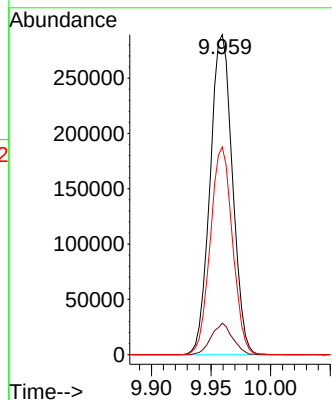
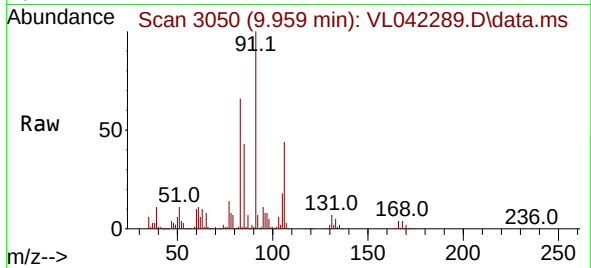




#63
1,1,2,2-Tetrachloroethane
Concen: 11.843 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

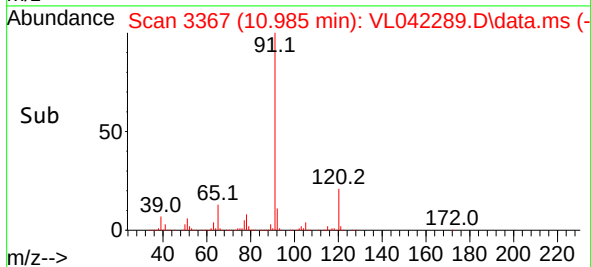
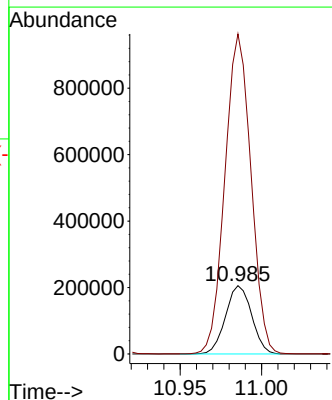
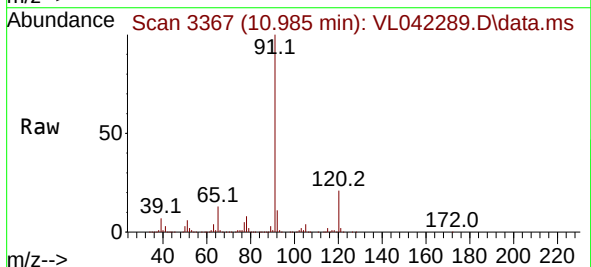
Instrument :
MSVOA_L
ClientSampleId :
VL0409ABS02

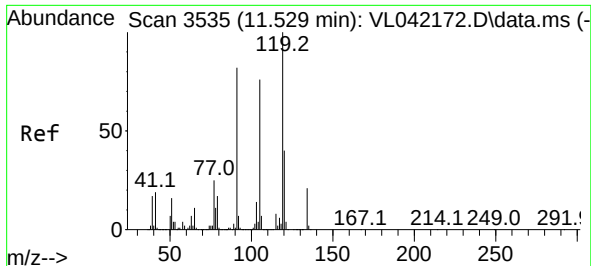
Tgt Ion: 83 Resp: 377007
Ion Ratio Lower Upper
83 100
131 9.4 4.8 14.4
85 64.5 32.5 97.5



#64
n-propylbenzene
Concen: 11.331 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 120 Resp: 228525
Ion Ratio Lower Upper
120 100
91 468.7 376.9 565.3

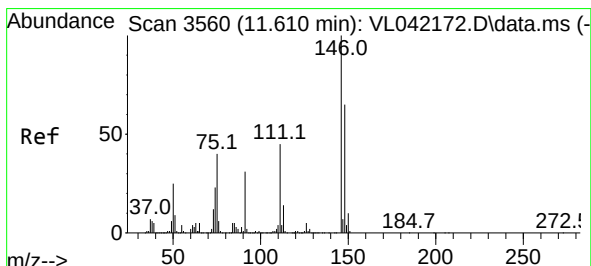
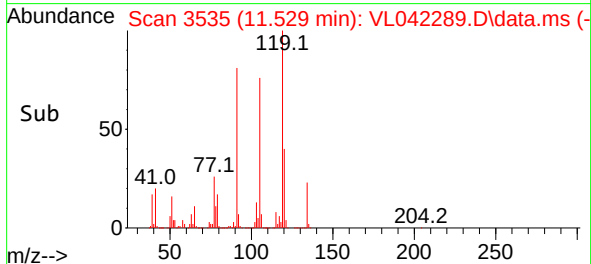
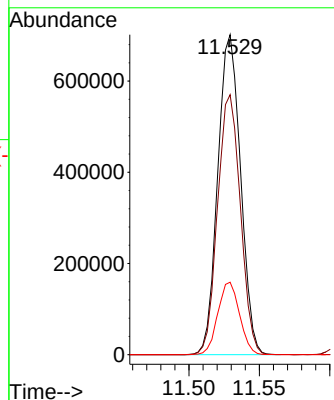
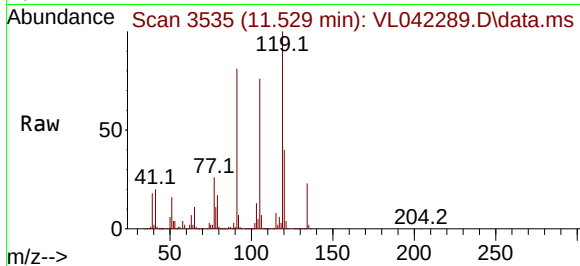




#65
tert-Butylbenzene
Concen: 10.909 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

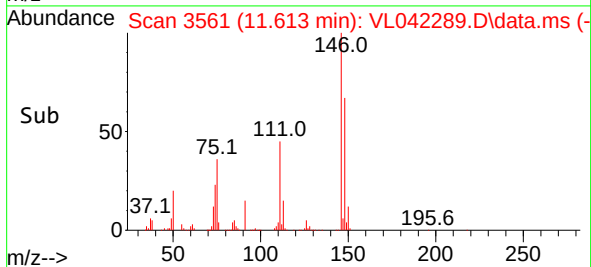
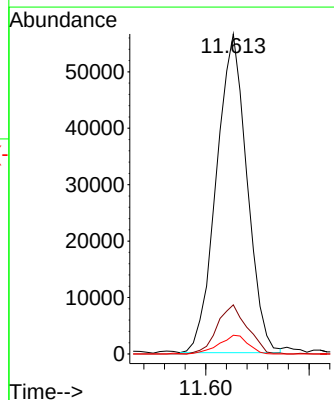
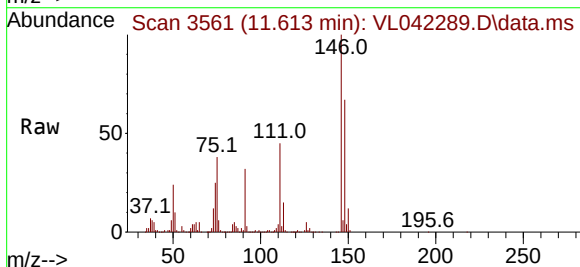
Instrument :
MSVOA_1
ClientSampleId :
VL0409ABS02

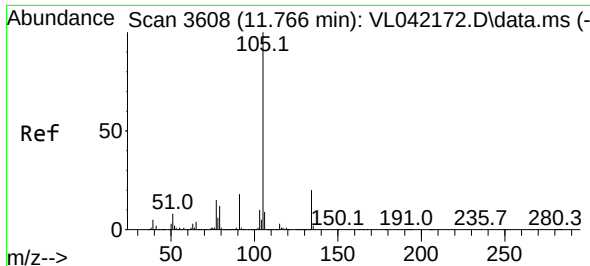
Tgt Ion:119 Resp: 790461
Ion Ratio Lower Upper
119 100
91 81.4 66.0 99.0
134 21.6 16.7 25.1



#66
Benzyl Chloride
Concen: 7.561 ppbv
RT: 11.613 min Scan# 3561
Delta R.T. 0.003 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 91 Resp: 58131
Ion Ratio Lower Upper
91 100
126 15.2 13.8 20.6
128 5.6 4.5 6.7

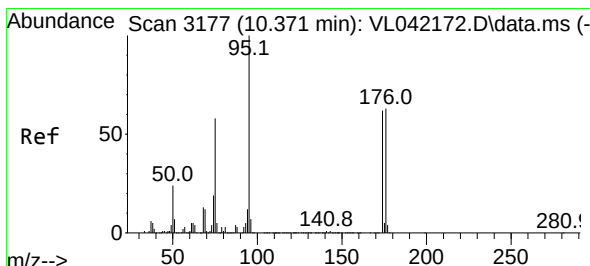
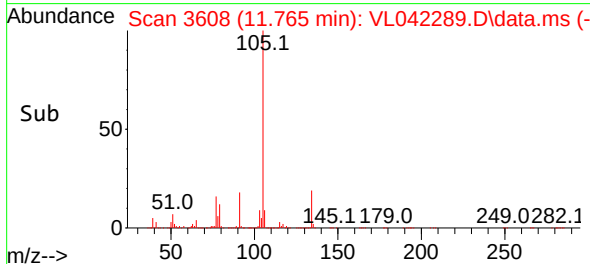
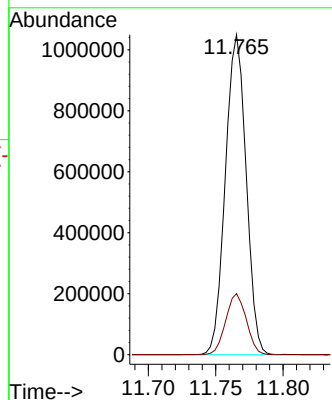
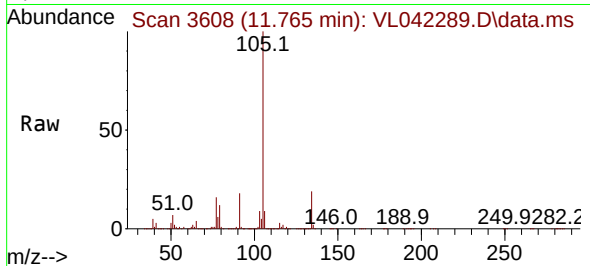




#67
 sec-Butylbenzene
 Concen: 11.161 ppbv
 RT: 11.765 min Scan# 3177
 Delta R.T. -0.000 min
 Lab File: VL042289.D
 Acq: 09 Apr 2025 12:31

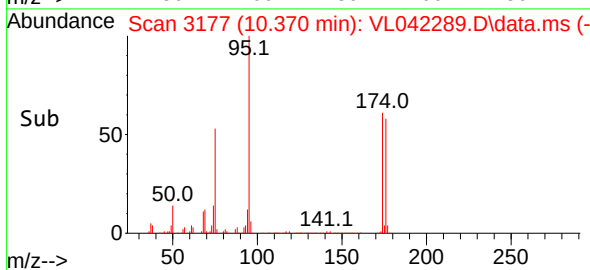
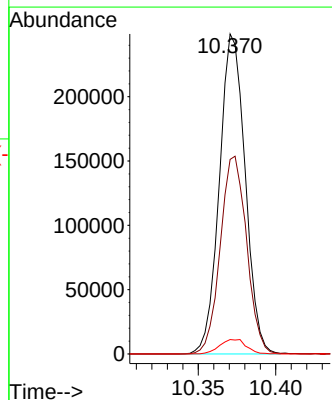
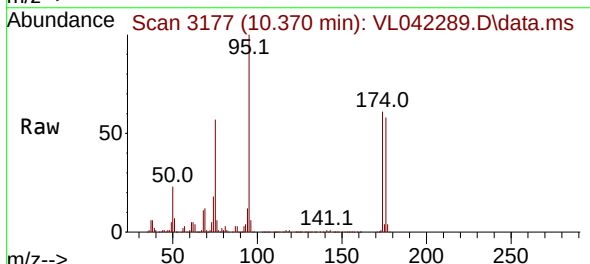
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0409ABS02

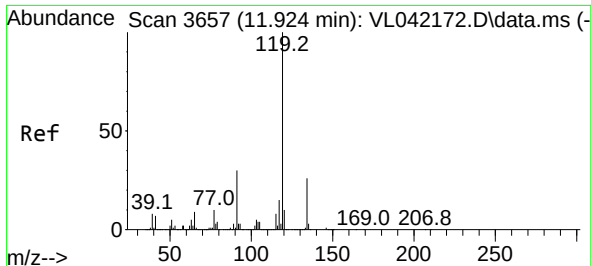
Tgt Ion:105 Resp: 1124096
 Ion Ratio Lower Upper
 105 100
 134 19.0 15.5 23.3



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.522 ppbv
 RT: 10.370 min Scan# 3177
 Delta R.T. -0.000 min
 Lab File: VL042289.D
 Acq: 09 Apr 2025 12:31

Tgt Ion: 95 Resp: 288141
 Ion Ratio Lower Upper
 95 100
 174 63.2 50.6 76.0
 175 4.7 3.8 5.6

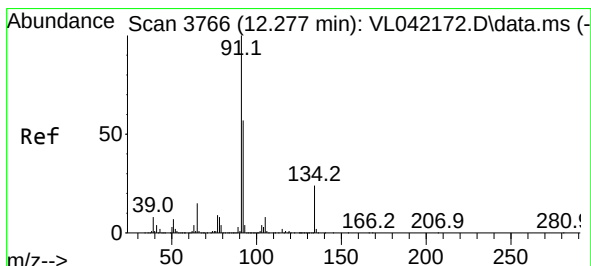
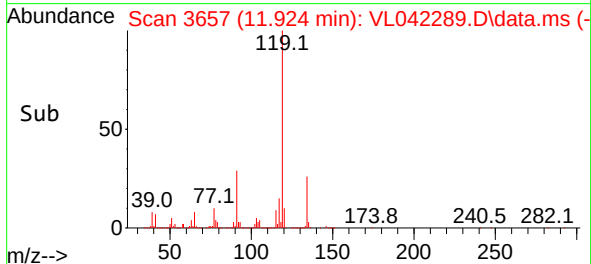
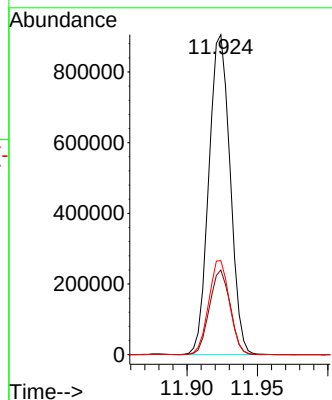
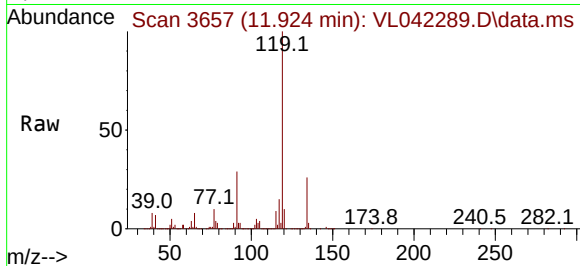




#69
p-Isopropyltoluene
Concen: 10.954 ppbv
RT: 11.924 min Scan# 30
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

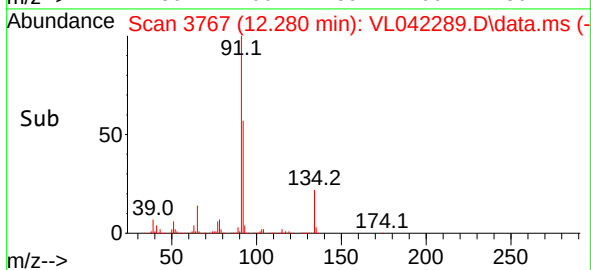
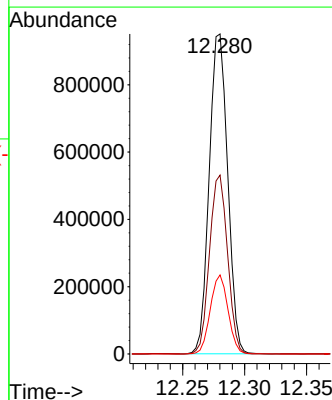
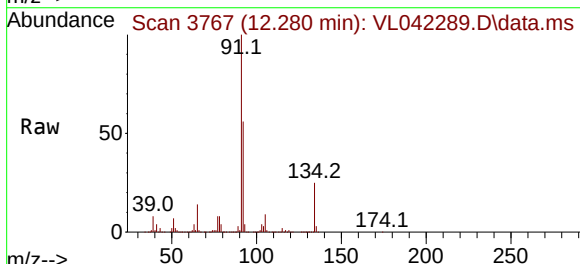
Instrument :
MSVOA_1
ClientSampleId :
VL0409ABS02

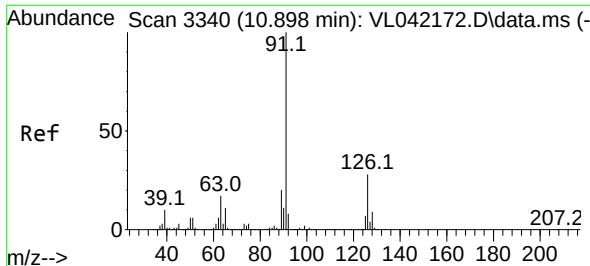
Tgt Ion:119 Resp: 950025
Ion Ratio Lower Upper
119 100
134 25.9 20.4 30.6
91 29.1 23.7 35.5



#70
n-Butylbenzene
Concen: 11.124 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. 0.003 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 91 Resp: 986632
Ion Ratio Lower Upper
91 100
92 54.9 44.9 67.3
134 23.8 19.2 28.8

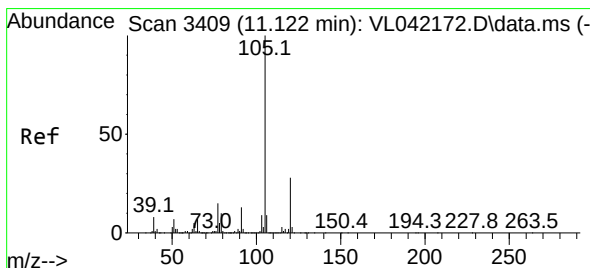
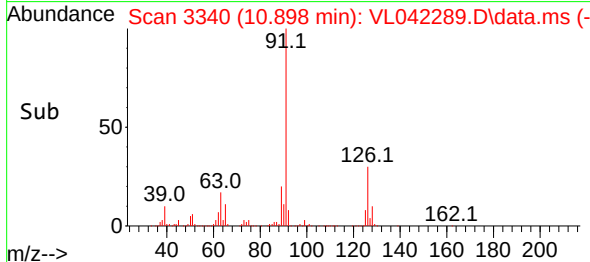
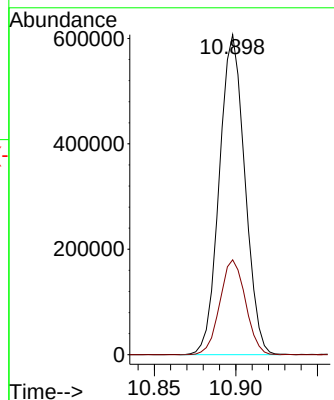
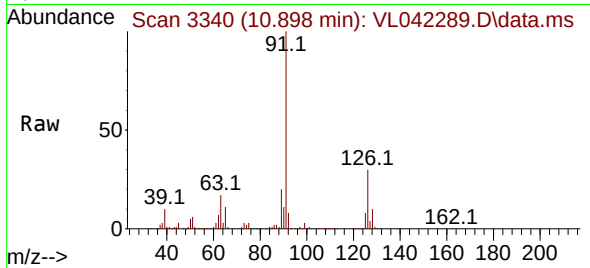




#71
2-Chlorotoluene
Concen: 10.859 ppbv
RT: 10.898 min Scan# 31
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

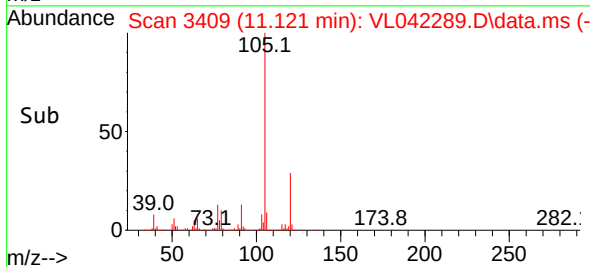
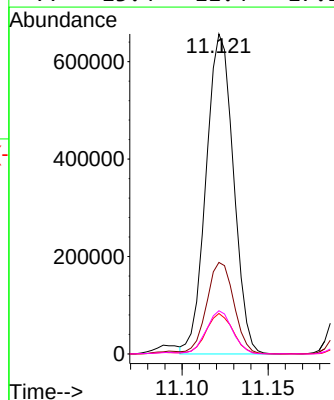
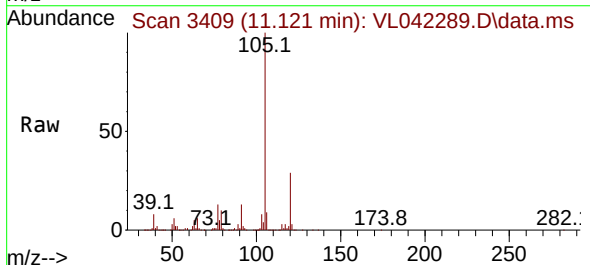
Instrument :
MSVOA_L
ClientSampleId :
VL0409ABS02

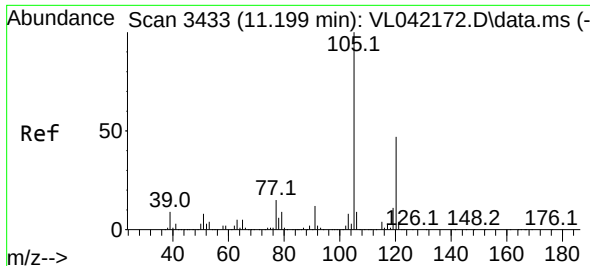
Tgt Ion: 91 Resp: 660346
Ion Ratio Lower Upper
91 100
126 29.7 11.6 46.4



#72
4-Ethyltoluene
Concen: 11.142 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 105 Resp: 726883
Ion Ratio Lower Upper
105 100
120 29.3 23.4 35.0
91 13.0 10.3 15.5
77 13.4 11.4 17.2

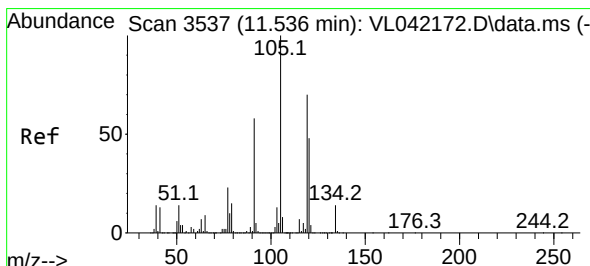
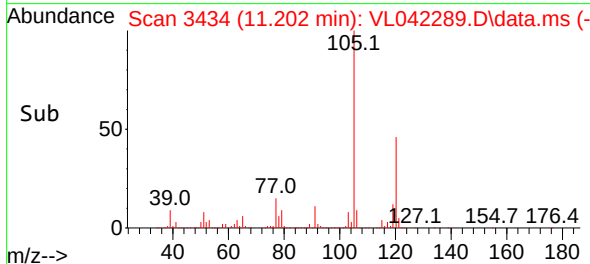
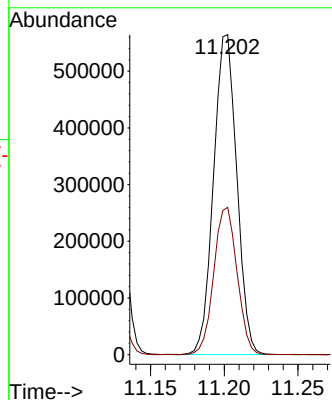
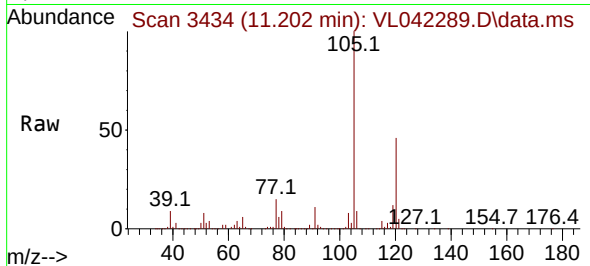




#73
1,3,5-Trimethylbenzene
Concen: 10.851 ppbv
RT: 11.202 min Scan# 3434
Delta R.T. 0.003 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

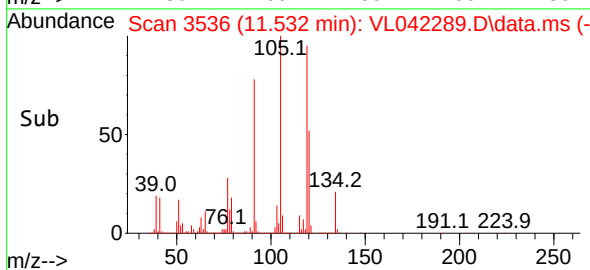
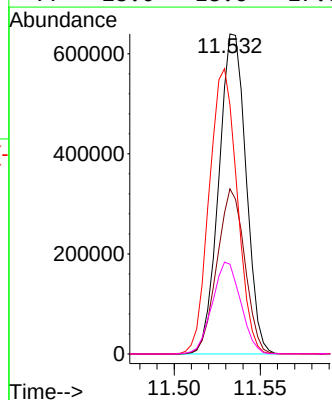
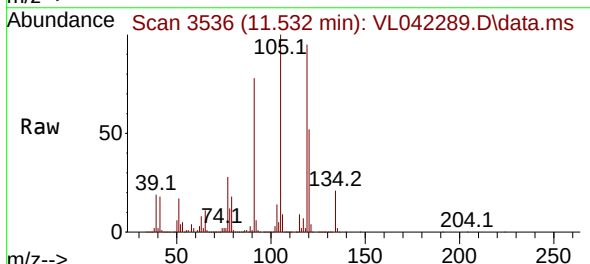
Instrument :
MSVOA_1
ClientSampleId :
VL0409ABS02

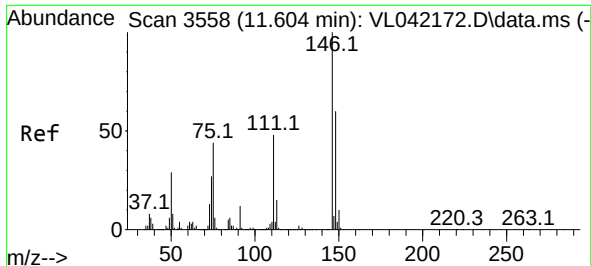
Tgt Ion:105 Resp: 618219
Ion Ratio Lower Upper
105 100
120 46.0 37.4 56.0



#74
1,2,4-Trimethylbenzene
Concen: 10.699 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. -0.003 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion:105 Resp: 702287
Ion Ratio Lower Upper
105 100
120 51.6 38.6 58.0
91 77.8 46.2 69.2#
77 28.0 18.6 27.8#

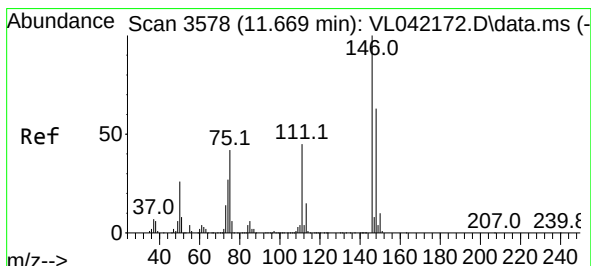
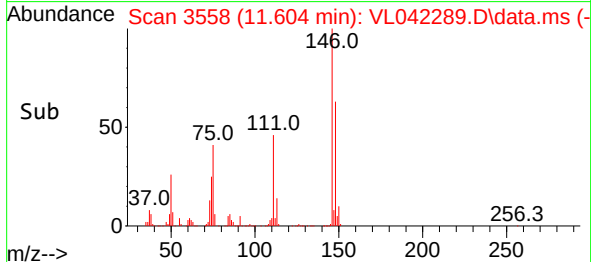
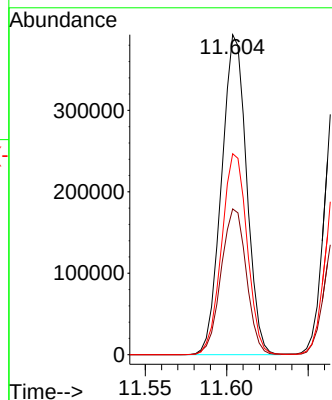
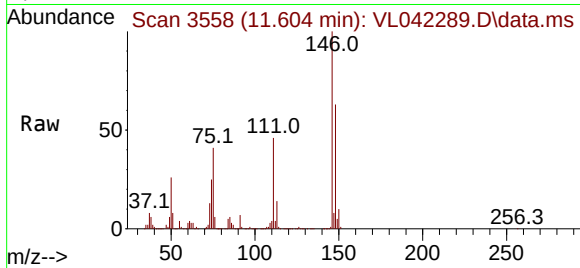




#75
1,3-Dichlorobenzene
Concen: 11.644 ppbv
RT: 11.604 min Scan# 3558
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

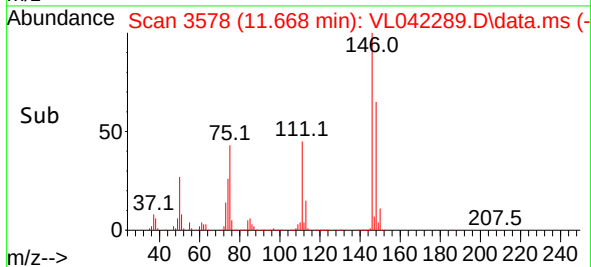
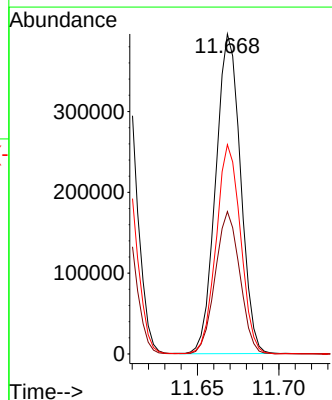
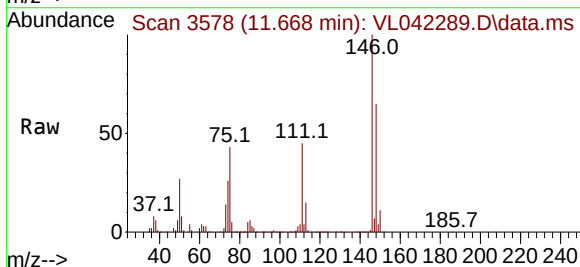
Instrument :
MSVOA_1
ClientSampleId :
VL0409ABS02

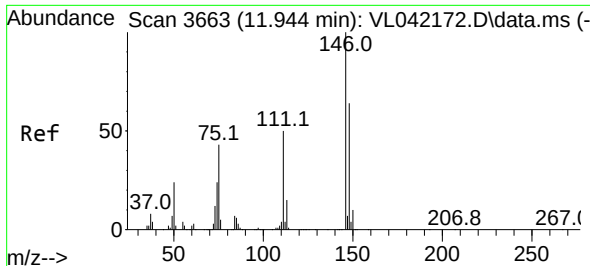
Tgt Ion:146 Resp: 419165
Ion Ratio Lower Upper
146 100
111 46.1 23.8 71.2
148 64.0 31.9 95.9



#76
1,4-Dichlorobenzene
Concen: 11.660 ppbv
RT: 11.668 min Scan# 3578
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion:146 Resp: 417746
Ion Ratio Lower Upper
146 100
111 44.3 23.0 69.0
148 64.7 31.9 95.7

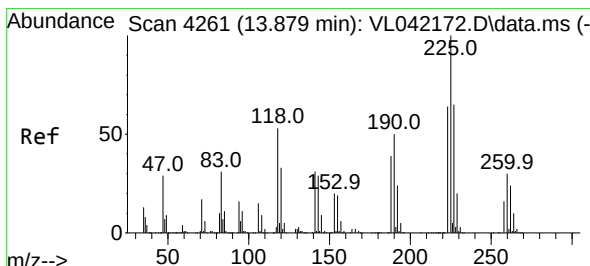
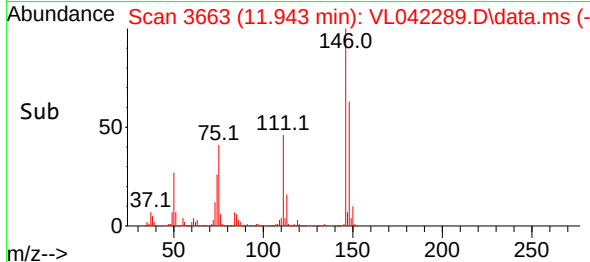
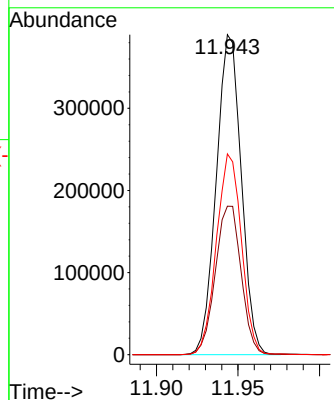
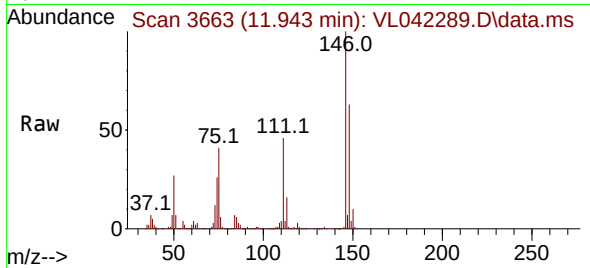




#77
1,2-Dichlorobenzene
Concen: 11.862 ppbv
RT: 11.943 min Scan# 3663
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

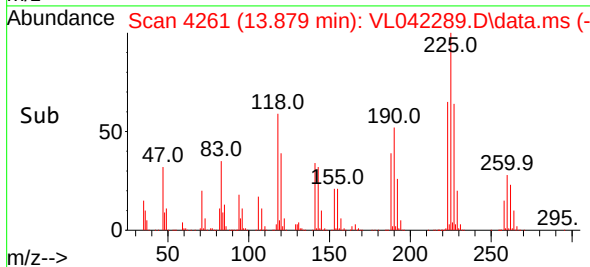
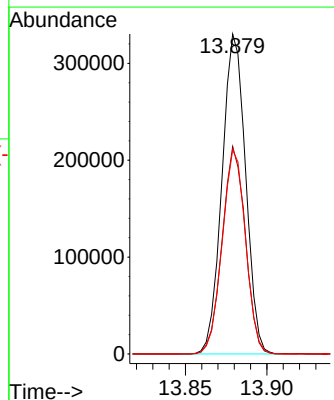
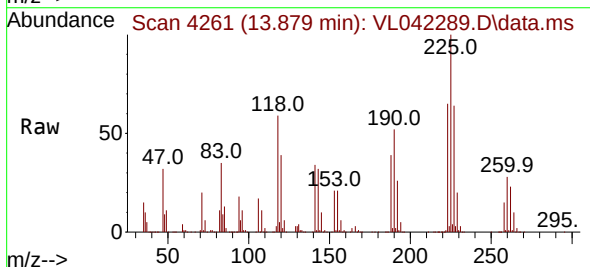
Instrument :
MSVOA_1
ClientSampleId :
VL0409ABS02

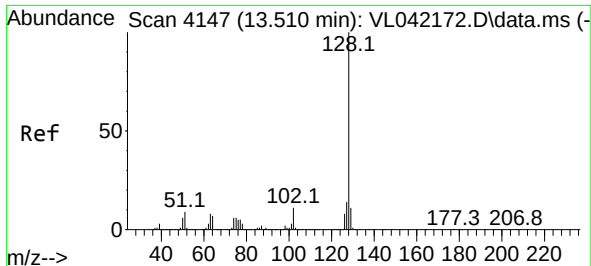
Tgt Ion:146 Resp: 415780
Ion Ratio Lower Upper
146 100
111 47.9 24.8 74.3
148 62.8 31.6 94.8



#78
Hexachloro-1,3-Butadiene
Concen: 9.302 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion:225 Resp: 331886
Ion Ratio Lower Upper
225 100
223 63.6 50.6 76.0
227 63.3 51.2 76.8

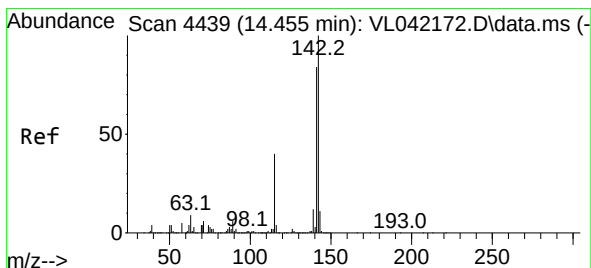
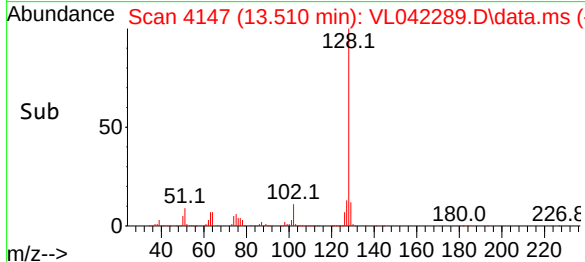
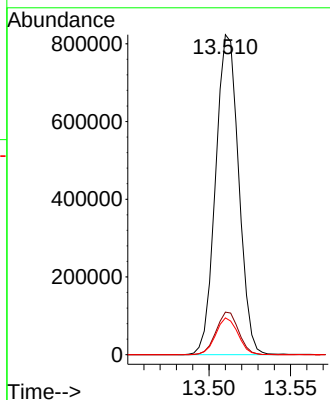
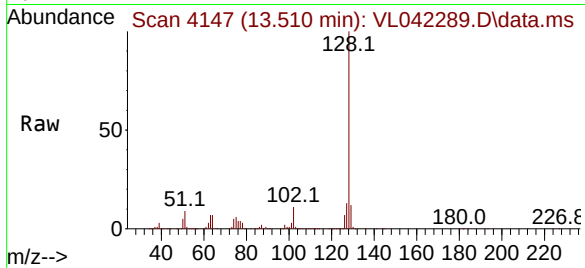




#79
Naphthalene
Concen: 11.288 ppbv
RT: 13.510 min Scan# 4147
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

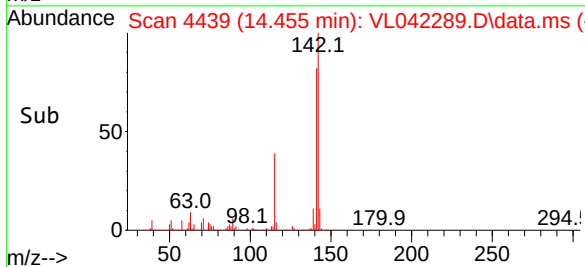
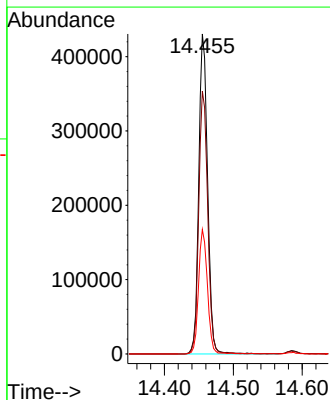
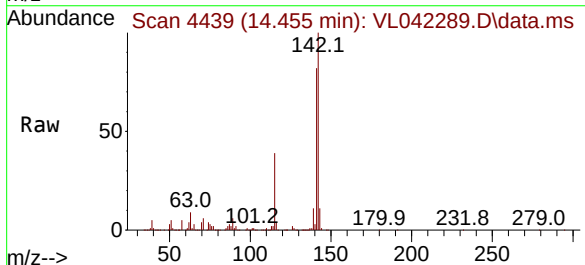
Instrument :
MSVOA_L
ClientSampleId :
VL0409ABS02

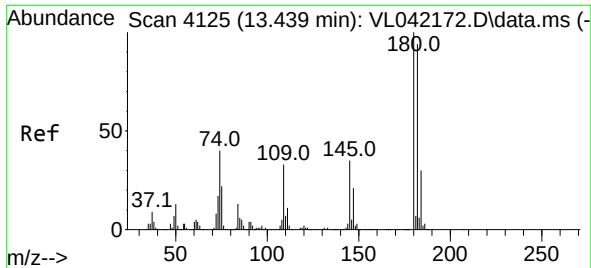
Tgt Ion:128 Resp: 810441
Ion Ratio Lower Upper
128 100
127 13.3 10.8 16.2
129 11.5 9.0 13.4



#80
Naphthalene,2-methyl-
Concen: 11.023 ppbv
RT: 14.455 min Scan# 4439
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

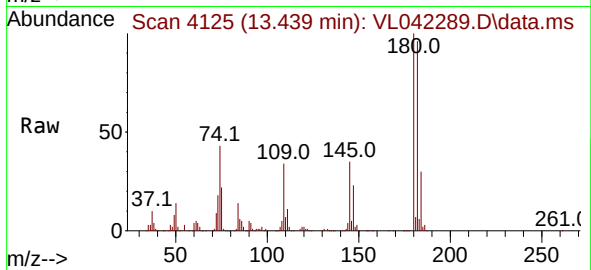
Tgt Ion:142 Resp: 388095
Ion Ratio Lower Upper
142 100
141 83.6 66.3 99.5
115 39.2 31.6 47.4



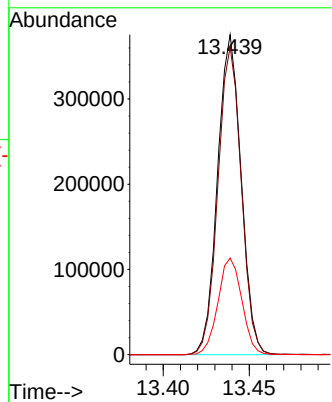
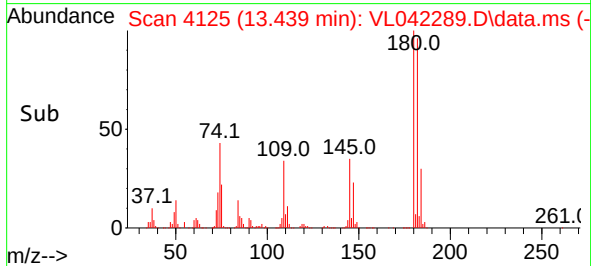


#81
 1,2,4-Trichlorobenzene
 Concen: 10.802 ppbv
 RT: 13.439 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VL042289.D
 Acq: 09 Apr 2025 12:31

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0409ABS02



Tgt Ion:180 Resp: 357711
 Ion Ratio Lower Upper
 180 100
 182 95.3 75.1 112.7
 184 30.6 24.4 36.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
 Data File : VL042290.D
 Acq On : 09 Apr 2025 13:25
 Operator : SY/MD
 Sample : Q1665-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 AA-DUP-1-3242025

Quant Time: Apr 10 01:43:08 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

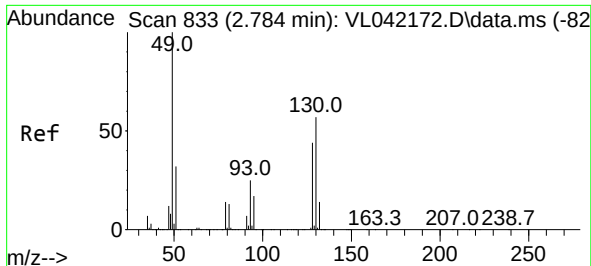
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.784	49	159221	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	408039	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	345931	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.371	95	258960	9.116	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	91.200%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.496	85	9289	0.395	ppbv	96
3) Chlorodifluoromethane	1.473	51	12980	0.540	ppbv #	84
4) Chloromethane	1.531	50	5425	0.565	ppbv	93
6) Bromomethane	1.661	94	185	0.042	ppbv #	4
9) Propene	1.486	41	9320	0.847	ppbv #	80
10) Heptane	4.972	43	1334	0.046	ppbv #	68
11) Trichlorofluoromethane	1.874	101	4760	0.208	ppbv	94
12) 1,1,2-Trichlorotrifluo...	2.140	101	1389	0.074	ppbv	84
13) Ethanol	1.719	45	13916	13.373	ppbv	84
15) Acetone	1.835	43	79179	3.556	ppbv	93
16) 1,3-Butadiene	1.599	39	1987	0.183	ppbv #	71
17) tert-Butyl alcohol	2.039	59	1723	0.062	ppbv #	53
19) Isopropyl Alcohol	1.884	45	22614	1.800	ppbv #	35
20) Methylene Chloride	2.059	84	7901	0.953	ppbv	93
23) Vinyl Acetate	2.454	43	6464	0.671	ppbv #	80
25) Ethyl Acetate	2.823	43	28683	0.496	ppbv #	81
26) Hexane	2.823	57	34660	1.553	ppbv #	37
29) Chloroform	2.842	83	1363	0.042	ppbv #	73
34) 2-Butanone	2.561	43	10562	0.357	ppbv	99
35) Carbon Tetrachloride	3.761	117	1242	0.039	ppbv	84
36) Benzene	3.651	78	6629	0.164	ppbv	95
39) 1,2-Dichloropropane	3.952	63	103630	7.034	ppbv #	22
53) Toluene	6.930	91	12275	0.256	ppbv #	79
58) Ethyl Benzene	9.348	91	2673	0.044	ppbv	99
60) o-Xylene	9.959	91	2526	0.051	ppbv	98
74) 1,2,4-Trimethylbenzene	11.536	105	3147	0.051	ppbv #	71
79) Naphthalene	13.513	128	2423	0.036	ppbv #	92
80) Naphthalene,2-methyl-	14.462	142	999	0.030	ppbv	91
81) 1,2,4-Trichlorobenzene	13.442	180	1092	0.035	ppbv	93

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

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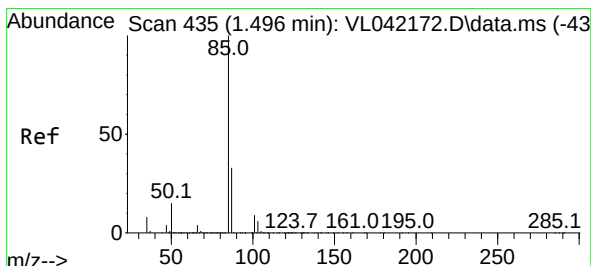
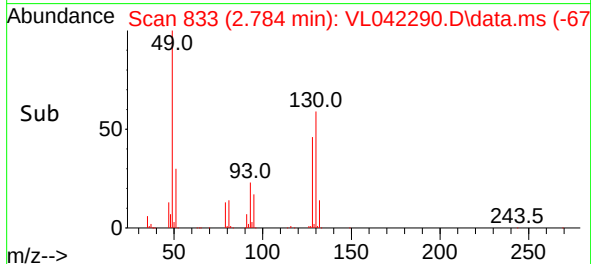
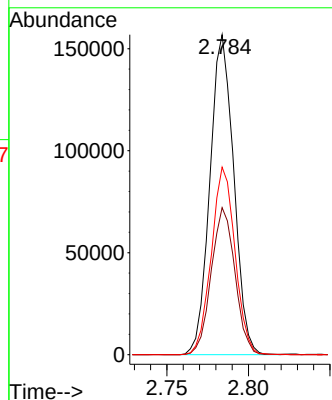
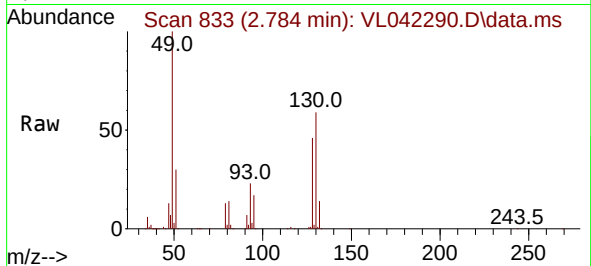




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. -0.000 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25

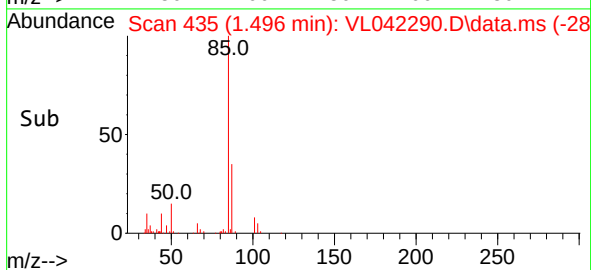
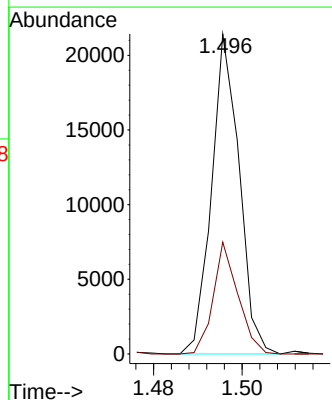
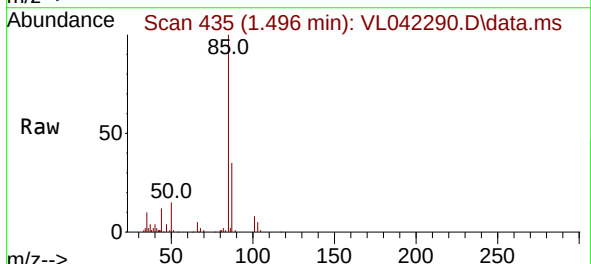
Instrument :
MSVOA_L
ClientSampleId :
AA-DUP-1-3242025

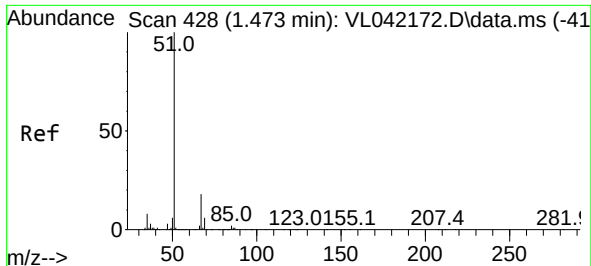
Tgt Ion: 49 Resp: 159221
Ion Ratio Lower Upper
49 100
128 45.7 22.9 68.5
130 58.4 28.8 86.4



#2
Dichlorodifluoromethane
Concen: 0.395 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25

Tgt Ion: 85 Resp: 9289
Ion Ratio Lower Upper
85 100
87 34.9 26.1 39.1

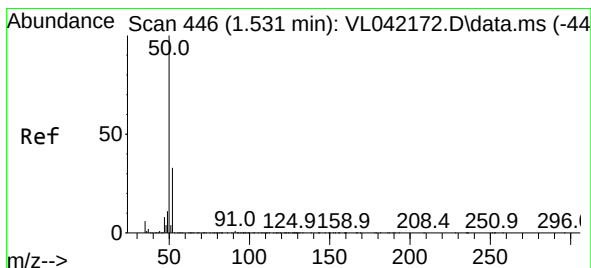
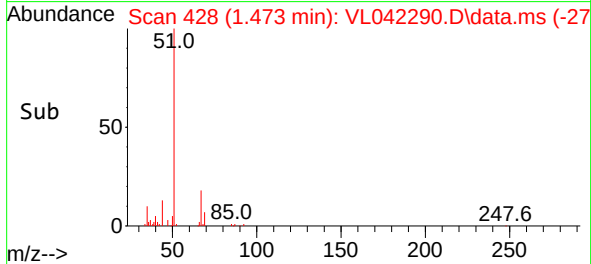
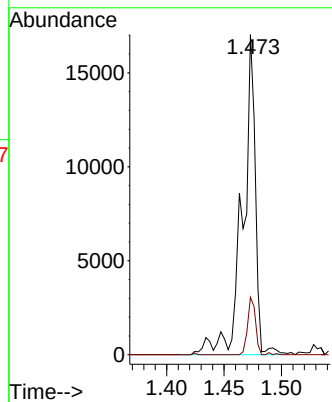
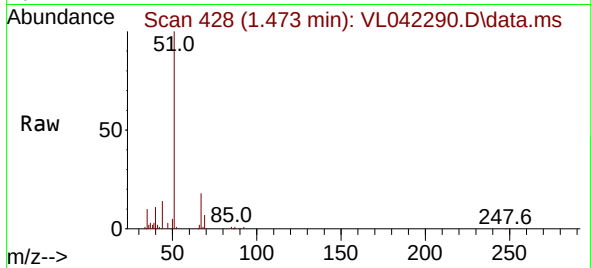




#3
Chlorodifluoromethane
Concen: 0.540 ppbv
RT: 1.473 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25

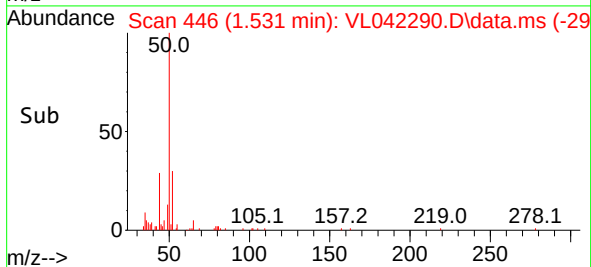
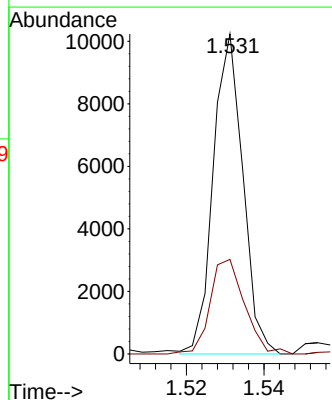
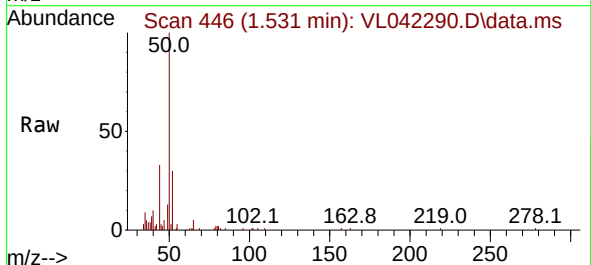
Instrument :
MSVOA_L
ClientSampleId :
AA-DUP-1-3242025

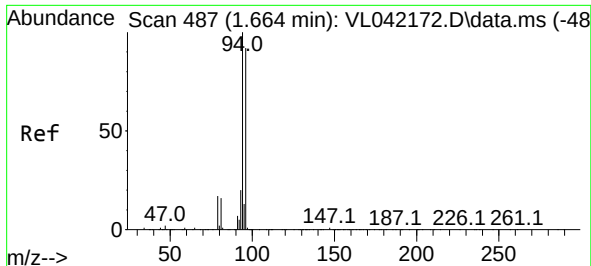
Tgt Ion: 51 Resp: 12980
Ion Ratio Lower Upper
51 100
67 11.4 15.0 22.6#



#4
Chloromethane
Concen: 0.565 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25

Tgt Ion: 50 Resp: 5425
Ion Ratio Lower Upper
50 100
52 28.9 26.1 39.1

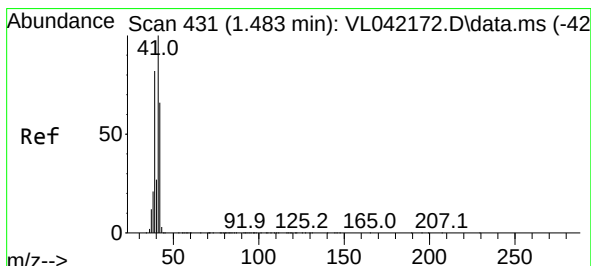
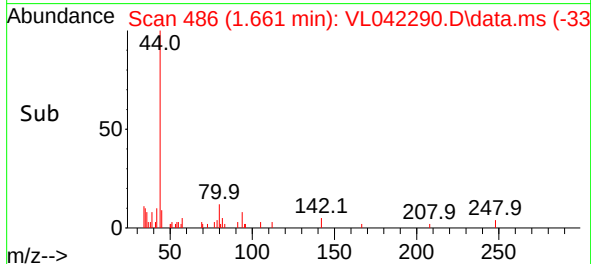
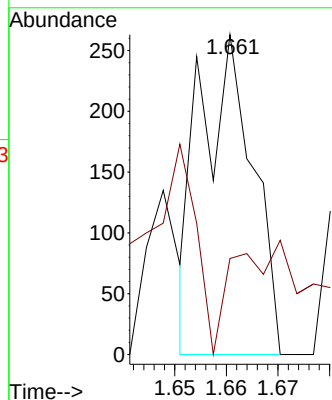
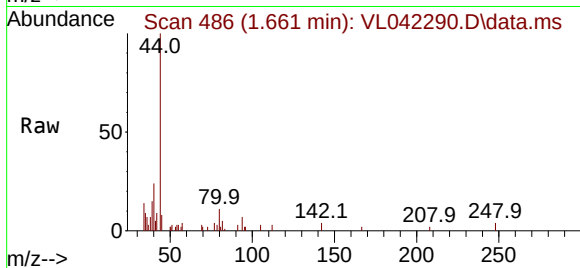




#6
Bromomethane
Concen: 0.042 ppbv
RT: 1.661 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25

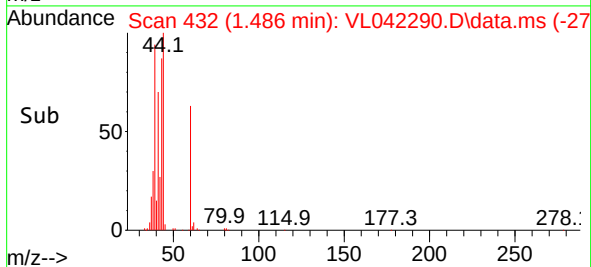
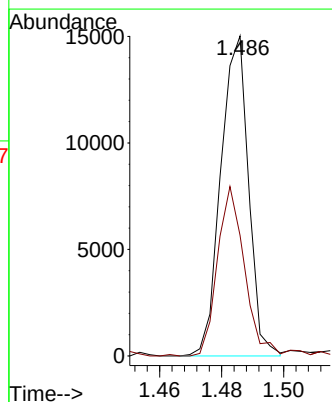
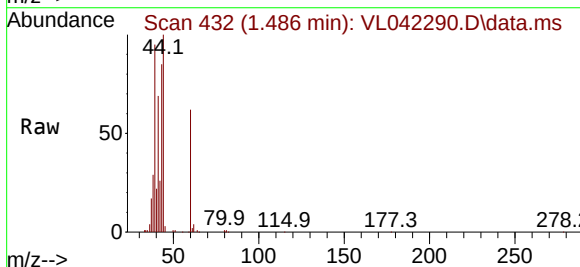
Instrument :
MSVOA_1
ClientSampleId :
AA-DUP-1-3242025

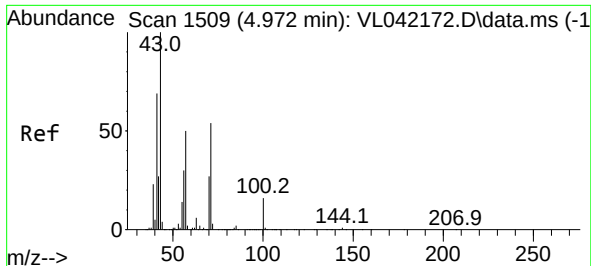
Tgt Ion: 94 Resp: 185
Ion Ratio Lower Upper
94 100
96 0.0 73.1 109.7#



#9
Propene
Concen: 0.847 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.003 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25

Tgt Ion: 41 Resp: 9320
Ion Ratio Lower Upper
41 100
42 52.7 55.4 83.2#

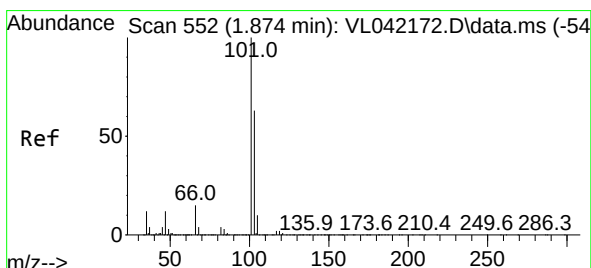
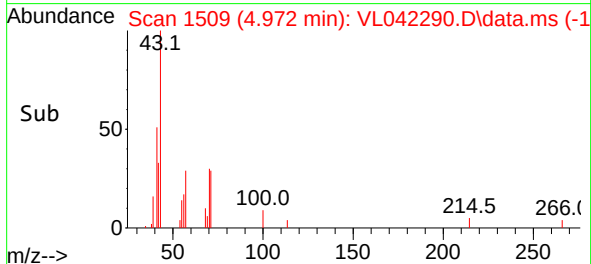
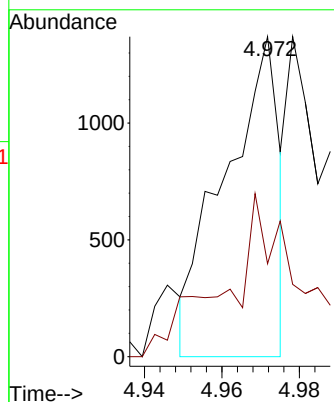
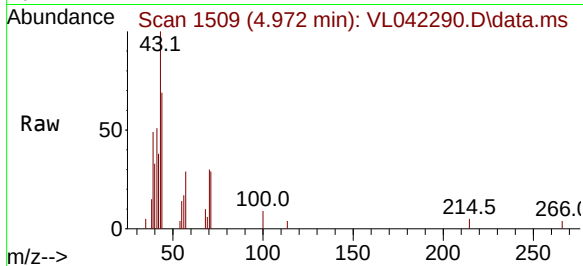




#10
Heptane
Concen: 0.046 ppbv
RT: 4.972 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25

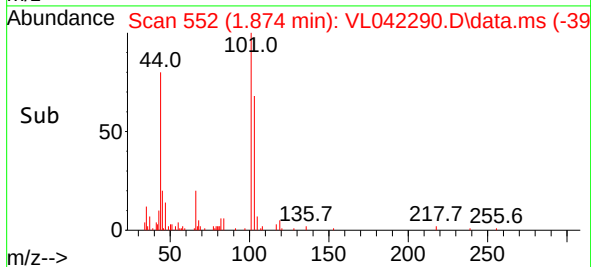
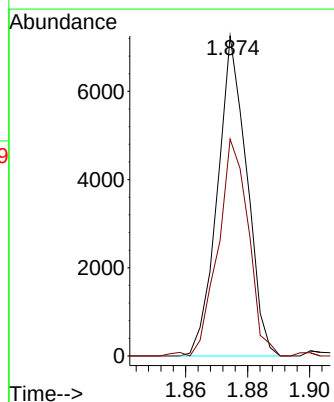
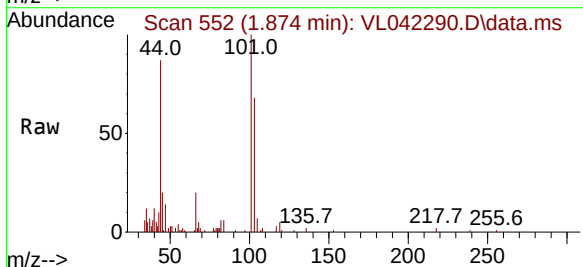
Instrument :
MSVOA_L
ClientSampleId :
AA-DUP-1-3242025

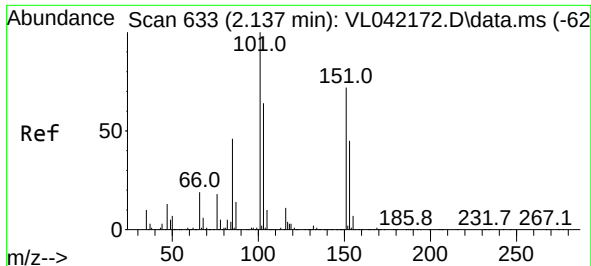
Tgt Ion: 43 Resp: 1334
Ion Ratio Lower Upper
43 100
57 71.4 39.4 59.2#



#11
Trichlorofluoromethane
Concen: 0.208 ppbv
RT: 1.874 min Scan# 552
Delta R.T. -0.000 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25

Tgt Ion:101 Resp: 4760
Ion Ratio Lower Upper
101 100
103 67.7 50.2 75.2

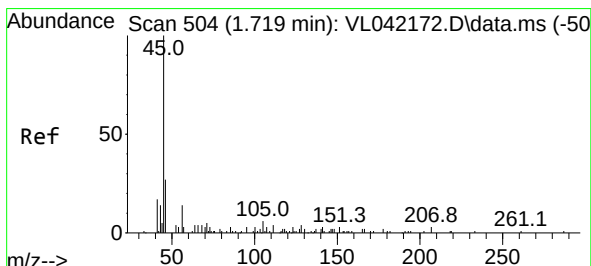
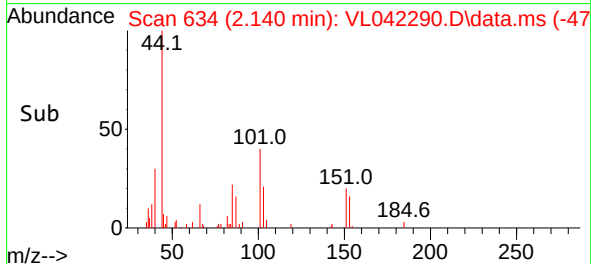
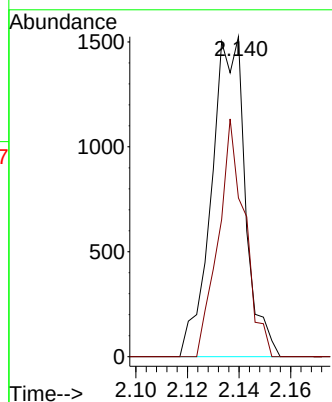
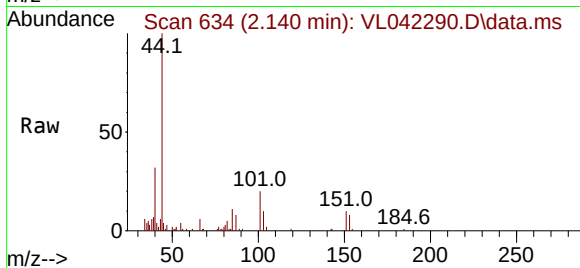




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.074 ppbv
RT: 2.140 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25

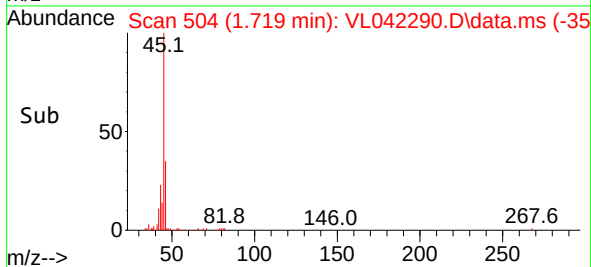
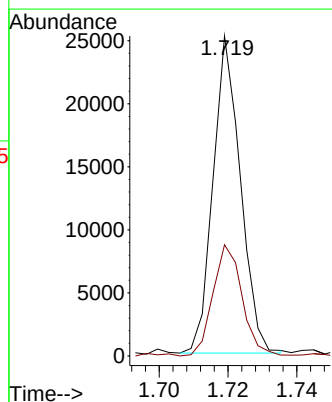
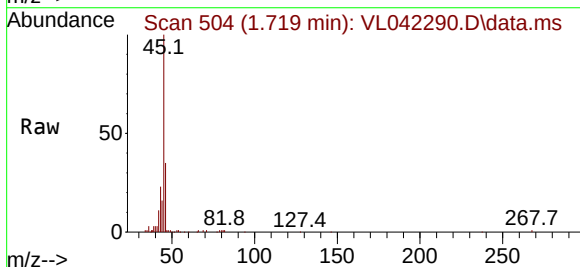
Instrument :
MSVOA_1
ClientSampleId :
AA-DUP-1-3242025

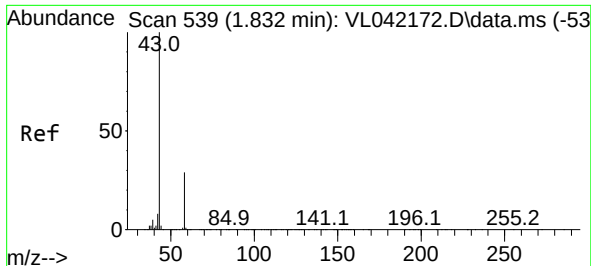
Tgt Ion:101 Resp: 1389
Ion Ratio Lower Upper
101 100
151 58.2 57.1 85.7



#13
Ethanol
Concen: 13.373 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25

Tgt Ion: 45 Resp: 13916
Ion Ratio Lower Upper
45 100
46 39.5 20.2 80.8

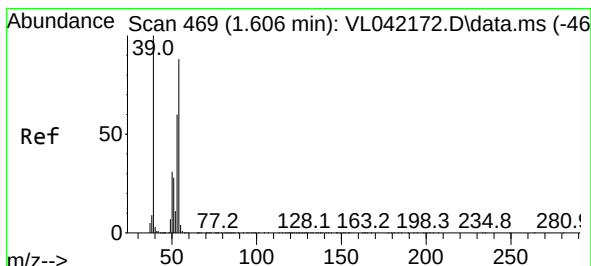
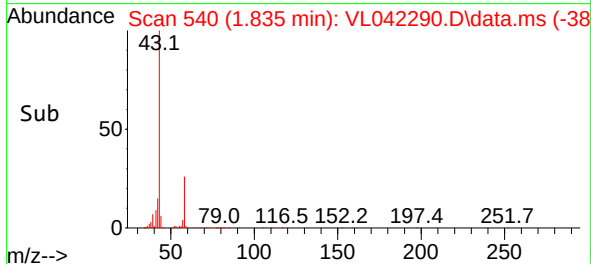
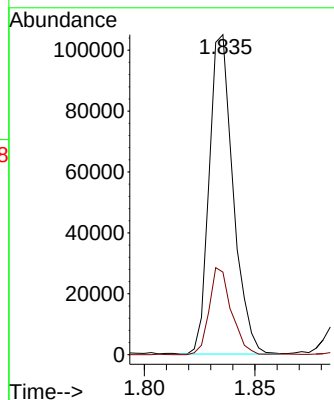
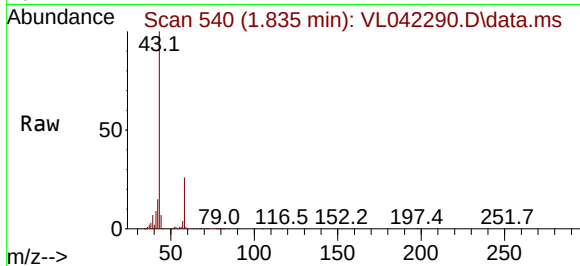




#15
Acetone
Concen: 3.556 ppbv
RT: 1.835 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25

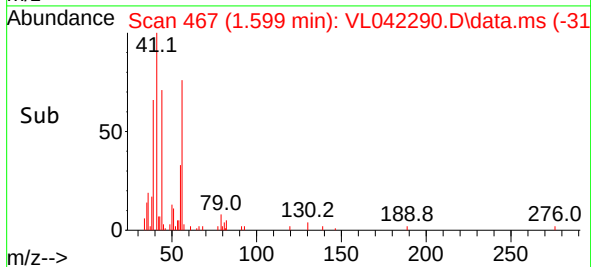
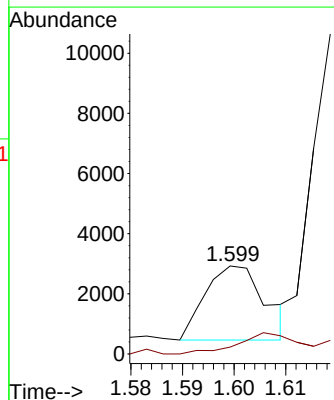
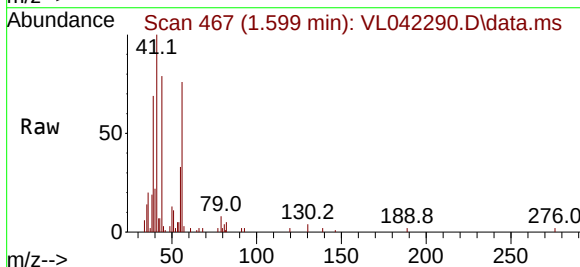
Instrument :
MSVOA_L
ClientSampleId :
AA-DUP-1-3242025

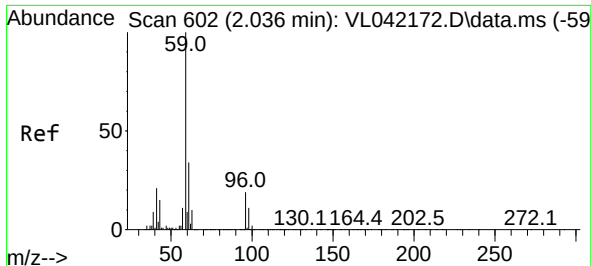
Tgt Ion: 43 Resp: 79179
Ion Ratio Lower Upper
43 100
58 25.4 23.2 34.8



#16
1,3-Butadiene
Concen: 0.183 ppbv
RT: 1.599 min Scan# 467
Delta R.T. -0.007 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25

Tgt Ion: 39 Resp: 1987
Ion Ratio Lower Upper
39 100
54 51.0 60.7 91.1#

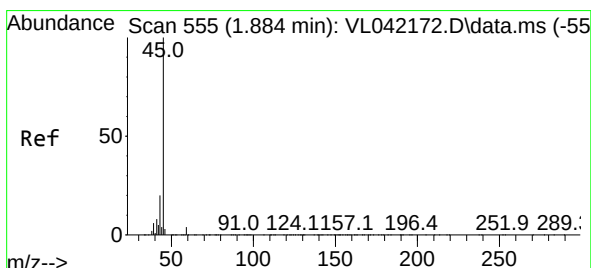
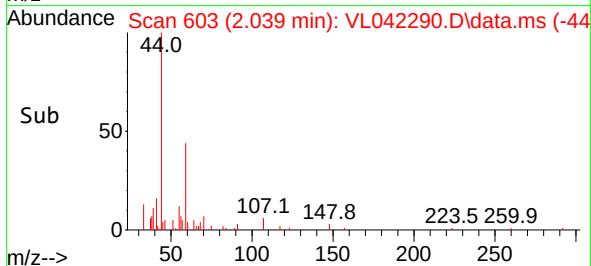
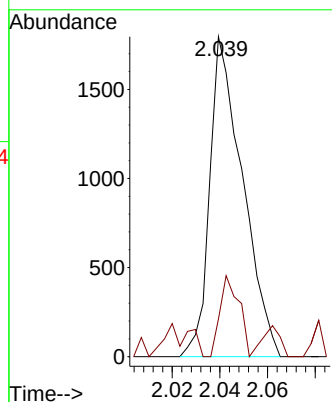
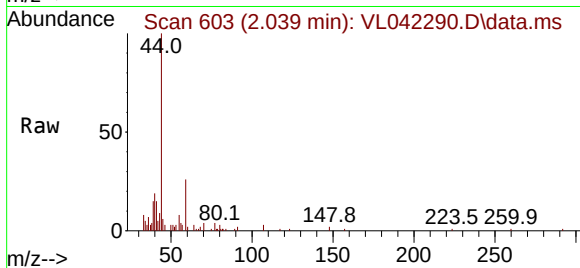




#17
tert-Butyl alcohol
Concen: 0.062 ppbv
RT: 2.039 min Scan# 602
Delta R.T. 0.003 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25

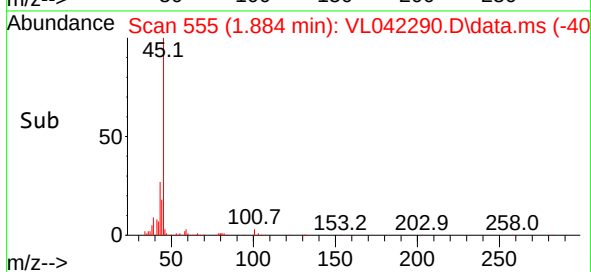
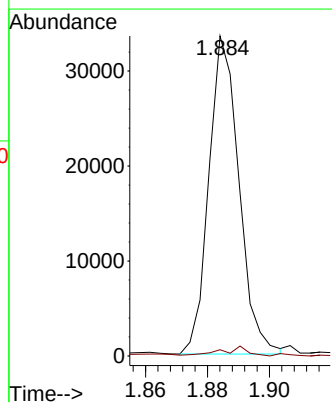
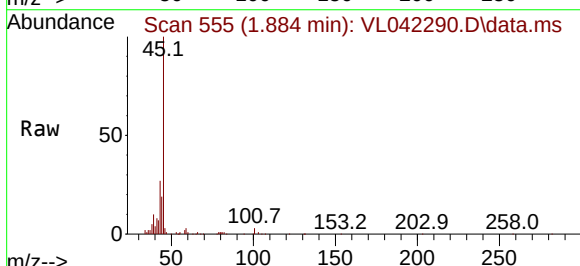
Instrument :
MSVOA_1
ClientSampleId :
AA-DUP-1-3242025

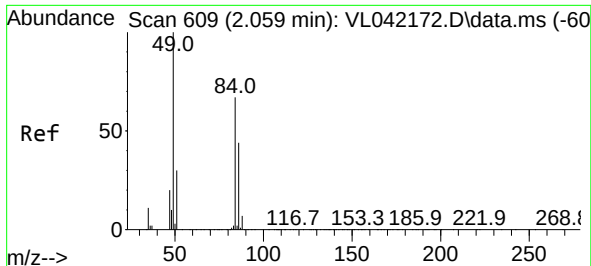
Tgt Ion: 59 Resp: 1723
Ion Ratio Lower Upper
59 100
57 28.8 8.9 13.3#



#19
Isopropyl Alcohol
Concen: 1.800 ppbv
RT: 1.884 min Scan# 555
Delta R.T. -0.000 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25

Tgt Ion: 45 Resp: 22614
Ion Ratio Lower Upper
45 100
58 89.0 36.9 55.3#





#20

Methylene Chloride

Concen: 0.953 ppbv

RT: 2.059 min Scan# 609

Delta R.T. -0.000 min

Lab File: VL042290.D

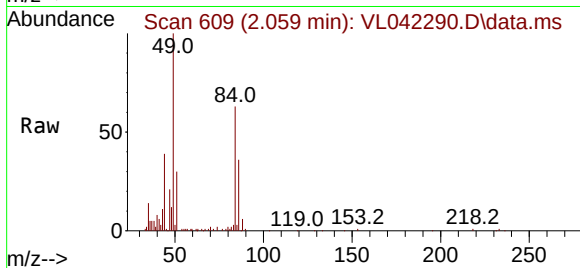
Acq: 09 Apr 2025 13:25

Instrument :

MSVOA_L

ClientSampleId :

AA-DUP-1-3242025



Tgt Ion: 84 Resp: 7901

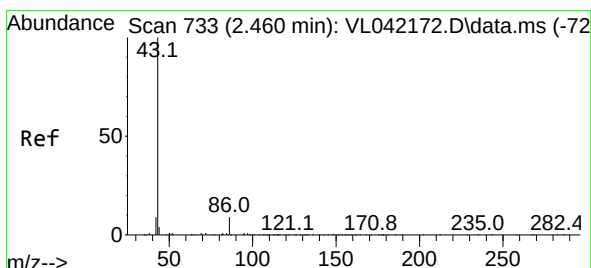
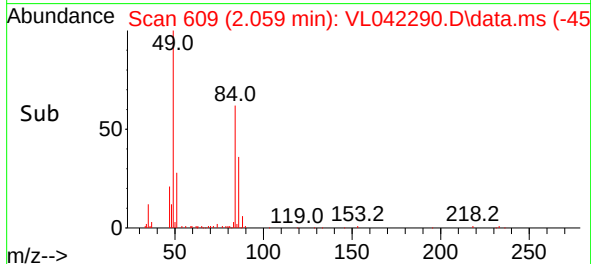
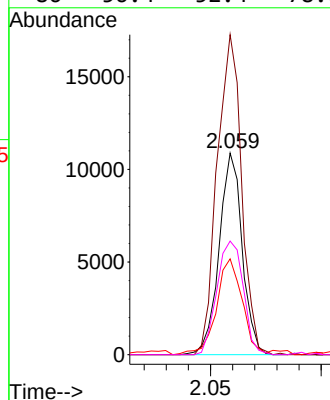
Ion Ratio Lower Upper

84 100

49 158.8 120.2 180.4

51 47.0 37.4 56.0

86 56.4 52.4 78.6



#23

Vinyl Acetate

Concen: 0.671 ppbv

RT: 2.454 min Scan# 731

Delta R.T. -0.007 min

Lab File: VL042290.D

Acq: 09 Apr 2025 13:25

Tgt Ion: 43 Resp: 6464

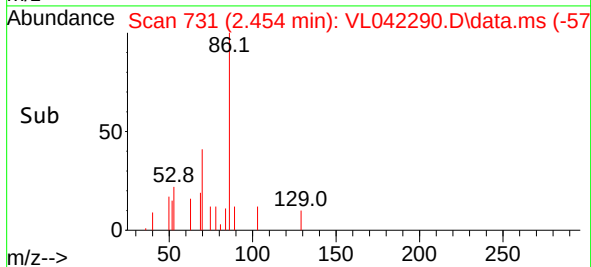
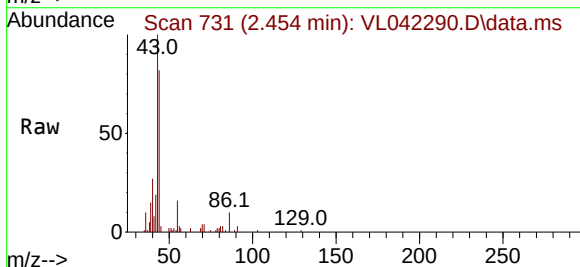
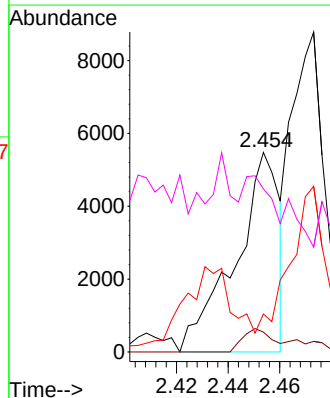
Ion Ratio Lower Upper

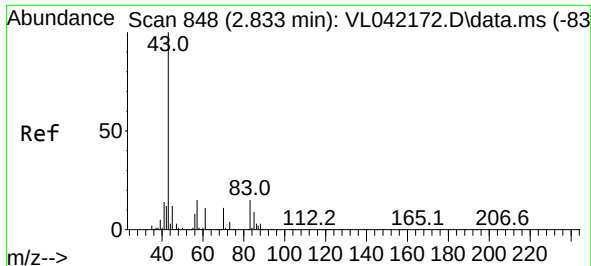
43 100

86 10.0 5.5 8.3#

42 0.0 8.6 13.0#

44 13.8 6.2 9.4#





#25

Ethyl Acetate

Concen: 0.496 ppbv

RT: 2.823 min Scan# 84

Delta R.T. -0.010 min

Lab File: VL042290.D

Acq: 09 Apr 2025 13:25

Instrument :

MSVOA_L

ClientSampleId :

AA-DUP-1-3242025

Tgt Ion: 43 Resp: 28683

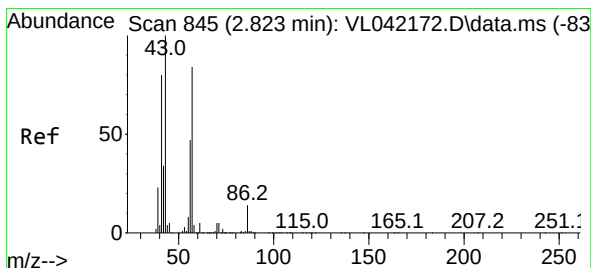
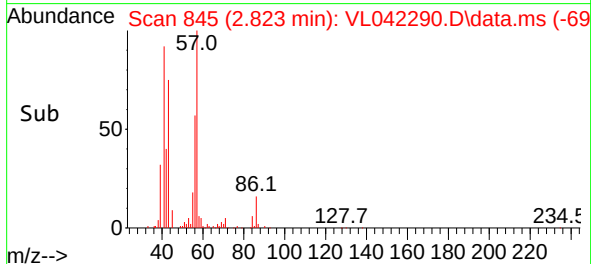
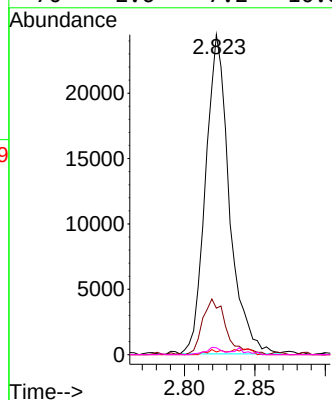
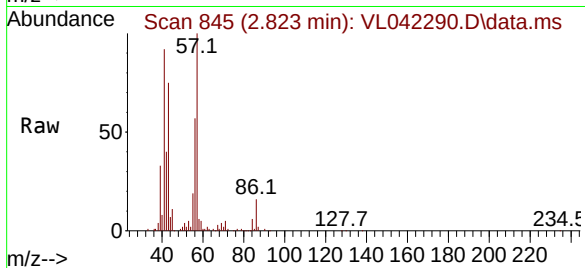
Ion Ratio Lower Upper

43 100

45 18.4 8.2 12.2#

61 2.4 7.3 10.9#

70 2.6 7.2 10.8#



#26

Hexane

Concen: 1.553 ppbv

RT: 2.823 min Scan# 845

Delta R.T. -0.000 min

Lab File: VL042290.D

Acq: 09 Apr 2025 13:25

Tgt Ion: 57 Resp: 34660

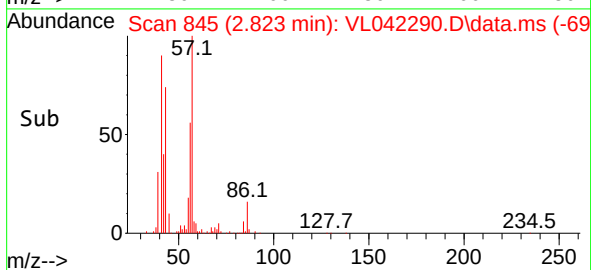
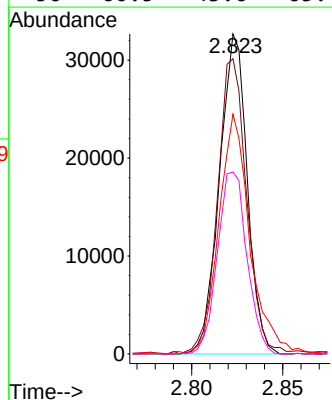
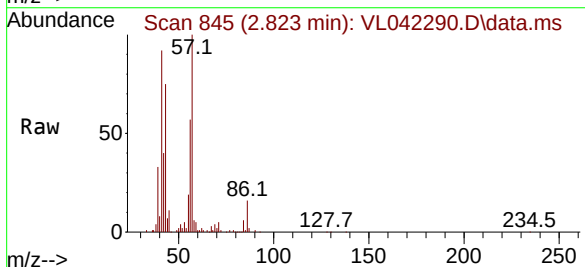
Ion Ratio Lower Upper

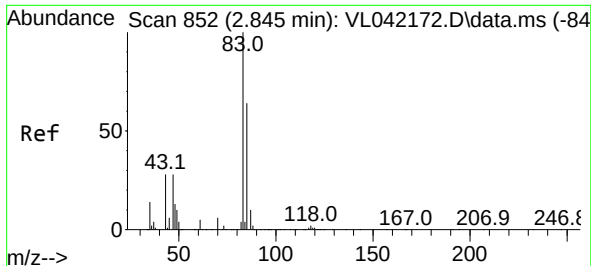
57 100

41 96.0 76.6 114.8

43 85.4 207.8 311.8#

56 60.5 43.6 65.4





#29

Chloroform

Concen: 0.042 ppbv

RT: 2.842 min Scan# 851

Delta R.T. -0.003 min

Lab File: VL042290.D

Acq: 09 Apr 2025 13:25

Instrument :

MSVOA_L

ClientSampleId :

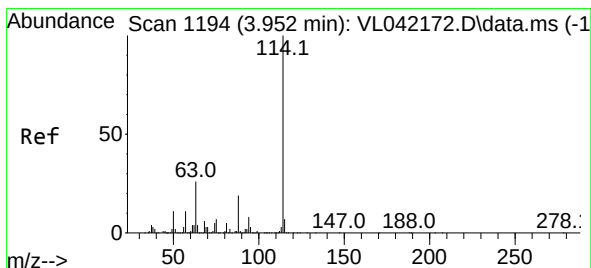
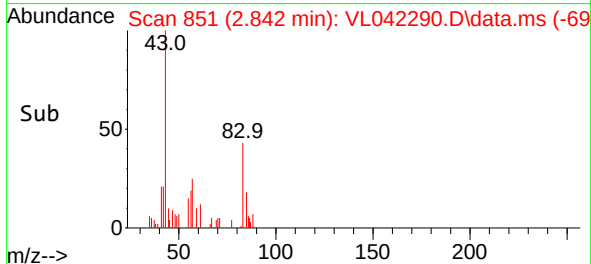
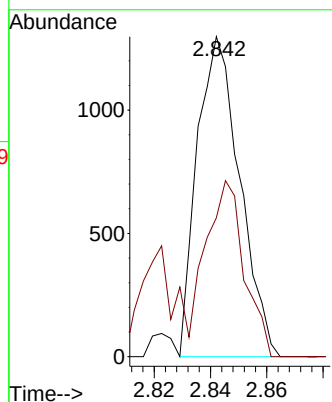
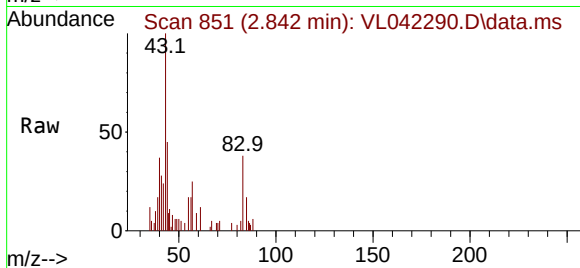
AA-DUP-1-3242025

Tgt Ion: 83 Resp: 1363

Ion Ratio Lower Upper

83 100

85 43.4 51.4 77.2#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.952 min Scan# 1194

Delta R.T. -0.000 min

Lab File: VL042290.D

Acq: 09 Apr 2025 13:25

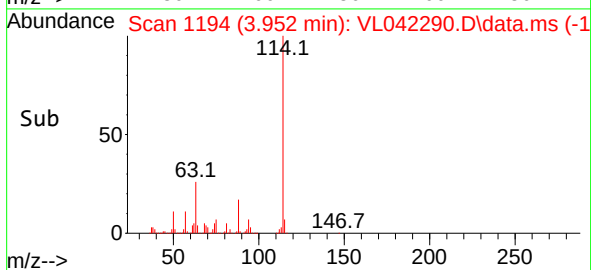
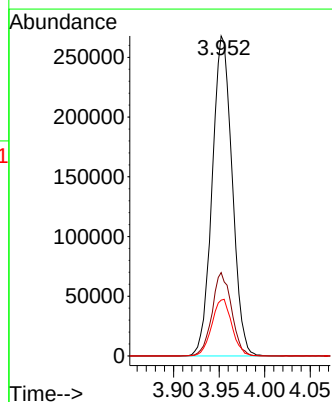
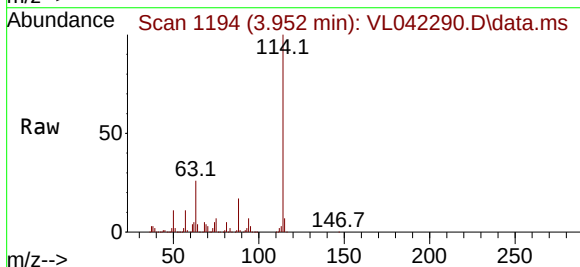
Tgt Ion: 114 Resp: 408039

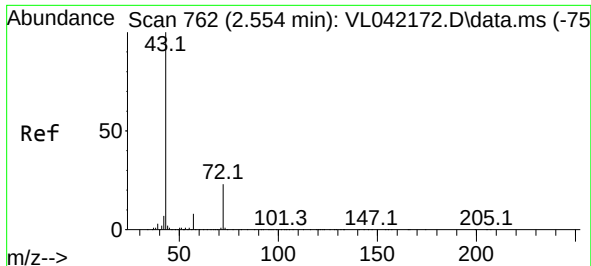
Ion Ratio Lower Upper

114 100

63 25.4 20.7 31.1

88 17.8 15.0 22.4

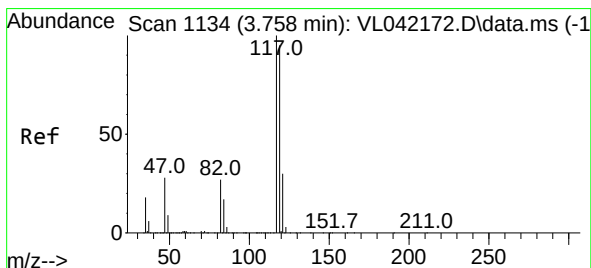
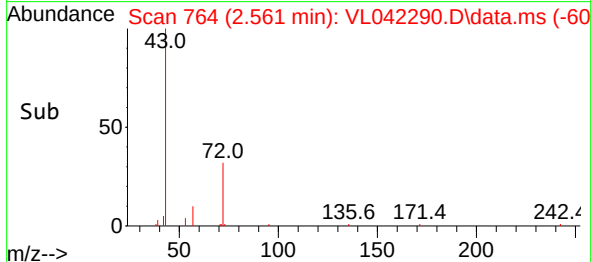
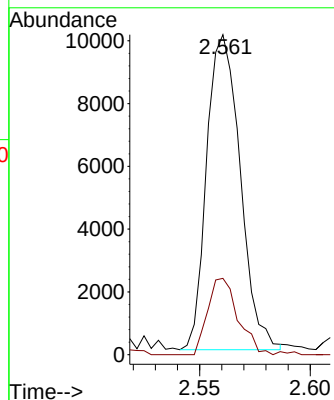
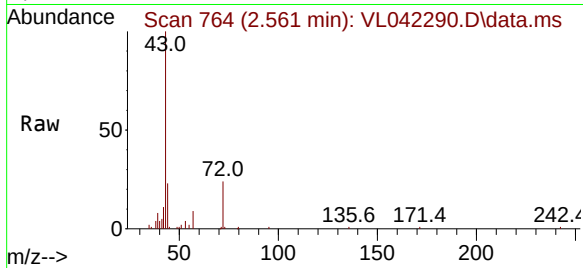




#34
2-Butanone
Concen: 0.357 ppbv
RT: 2.561 min Scan# 764
Delta R.T. 0.006 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25

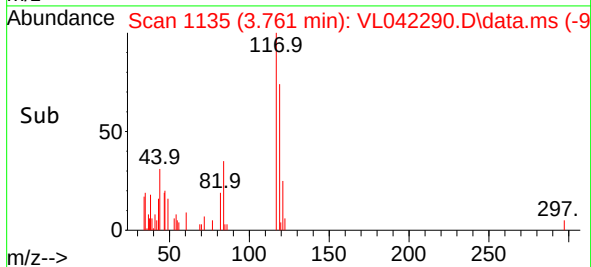
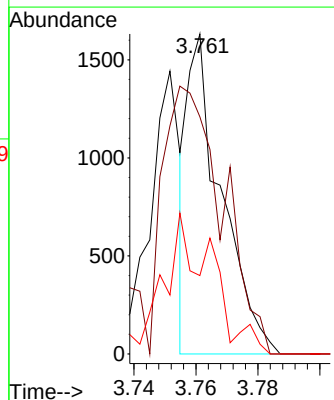
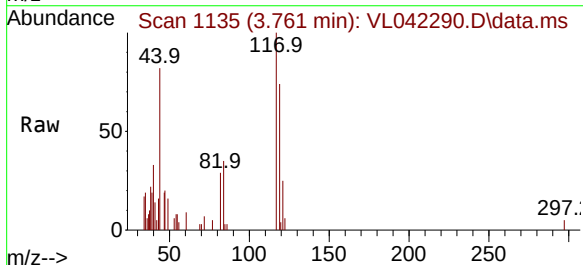
Instrument :
MSVOA_L
ClientSampleId :
AA-DUP-1-3242025

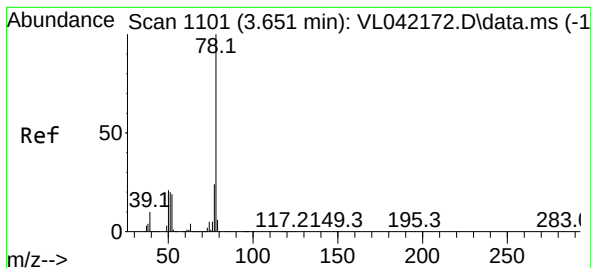
Tgt Ion: 43 Resp: 10562
Ion Ratio Lower Upper
43 100
72 22.3 18.2 27.2



#35
Carbon Tetrachloride
Concen: 0.039 ppbv
RT: 3.761 min Scan# 1135
Delta R.T. 0.003 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25

Tgt Ion: 117 Resp: 1242
Ion Ratio Lower Upper
117 100
119 78.2 76.2 114.2
121 24.5 24.2 36.4





#36

Benzene

Concen: 0.164 ppbv

RT: 3.651 min Scan# 1101

Delta R.T. -0.000 min

Lab File: VL042290.D

Acq: 09 Apr 2025 13:25

Instrument :

MSVOA_1

ClientSampleId :

AA-DUP-1-3242025

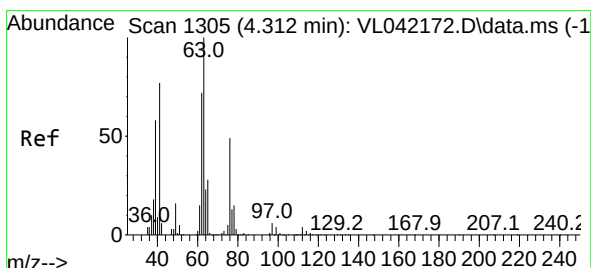
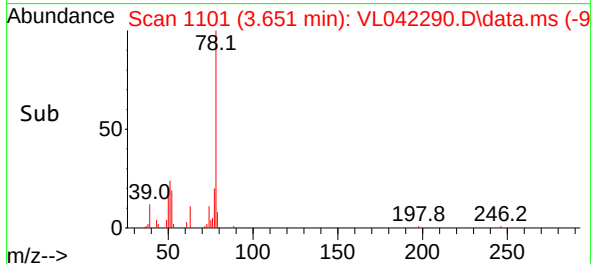
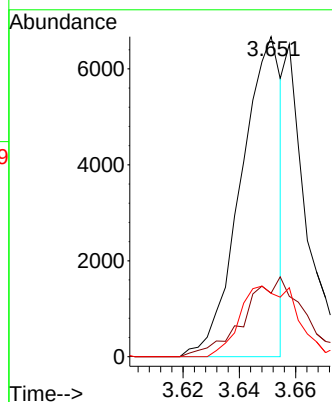
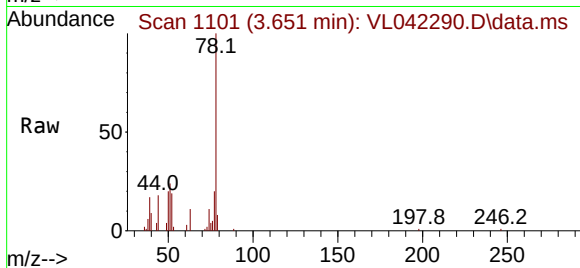
Tgt Ion: 78 Resp: 6629

Ion Ratio Lower Upper

78 100

77 19.9 19.1 28.7

50 19.8 16.6 24.8



#39

1,2-Dichloropropane

Concen: 7.034 ppbv

RT: 3.952 min Scan# 1194

Delta R.T. -0.359 min

Lab File: VL042290.D

Acq: 09 Apr 2025 13:25

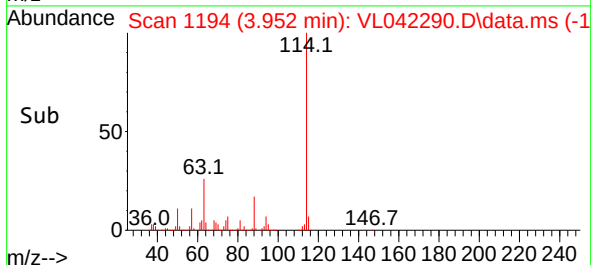
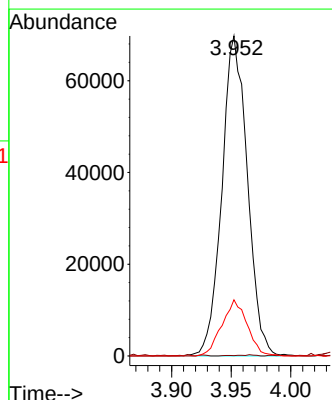
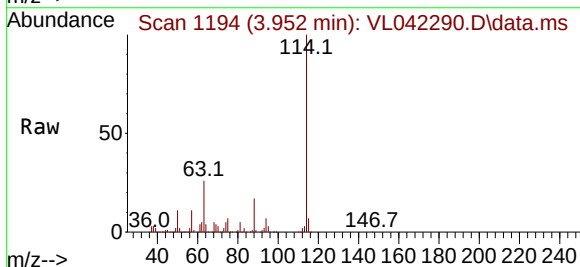
Tgt Ion: 63 Resp: 103630

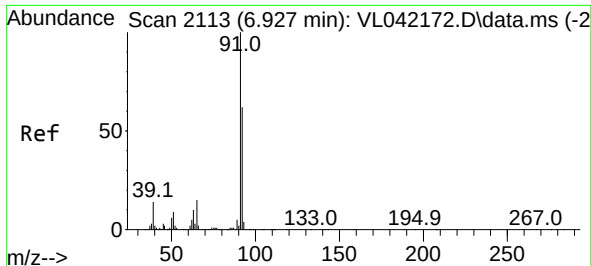
Ion Ratio Lower Upper

63 100

41 0.0 61.7 92.5#

62 17.5 57.6 86.4#

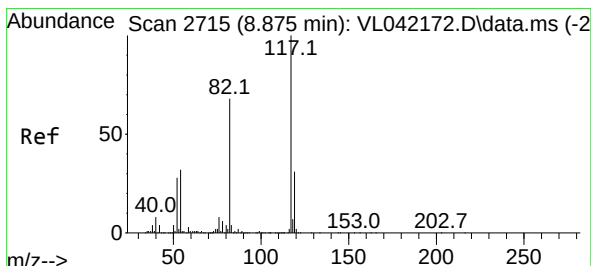
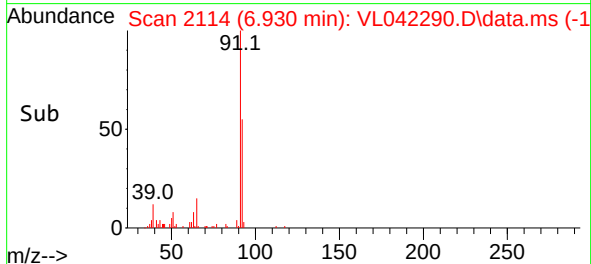
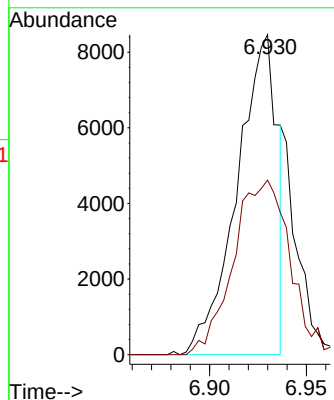
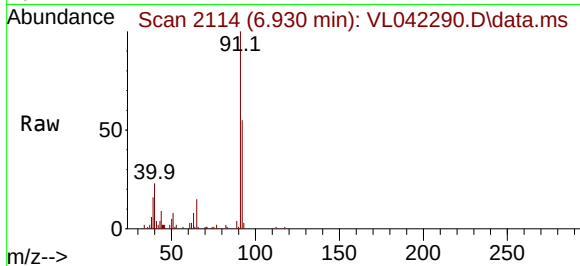




#53
Toluene
Concen: 0.256 ppbv
RT: 6.930 min Scan# 2113
Delta R.T. 0.003 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25

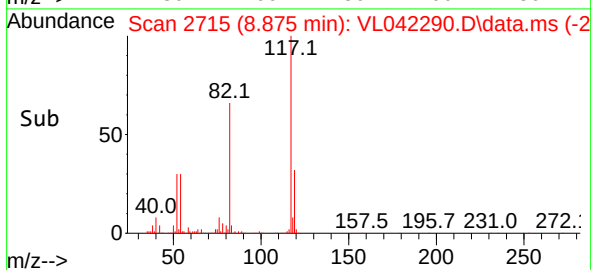
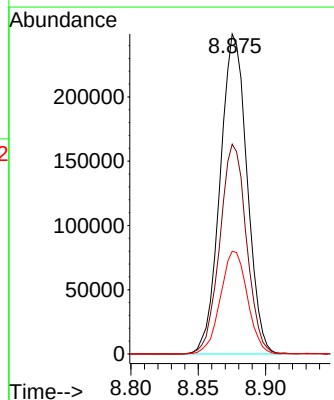
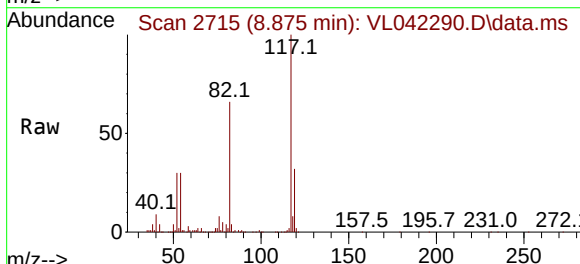
Instrument :
MSVOA_L
ClientSampleId :
AA-DUP-1-3242025

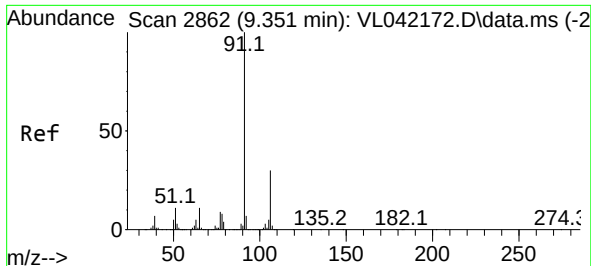
Tgt Ion: 91 Resp: 12275
Ion Ratio Lower Upper
91 100
92 76.4 48.4 72.6#



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. -0.000 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25

Tgt Ion: 117 Resp: 345931
Ion Ratio Lower Upper
117 100
82 65.1 55.8 83.6
119 32.4 25.5 38.3





#58

Ethyl Benzene

Concen: 0.044 ppbv

RT: 9.348 min Scan# 21

Delta R.T. -0.003 min

Lab File: VL042290.D

Acq: 09 Apr 2025 13:25

Instrument :

MSVOA_1

ClientSampleId :

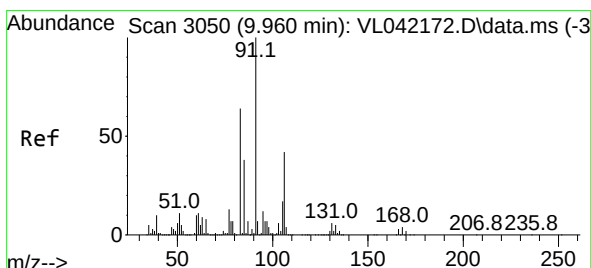
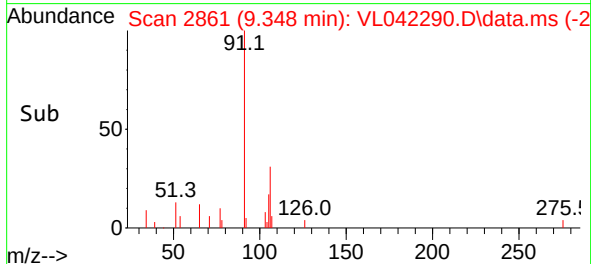
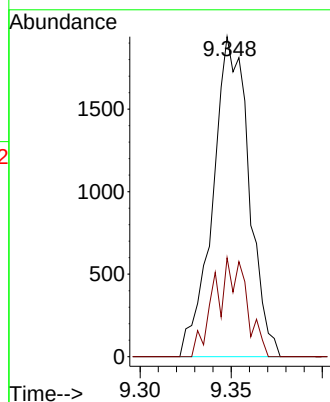
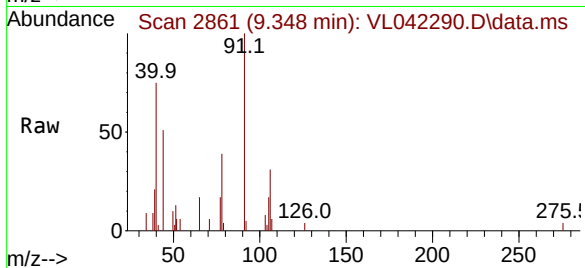
AA-DUP-1-3242025

Tgt Ion: 91 Resp: 2673

Ion Ratio Lower Upper

91 100

106 30.9 24.2 36.2



#60

o-Xylene

Concen: 0.051 ppbv

RT: 9.959 min Scan# 3050

Delta R.T. -0.000 min

Lab File: VL042290.D

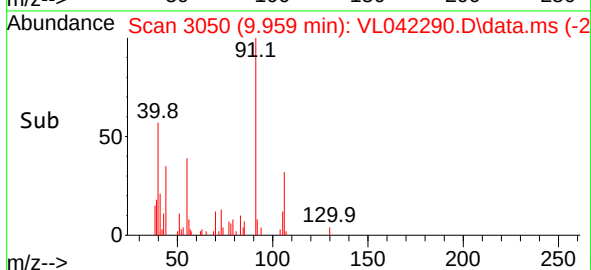
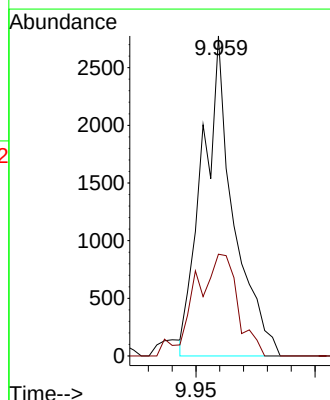
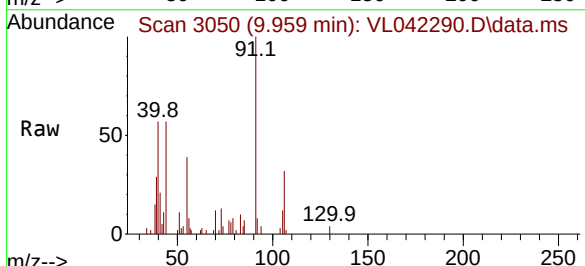
Acq: 09 Apr 2025 13:25

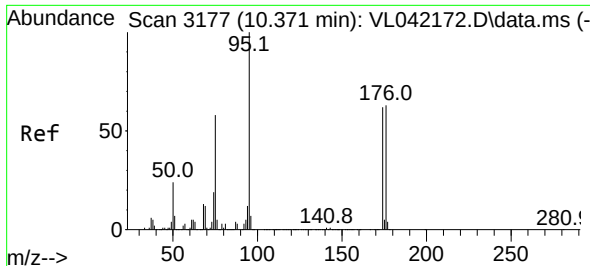
Tgt Ion: 91 Resp: 2526

Ion Ratio Lower Upper

91 100

106 43.2 20.8 62.5

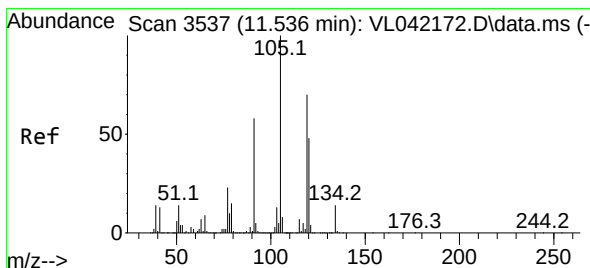
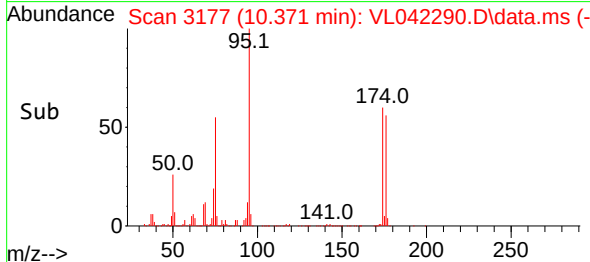
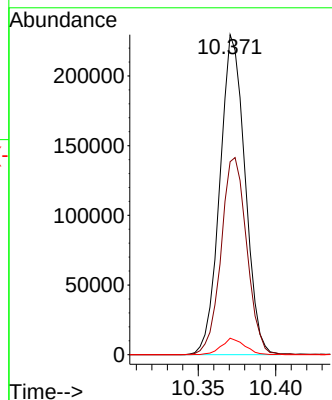
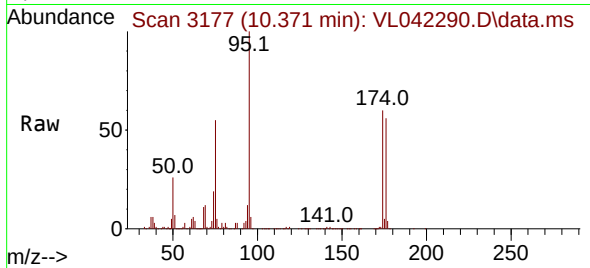




#68
1-Bromo-4-Fluorobenzene
Concen: 9.116 ppbv
RT: 10.371 min Scan# 3177
Delta R.T. -0.000 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25

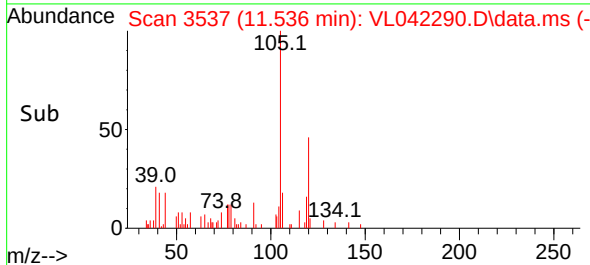
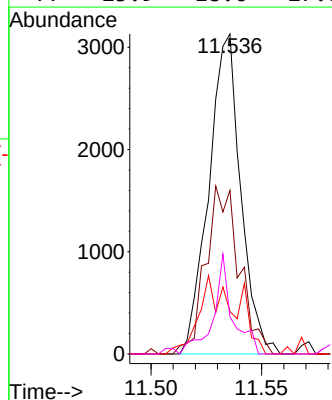
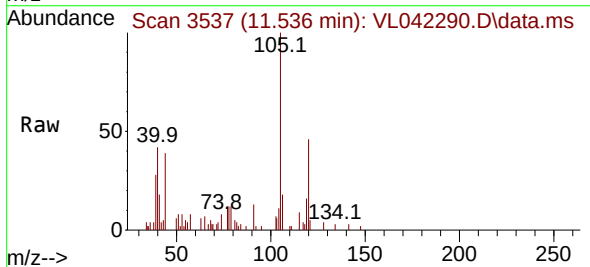
Instrument :
MSVOA_1
ClientSampleId :
AA-DUP-1-3242025

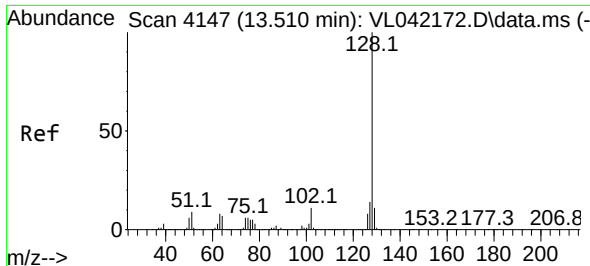
Tgt Ion: 95 Resp: 258960
Ion Ratio Lower Upper
95 100
174 63.3 50.6 76.0
175 4.8 3.8 5.6



#74
1,2,4-Trimethylbenzene
Concen: 0.051 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. -0.000 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25

Tgt Ion: 105 Resp: 3147
Ion Ratio Lower Upper
105 100
120 51.1 38.6 58.0
91 13.3 46.2 69.2#
77 23.9 18.6 27.8

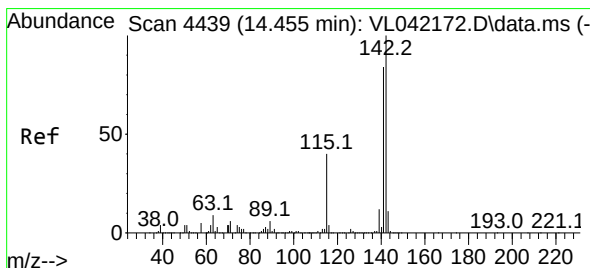
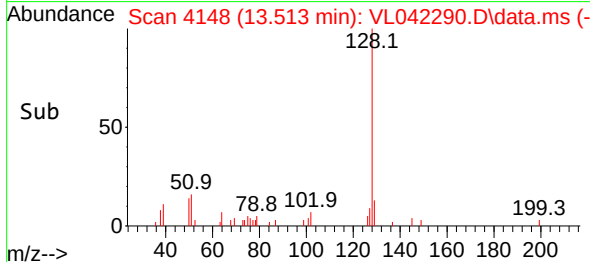
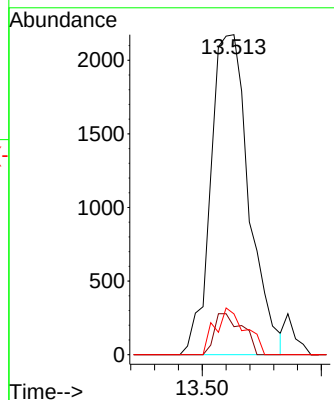
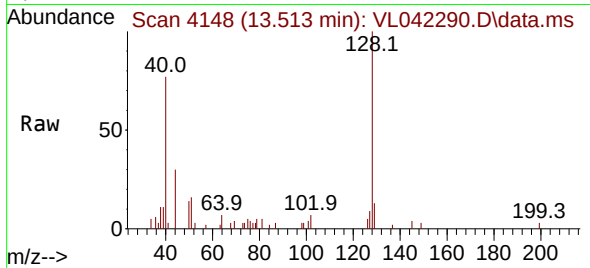




#79
Naphthalene
Concen: 0.036 ppbv
RT: 13.513 min Scan# 4148
Delta R.T. 0.003 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25

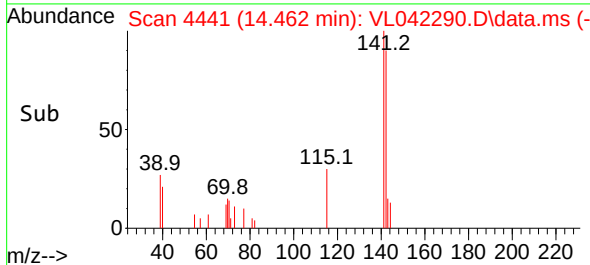
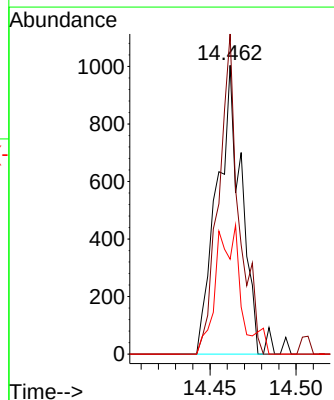
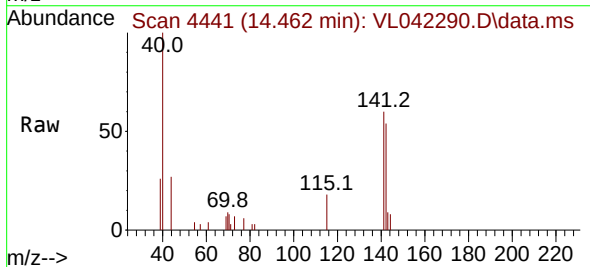
Instrument :
MSVOA_1
ClientSampleId :
AA-DUP-1-3242025

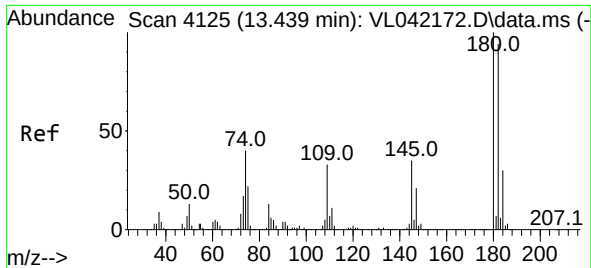
Tgt Ion:128 Resp: 2423
Ion Ratio Lower Upper
128 100
127 8.7 10.8 16.2#
129 12.7 9.0 13.4



#80
Naphthalene,2-methyl-
Concen: 0.030 ppbv
RT: 14.462 min Scan# 4441
Delta R.T. 0.006 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25

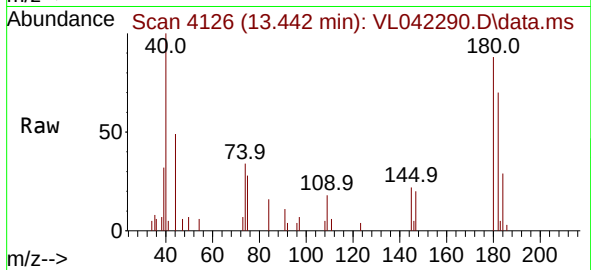
Tgt Ion:142 Resp: 999
Ion Ratio Lower Upper
142 100
141 90.9 66.3 99.5
115 45.1 31.6 47.4



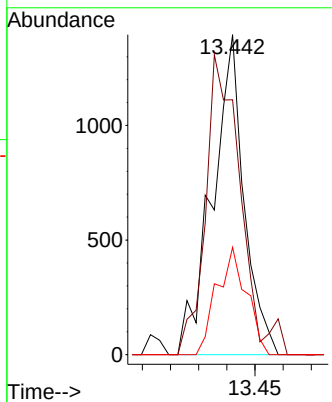
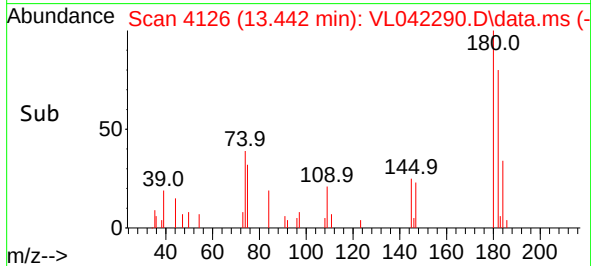


#81
 1,2,4-Trichlorobenzene
 Concen: 0.035 ppbv
 RT: 13.442 min Scan# 41
 Delta R.T. 0.003 min
 Lab File: VL042290.D
 Acq: 09 Apr 2025 13:25

Instrument :
 MSVOA_L
 ClientSampleId :
 AA-DUP-1-3242025



Tgt Ion:	180	Resp:	1092
Ion	Ratio	Lower	Upper
180	100		
182	102.4	75.1	112.7
184	31.3	24.4	36.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
 Data File : VL042292.D
 Acq On : 09 Apr 2025 14:36
 Operator : SY/MD
 Sample : Q1665-04
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 AA-1-3242025

Quant Time: Apr 10 01:44:34 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 02:00:52 2025
 Response via : Initial Calibration

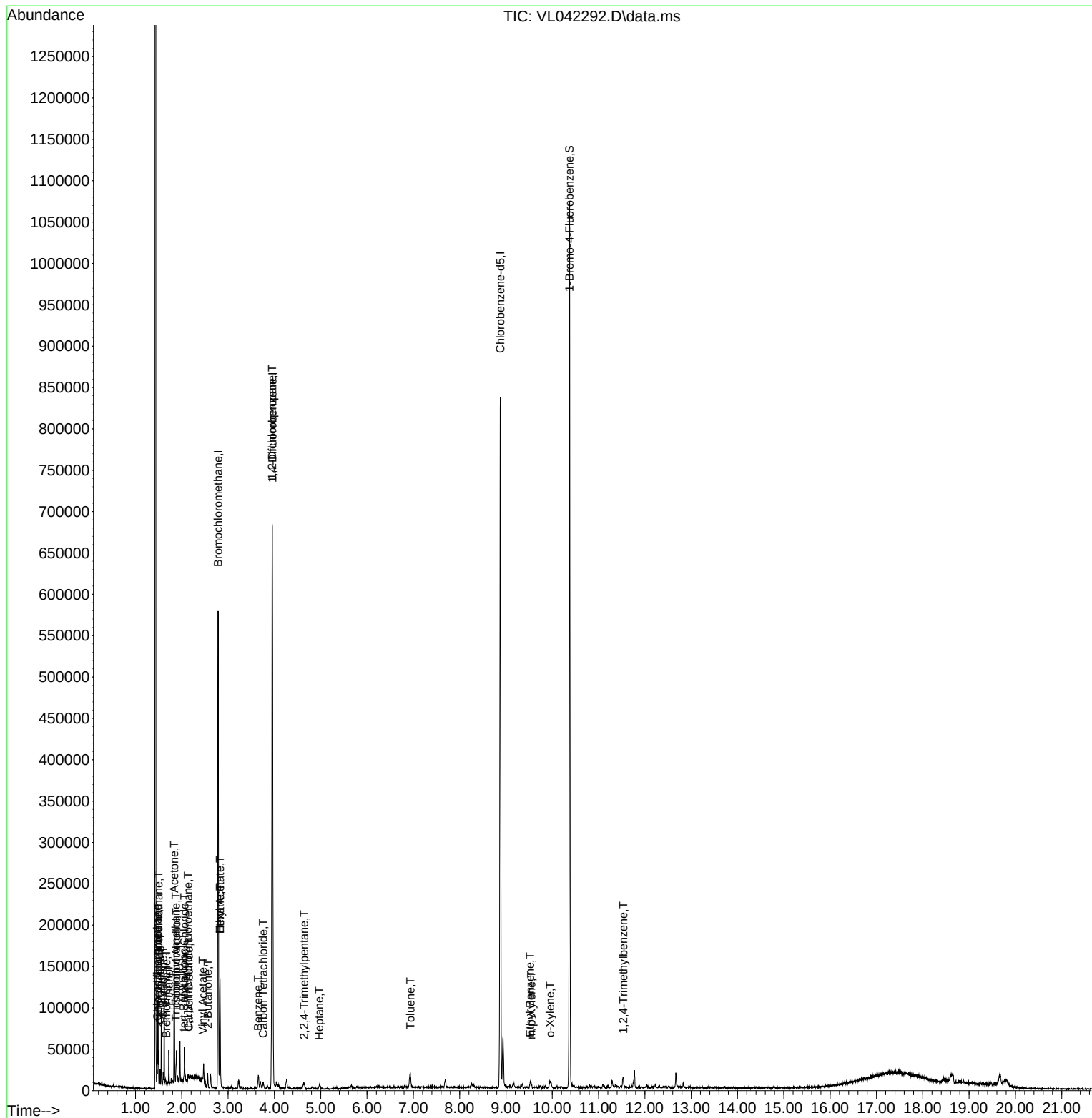
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.784	49	157856	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.956	114	383411	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.879	117	331322	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	250999	9.225	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.200%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.496	85	9272	0.398	ppbv	99
3) Chlorodifluoromethane	1.473	51	12952	0.544	ppbv #	88
4) Chloromethane	1.531	50	5277	0.554	ppbv	92
6) Bromomethane	1.664	94	192	0.044	ppbv #	47
9) Propene	1.486	41	8231	0.754	ppbv	93
10) Heptane	4.969	43	1272	0.044	ppbv #	28
11) Trichlorofluoromethane	1.874	101	4773	0.210	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.137	101	1154	0.062	ppbv	92
13) Ethanol	1.719	45	13232	12.826	ppbv	88
15) Acetone	1.836	43	76719	3.475	ppbv	91
16) 1,3-Butadiene	1.599	39	1674	0.155	ppbv #	68
17) tert-Butyl alcohol	2.046	59	1518	0.055	ppbv #	71
19) Isopropyl Alcohol	1.884	45	14854	1.192	ppbv #	1
20) Methylene Chloride	2.059	84	5511	0.670	ppbv	96
23) Vinyl Acetate	2.454	43	1222	0.128	ppbv #	74
25) Ethyl Acetate	2.823	43	21094	0.368	ppbv #	78
26) Hexane	2.823	57	23758	1.073	ppbv #	35
27) Carbon Disulfide	2.150	76	1122	0.047	ppbv #	51
34) 2-Butanone	2.561	43	9840	0.354	ppbv	99
35) Carbon Tetrachloride	3.758	117	2688	0.090	ppbv	89
36) Benzene	3.651	78	9637	0.254	ppbv #	85
39) 1,2-Dichloropropane	3.952	63	102317	7.391	ppbv #	22
44) 2,2,4-Trimethylpentane	4.642	57	2764	0.043	ppbv #	26
53) Toluene	6.937	91	5021	0.111	ppbv #	1
58) Ethyl Benzene	9.523	91	2126	0.036	ppbv	93
59) m/p-Xylene	9.549	91	1569	0.033	ppbv #	31
60) o-Xylene	9.956	91	1723	0.037	ppbv	78
74) 1,2,4-Trimethylbenzene	11.533	105	2383	0.040	ppbv #	68

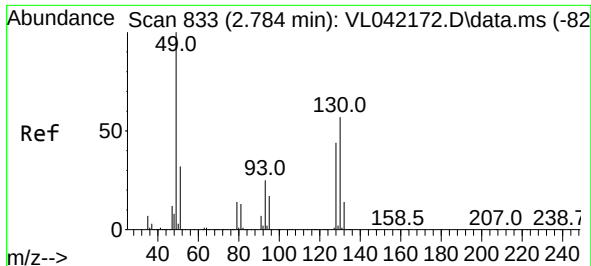
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042292.D
Acq On : 09 Apr 2025 14:36
Operator : SY/MD
Sample : Q1665-04
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
AA-1-3242025

Quant Time: Apr 10 01:44:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

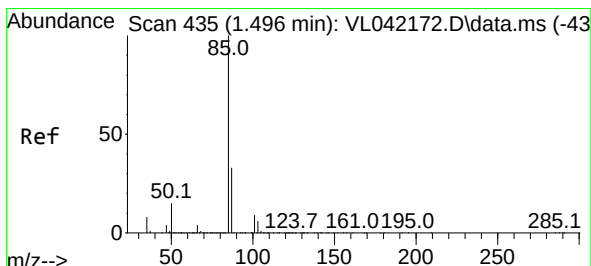
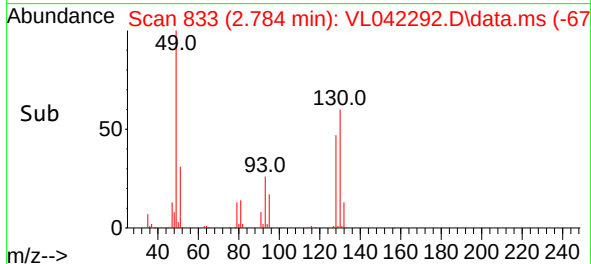
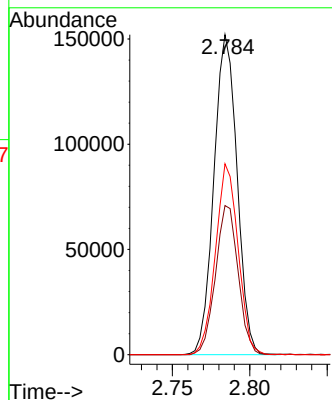
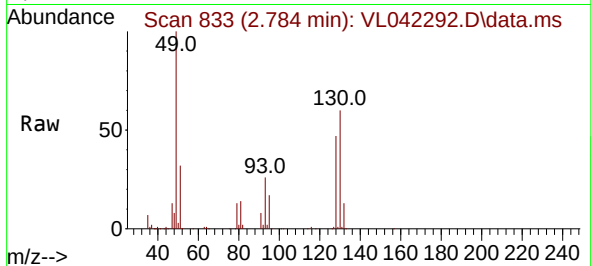




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. -0.000 min
Lab File: VL042292.D
Acq: 09 Apr 2025 14:36

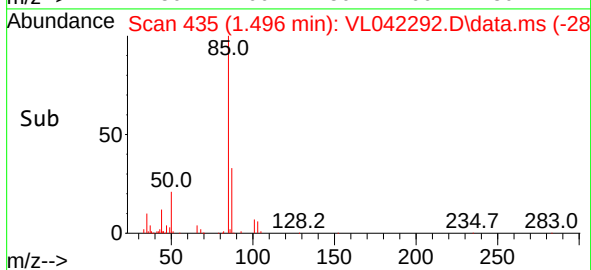
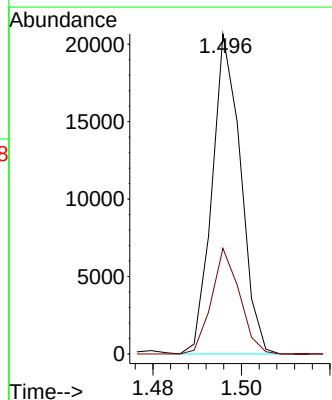
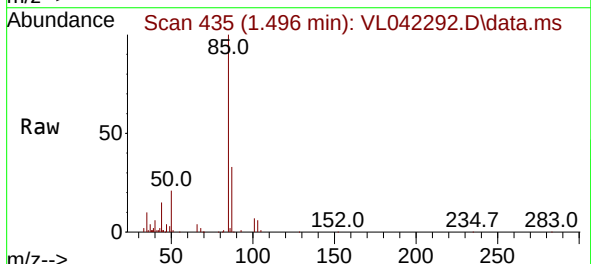
Instrument :
MSVOA_L
ClientSampleId :
AA-1-3242025

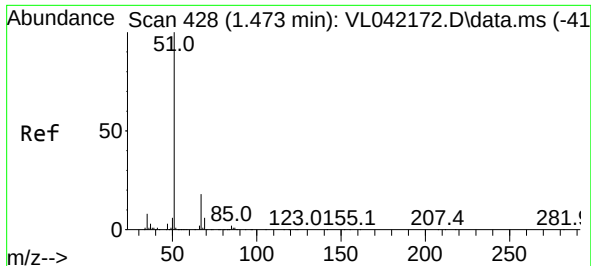
Tgt Ion: 49 Resp: 157856
Ion Ratio Lower Upper
49 100
128 45.7 22.9 68.5
130 58.3 28.8 86.4



#2
Dichlorodifluoromethane
Concen: 0.398 ppbv
RT: 1.496 min Scan# 435
Delta R.T. 0.000 min
Lab File: VL042292.D
Acq: 09 Apr 2025 14:36

Tgt Ion: 85 Resp: 9272
Ion Ratio Lower Upper
85 100
87 33.0 26.1 39.1

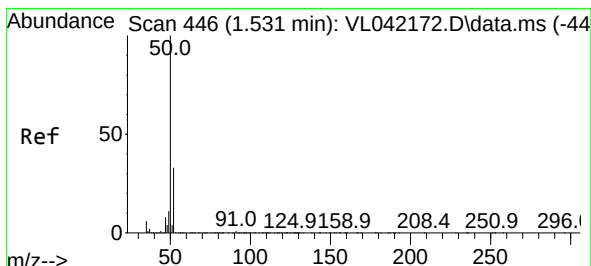
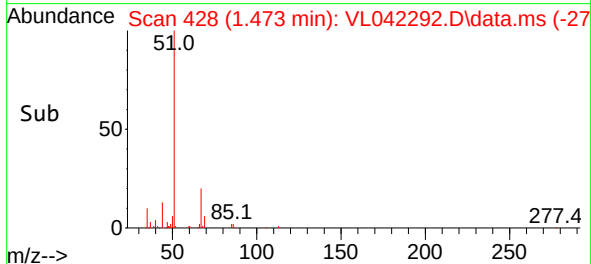
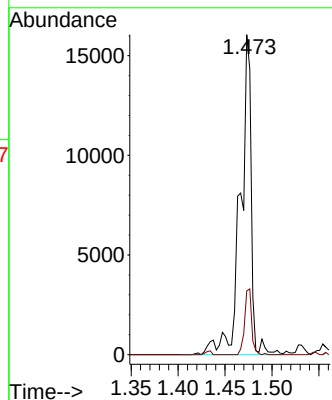
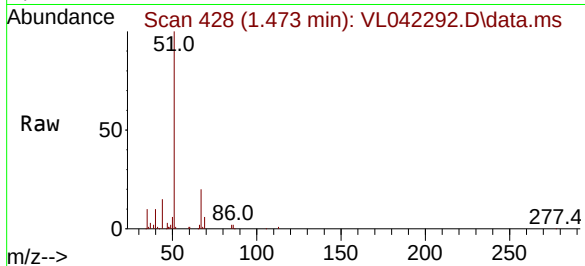




#3
Chlorodifluoromethane
Concen: 0.544 ppbv
RT: 1.473 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL042292.D
Acq: 09 Apr 2025 14:36

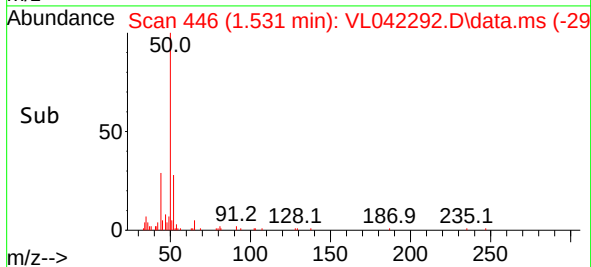
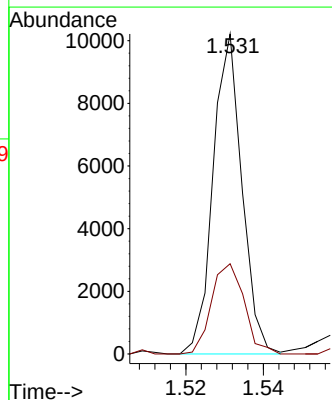
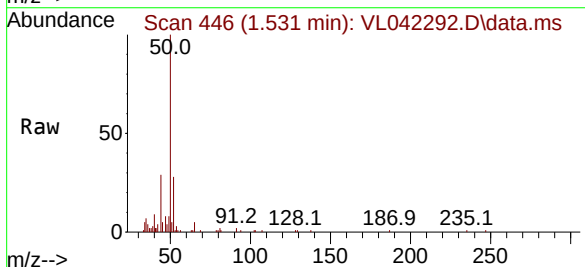
Instrument :
MSVOA_L
ClientSampleId :
AA-1-3242025

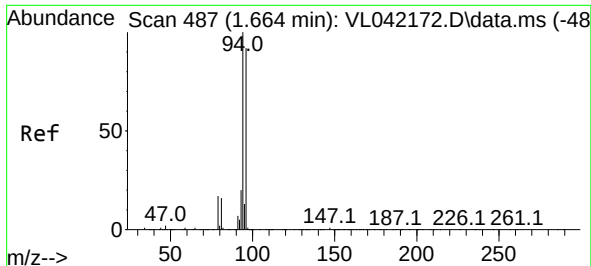
Tgt Ion: 51 Resp: 12952
Ion Ratio Lower Upper
51 100
67 13.3 15.0 22.6#



#4
Chloromethane
Concen: 0.554 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042292.D
Acq: 09 Apr 2025 14:36

Tgt Ion: 50 Resp: 5277
Ion Ratio Lower Upper
50 100
52 28.2 26.1 39.1

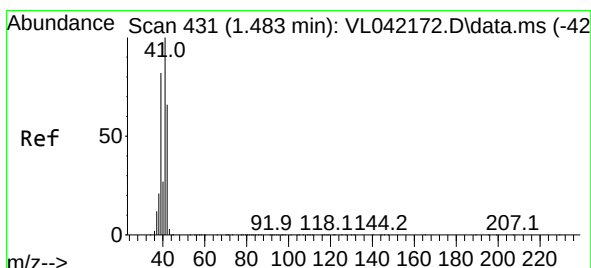
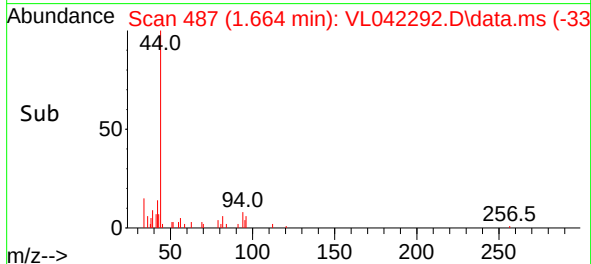
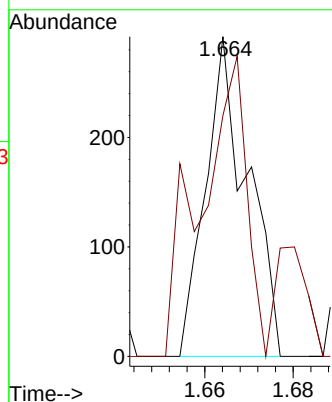
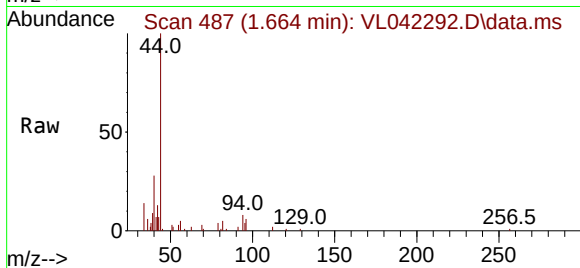




#6
Bromomethane
Concen: 0.044 ppbv
RT: 1.664 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL042292.D
Acq: 09 Apr 2025 14:36

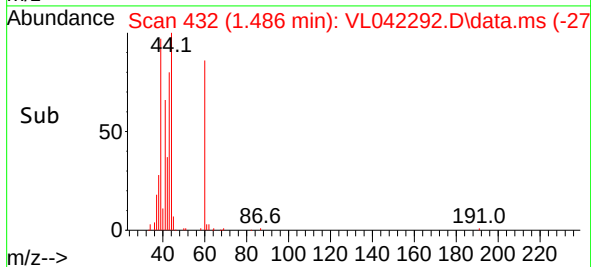
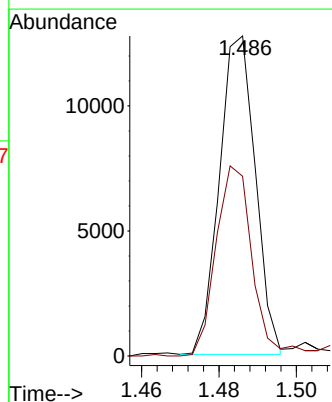
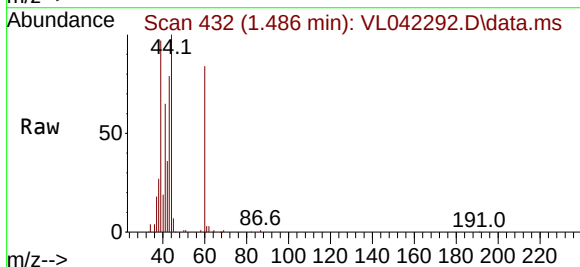
Instrument :
MSVOA_L
ClientSampleId :
AA-1-3242025

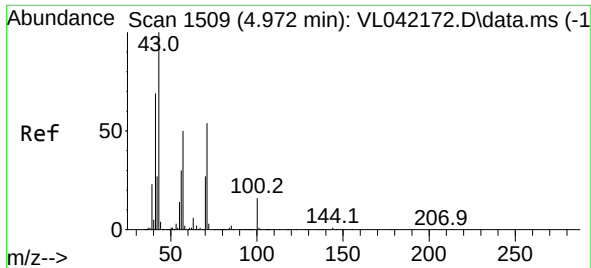
Tgt Ion: 94 Resp: 192
Ion Ratio Lower Upper
94 100
96 41.4 73.1 109.7#



#9
Propene
Concen: 0.754 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.003 min
Lab File: VL042292.D
Acq: 09 Apr 2025 14:36

Tgt Ion: 41 Resp: 8231
Ion Ratio Lower Upper
41 100
42 63.3 55.4 83.2

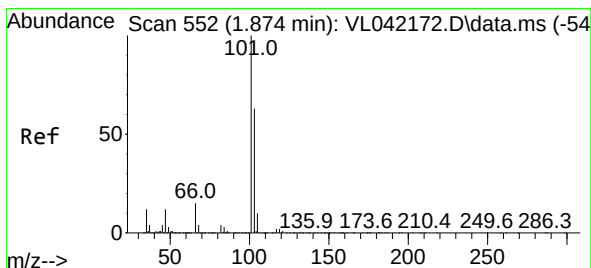
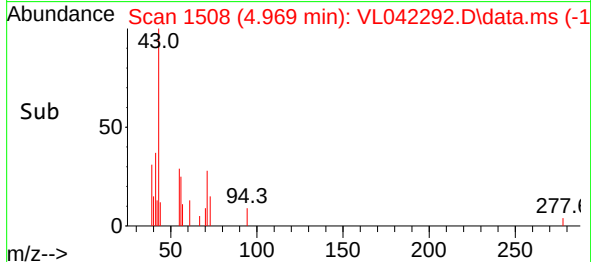
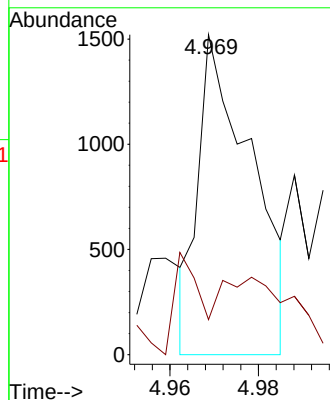
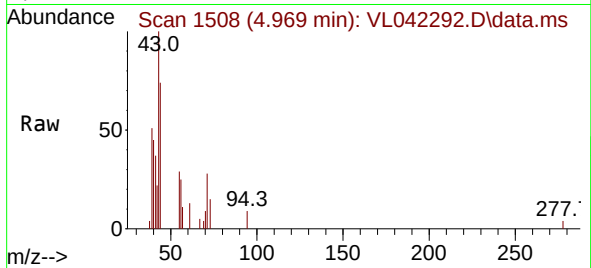




#10
 Heptane
 Concen: 0.044 ppbv
 RT: 4.969 min Scan# 11
 Delta R.T. -0.003 min
 Lab File: VL042292.D
 Acq: 09 Apr 2025 14:36

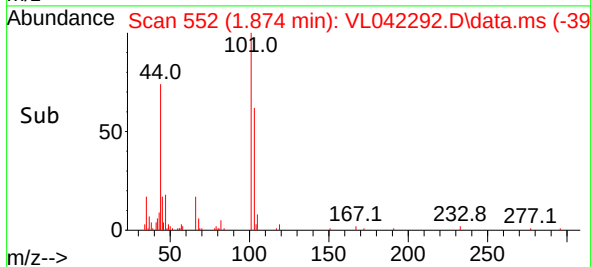
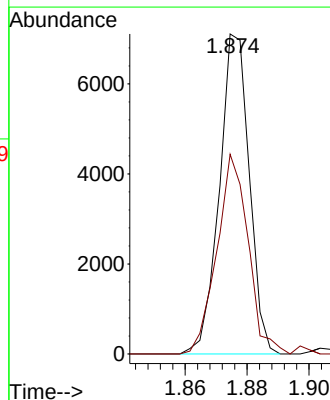
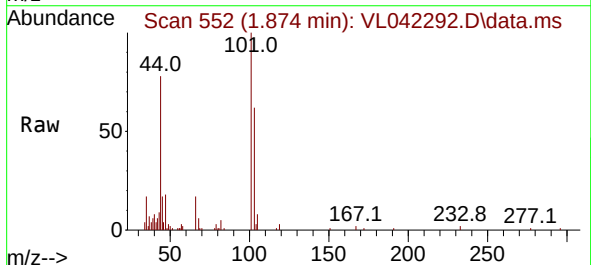
Instrument :
 MSVOA_L
 ClientSampleId :
 AA-1-3242025

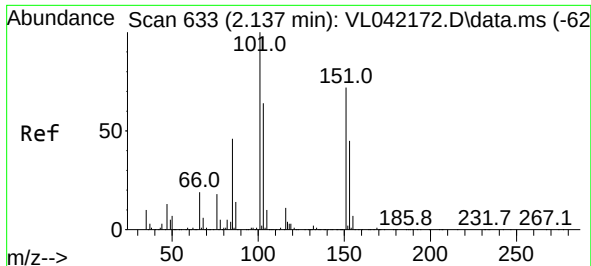
Tgt Ion: 43 Resp: 1272
 Ion Ratio Lower Upper
 43 100
 57 0.0 39.4 59.2#



#11
 Trichlorofluoromethane
 Concen: 0.210 ppbv
 RT: 1.874 min Scan# 552
 Delta R.T. 0.000 min
 Lab File: VL042292.D
 Acq: 09 Apr 2025 14:36

Tgt Ion: 101 Resp: 4773
 Ion Ratio Lower Upper
 101 100
 103 62.4 50.2 75.2

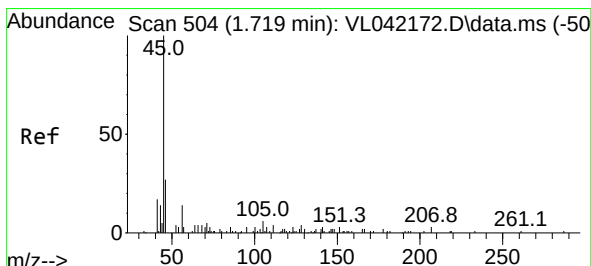
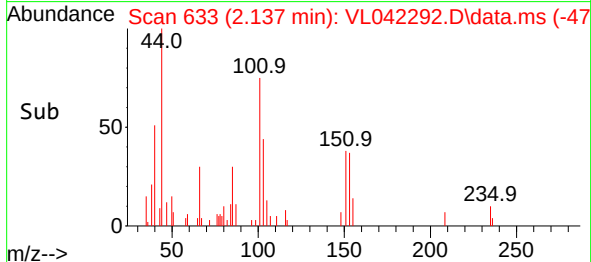
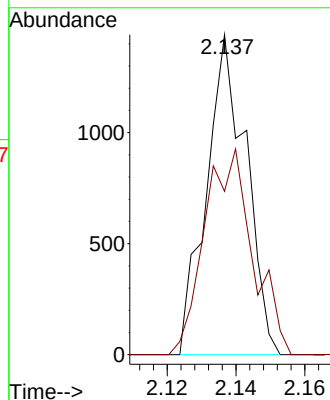
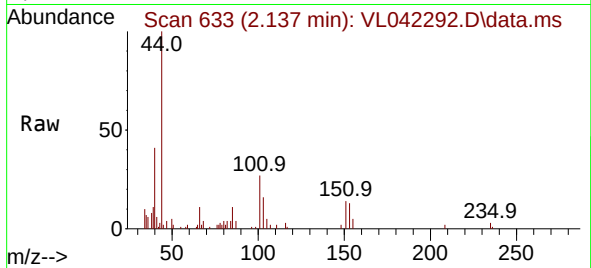




#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.062 ppbv
 RT: 2.137 min Scan# 611
 Delta R.T. 0.000 min
 Lab File: VL042292.D
 Acq: 09 Apr 2025 14:36

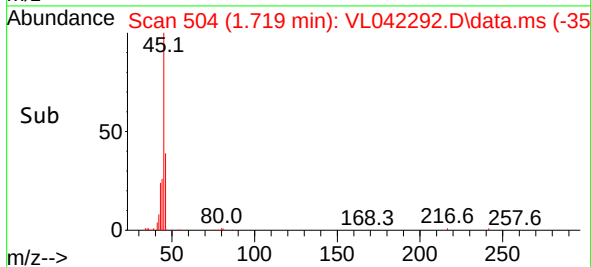
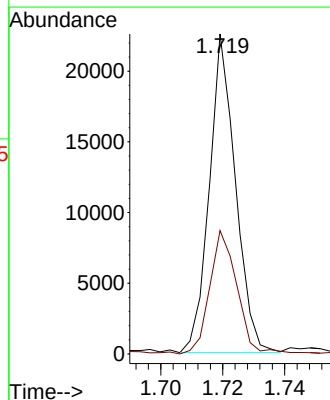
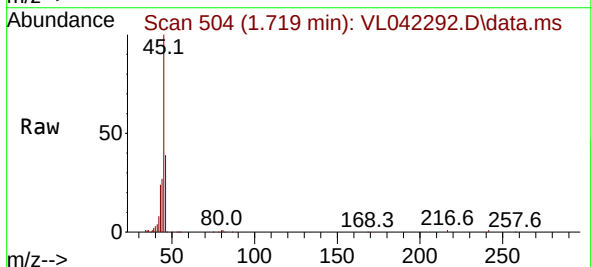
Instrument :
 MSVOA_L
 ClientSampleId :
 AA-1-3242025

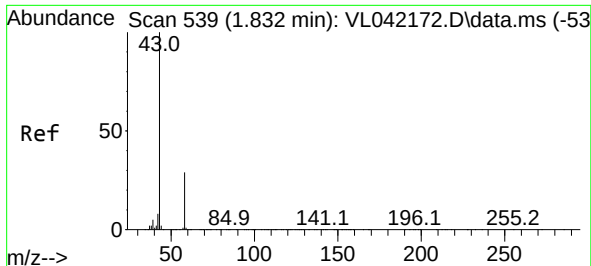
Tgt Ion:101 Resp: 1154
 Ion Ratio Lower Upper
 101 100
 151 78.2 57.1 85.7



#13
 Ethanol
 Concen: 12.826 ppbv
 RT: 1.719 min Scan# 504
 Delta R.T. 0.000 min
 Lab File: VL042292.D
 Acq: 09 Apr 2025 14:36

Tgt Ion: 45 Resp: 13232
 Ion Ratio Lower Upper
 45 100
 46 42.5 20.2 80.8

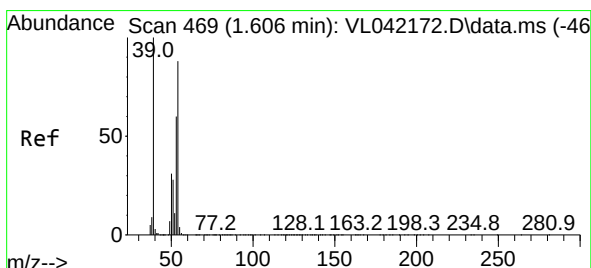
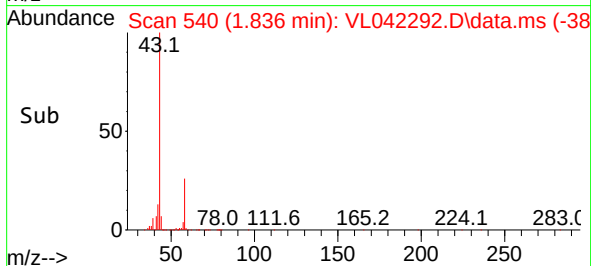
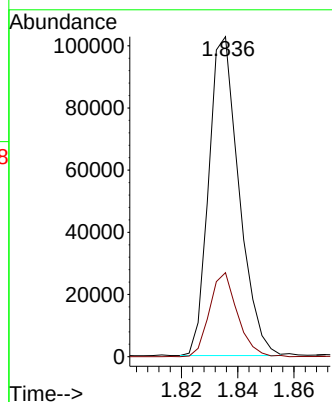
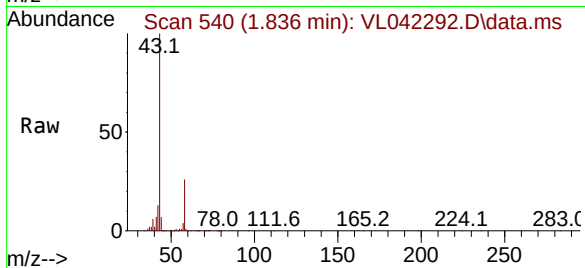




#15
Acetone
Concen: 3.475 ppbv
RT: 1.836 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL042292.D
Acq: 09 Apr 2025 14:36

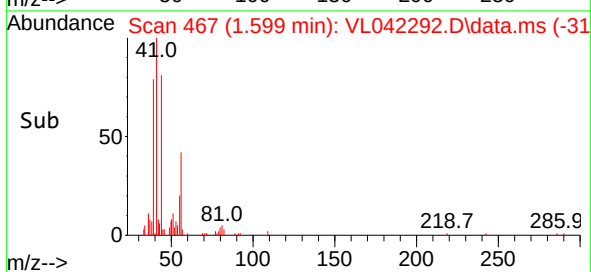
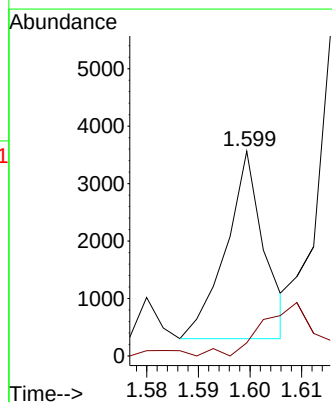
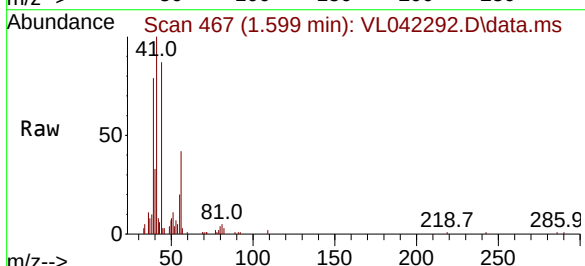
Instrument :
MSVOA_L
ClientSampleId :
AA-1-3242025

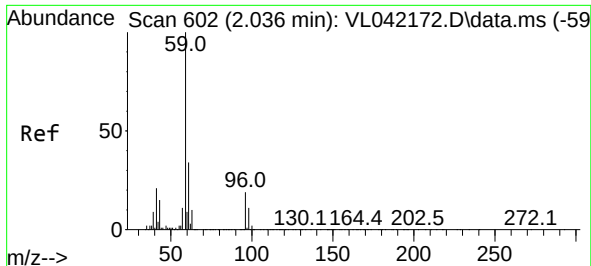
Tgt Ion: 43 Resp: 76719
Ion Ratio Lower Upper
43 100
58 24.3 23.2 34.8



#16
1,3-Butadiene
Concen: 0.155 ppbv
RT: 1.599 min Scan# 467
Delta R.T. -0.006 min
Lab File: VL042292.D
Acq: 09 Apr 2025 14:36

Tgt Ion: 39 Resp: 1674
Ion Ratio Lower Upper
39 100
54 48.3 60.7 91.1#





#17

tert-Butyl alcohol

Concen: 0.055 ppbv

RT: 2.046 min Scan# 602

Delta R.T. 0.010 min

Lab File: VL042292.D

Acq: 09 Apr 2025 14:36

Instrument :

MSVOA_L

ClientSampleId :

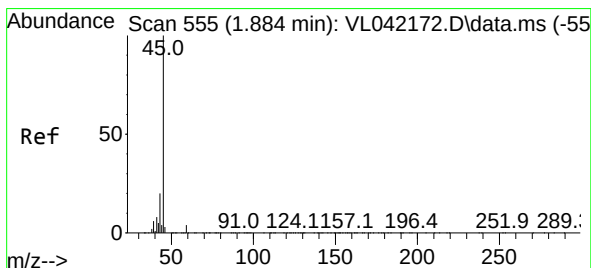
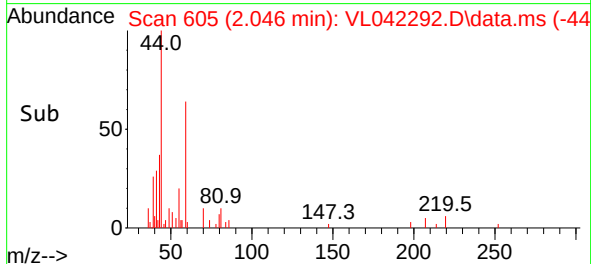
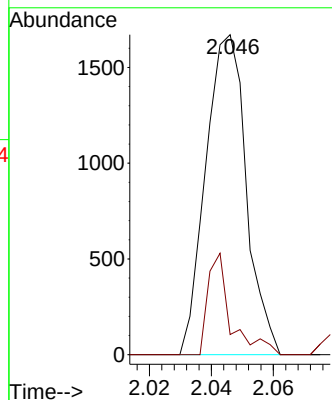
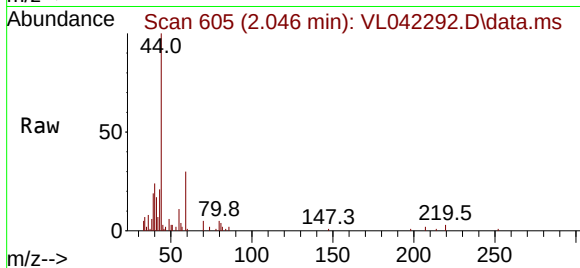
AA-1-3242025

Tgt Ion: 59 Resp: 1518

Ion Ratio Lower Upper

59 100

57 0.0 8.9 13.3#



#19

Isopropyl Alcohol

Concen: 1.192 ppbv

RT: 1.884 min Scan# 555

Delta R.T. 0.000 min

Lab File: VL042292.D

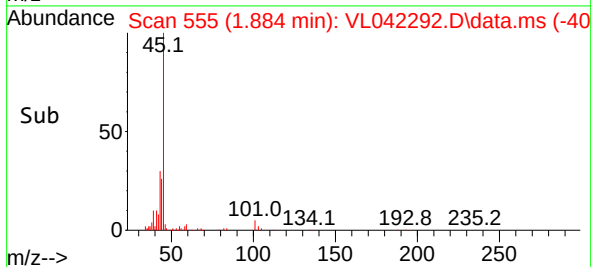
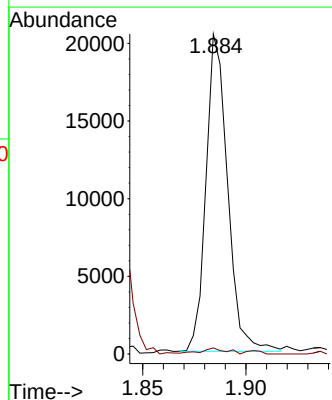
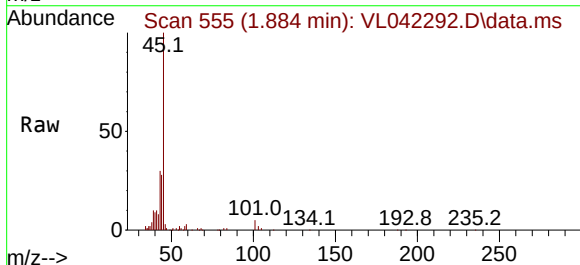
Acq: 09 Apr 2025 14:36

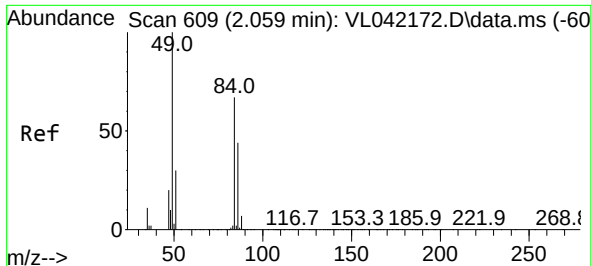
Tgt Ion: 45 Resp: 14854

Ion Ratio Lower Upper

45 100

58 125.4 36.9 55.3#

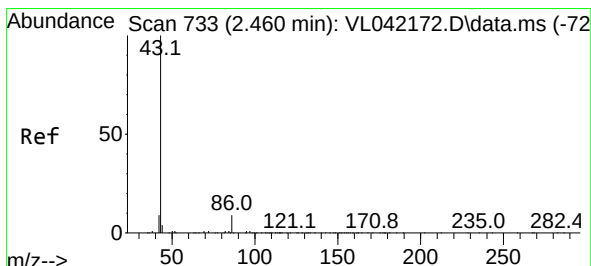
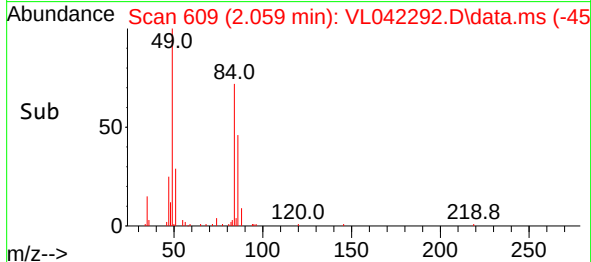
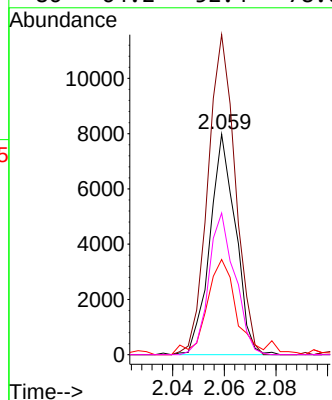
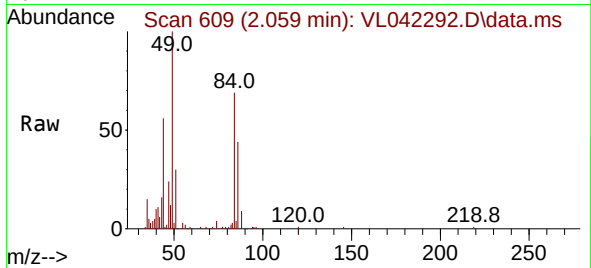




#20
Methylene Chloride
Concen: 0.670 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.000 min
Lab File: VL042292.D
Acq: 09 Apr 2025 14:36

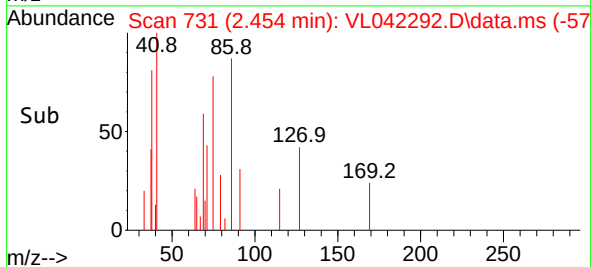
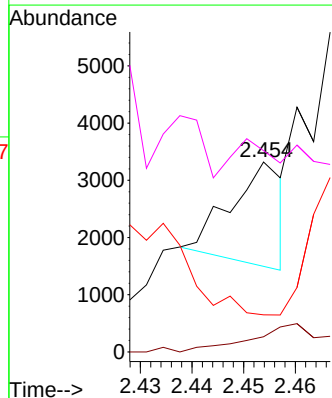
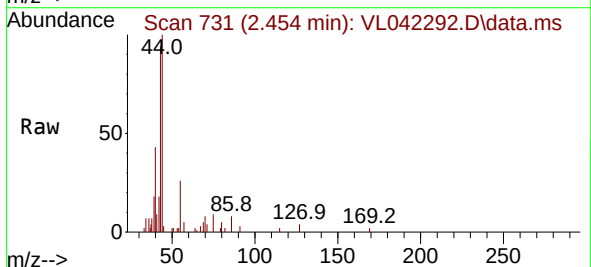
Instrument :
MSVOA_L
ClientSampleId :
AA-1-3242025

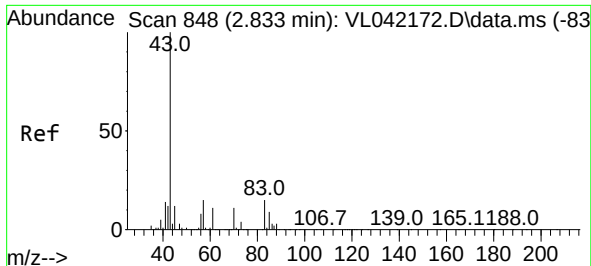
Tgt Ion: 84	Resp: 5511
Ion Ratio	Lower Upper
84 100	
49 145.1	120.2 180.4
51 42.4	37.4 56.0
86 64.2	52.4 78.6



#23
Vinyl Acetate
Concen: 0.128 ppbv
RT: 2.454 min Scan# 731
Delta R.T. -0.006 min
Lab File: VL042292.D
Acq: 09 Apr 2025 14:36

Tgt Ion: 43	Resp: 1222
Ion Ratio	Lower Upper
43 100	
86 17.8	5.5 8.3#
42 0.2	8.6 13.0#
44 14.5	6.2 9.4#

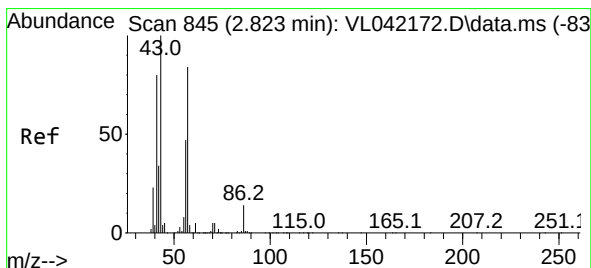
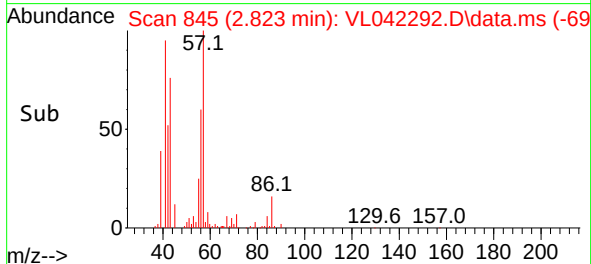
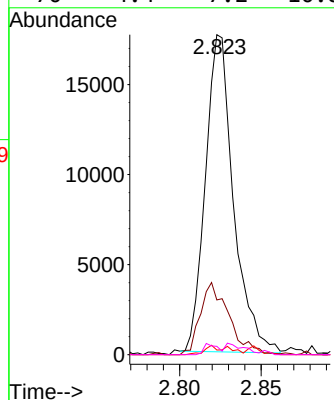
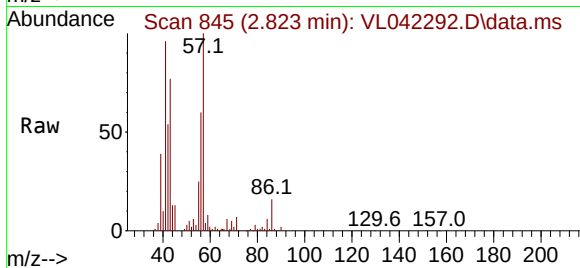




#25
Ethyl Acetate
Concen: 0.368 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.010 min
Lab File: VL042292.D
Acq: 09 Apr 2025 14:36

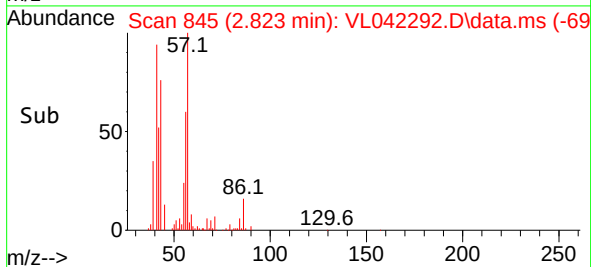
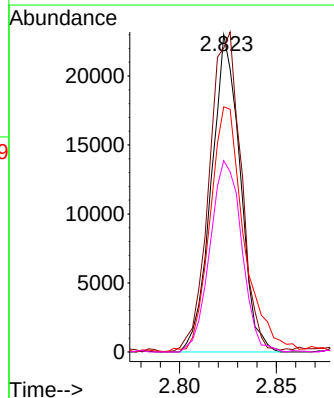
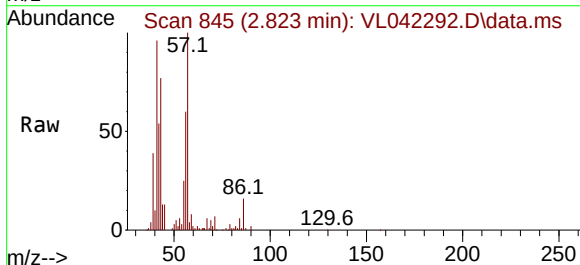
Instrument :
MSVOA_L
ClientSampleId :
AA-1-3242025

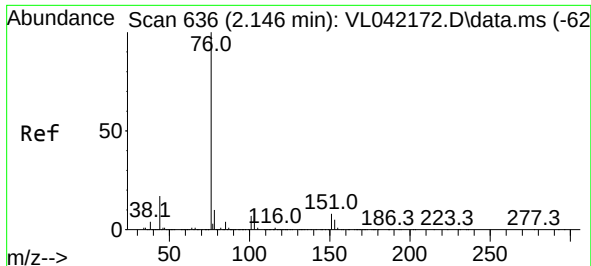
Tgt Ion:	43	Resp:	21094
Ion	Ratio	Lower	Upper
43	100		
45	23.5	8.2	12.2#
61	3.7	7.3	10.9#
70	4.4	7.2	10.8#



#26
Hexane
Concen: 1.073 ppbv
RT: 2.823 min Scan# 845
Delta R.T. 0.000 min
Lab File: VL042292.D
Acq: 09 Apr 2025 14:36

Tgt Ion:	57	Resp:	23758
Ion	Ratio	Lower	Upper
57	100		
41	112.9	76.6	114.8
43	94.2	207.8	311.8#
56	66.7	43.6	65.4#

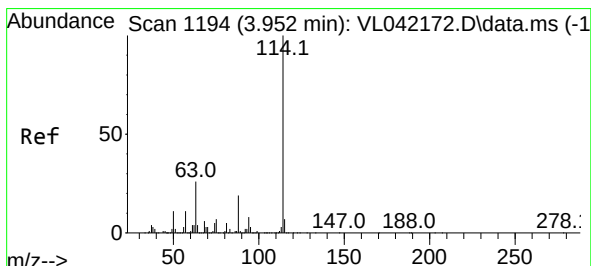
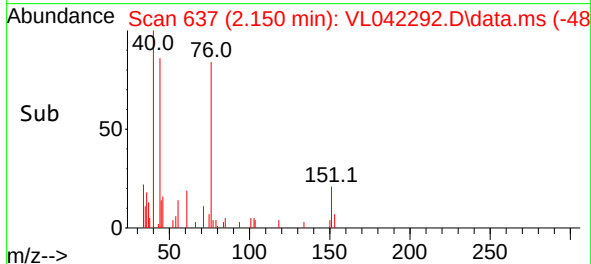
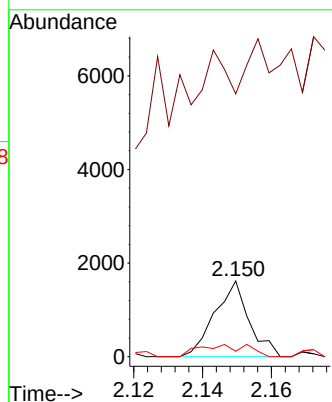
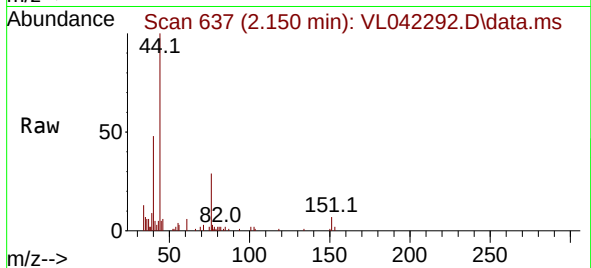




#27
Carbon Disulfide
Concen: 0.047 ppbv
RT: 2.150 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL042292.D
Acq: 09 Apr 2025 14:36

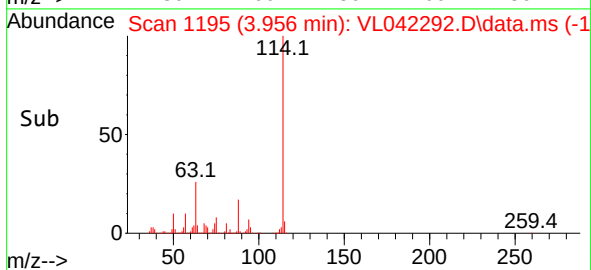
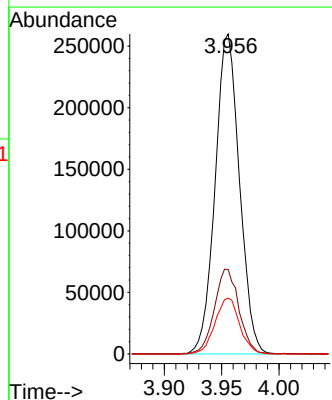
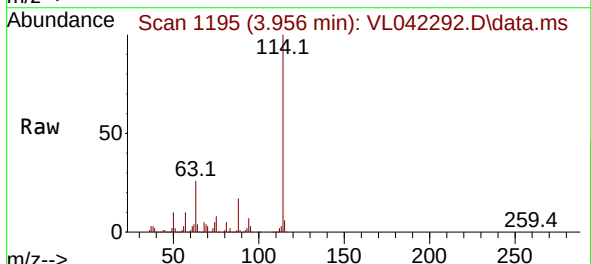
Instrument :
MSVOA_L
ClientSampleId :
AA-1-3242025

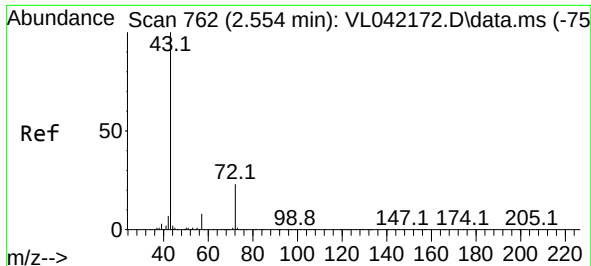
Tgt Ion: 76 Resp: 1122
Ion Ratio Lower Upper
76 100
44 0.0 14.7 22.1#
78 34.8 9.3 13.9#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.956 min Scan# 1195
Delta R.T. 0.003 min
Lab File: VL042292.D
Acq: 09 Apr 2025 14:36

Tgt Ion: 114 Resp: 383411
Ion Ratio Lower Upper
114 100
63 26.7 20.7 31.1
88 17.7 15.0 22.4

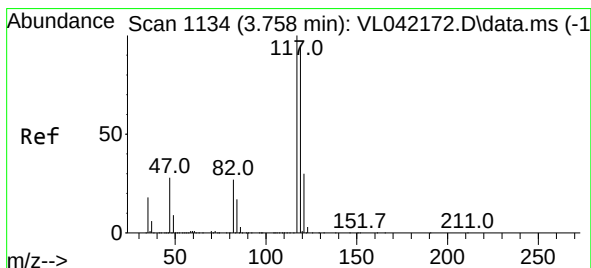
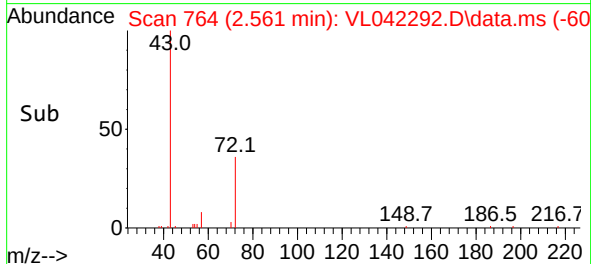
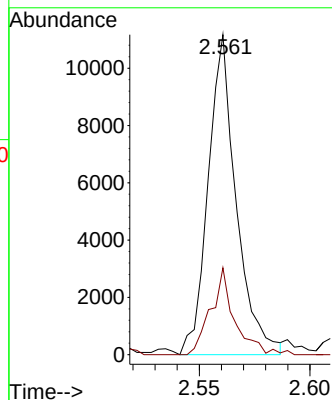
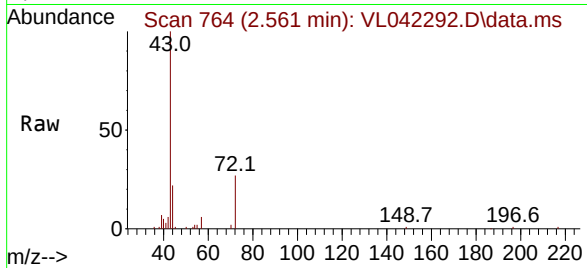




#34
2-Butanone
Concen: 0.354 ppbv
RT: 2.561 min Scan# 764
Delta R.T. 0.006 min
Lab File: VL042292.D
Acq: 09 Apr 2025 14:36

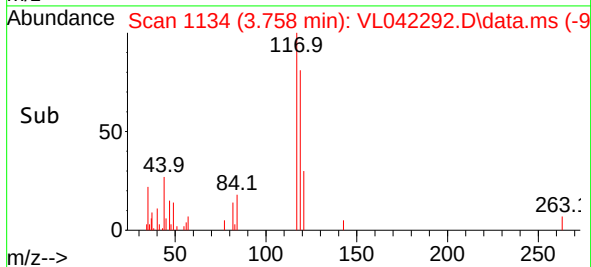
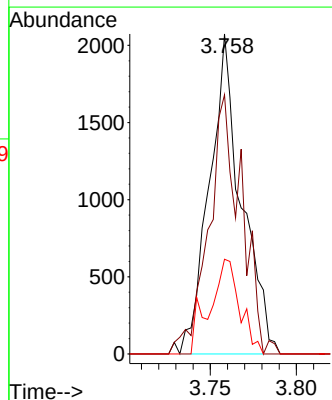
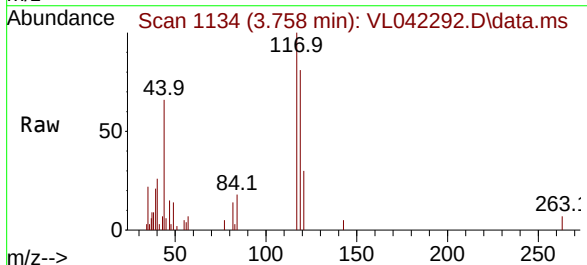
Instrument :
MSVOA_L
ClientSampleId :
AA-1-3242025

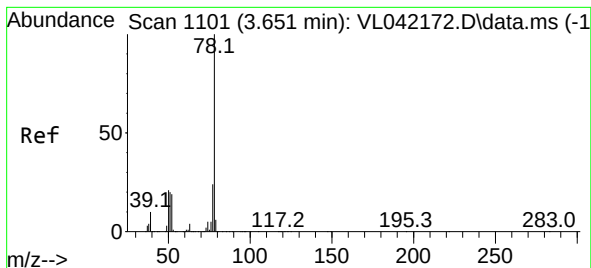
Tgt Ion: 43 Resp: 9840
Ion Ratio Lower Upper
43 100
72 23.2 18.2 27.2



#35
Carbon Tetrachloride
Concen: 0.090 ppbv
RT: 3.758 min Scan# 1134
Delta R.T. 0.000 min
Lab File: VL042292.D
Acq: 09 Apr 2025 14:36

Tgt Ion: 117 Resp: 2688
Ion Ratio Lower Upper
117 100
119 81.0 76.2 114.2
121 29.6 24.2 36.4





#36

Benzene

Concen: 0.254 ppbv

RT: 3.651 min Scan# 1101

Delta R.T. 0.000 min

Lab File: VL042292.D

Acq: 09 Apr 2025 14:36

Instrument :

MSVOA_L

ClientSampleId :

AA-1-3242025

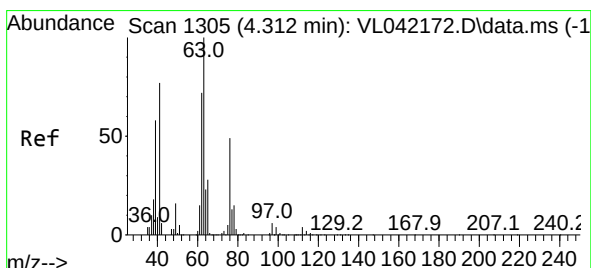
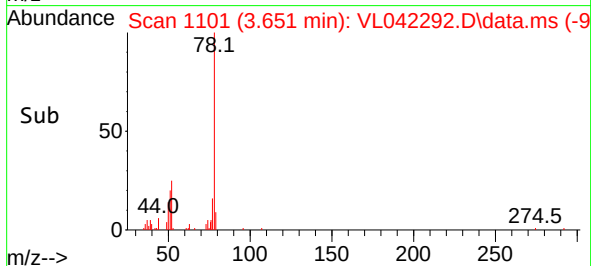
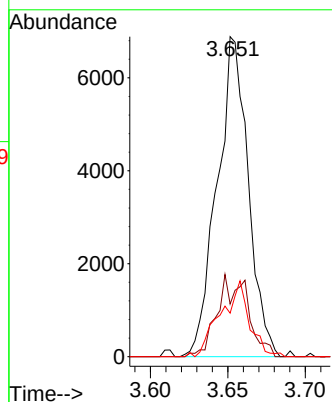
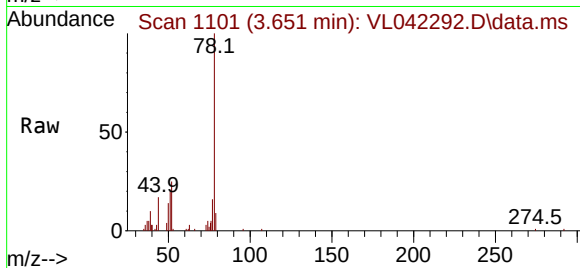
Tgt Ion: 78 Resp: 9637

Ion Ratio Lower Upper

78 100

77 16.4 19.1 28.7#

50 13.6 16.6 24.8#



#39

1,2-Dichloropropane

Concen: 7.391 ppbv

RT: 3.952 min Scan# 1194

Delta R.T. -0.359 min

Lab File: VL042292.D

Acq: 09 Apr 2025 14:36

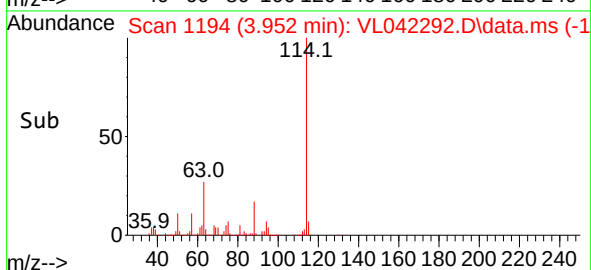
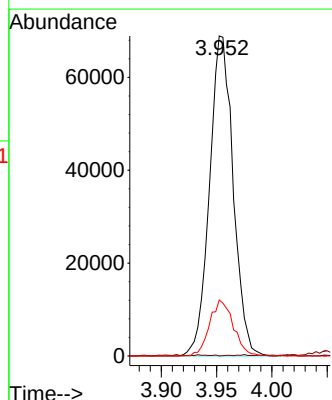
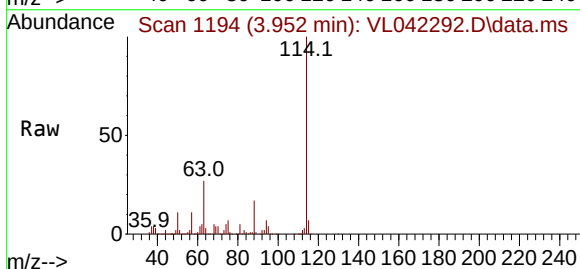
Tgt Ion: 63 Resp: 102317

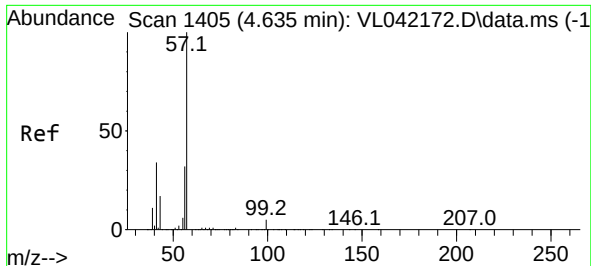
Ion Ratio Lower Upper

63 100

41 0.0 61.7 92.5#

62 17.5 57.6 86.4#





#44

2,2,4-Trimethylpentane

Concen: 0.043 ppbv

RT: 4.642 min Scan# 1405

Delta R.T. 0.006 min

Lab File: VL042292.D

Acq: 09 Apr 2025 14:36

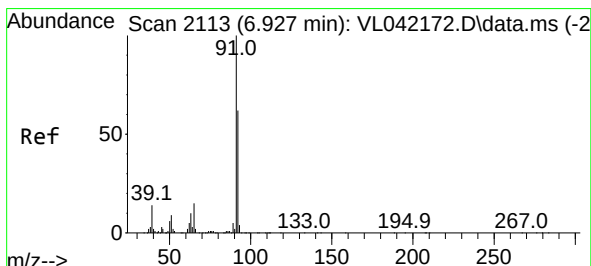
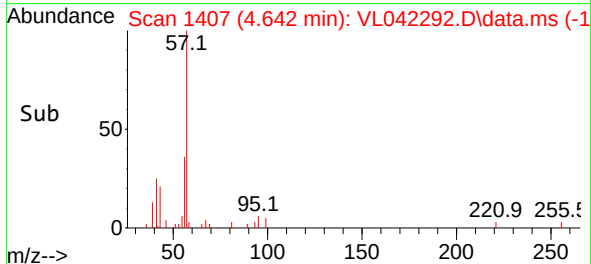
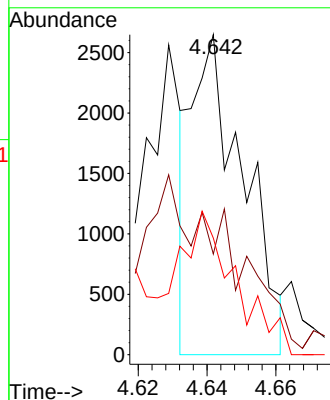
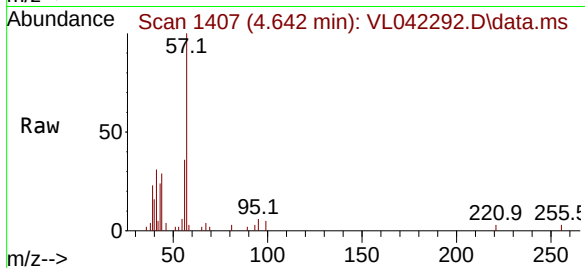
Instrument :

MSVOA_L

ClientSampleId :

AA-1-3242025

Tgt Ion: 57	Resp: 2764
Ion Ratio	Lower Upper
57 100	
41 0.0	26.8 40.2#
56 82.6	25.6 38.4#



#53

Toluene

Concen: 0.111 ppbv

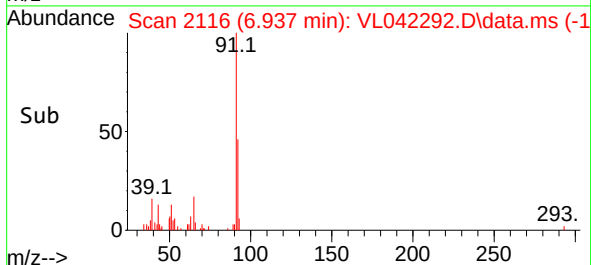
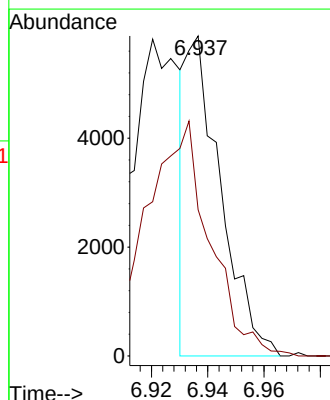
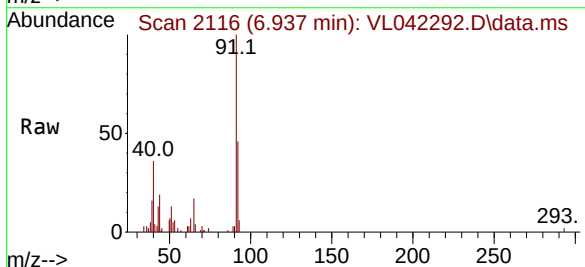
RT: 6.937 min Scan# 2116

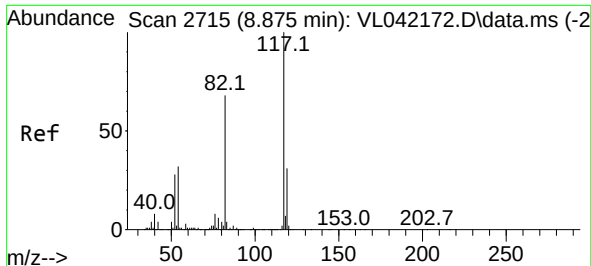
Delta R.T. 0.010 min

Lab File: VL042292.D

Acq: 09 Apr 2025 14:36

Tgt Ion: 91	Resp: 5021
Ion Ratio	Lower Upper
91 100	
92 142.8	48.4 72.6#

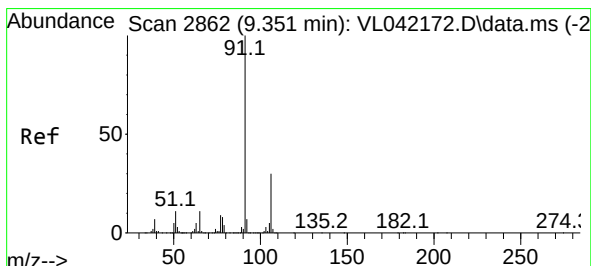
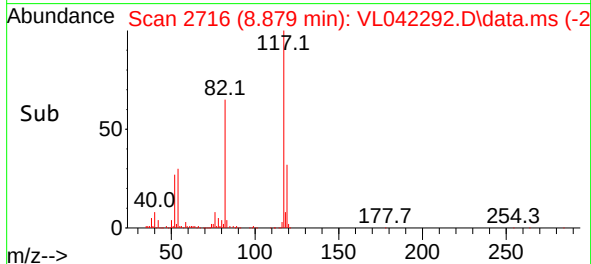
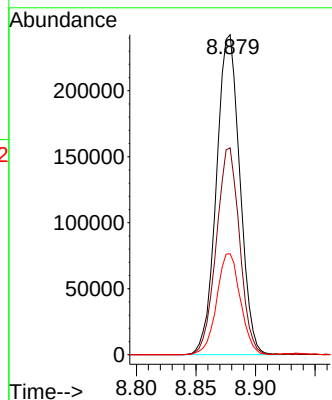
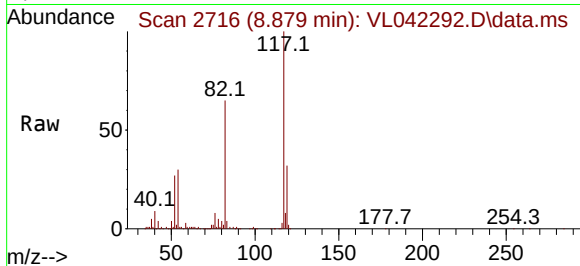




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.879 min Scan# 2115
Delta R.T. 0.003 min
Lab File: VL042292.D
Acq: 09 Apr 2025 14:36

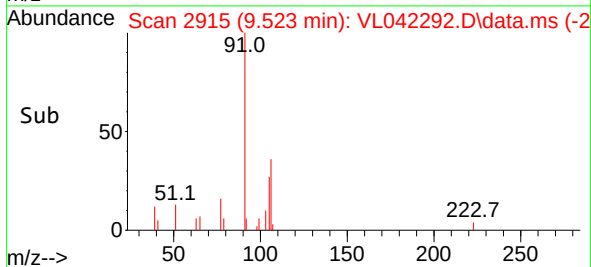
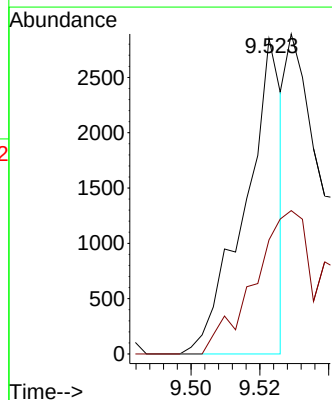
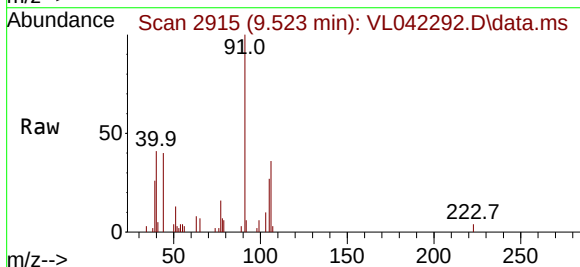
Instrument :
MSVOA_L
ClientSampleId :
AA-1-3242025

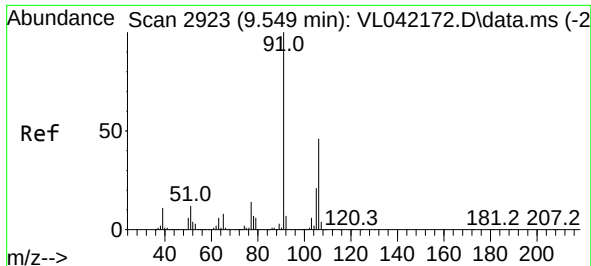
Tgt Ion:117 Resp: 331322
Ion Ratio Lower Upper
117 100
82 64.4 55.8 83.6
119 31.9 25.5 38.3



#58
Ethyl Benzene
Concen: 0.036 ppbv
RT: 9.523 min Scan# 2915
Delta R.T. 0.172 min
Lab File: VL042292.D
Acq: 09 Apr 2025 14:36

Tgt Ion: 91 Resp: 2126
Ion Ratio Lower Upper
91 100
106 34.3 24.2 36.2





#59

m/p-Xylene

Concen: 0.033 ppbv

RT: 9.549 min Scan# 2923

Delta R.T. 0.000 min

Lab File: VL042292.D

Acq: 09 Apr 2025 14:36

Instrument :

MSVOA_L

ClientSampleId :

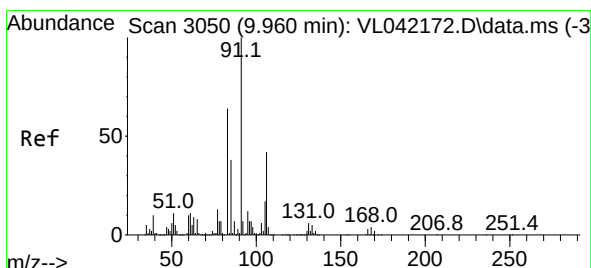
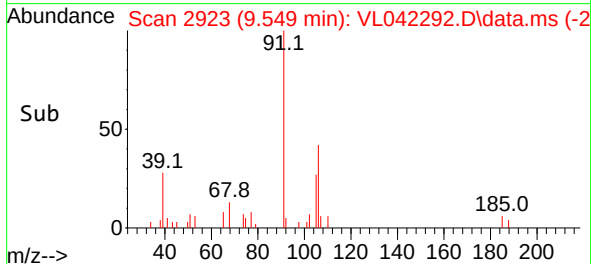
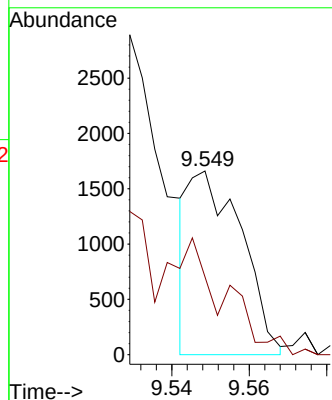
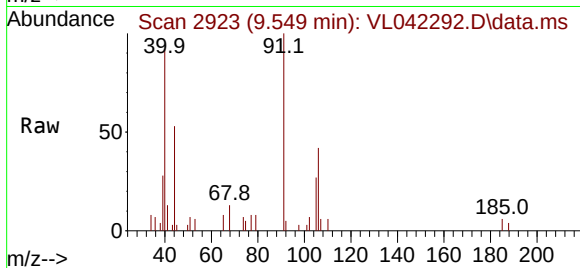
AA-1-3242025

Tgt Ion: 91 Resp: 1569

Ion Ratio Lower Upper

91 100

106 0.0 36.4 54.6#



#60

o-Xylene

Concen: 0.037 ppbv

RT: 9.956 min Scan# 3049

Delta R.T. -0.003 min

Lab File: VL042292.D

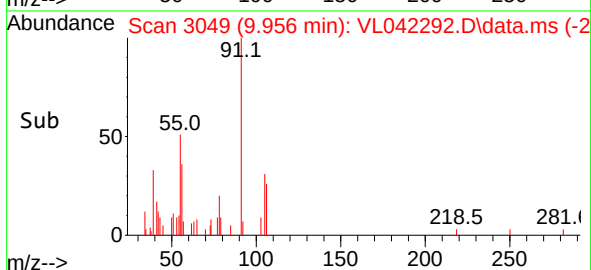
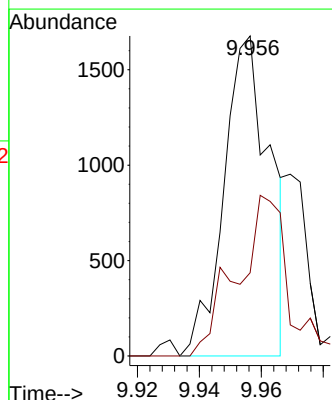
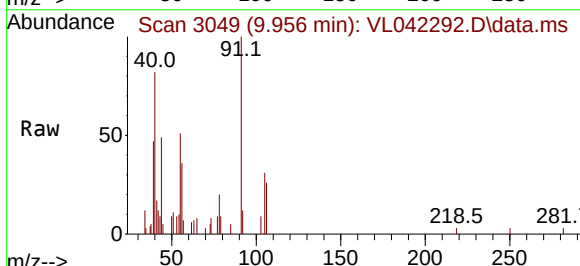
Acq: 09 Apr 2025 14:36

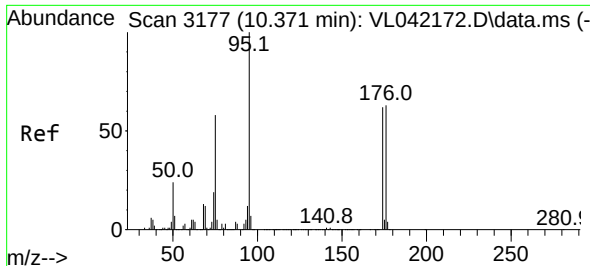
Tgt Ion: 91 Resp: 1723

Ion Ratio Lower Upper

91 100

106 55.3 20.8 62.5

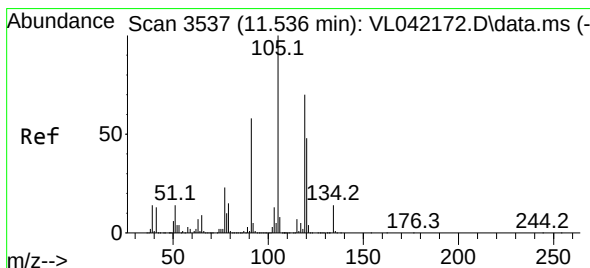
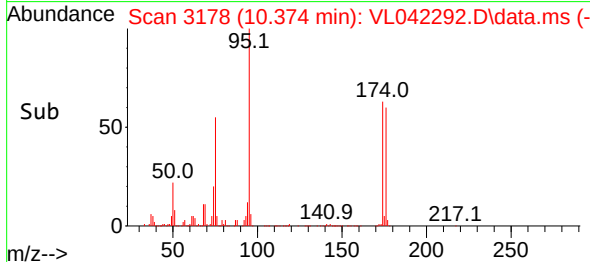
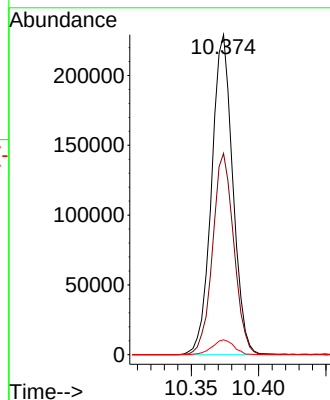
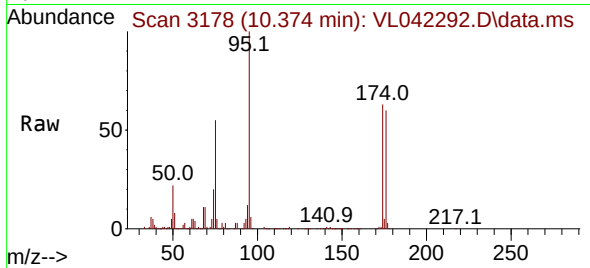




#68
1-Bromo-4-Fluorobenzene
Concen: 9.225 ppbv
RT: 10.374 min Scan# 3177
Delta R.T. 0.003 min
Lab File: VL042292.D
Acq: 09 Apr 2025 14:36

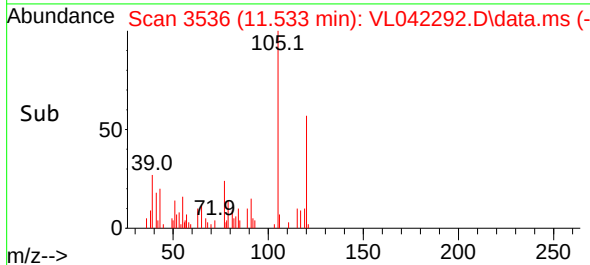
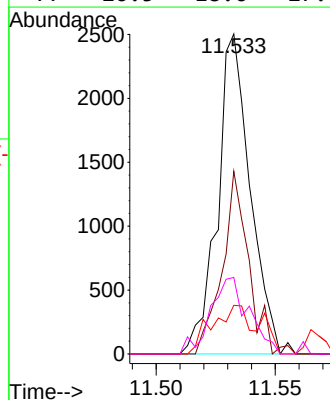
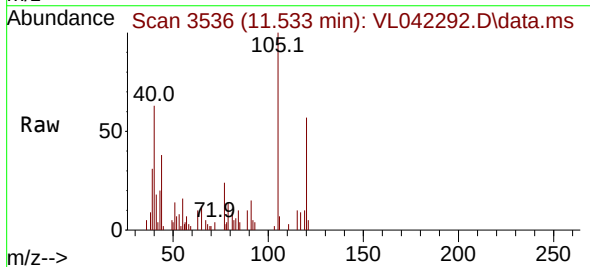
Instrument :
MSVOA_1
ClientSampleId :
AA-1-3242025

Tgt Ion: 95 Resp: 250999
Ion Ratio Lower Upper
95 100
174 63.1 50.6 76.0
175 4.8 3.8 5.6



#74
1,2,4-Trimethylbenzene
Concen: 0.040 ppbv
RT: 11.533 min Scan# 3536
Delta R.T. -0.003 min
Lab File: VL042292.D
Acq: 09 Apr 2025 14:36

Tgt Ion: 105 Resp: 2383
Ion Ratio Lower Upper
105 100
120 57.1 38.6 58.0
91 15.2 46.2 69.2#
77 26.5 18.6 27.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
 Data File : VL042293.D
 Acq On : 09 Apr 2025 15:15
 Operator : SY/MD
 Sample : Q1665-06
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B9-1-3242025

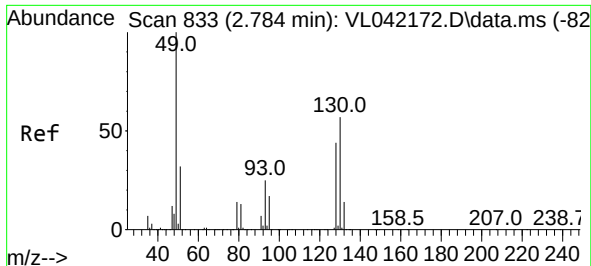
Quant Time: Apr 10 01:45:06 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 02:00:52 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.784	49	162172	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	394727	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	338809	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	260496	9.362	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.600%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.496	85	8768	0.366	ppbv	100
3) Chlorodifluoromethane	1.473	51	27592	1.128	ppbv	93
4) Chloromethane	1.531	50	5713	0.584	ppbv	94
6) Bromomethane	1.667	94	191	0.043	ppbv	83
7) Chloroethane	1.703	64	219	0.056	ppbv #	43
9) Propene	1.884	41	28450	2.537	ppbv	96
10) Heptane	4.975	43	1928	0.065	ppbv #	28
11) Trichlorofluoromethane	1.874	101	5120	0.220	ppbv	94
12) 1,1,2-Trichlorotrifluo...	2.140	101	1343	0.070	ppbv	100
13) Ethanol	1.719	45	40099	37.833	ppbv	81
15) Acetone	1.832	43	192031	8.467	ppbv	94
16) 1,3-Butadiene	1.599	39	2714	0.245	ppbv #	11
17) tert-Butyl alcohol	1.884	59	10927	0.387	ppbv	95
19) Isopropyl Alcohol	1.884	45	298845	23.353	ppbv #	32
20) Methylene Chloride	2.059	84	9248	1.095	ppbv	97
21) Allyl Chloride	2.072	41	495	0.031	ppbv #	23
23) Vinyl Acetate	2.450	43	17521	1.785	ppbv #	85
25) Ethyl Acetate	2.823	43	41224	0.700	ppbv #	83
26) Hexane	2.823	57	46406	2.041	ppbv #	35
29) Chloroform	2.848	83	1132	0.034	ppbv	86
34) 2-Butanone	2.554	43	134955	4.715	ppbv	98
35) Carbon Tetrachloride	3.758	117	1572	0.051	ppbv #	67
36) Benzene	3.651	78	11524	0.294	ppbv #	90
39) 1,2-Dichloropropane	3.955	63	99931	7.012	ppbv #	22
41) Tetrahydrofuran	3.062	42	4453	0.270	ppbv	94
44) 2,2,4-Trimethylpentane	4.629	57	4328	0.065	ppbv #	38
53) Toluene	6.930	91	22070	0.476	ppbv	98
57) Chlorobenzene	8.914	112	7743	0.241	ppbv #	83
58) Ethyl Benzene	9.354	91	3481	0.058	ppbv	99
59) m/p-Xylene	9.529	91	8935	0.186	ppbv	95
60) o-Xylene	9.963	91	4584	0.095	ppbv	94
62) Isopropylbenzene	10.804	105	143134	1.987	ppbv #	50
71) 2-Chlorotoluene	10.853	91	21081	0.377	ppbv #	46
72) 4-Ethyltoluene	11.092	105	3205	0.053	ppbv #	60
73) 1,3,5-Trimethylbenzene	11.202	105	1783	0.034	ppbv #	75
74) 1,2,4-Trimethylbenzene	11.536	105	5457	0.090	ppbv #	68

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

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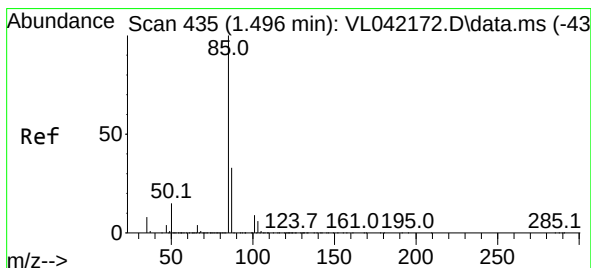
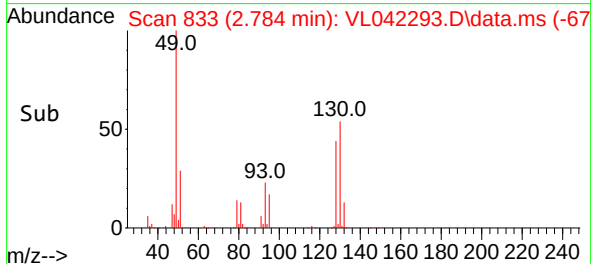
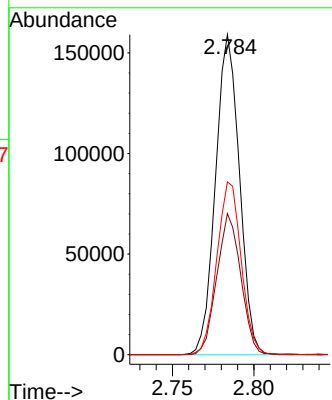
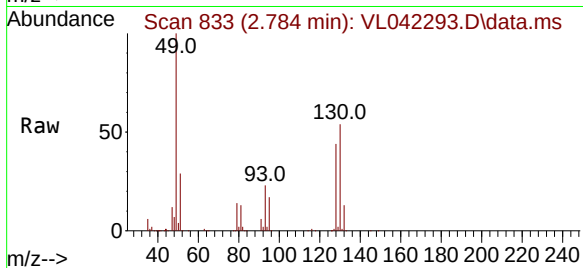
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#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. -0.000 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

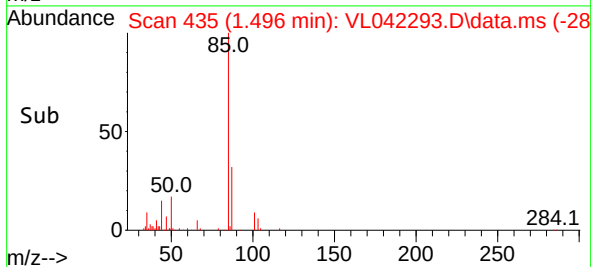
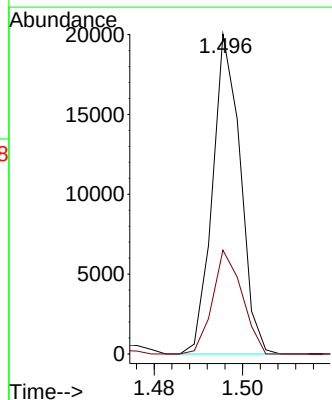
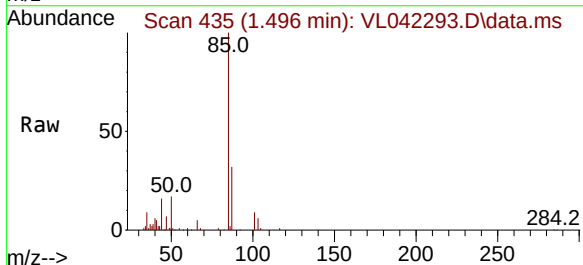
Instrument :
MSVOA_L
ClientSampleId :
IA-B9-1-3242025

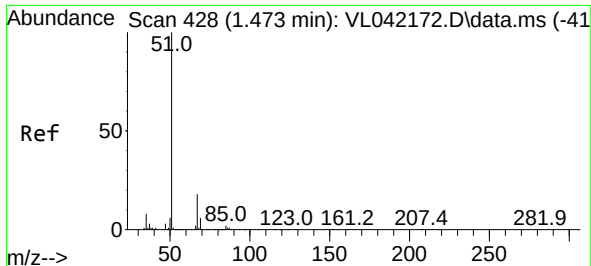
Tgt Ion: 49 Resp: 162172
Ion Ratio Lower Upper
49 100
128 44.1 22.9 68.5
130 55.0 28.8 86.4



#2
Dichlorodifluoromethane
Concen: 0.366 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

Tgt Ion: 85 Resp: 8768
Ion Ratio Lower Upper
85 100
87 32.5 26.1 39.1

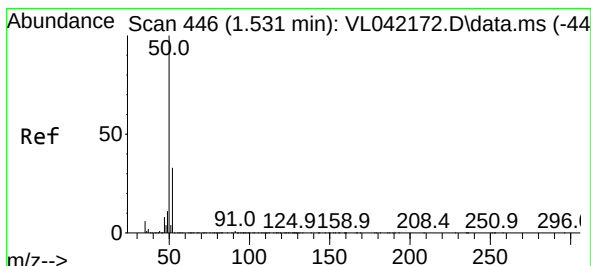
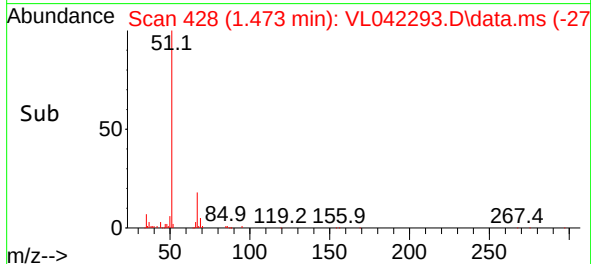
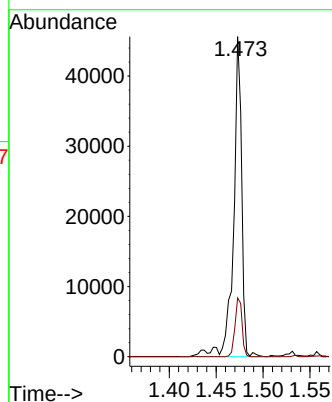
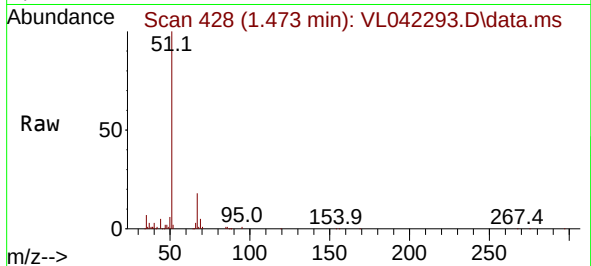




#3
Chlorodifluoromethane
Concen: 1.128 ppbv
RT: 1.473 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

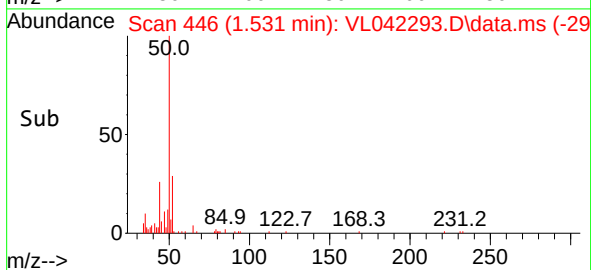
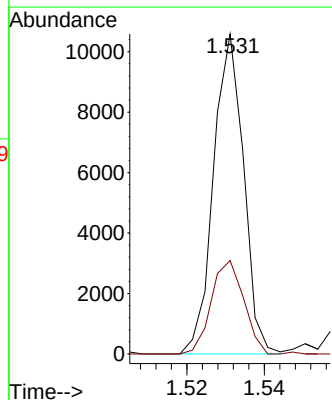
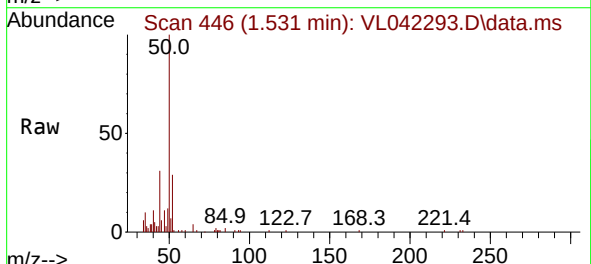
Instrument :
MSVOA_L
ClientSampleId :
IA-B9-1-3242025

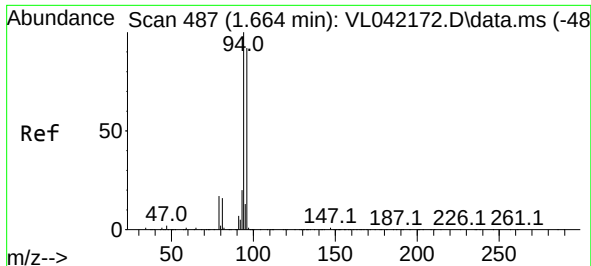
Tgt Ion: 51 Resp: 27592
Ion Ratio Lower Upper
51 100
67 15.8 15.0 22.6



#4
Chloromethane
Concen: 0.584 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

Tgt Ion: 50 Resp: 5713
Ion Ratio Lower Upper
50 100
52 29.2 26.1 39.1

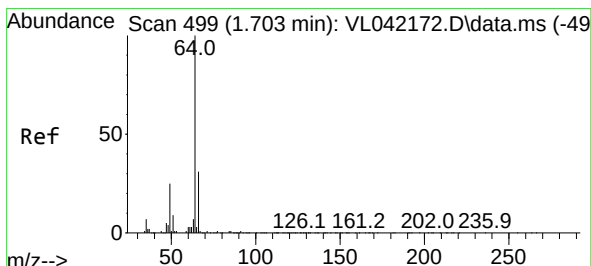
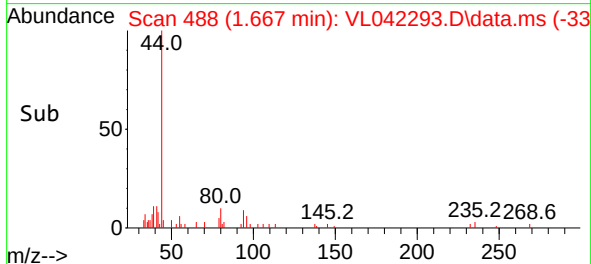
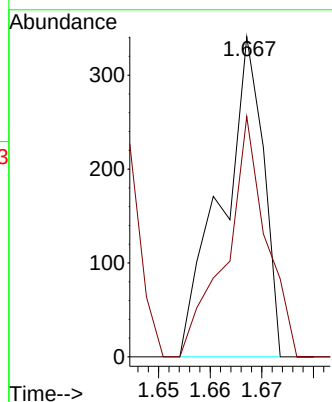
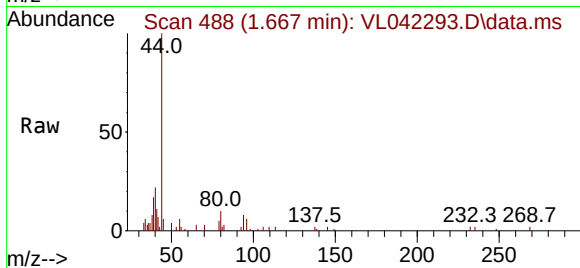




#6
Bromomethane
Concen: 0.043 ppbv
RT: 1.667 min Scan# 488
Delta R.T. 0.003 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

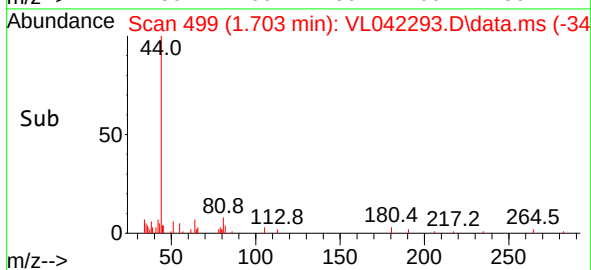
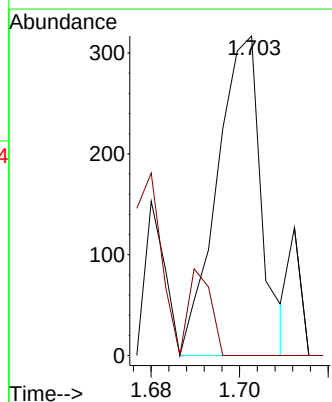
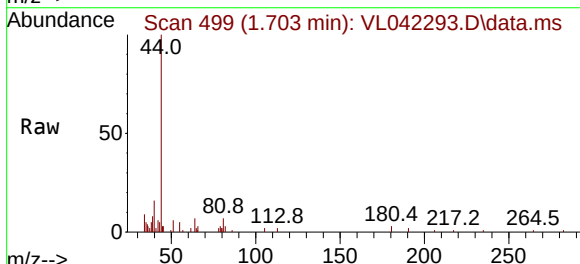
Instrument :
MSVOA_1
ClientSampleId :
IA-B9-1-3242025

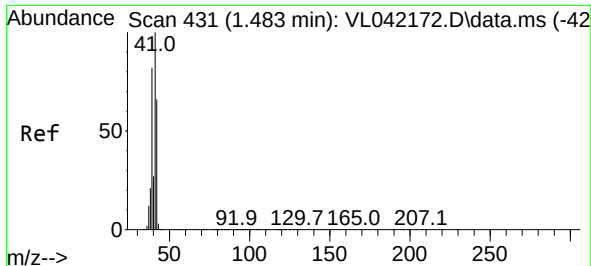
Tgt Ion: 94 Resp: 191
Ion Ratio Lower Upper
94 100
96 75.1 73.1 109.7



#7
Chloroethane
Concen: 0.056 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

Tgt Ion: 64 Resp: 219
Ion Ratio Lower Upper
64 100
66 0.0 25.2 37.8#

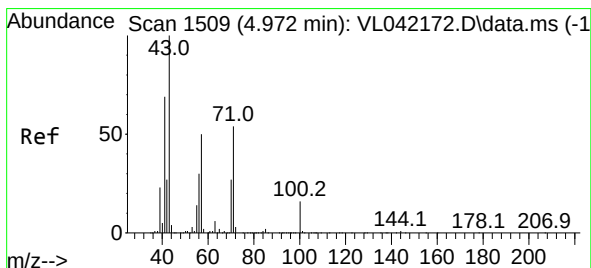
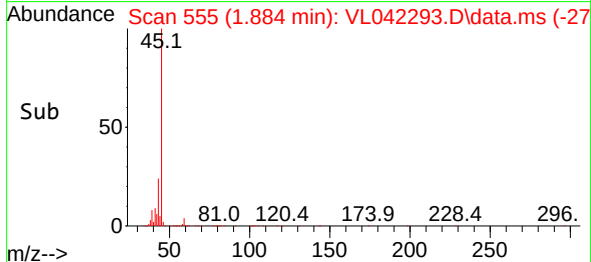
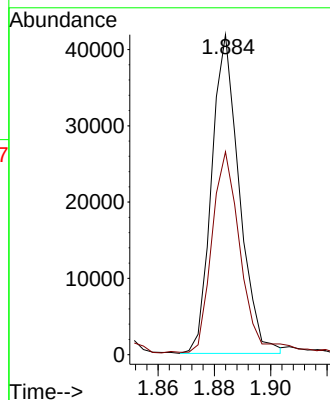
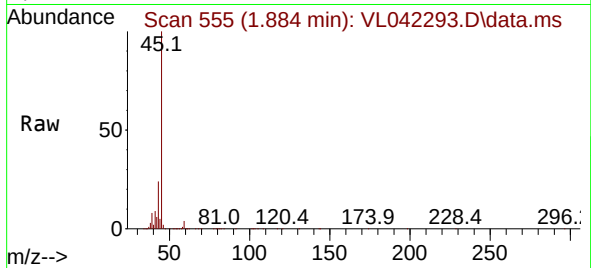




#9
 Propene
 Concen: 2.537 ppbv
 RT: 1.884 min Scan# 51
 Delta R.T. 0.401 min
 Lab File: VL042293.D
 Acq: 09 Apr 2025 15:15

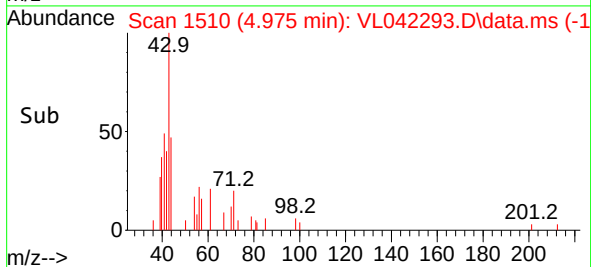
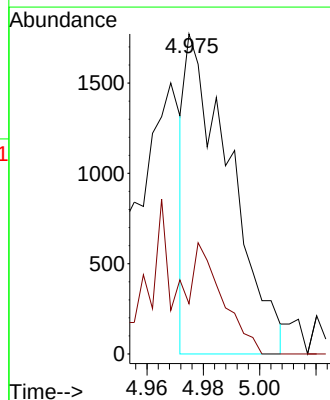
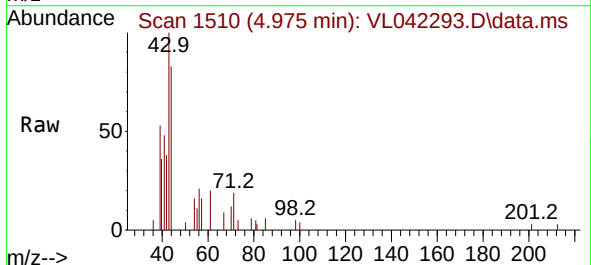
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B9-1-3242025

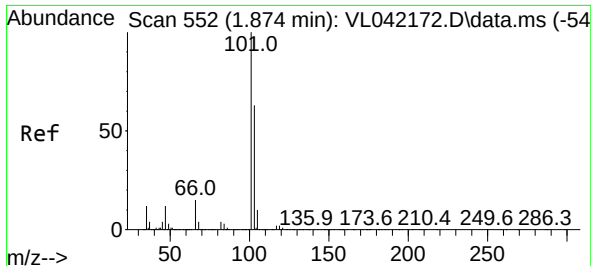
Tgt Ion: 41 Resp: 28450
 Ion Ratio Lower Upper
 41 100
 42 65.7 55.4 83.2



#10
 Heptane
 Concen: 0.065 ppbv
 RT: 4.975 min Scan# 1510
 Delta R.T. 0.003 min
 Lab File: VL042293.D
 Acq: 09 Apr 2025 15:15

Tgt Ion: 43 Resp: 1928
 Ion Ratio Lower Upper
 43 100
 57 0.0 39.4 59.2#

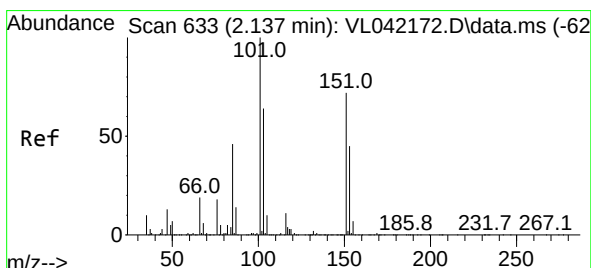
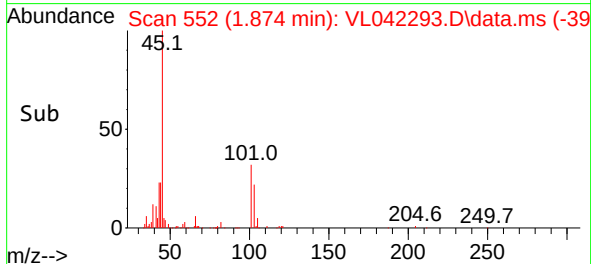
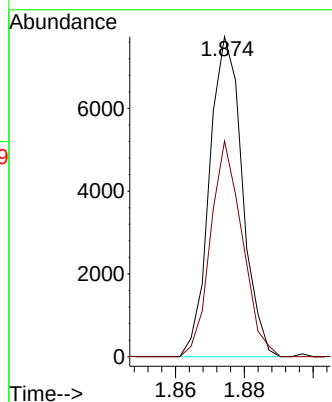
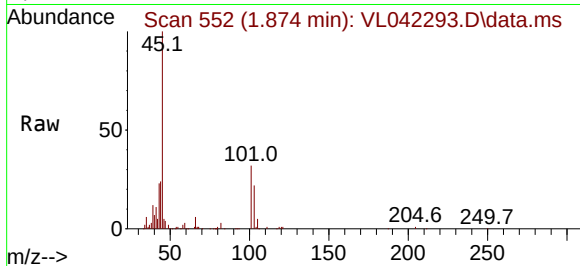




#11
 Trichlorofluoromethane
 Concen: 0.220 ppbv
 RT: 1.874 min Scan# 511
 Delta R.T. -0.000 min
 Lab File: VL042293.D
 Acq: 09 Apr 2025 15:15

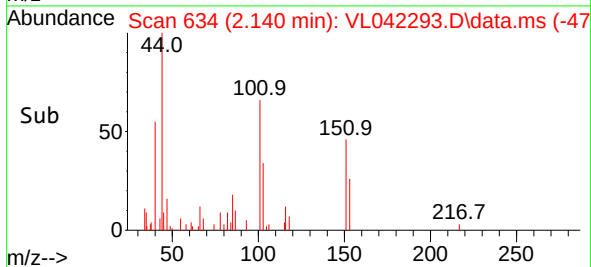
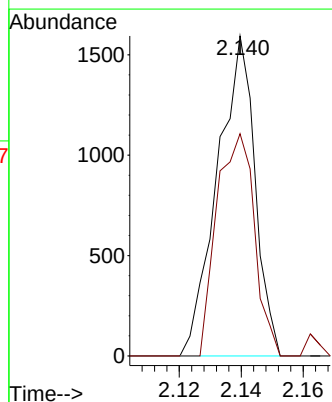
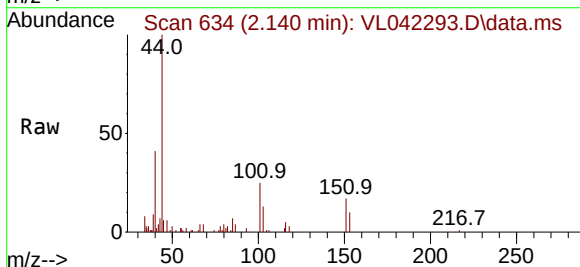
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B9-1-3242025

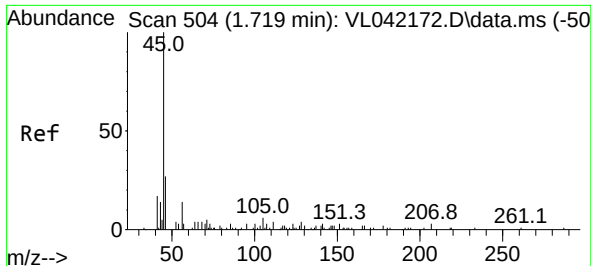
Tgt Ion:101 Resp: 5120
 Ion Ratio Lower Upper
 101 100
 103 67.4 50.2 75.2



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.070 ppbv
 RT: 2.140 min Scan# 634
 Delta R.T. 0.003 min
 Lab File: VL042293.D
 Acq: 09 Apr 2025 15:15

Tgt Ion:101 Resp: 1343
 Ion Ratio Lower Upper
 101 100
 151 71.8 57.1 85.7

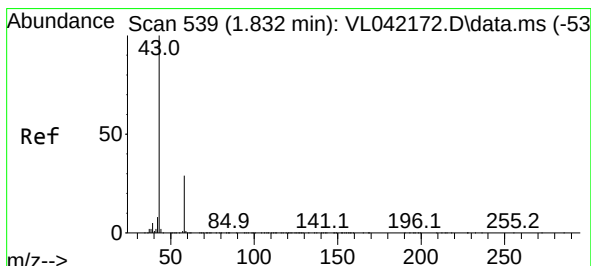
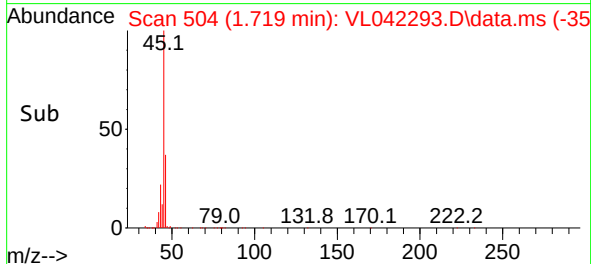
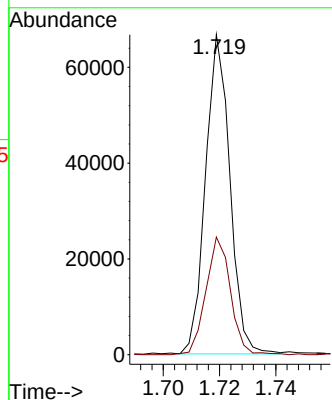
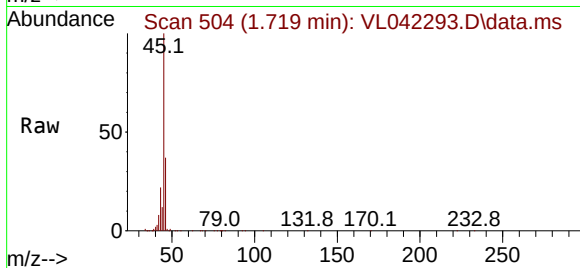




#13
Ethanol
Concen: 37.833 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

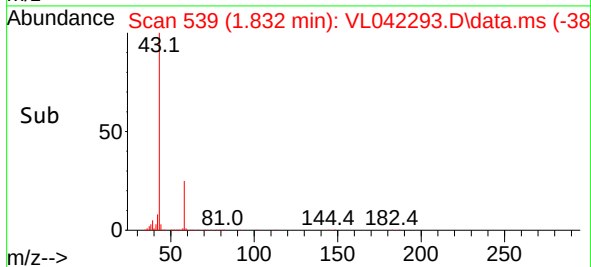
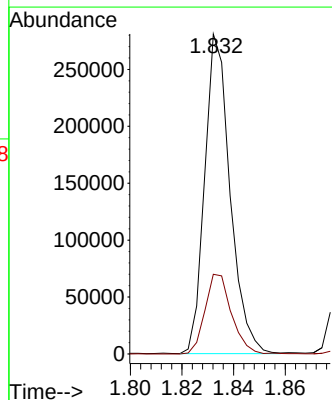
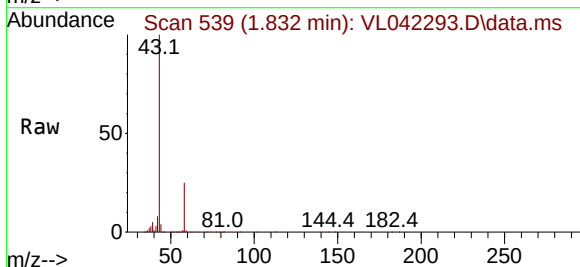
Instrument :
MSVOA_1
ClientSampleId :
IA-B9-1-3242025

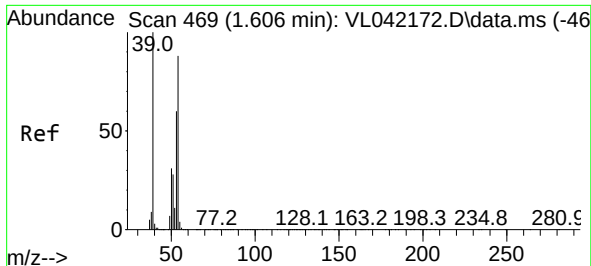
Tgt Ion: 45 Resp: 40099
Ion Ratio Lower Upper
45 100
46 37.4 20.2 80.8



#15
Acetone
Concen: 8.467 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.000 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

Tgt Ion: 43 Resp: 192031
Ion Ratio Lower Upper
43 100
58 26.1 23.2 34.8





#16

1,3-Butadiene

Concen: 0.245 ppbv

RT: 1.599 min Scan# 4

Delta R.T. -0.007 min

Lab File: VL042293.D

Acq: 09 Apr 2025 15:15

Instrument :

MSVOA_L

ClientSampleId :

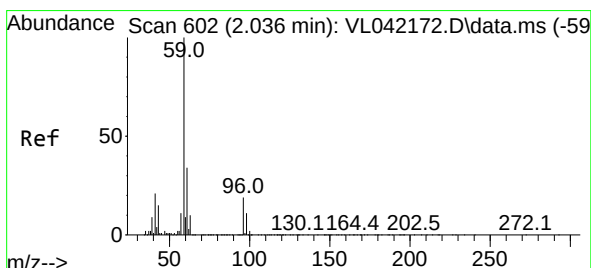
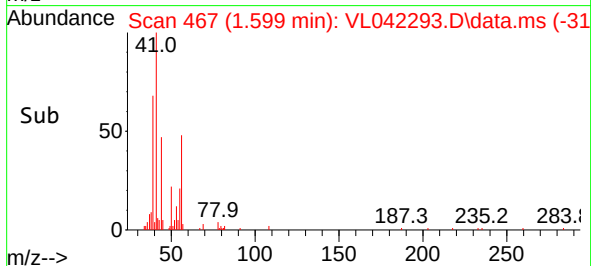
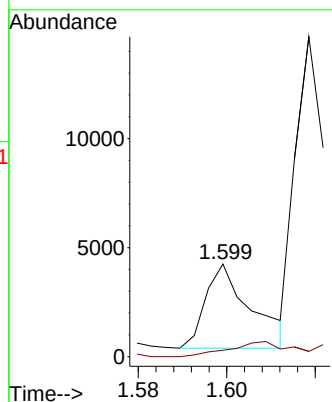
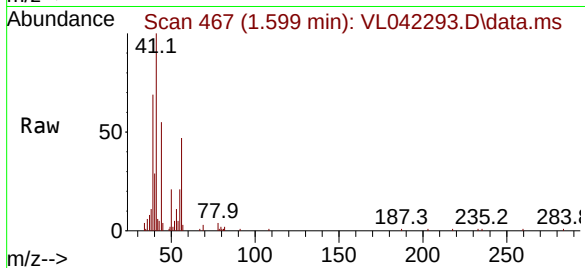
IA-B9-1-3242025

Tgt Ion: 39 Resp: 2714

Ion Ratio Lower Upper

39 100

54 0.0 60.7 91.1#



#17

tert-Butyl alcohol

Concen: 0.387 ppbv

RT: 1.884 min Scan# 555

Delta R.T. -0.152 min

Lab File: VL042293.D

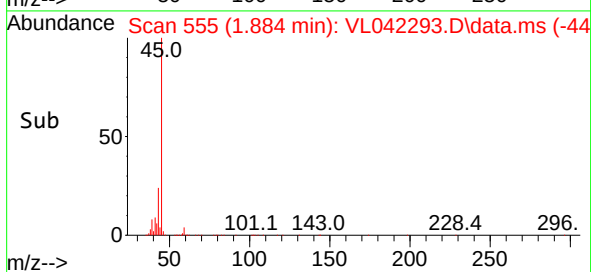
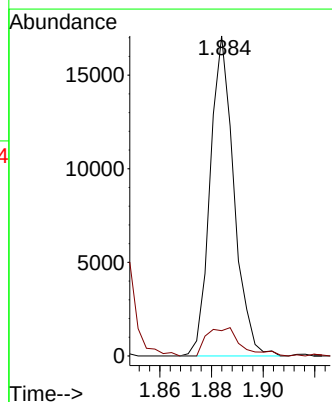
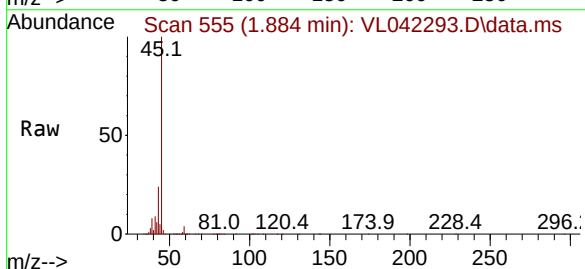
Acq: 09 Apr 2025 15:15

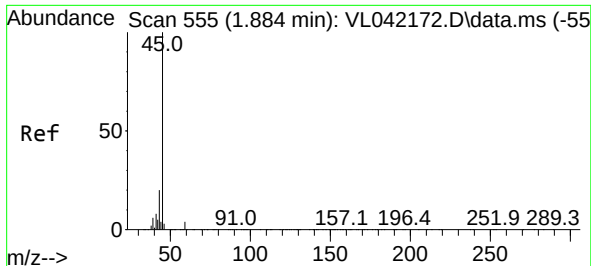
Tgt Ion: 59 Resp: 10927

Ion Ratio Lower Upper

59 100

57 13.0 8.9 13.3

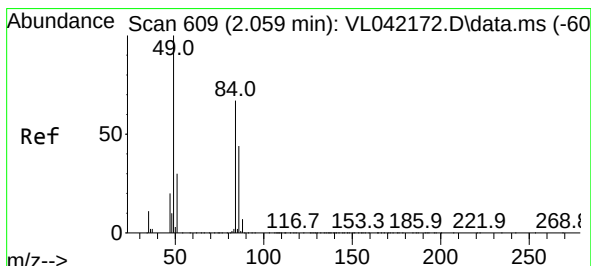
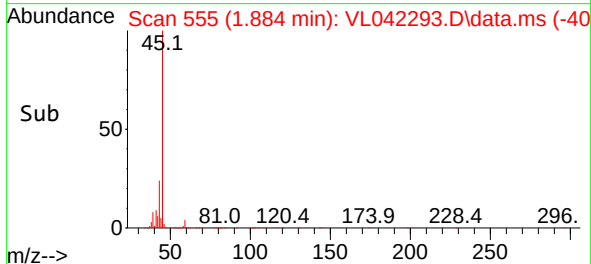
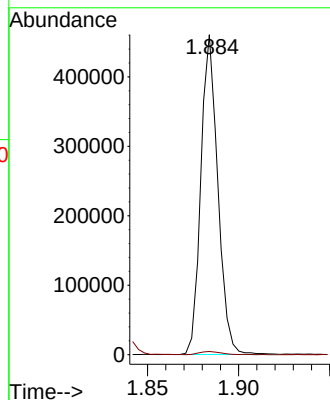
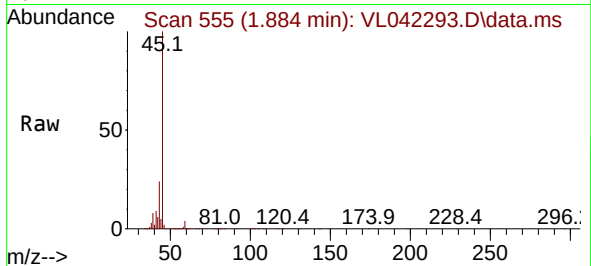




#19
Isopropyl Alcohol
Concen: 23.353 ppbv
RT: 1.884 min Scan# 511
Delta R.T. -0.000 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

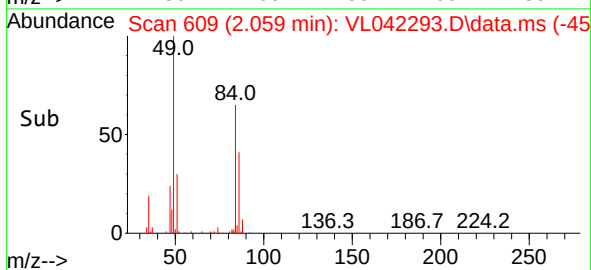
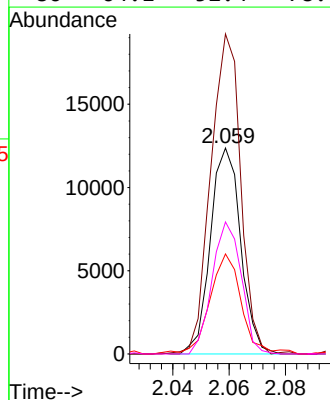
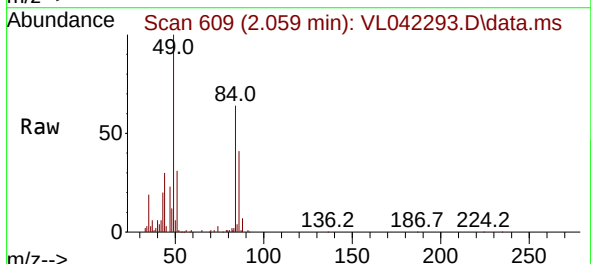
Instrument :
MSVOA_L
ClientSampleId :
IA-B9-1-3242025

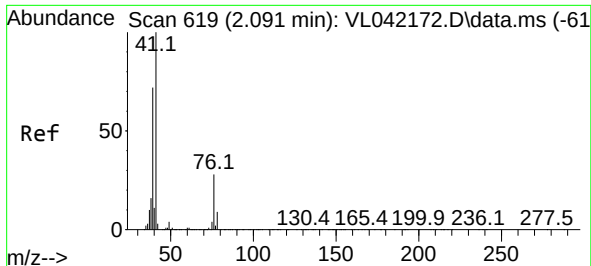
Tgt Ion: 45 Resp: 298845
Ion Ratio Lower Upper
45 100
58 1.3 36.9 55.3#



#20
Methylene Chloride
Concen: 1.095 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

Tgt Ion: 84 Resp: 9248
Ion Ratio Lower Upper
84 100
49 154.7 120.2 180.4
51 47.8 37.4 56.0
86 64.1 52.4 78.6

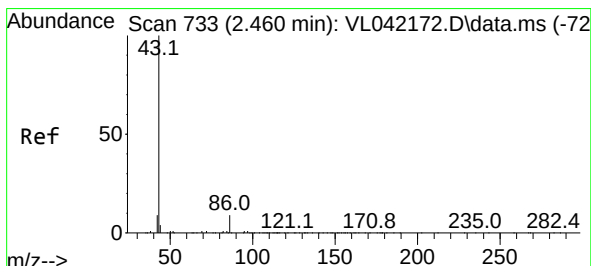
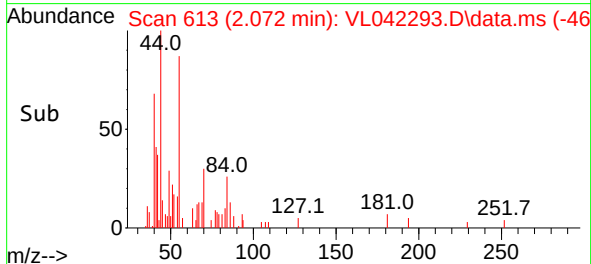
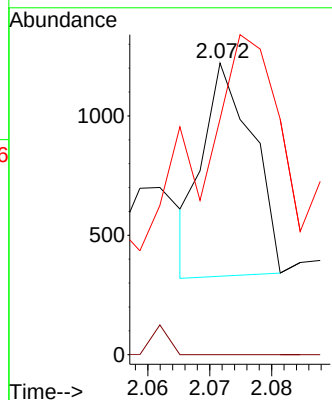
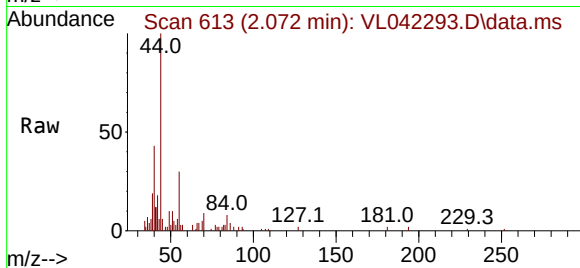




#21
Allyl Chloride
Concen: 0.031 ppbv
RT: 2.072 min Scan# 61
Delta R.T. -0.020 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

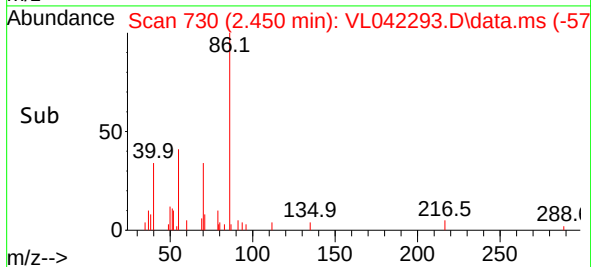
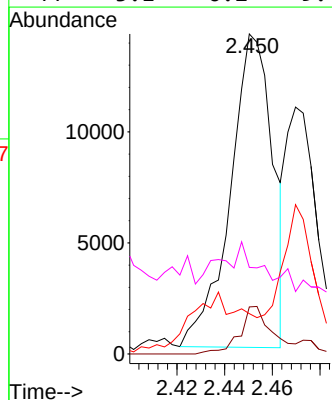
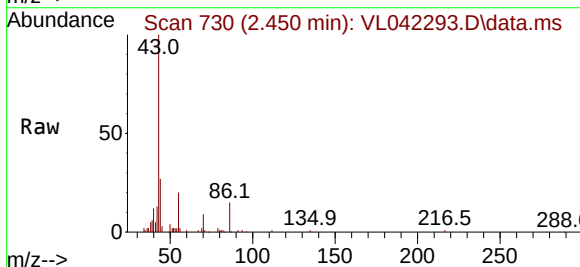
Instrument :
MSVOA_L
ClientSampleId :
IA-B9-1-3242025

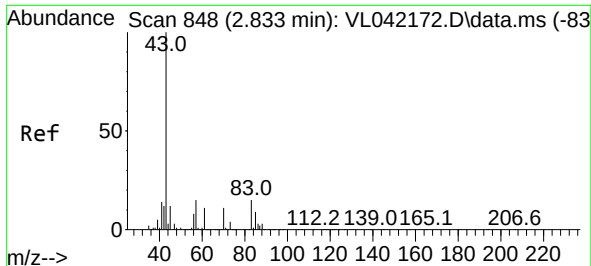
Tgt Ion: 41 Resp: 495
Ion Ratio Lower Upper
41 100
76 55.4 24.1 36.1#
39 0.0 61.1 91.7#



#23
Vinyl Acetate
Concen: 1.785 ppbv
RT: 2.450 min Scan# 730
Delta R.T. -0.010 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

Tgt Ion: 43 Resp: 17521
Ion Ratio Lower Upper
43 100
86 15.0 5.5 8.3#
42 6.5 8.6 13.0#
44 3.1 6.2 9.4#





#25

Ethyl Acetate

Concen: 0.700 ppbv

RT: 2.823 min Scan# 84

Delta R.T. -0.010 min

Lab File: VL042293.D

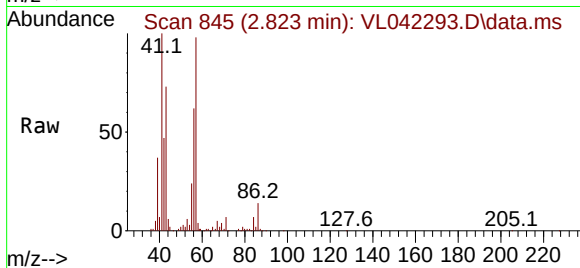
Acq: 09 Apr 2025 15:15

Instrument :

MSVOA_L

ClientSampleId :

IA-B9-1-3242025



Tgt Ion: 43 Resp: 41224

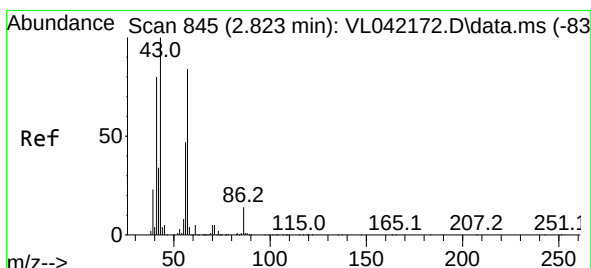
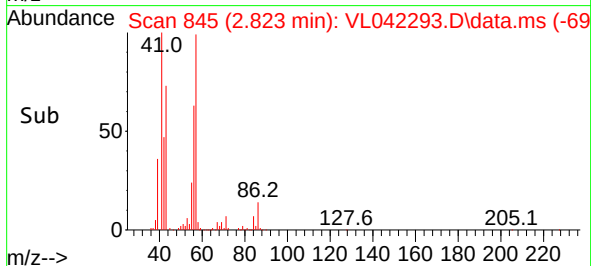
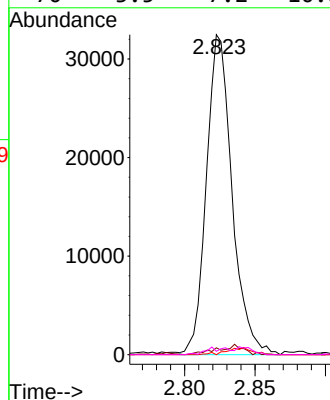
Ion Ratio Lower Upper

43 100

45 3.7 8.2 12.2#

61 2.1 7.3 10.9#

70 3.5 7.2 10.8#



#26

Hexane

Concen: 2.041 ppbv

RT: 2.823 min Scan# 845

Delta R.T. -0.000 min

Lab File: VL042293.D

Acq: 09 Apr 2025 15:15

Tgt Ion: 57 Resp: 46406

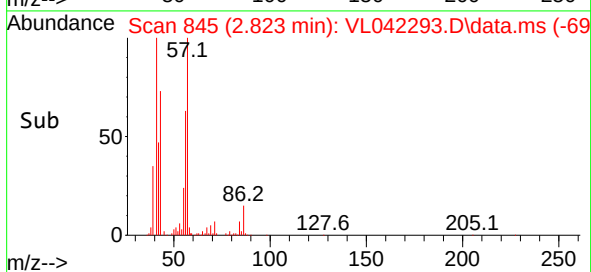
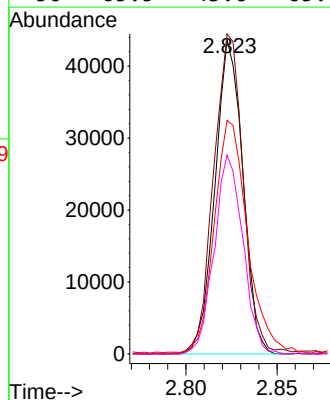
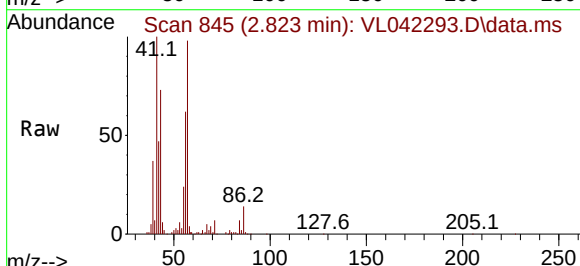
Ion Ratio Lower Upper

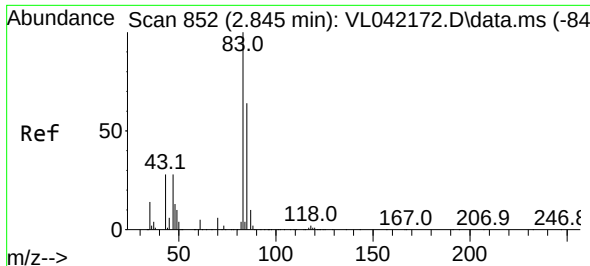
57 100

41 108.6 76.6 114.8

43 89.9 207.8 311.8#

56 65.5 43.6 65.4#





#29

Chloroform

Concen: 0.034 ppbv

RT: 2.848 min Scan# 853

Delta R.T. 0.003 min

Lab File: VL042293.D

Acq: 09 Apr 2025 15:15

Instrument :

MSVOA_L

ClientSampleId :

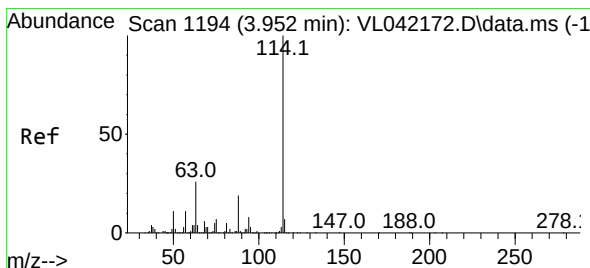
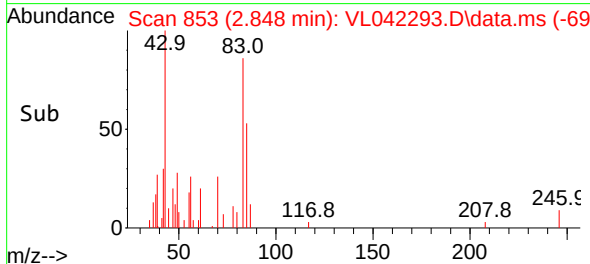
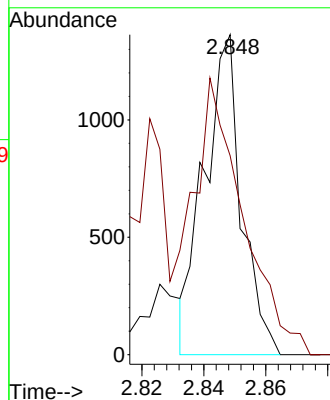
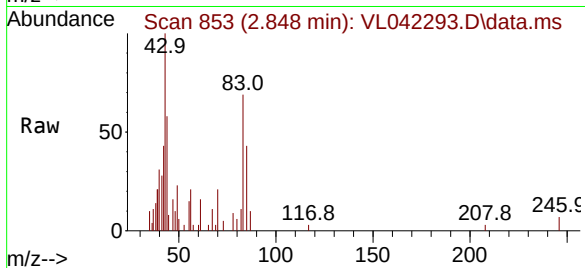
IA-B9-1-3242025

Tgt Ion: 83 Resp: 1132

Ion Ratio Lower Upper

83 100

85 53.2 51.4 77.2



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.952 min Scan# 1194

Delta R.T. -0.000 min

Lab File: VL042293.D

Acq: 09 Apr 2025 15:15

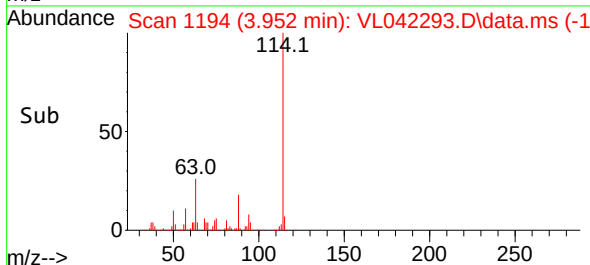
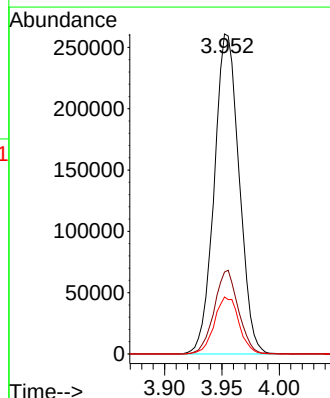
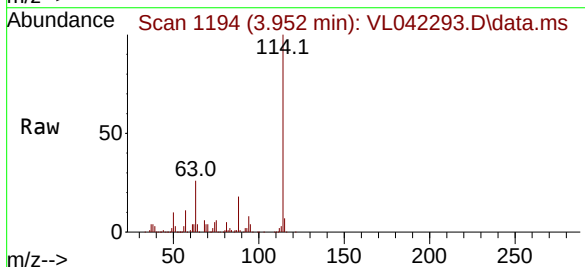
Tgt Ion: 114 Resp: 394727

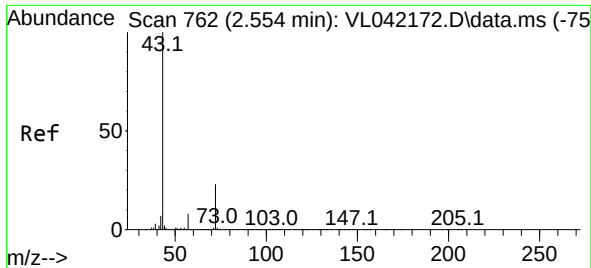
Ion Ratio Lower Upper

114 100

63 25.3 20.7 31.1

88 17.6 15.0 22.4

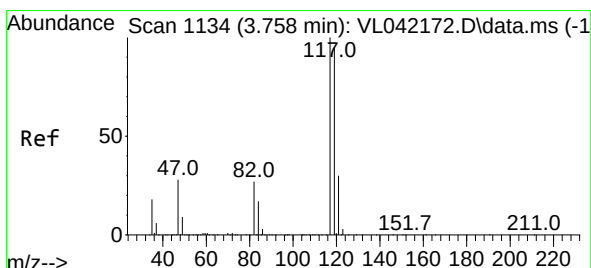
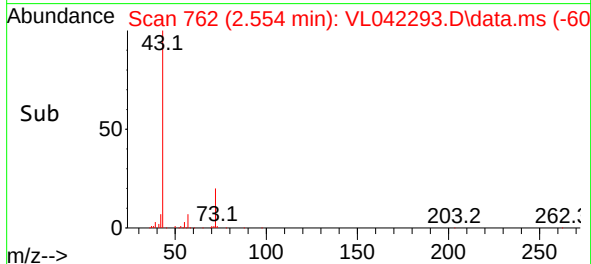
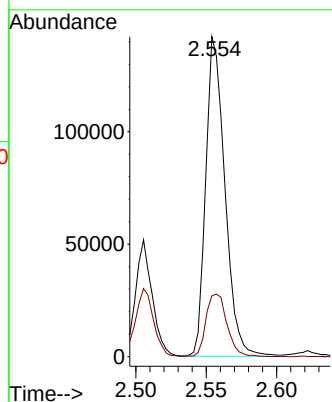
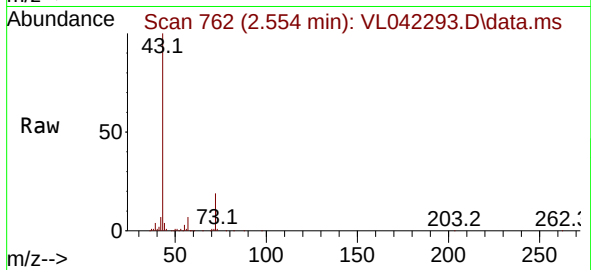




#34
2-Butanone
Concen: 4.715 ppbv
RT: 2.554 min Scan# 762
Delta R.T. -0.000 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

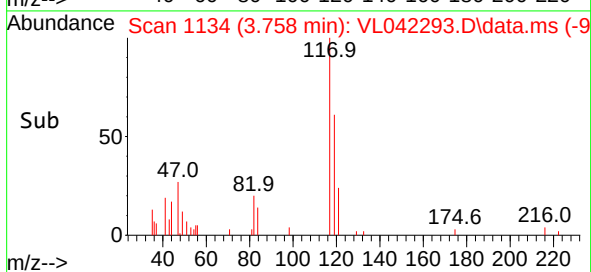
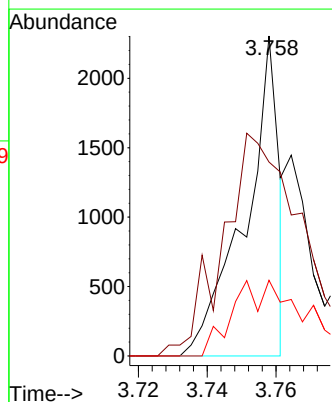
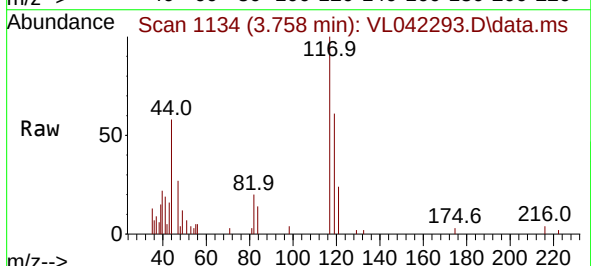
Instrument :
MSVOA_L
ClientSampleId :
IA-B9-1-3242025

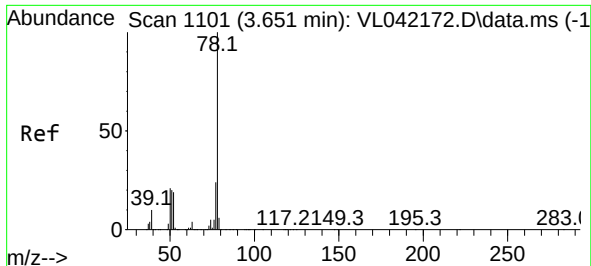
Tgt Ion: 43 Resp: 134955
Ion Ratio Lower Upper
43 100
72 21.5 18.2 27.2



#35
Carbon Tetrachloride
Concen: 0.051 ppbv
RT: 3.758 min Scan# 1134
Delta R.T. -0.000 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

Tgt Ion: 117 Resp: 1572
Ion Ratio Lower Upper
117 100
119 57.2 76.2 114.2#
121 23.6 24.2 36.4#

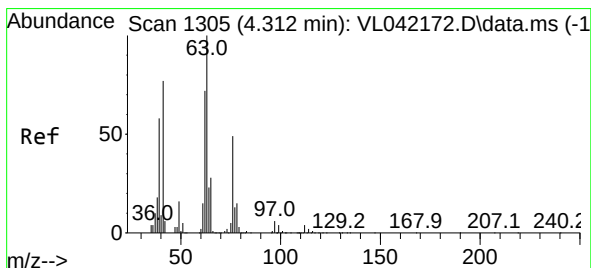
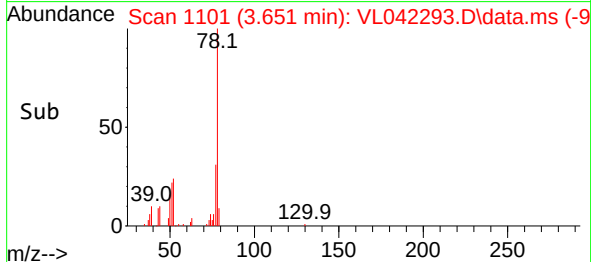
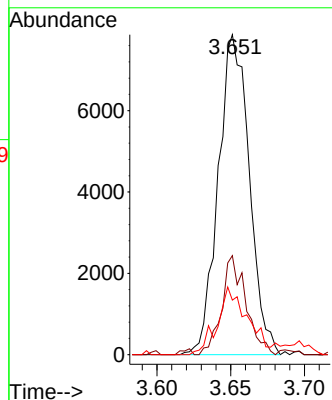
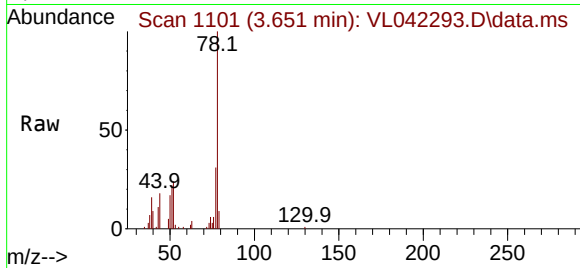




#36
Benzene
Concen: 0.294 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. -0.000 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

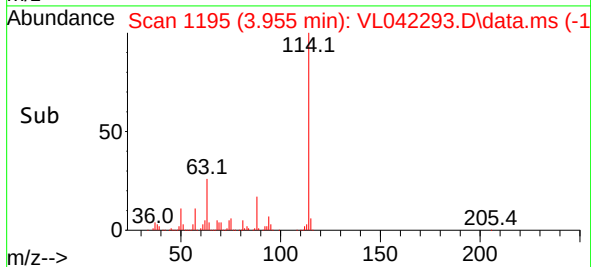
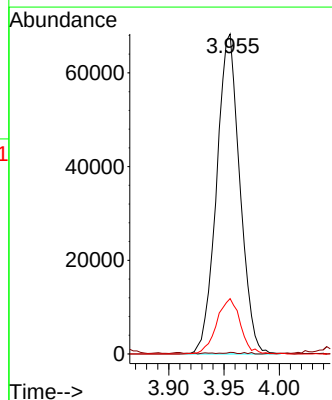
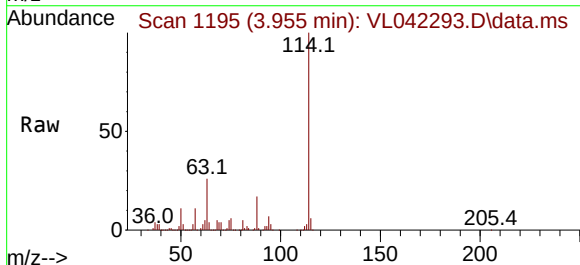
Instrument :
MSVOA_L
ClientSampleId :
IA-B9-1-3242025

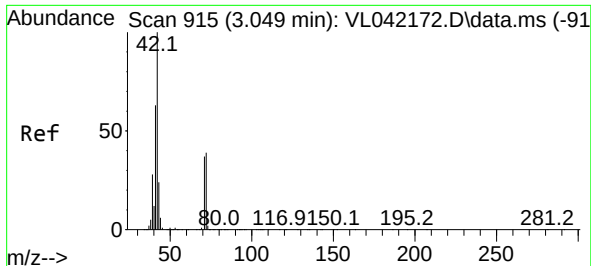
Tgt Ion:	78	Resp:	11524
Ion	Ratio	Lower	Upper
78	100		
77	29.8	19.1	28.7#
50	17.1	16.6	24.8



#39
1,2-Dichloropropane
Concen: 7.012 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. -0.356 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

Tgt Ion:	63	Resp:	99931
Ion	Ratio	Lower	Upper
63	100		
41	0.2	61.7	92.5#
62	17.3	57.6	86.4#

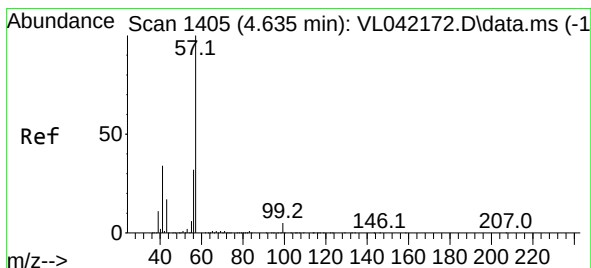
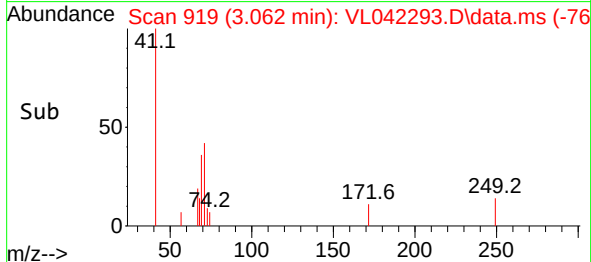
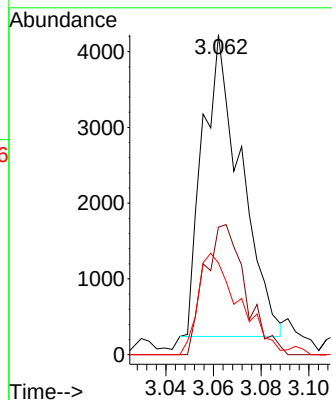
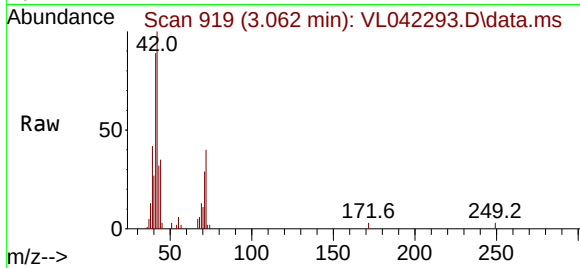




#41
Tetrahydrofuran
Concen: 0.270 ppbv
RT: 3.062 min Scan# 915
Delta R.T. 0.013 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

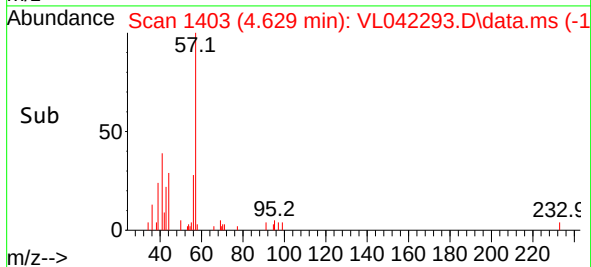
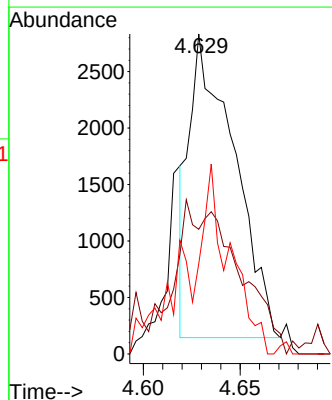
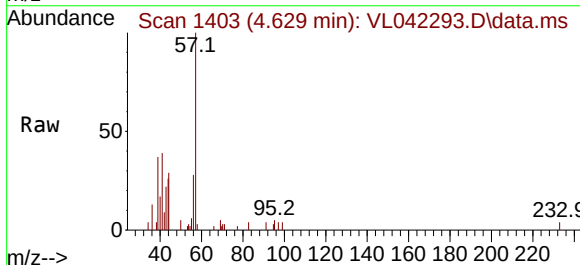
Instrument :
MSVOA_L
ClientSampleId :
IA-B9-1-3242025

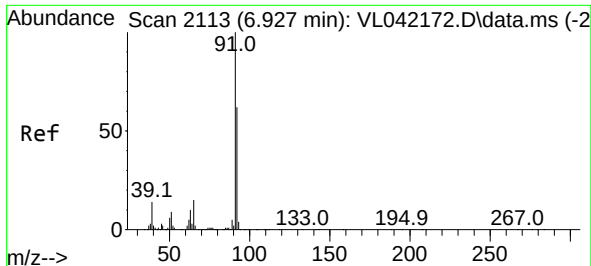
Tgt Ion: 42 Resp: 4453
Ion Ratio Lower Upper
42 100
72 45.9 31.4 47.0
71 37.1 30.2 45.4



#44
2,2,4-Trimethylpentane
Concen: 0.065 ppbv
RT: 4.629 min Scan# 1403
Delta R.T. -0.007 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

Tgt Ion: 57 Resp: 4328
Ion Ratio Lower Upper
57 100
41 65.9 26.8 40.2#
56 69.2 25.6 38.4#

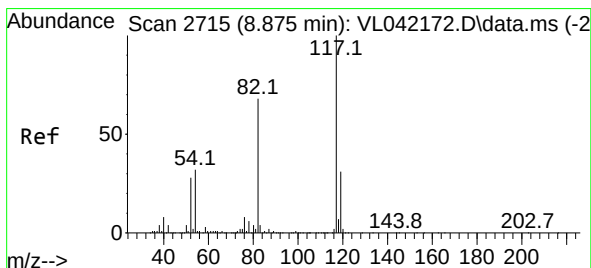
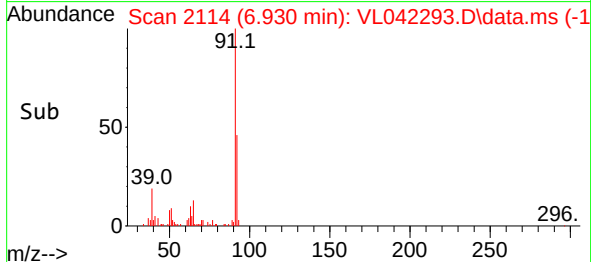
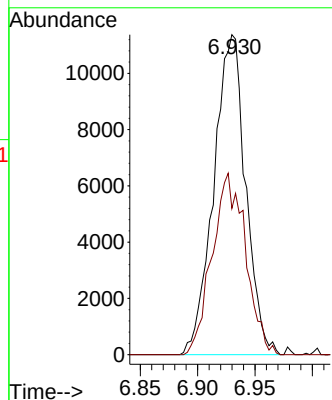
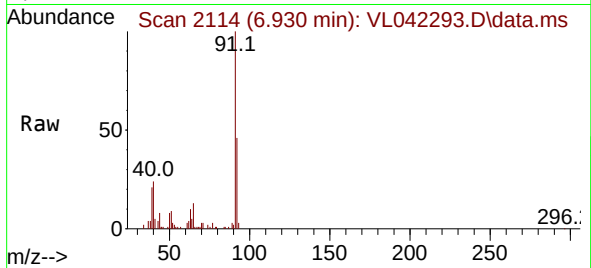




#53
Toluene
Concen: 0.476 ppbv
RT: 6.930 min Scan# 2114
Delta R.T. 0.003 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

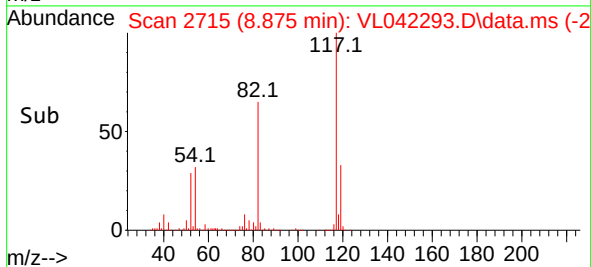
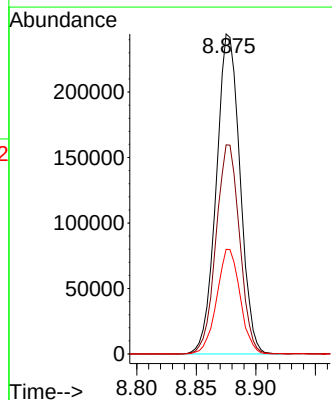
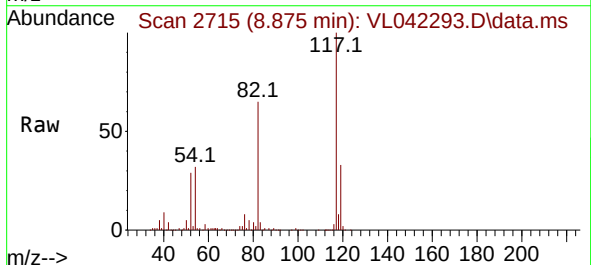
Instrument :
MSVOA_L
ClientSampleId :
IA-B9-1-3242025

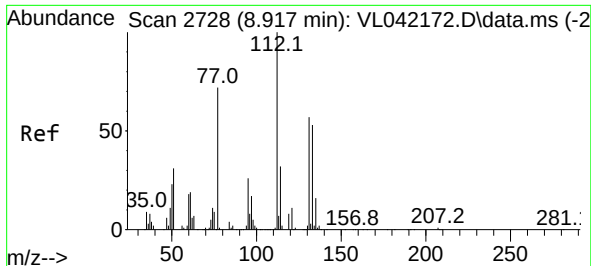
Tgt Ion: 91 Resp: 22070
Ion Ratio Lower Upper
91 100
92 59.2 48.4 72.6



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. -0.000 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

Tgt Ion: 117 Resp: 338809
Ion Ratio Lower Upper
117 100
82 65.0 55.8 83.6
119 32.2 25.5 38.3





#57

Chlorobenzene

Concen: 0.241 ppbv

RT: 8.914 min Scan# 21

Delta R.T. -0.003 min

Lab File: VL042293.D

Acq: 09 Apr 2025 15:15

Instrument :

MSVOA_L

ClientSampleId :

IA-B9-1-3242025

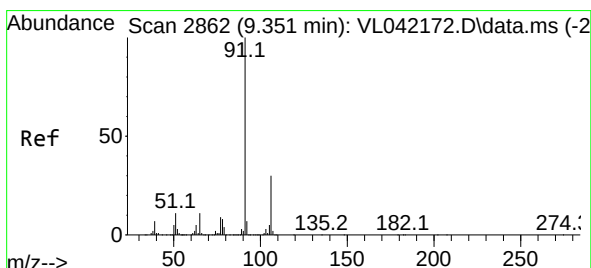
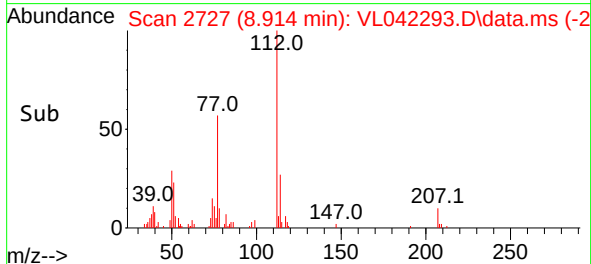
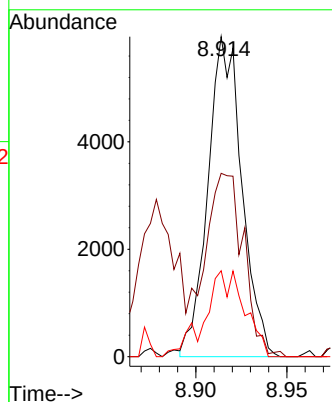
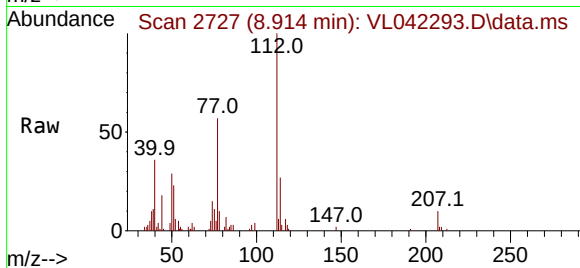
Tgt Ion:112 Resp: 7743

Ion Ratio Lower Upper

112 100

77 55.6 58.2 87.2#

114 26.9 29.1 35.5#



#58

Ethyl Benzene

Concen: 0.058 ppbv

RT: 9.354 min Scan# 2863

Delta R.T. 0.003 min

Lab File: VL042293.D

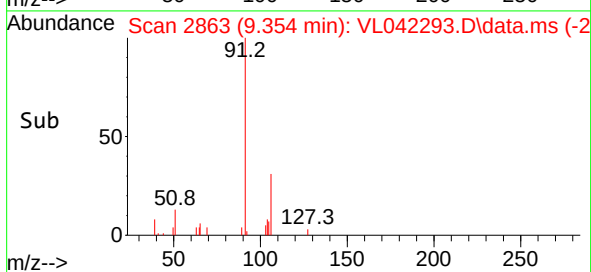
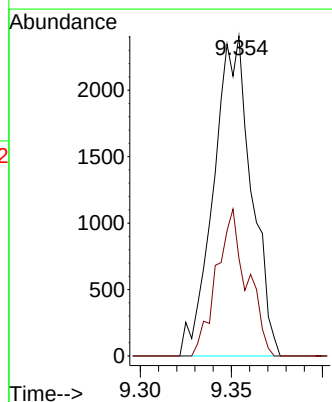
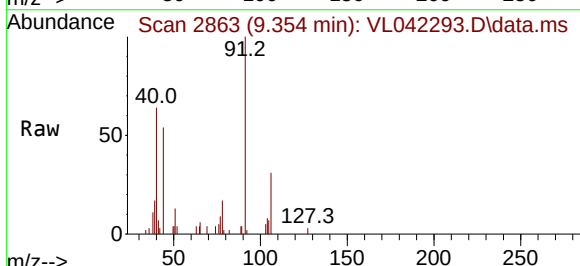
Acq: 09 Apr 2025 15:15

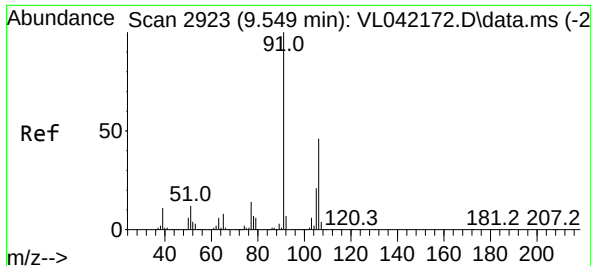
Tgt Ion: 91 Resp: 3481

Ion Ratio Lower Upper

91 100

106 30.6 24.2 36.2





#59

m/p-Xylene

Concen: 0.186 ppbv

RT: 9.529 min Scan# 2917

Delta R.T. -0.020 min

Lab File: VL042293.D

Acq: 09 Apr 2025 15:15

Instrument :

MSVOA_L

ClientSampleId :

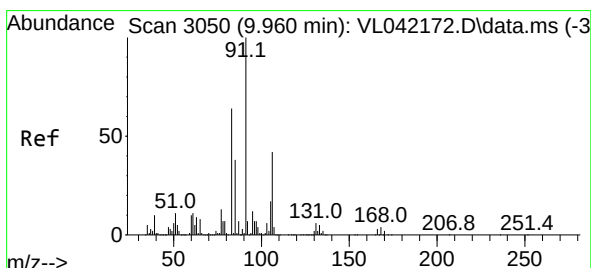
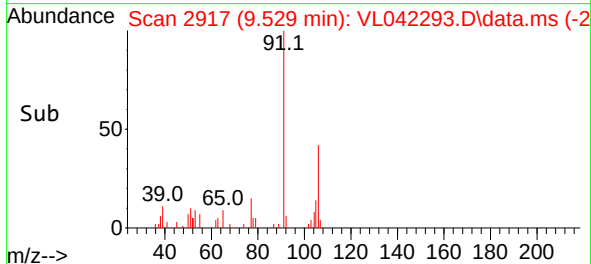
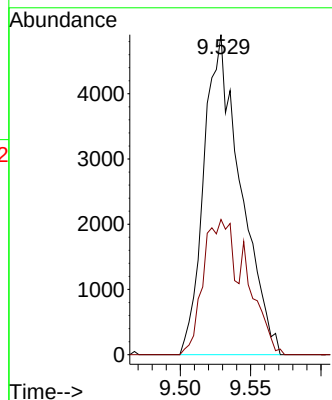
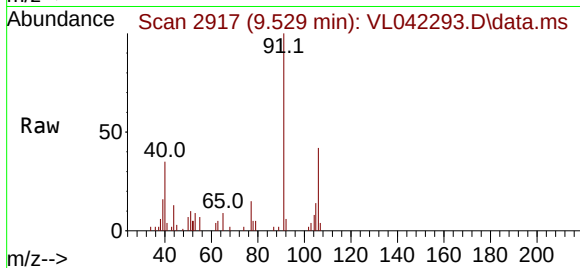
IA-B9-1-3242025

Tgt Ion: 91 Resp: 8935

Ion Ratio Lower Upper

91 100

106 48.6 36.4 54.6



#60

o-Xylene

Concen: 0.095 ppbv

RT: 9.963 min Scan# 3051

Delta R.T. 0.003 min

Lab File: VL042293.D

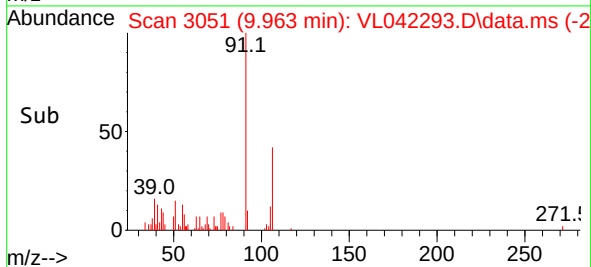
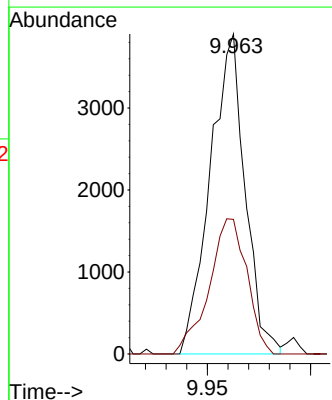
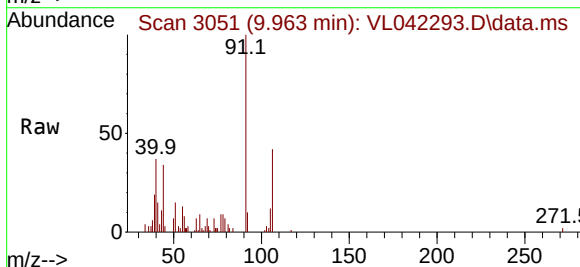
Acq: 09 Apr 2025 15:15

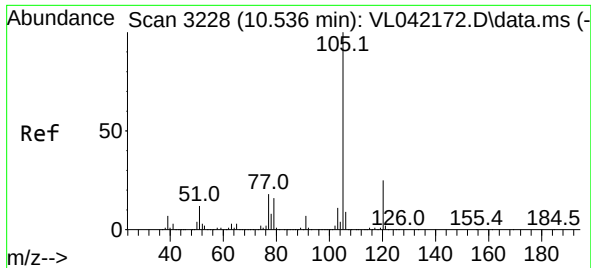
Tgt Ion: 91 Resp: 4584

Ion Ratio Lower Upper

91 100

106 45.5 20.8 62.5

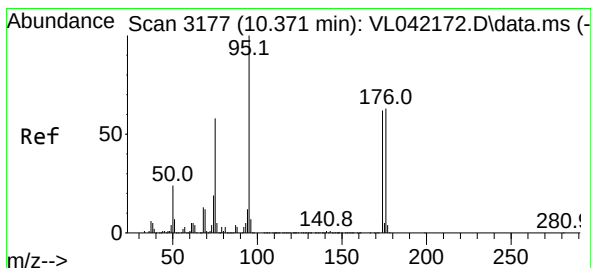
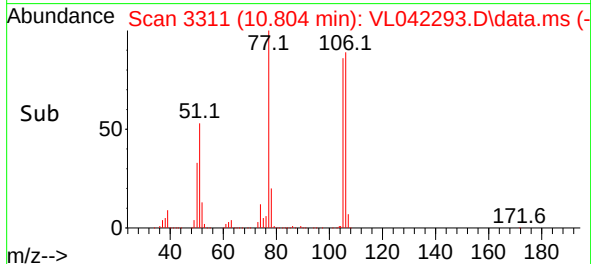
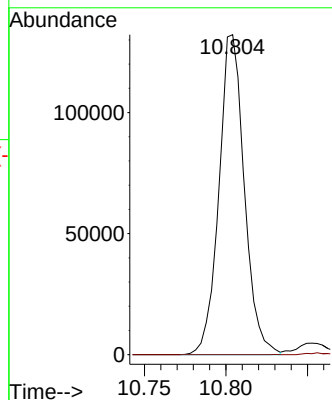
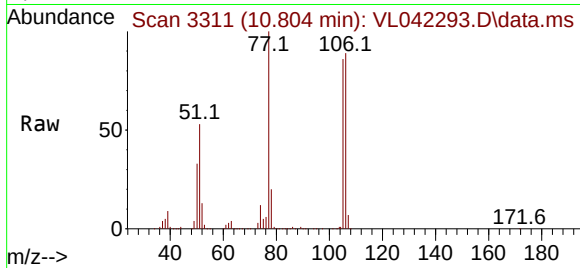




#62
Isopropylbenzene
Concen: 1.987 ppbv
RT: 10.804 min Scan# 3111
Delta R.T. 0.268 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

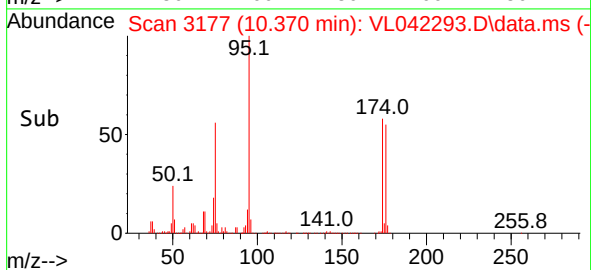
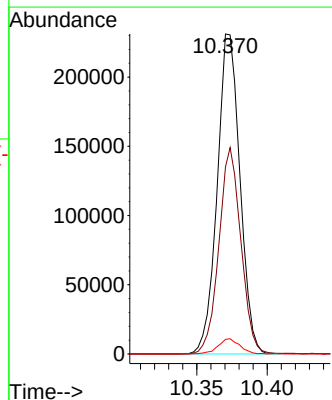
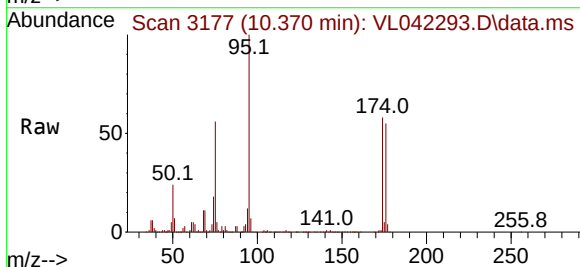
Instrument :
MSVOA_L
ClientSampleId :
IA-B9-1-3242025

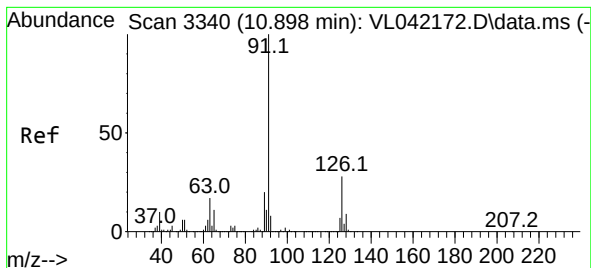
Tgt Ion:105 Resp: 143134
Ion Ratio Lower Upper
105 100
120 0.0 19.9 29.9#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.362 ppbv
RT: 10.370 min Scan# 3177
Delta R.T. -0.000 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

Tgt Ion: 95 Resp: 260496
Ion Ratio Lower Upper
95 100
174 62.4 50.6 76.0
175 4.6 3.8 5.6





#71

2-Chlorotoluene

Concen: 0.377 ppbv

RT: 10.853 min Scan# 31

Delta R.T. -0.046 min

Lab File: VL042293.D

Acq: 09 Apr 2025 15:15

Instrument :

MSVOA_L

ClientSampleId :

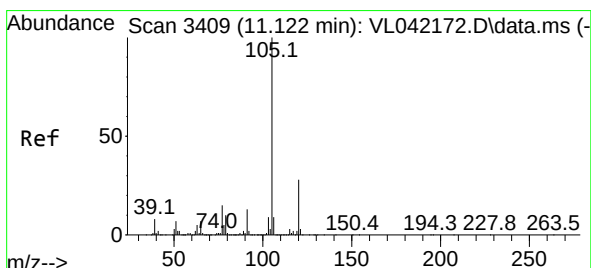
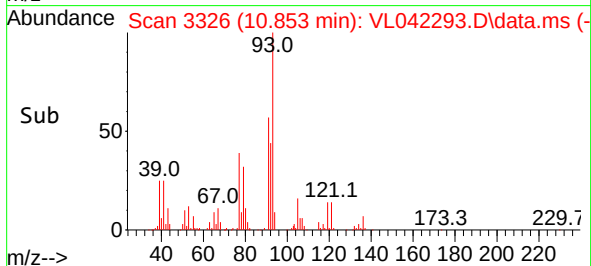
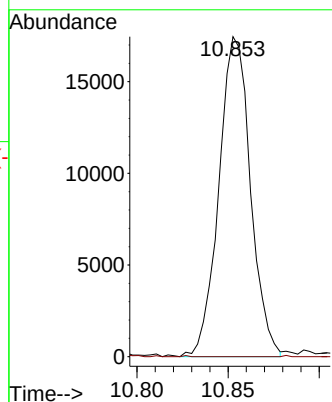
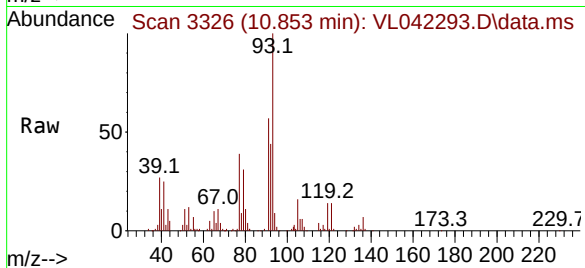
IA-B9-1-3242025

Tgt Ion: 91 Resp: 21081

Ion Ratio Lower Upper

91 100

126 0.1 11.6 46.4#



#72

4-Ethyltoluene

Concen: 0.053 ppbv

RT: 11.092 min Scan# 3400

Delta R.T. -0.029 min

Lab File: VL042293.D

Acq: 09 Apr 2025 15:15

Tgt Ion: 105 Resp: 3205

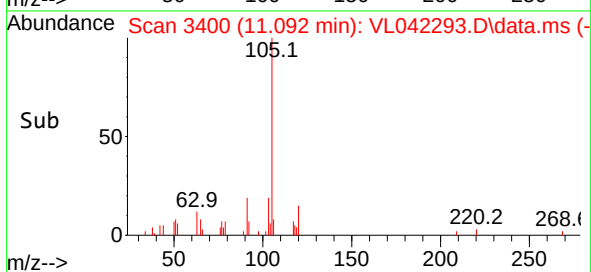
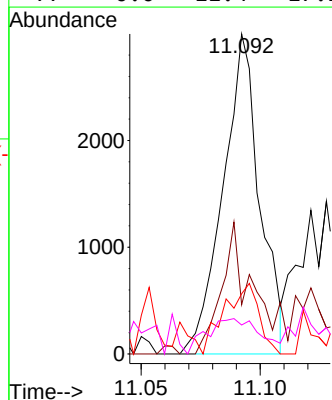
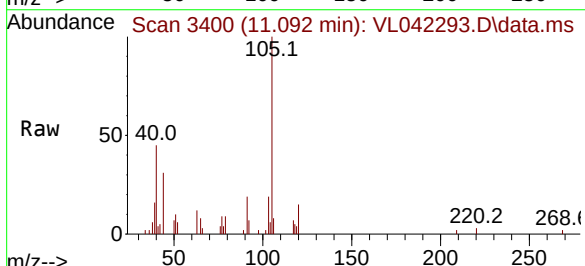
Ion Ratio Lower Upper

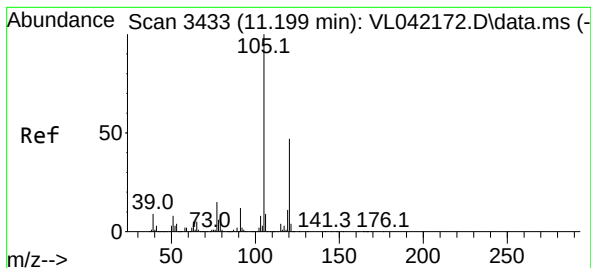
105 100

120 54.5 23.4 35.0#

91 24.8 10.3 15.5#

77 0.0 11.4 17.2#

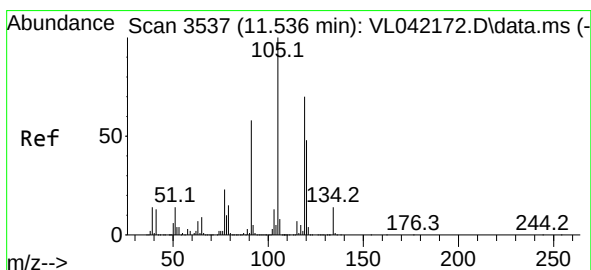
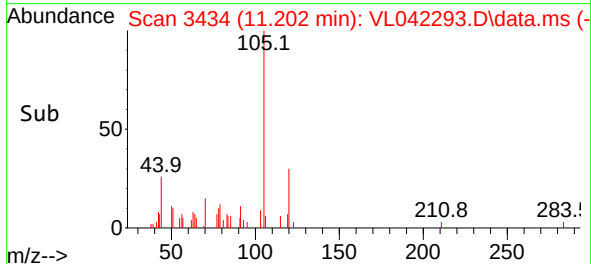
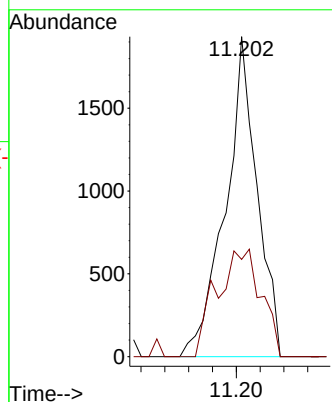
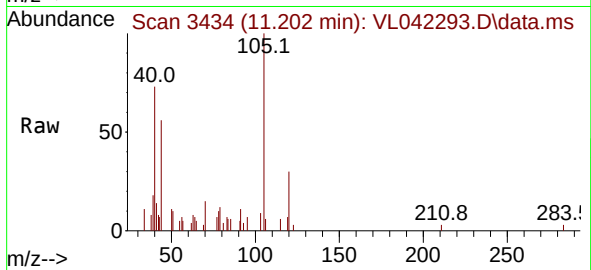




#73
1,3,5-Trimethylbenzene
Concen: 0.034 ppbv
RT: 11.202 min Scan# 3434
Delta R.T. 0.003 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

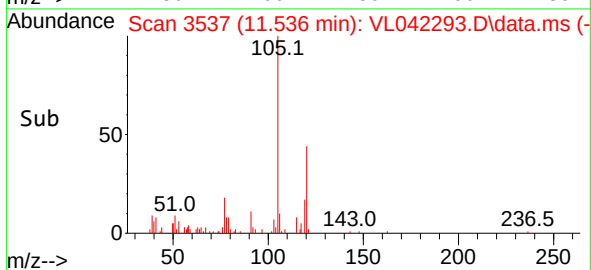
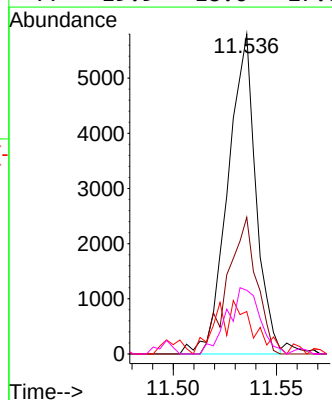
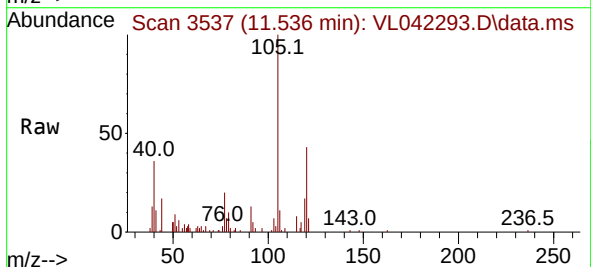
Instrument :
MSVOA_L
ClientSampleId :
IA-B9-1-3242025

Tgt Ion:105 Resp: 1783
Ion Ratio Lower Upper
105 100
120 30.4 37.4 56.0#



#74
1,2,4-Trimethylbenzene
Concen: 0.090 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. -0.000 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

Tgt Ion:105 Resp: 5457
Ion Ratio Lower Upper
105 100
120 42.7 38.6 58.0
91 11.2 46.2 69.2#
77 19.9 18.6 27.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
 Data File : VL042294.D
 Acq On : 09 Apr 2025 15:50
 Operator : SY/MD
 Sample : Q1665-08
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-DUP-2-3242025

Quant Time: Apr 10 01:45:44 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	159184	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	384747	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	314874	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	236151	9.133	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	91.300%

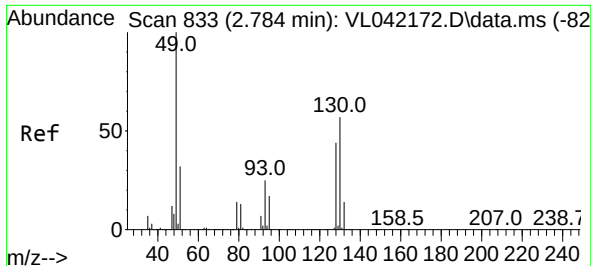
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.499	85	9013	0.383	ppbv	100
3) Chlorodifluoromethane	1.476	51	29537	1.230	ppbv #	90
4) Chloromethane	1.534	50	10945	1.139	ppbv	99
6) Bromomethane	1.670	94	190	0.044	ppbv #	63
7) Chloroethane	1.706	64	431	0.112	ppbv	95
9) Propene	1.887	41	22225	2.019	ppbv	95
11) Trichlorofluoromethane	1.877	101	5632	0.246	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.136	101	1388	0.074	ppbv #	81
13) Ethanol	1.722	45	35576	34.196	ppbv	82
15) Acetone	1.835	43	257522	11.567	ppbv	96
16) 1,3-Butadiene	1.599	39	3737	0.344	ppbv #	53
17) tert-Butyl alcohol	1.887	59	8353	0.301	ppbv	95
19) Isopropyl Alcohol	1.887	45	224606	17.881	ppbv #	33
20) Methylene Chloride	2.062	84	8683	1.047	ppbv #	84
21) Allyl Chloride	2.046	41	1988	0.127	ppbv #	79
23) Vinyl Acetate	2.476	43	7754	0.805	ppbv #	34
25) Ethyl Acetate	2.826	43	18155	0.314	ppbv #	87
26) Hexane	2.829	57	20910	0.937	ppbv #	31
29) Chloroform	2.848	83	10374	0.318	ppbv	96
34) 2-Butanone	2.560	43	91945	3.296	ppbv	97
35) Carbon Tetrachloride	3.764	117	2461	0.082	ppbv #	83
36) Benzene	3.661	78	3707	0.097	ppbv #	93
39) 1,2-Dichloropropane	3.962	63	97793	7.040	ppbv #	22
41) Tetrahydrofuran	3.069	42	2861	0.178	ppbv #	86

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

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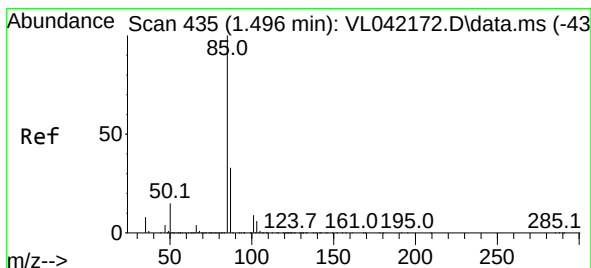
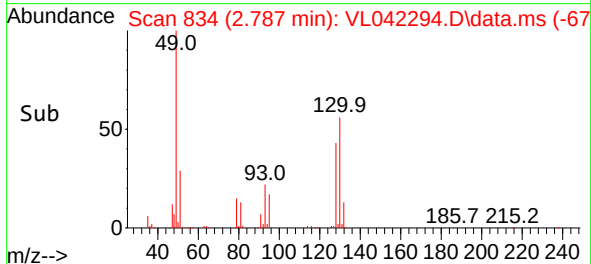
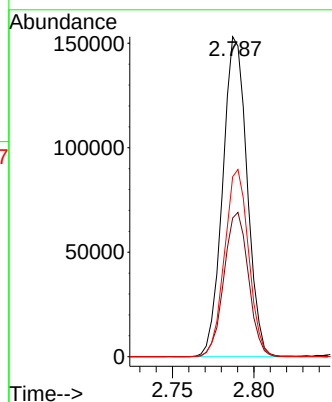
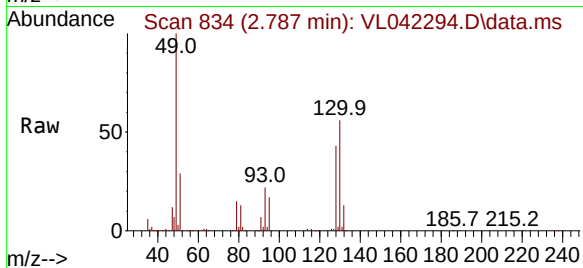




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042294.D
Acq: 09 Apr 2025 15:50

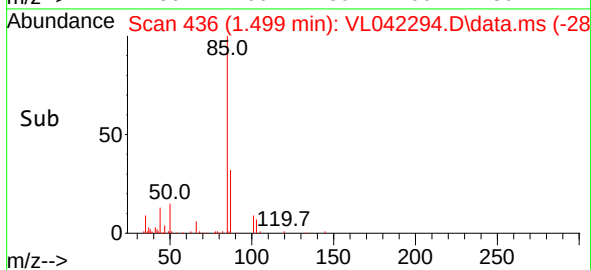
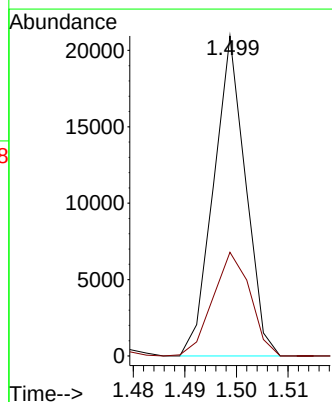
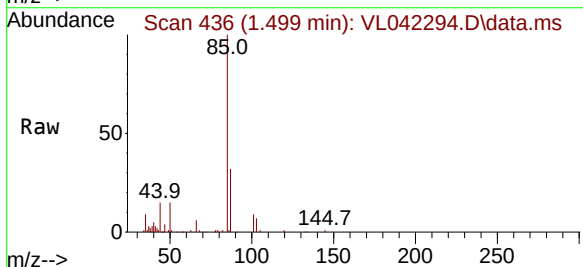
Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-2-3242025

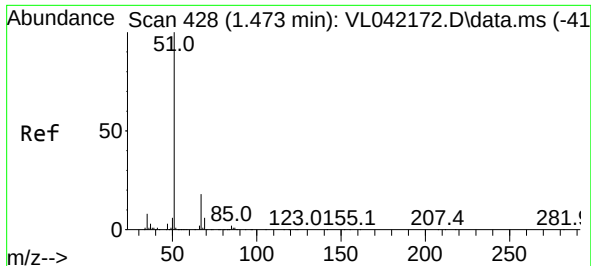
Tgt Ion: 49 Resp: 159184
Ion Ratio Lower Upper
49 100
128 45.2 22.9 68.5
130 57.8 28.8 86.4



#2
Dichlorodifluoromethane
Concen: 0.383 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL042294.D
Acq: 09 Apr 2025 15:50

Tgt Ion: 85 Resp: 9013
Ion Ratio Lower Upper
85 100
87 32.4 26.1 39.1

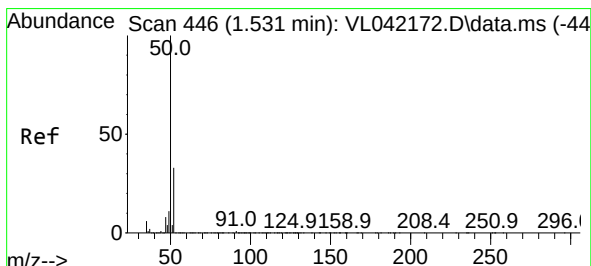
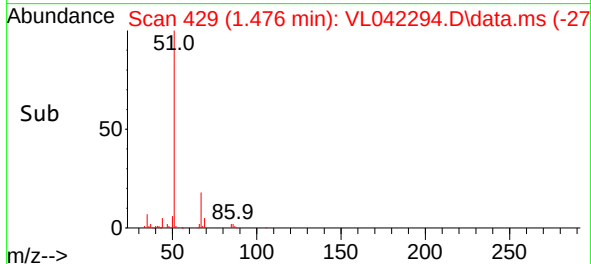
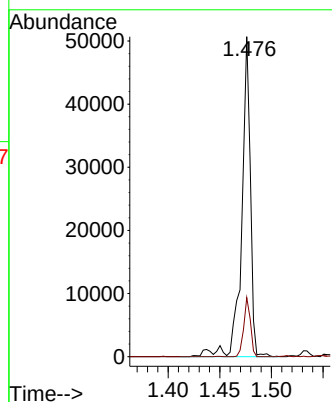
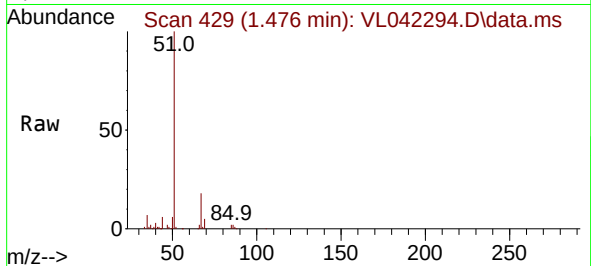




#3
Chlorodifluoromethane
Concen: 1.230 ppbv
RT: 1.476 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042294.D
Acq: 09 Apr 2025 15:50

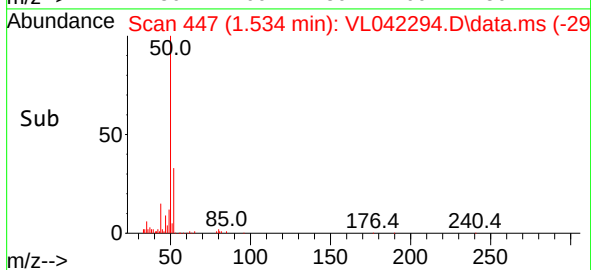
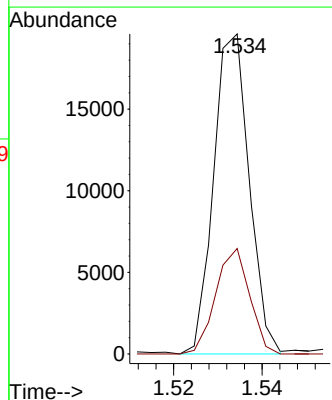
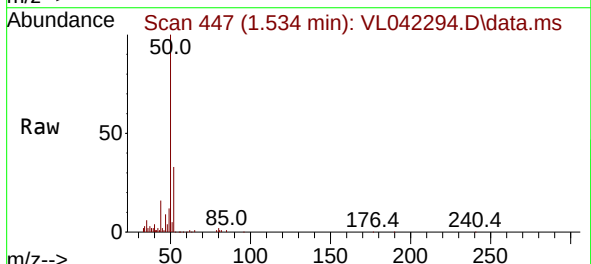
Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-2-3242025

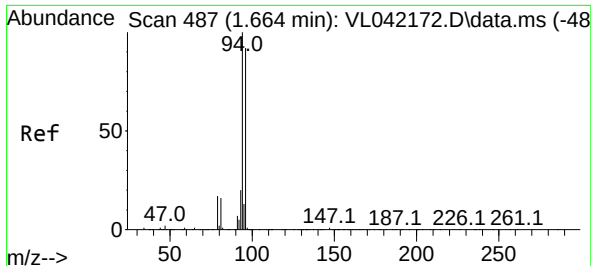
Tgt Ion: 51 Resp: 29537
Ion Ratio Lower Upper
51 100
67 14.3 15.0 22.6#



#4
Chloromethane
Concen: 1.139 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042294.D
Acq: 09 Apr 2025 15:50

Tgt Ion: 50 Resp: 10945
Ion Ratio Lower Upper
50 100
52 32.9 26.1 39.1

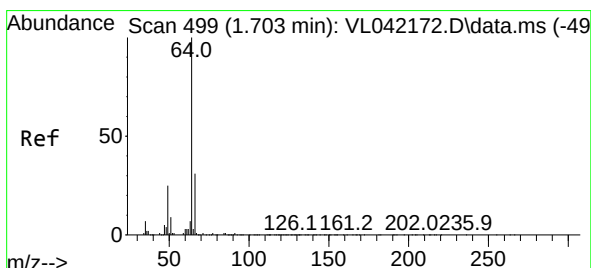
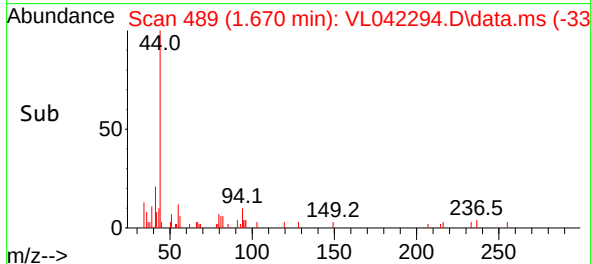
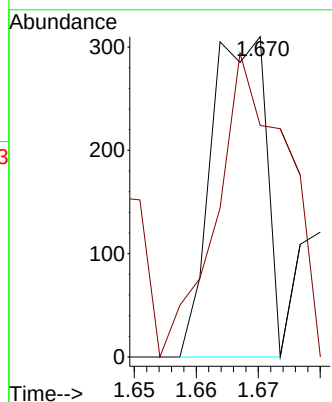
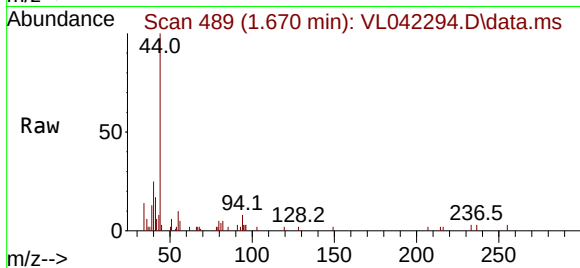




#6
Bromomethane
Concen: 0.044 ppbv
RT: 1.670 min Scan# 41
Delta R.T. 0.006 min
Lab File: VL042294.D
Acq: 09 Apr 2025 15:50

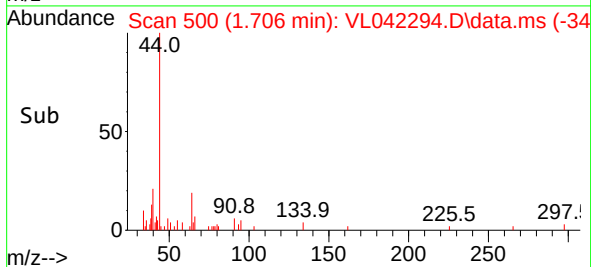
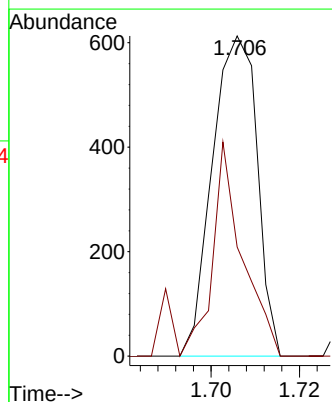
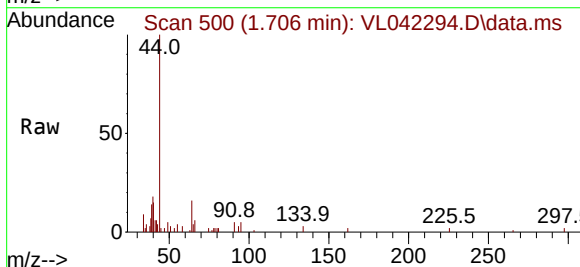
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ClientSampleId :
IA-DUP-2-3242025

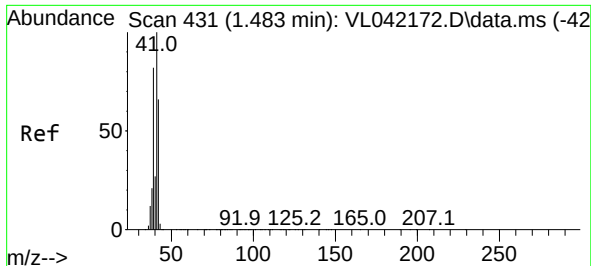
Tgt Ion: 94 Resp: 190
Ion Ratio Lower Upper
94 100
96 56.1 73.1 109.7#



#7
Chloroethane
Concen: 0.112 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.003 min
Lab File: VL042294.D
Acq: 09 Apr 2025 15:50

Tgt Ion: 64 Resp: 431
Ion Ratio Lower Upper
64 100
66 34.1 25.2 37.8

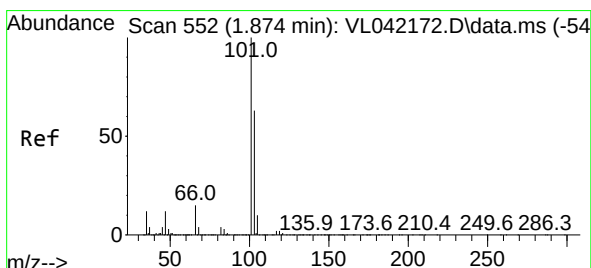
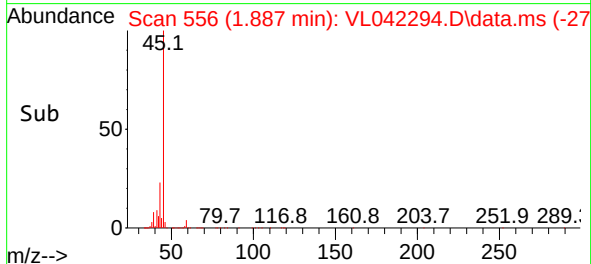
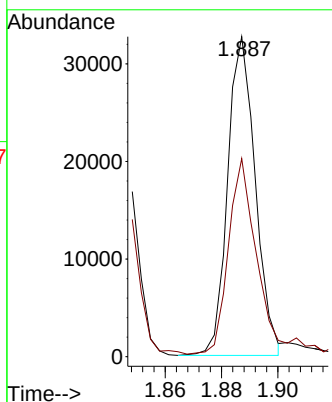
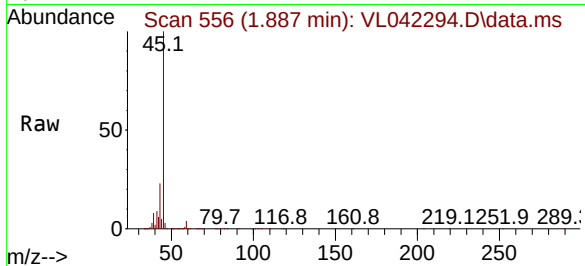




#9
Propene
Concen: 2.019 ppbv
RT: 1.887 min Scan# 51
Delta R.T. 0.404 min
Lab File: VL042294.D
Acq: 09 Apr 2025 15:50

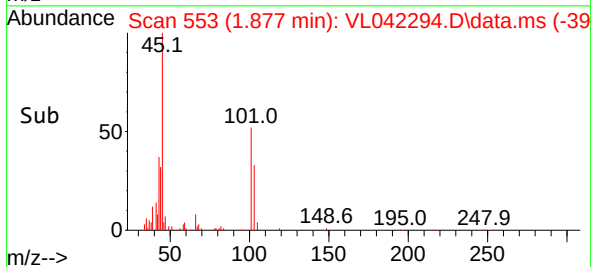
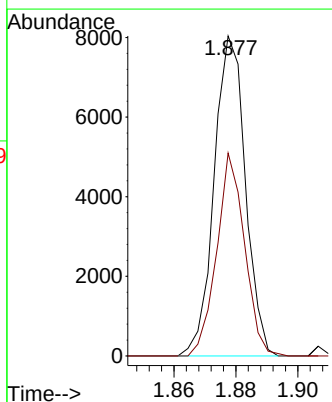
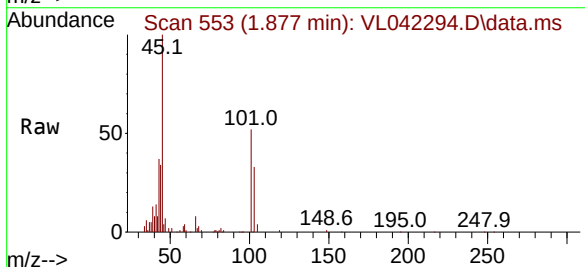
Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-2-3242025

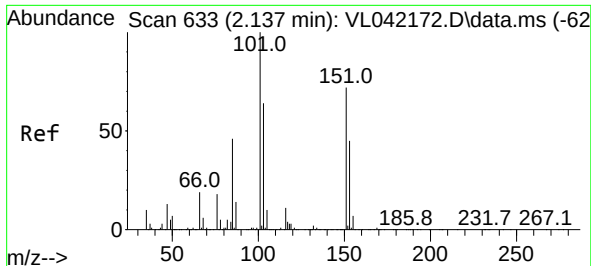
Tgt Ion: 41 Resp: 22225
Ion Ratio Lower Upper
41 100
42 65.5 55.4 83.2



#11
Trichlorofluoromethane
Concen: 0.246 ppbv
RT: 1.877 min Scan# 553
Delta R.T. 0.003 min
Lab File: VL042294.D
Acq: 09 Apr 2025 15:50

Tgt Ion: 101 Resp: 5632
Ion Ratio Lower Upper
101 100
103 63.4 50.2 75.2

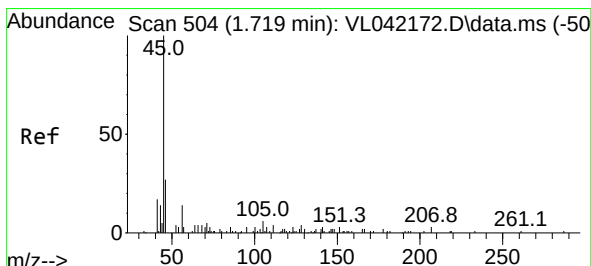
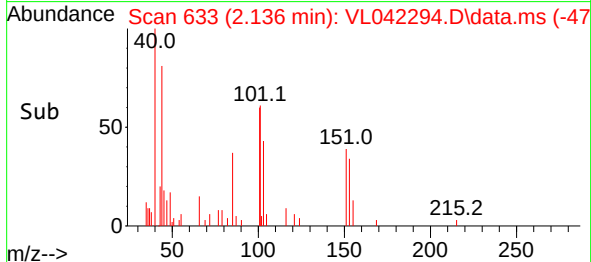
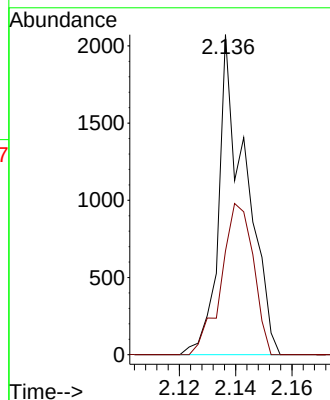
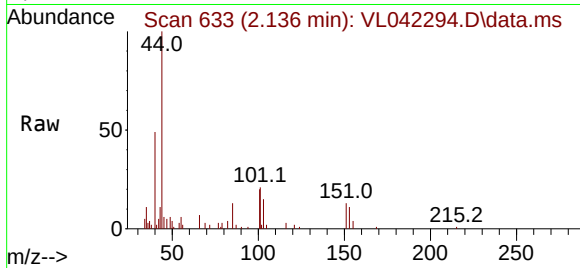




#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.074 ppbv
 RT: 2.136 min Scan# 611
 Delta R.T. -0.000 min
 Lab File: VL042294.D
 Acq: 09 Apr 2025 15:50

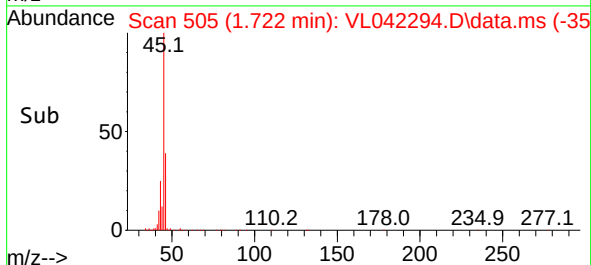
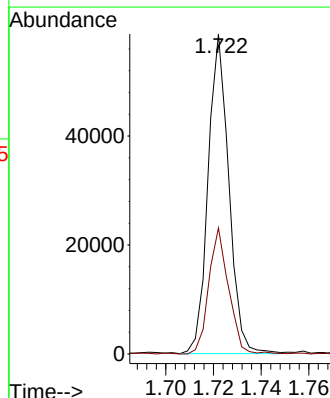
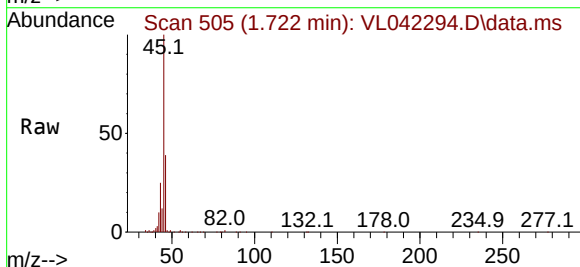
Instrument :
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 ClientSampleId :
 IA-DUP-2-3242025

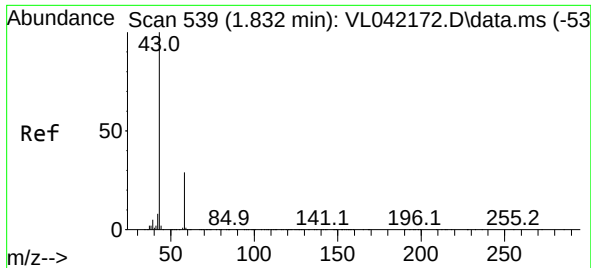
Tgt Ion:101 Resp: 1388
 Ion Ratio Lower Upper
 101 100
 151 55.8 57.1 85.7#



#13
 Ethanol
 Concen: 34.196 ppbv
 RT: 1.722 min Scan# 505
 Delta R.T. 0.003 min
 Lab File: VL042294.D
 Acq: 09 Apr 2025 15:50

Tgt Ion: 45 Resp: 35576
 Ion Ratio Lower Upper
 45 100
 46 38.1 20.2 80.8

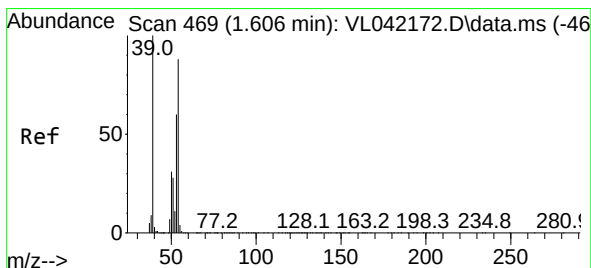
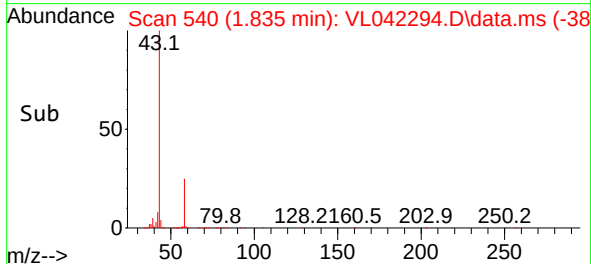
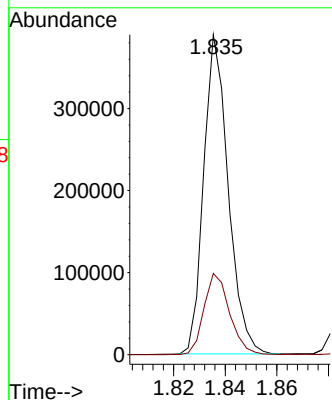
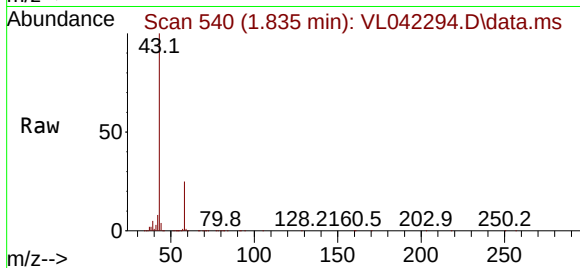




#15
Acetone
Concen: 11.567 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.003 min
Lab File: VL042294.D
Acq: 09 Apr 2025 15:50

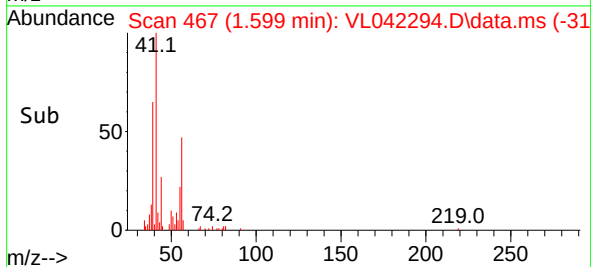
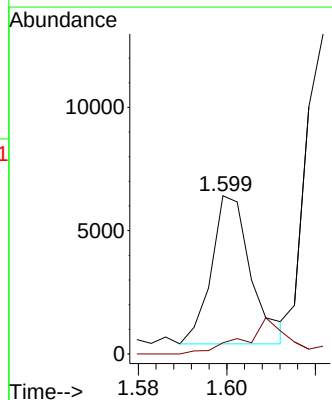
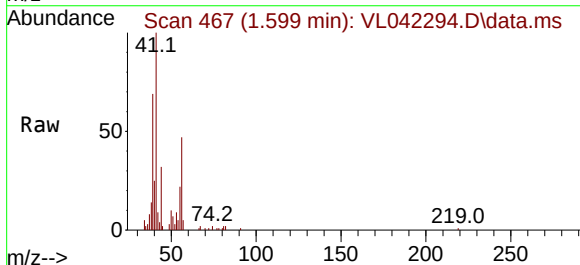
Instrument :
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ClientSampleId :
IA-DUP-2-3242025

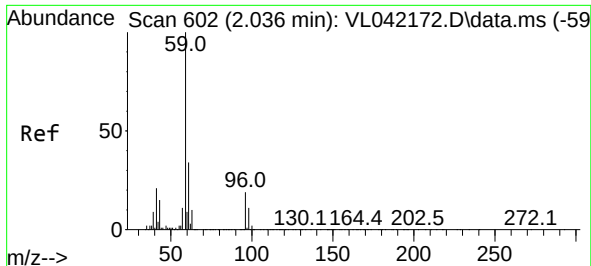
Tgt Ion: 43 Resp: 257522
Ion Ratio Lower Upper
43 100
58 26.6 23.2 34.8



#16
1,3-Butadiene
Concen: 0.344 ppbv
RT: 1.599 min Scan# 467
Delta R.T. -0.007 min
Lab File: VL042294.D
Acq: 09 Apr 2025 15:50

Tgt Ion: 39 Resp: 3737
Ion Ratio Lower Upper
39 100
54 35.8 60.7 91.1#

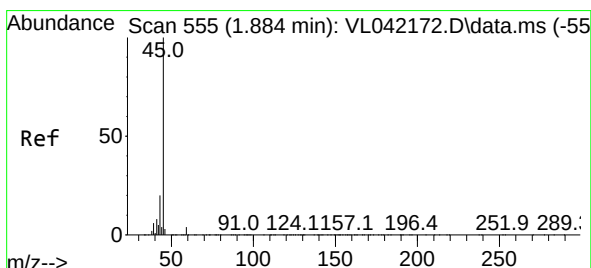
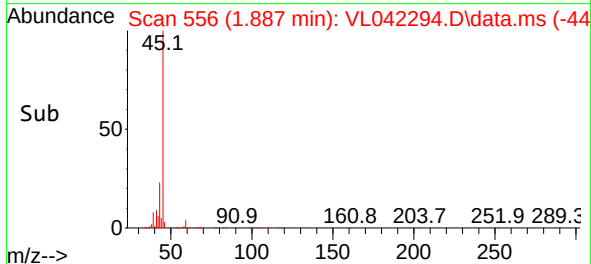
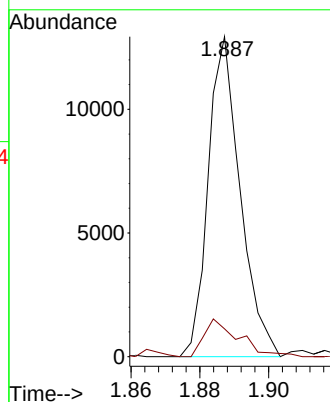
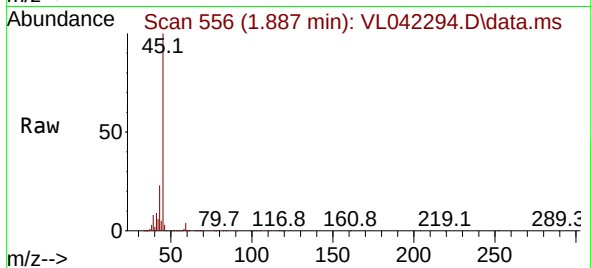




#17
tert-Butyl alcohol
Concen: 0.301 ppbv
RT: 1.887 min Scan# 556
Delta R.T. -0.149 min
Lab File: VL042294.D
Acq: 09 Apr 2025 15:50

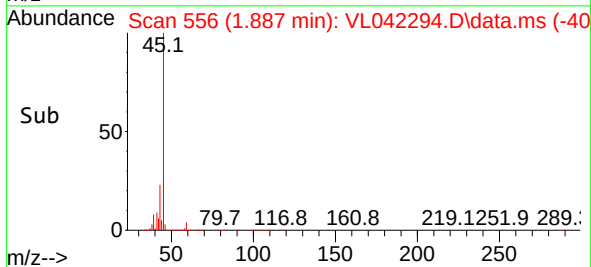
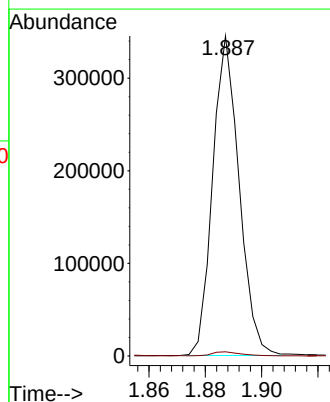
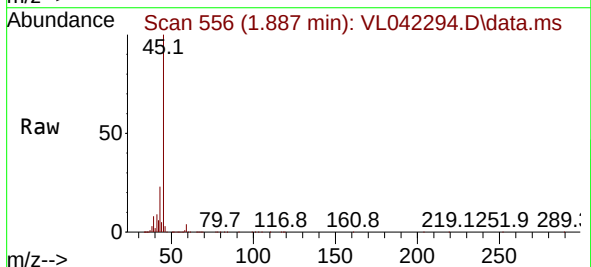
Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-2-3242025

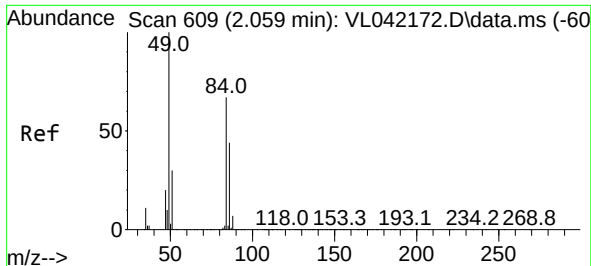
Tgt Ion: 59 Resp: 8353
Ion Ratio Lower Upper
59 100
57 12.8 8.9 13.3



#19
Isopropyl Alcohol
Concen: 17.881 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.003 min
Lab File: VL042294.D
Acq: 09 Apr 2025 15:50

Tgt Ion: 45 Resp: 224606
Ion Ratio Lower Upper
45 100
58 1.5 36.9 55.3#

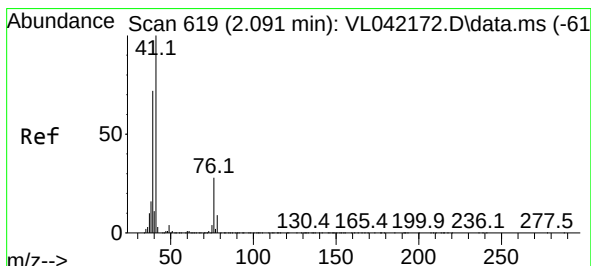
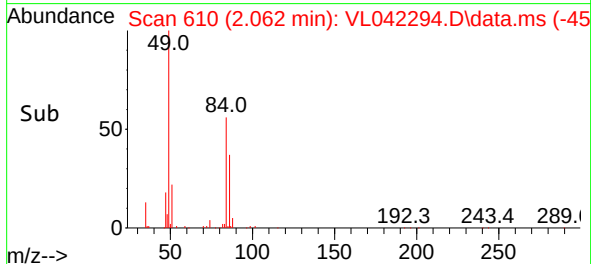
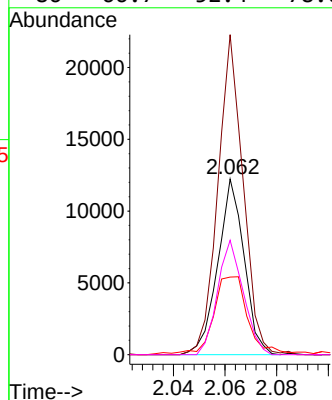
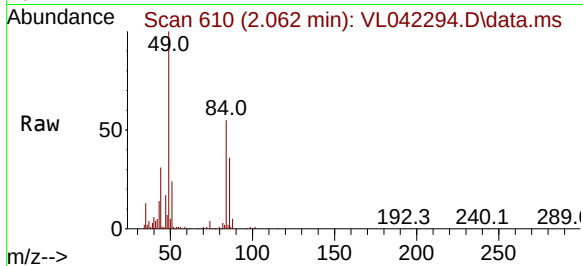




#20
Methylene Chloride
Concen: 1.047 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042294.D
Acq: 09 Apr 2025 15:50

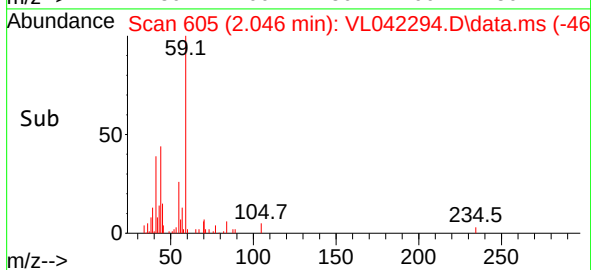
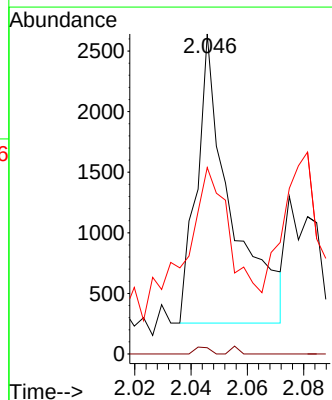
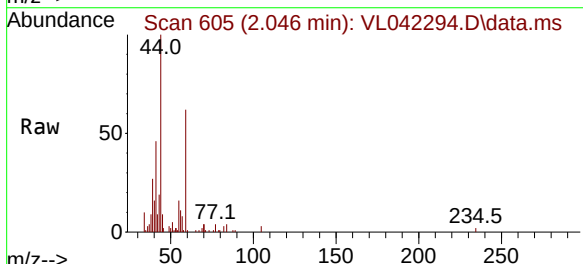
Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-2-3242025

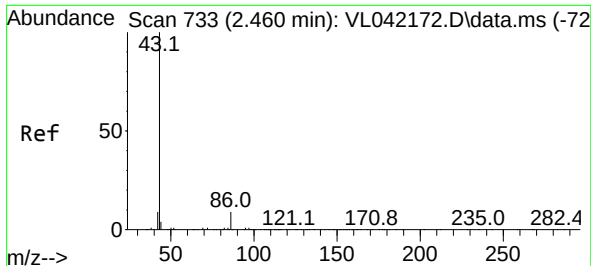
Tgt Ion:	84	Resp:	8683
Ion	Ratio	Lower	Upper
84	100		
49	182.2	120.2	180.4#
51	43.8	37.4	56.0
86	66.7	52.4	78.6



#21
Allyl Chloride
Concen: 0.127 ppbv
RT: 2.046 min Scan# 605
Delta R.T. -0.046 min
Lab File: VL042294.D
Acq: 09 Apr 2025 15:50

Tgt Ion:	41	Resp:	1988
Ion	Ratio	Lower	Upper
41	100		
76	0.0	24.1	36.1#
39	82.8	61.1	91.7

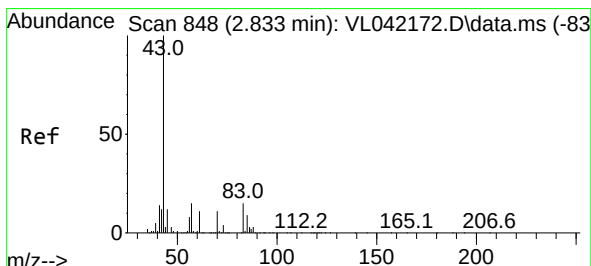
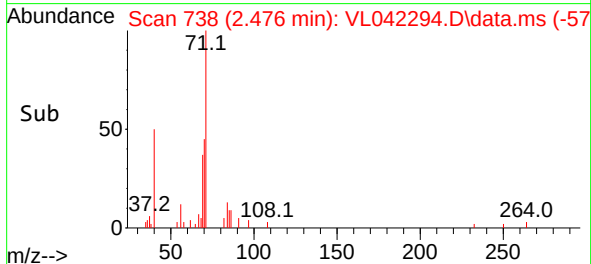
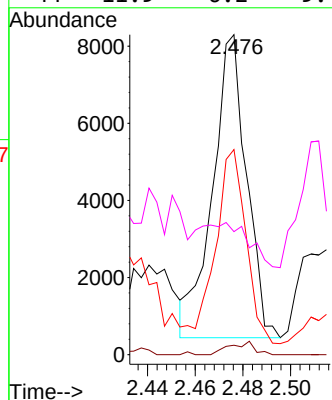
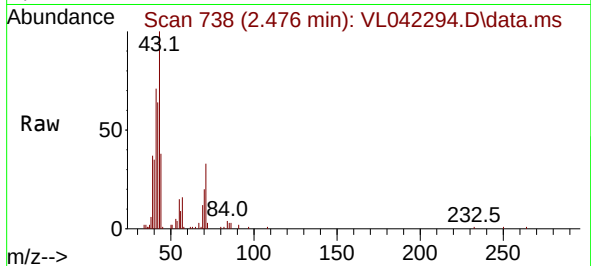




#23
 Vinyl Acetate
 Concen: 0.805 ppbv
 RT: 2.476 min Scan# 71
 Delta R.T. 0.016 min
 Lab File: VL042294.D
 Acq: 09 Apr 2025 15:50

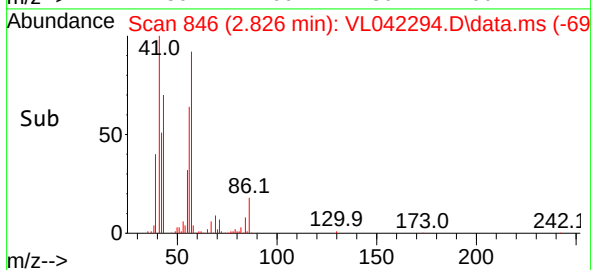
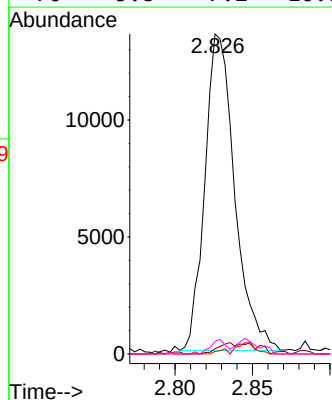
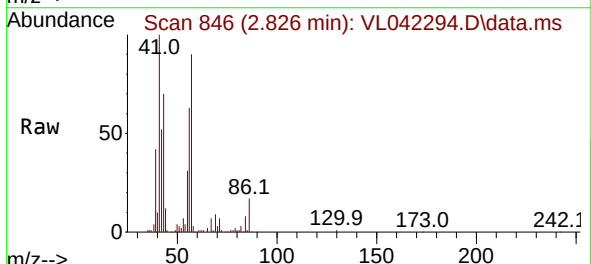
Instrument :
 MSVOA_1
 ClientSampleId :
 IA-DUP-2-3242025

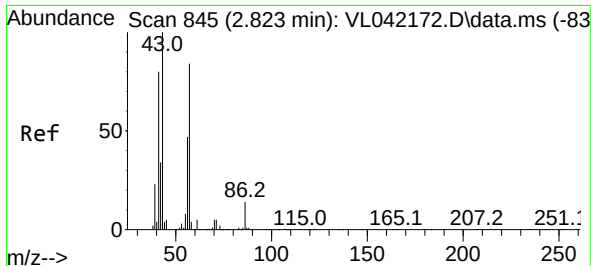
Tgt Ion:	43	Resp:	7754
Ion	Ratio	Lower	Upper
43	100		
86	3.1	5.5	8.3#
42	64.0	8.6	13.0#
44	11.9	6.2	9.4#



#25
 Ethyl Acetate
 Concen: 0.314 ppbv
 RT: 2.826 min Scan# 846
 Delta R.T. -0.007 min
 Lab File: VL042294.D
 Acq: 09 Apr 2025 15:50

Tgt Ion:	43	Resp:	18155
Ion	Ratio	Lower	Upper
43	100		
45	5.6	8.2	12.2#
61	2.7	7.3	10.9#
70	5.8	7.2	10.8#

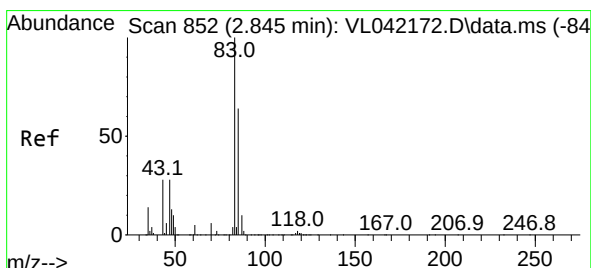
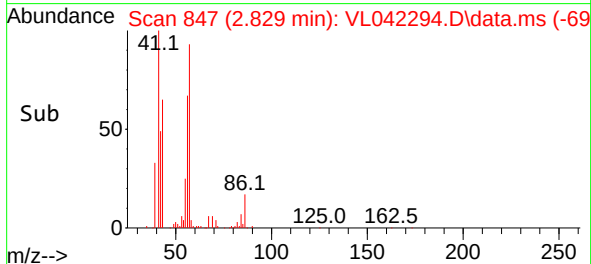
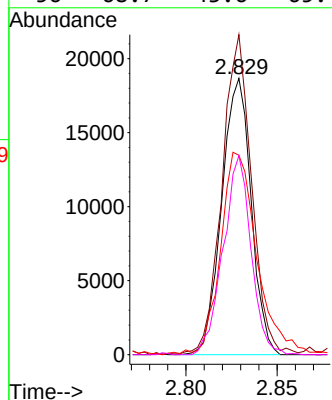
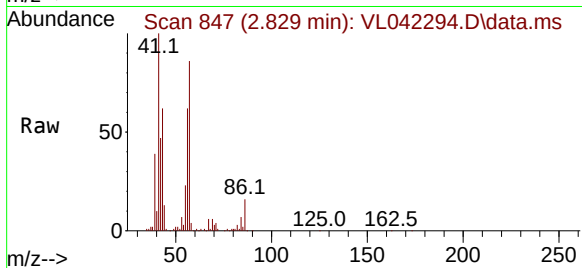




#26
Hexane
Concen: 0.937 ppbv
RT: 2.829 min Scan# 845
Delta R.T. 0.006 min
Lab File: VL042294.D
Acq: 09 Apr 2025 15:50

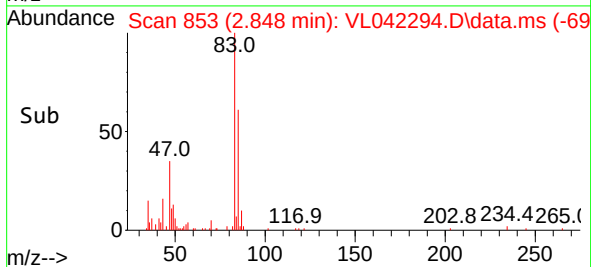
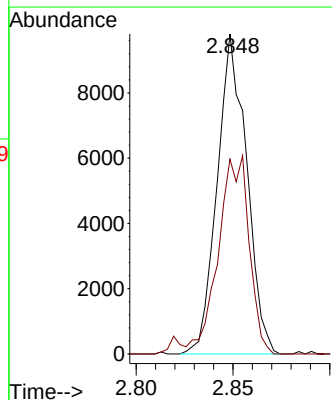
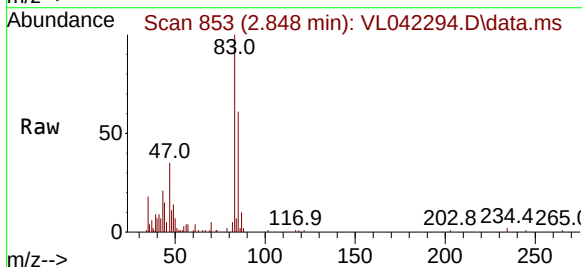
Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-2-3242025

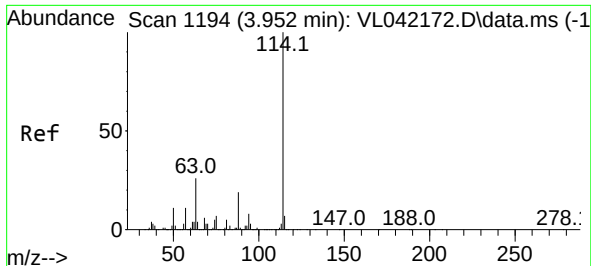
Tgt Ion: 57 Resp: 20910
Ion Ratio Lower Upper
57 100
41 120.6 76.6 114.8#
43 88.4 207.8 311.8#
56 68.7 43.6 65.4#



#29
Chloroform
Concen: 0.318 ppbv
RT: 2.848 min Scan# 853
Delta R.T. 0.003 min
Lab File: VL042294.D
Acq: 09 Apr 2025 15:50

Tgt Ion: 83 Resp: 10374
Ion Ratio Lower Upper
83 100
85 60.8 51.4 77.2

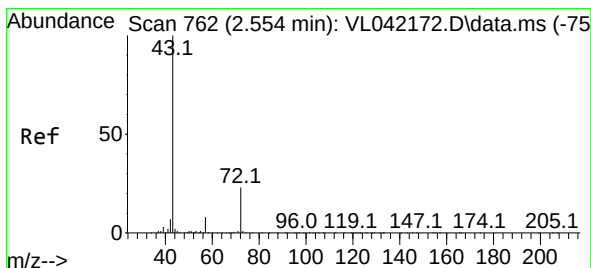
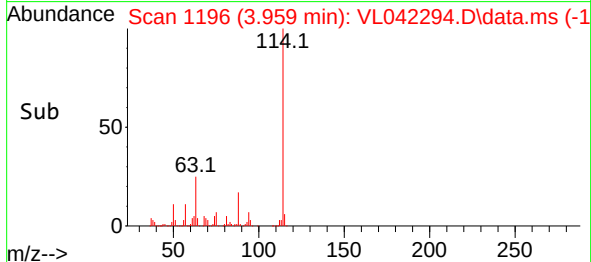
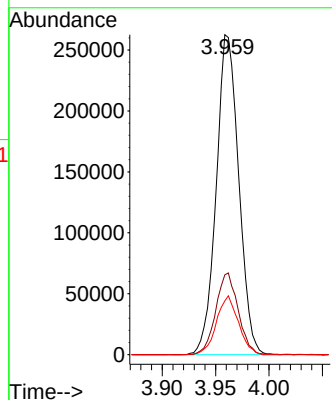
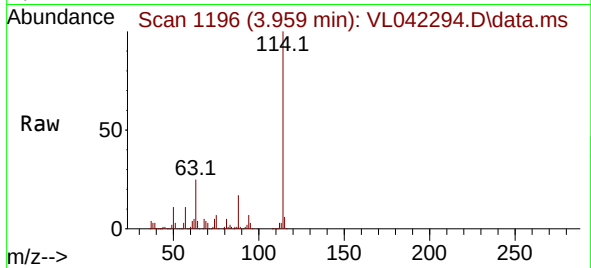




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. 0.006 min
Lab File: VL042294.D
Acq: 09 Apr 2025 15:50

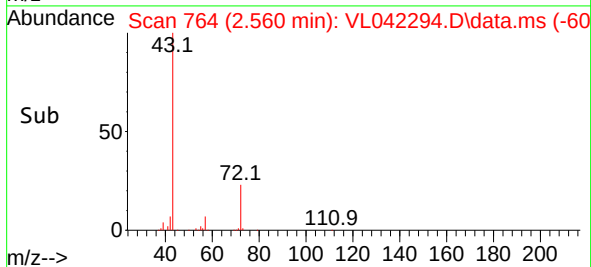
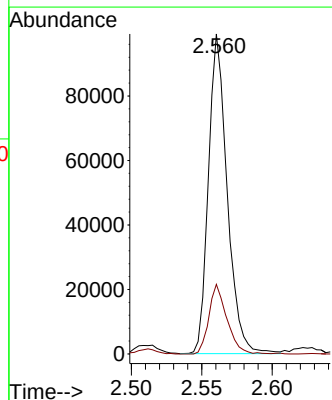
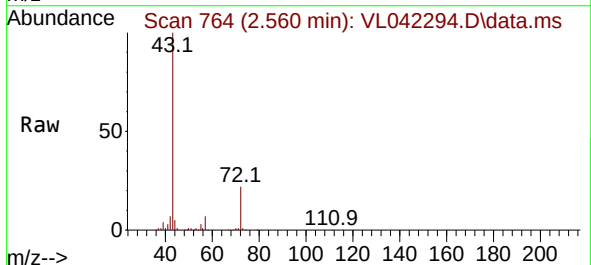
Instrument :
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ClientSampleId :
IA-DUP-2-3242025

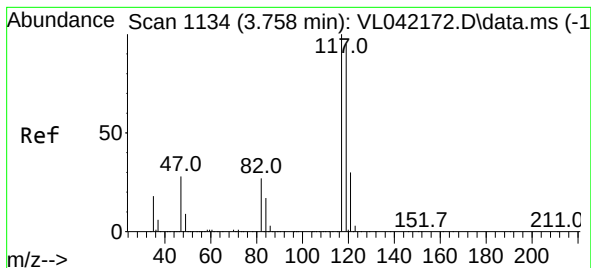
Tgt Ion:114 Resp: 384747
Ion Ratio Lower Upper
114 100
63 25.5 20.7 31.1
88 18.0 15.0 22.4



#34
2-Butanone
Concen: 3.296 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.006 min
Lab File: VL042294.D
Acq: 09 Apr 2025 15:50

Tgt Ion: 43 Resp: 91945
Ion Ratio Lower Upper
43 100
72 21.0 18.2 27.2





#35

Carbon Tetrachloride

Concen: 0.082 ppbv

RT: 3.764 min Scan# 1136

Delta R.T. 0.006 min

Lab File: VL042294.D

Acq: 09 Apr 2025 15:50

Instrument :

MSVOA_1

ClientSampleId :

IA-DUP-2-3242025

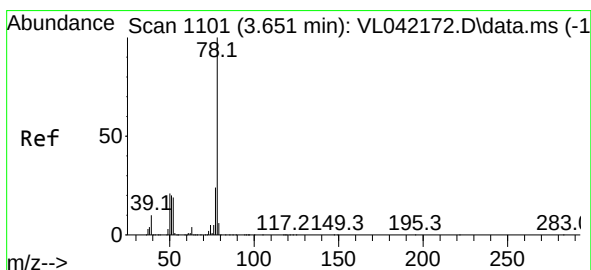
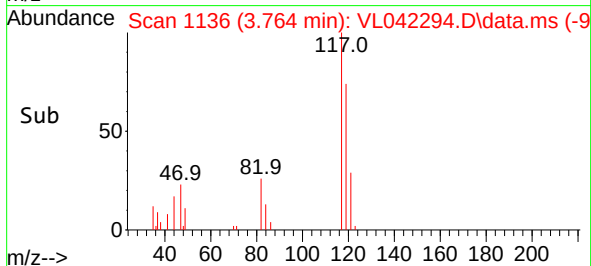
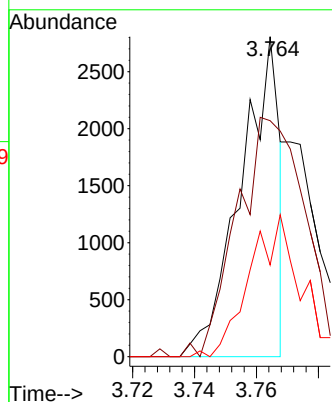
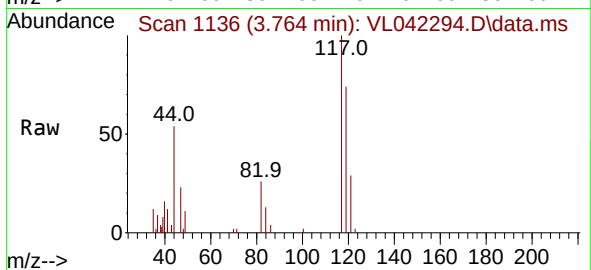
Tgt Ion:117 Resp: 2461

Ion Ratio Lower Upper

117 100

119 73.7 76.2 114.2#

121 28.6 24.2 36.4



#36

Benzene

Concen: 0.097 ppbv

RT: 3.661 min Scan# 1104

Delta R.T. 0.009 min

Lab File: VL042294.D

Acq: 09 Apr 2025 15:50

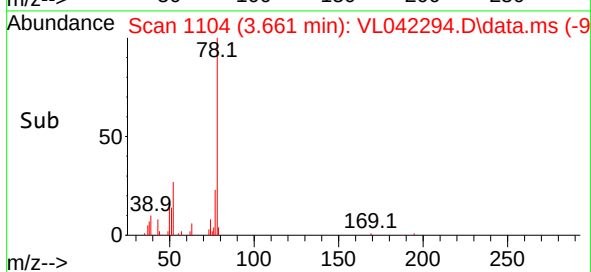
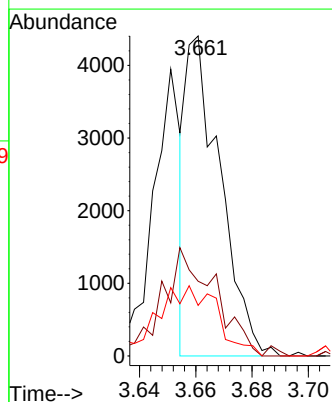
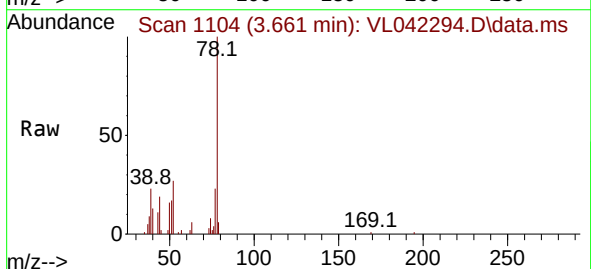
Tgt Ion: 78 Resp: 3707

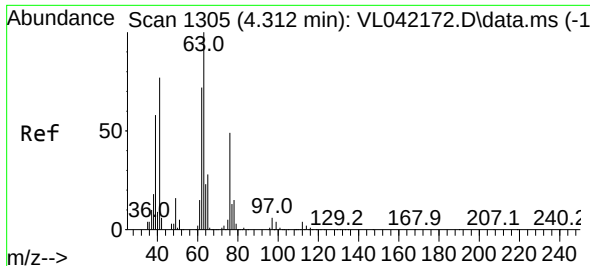
Ion Ratio Lower Upper

78 100

77 21.9 19.1 28.7

50 15.8 16.6 24.8#





#39

1,2-Dichloropropane

Concen: 7.040 ppbv

RT: 3.962 min Scan# 1197

Delta R.T. -0.350 min

Lab File: VL042294.D

Acq: 09 Apr 2025 15:50

Instrument :

MSVOA_L

ClientSampleId :

IA-DUP-2-3242025

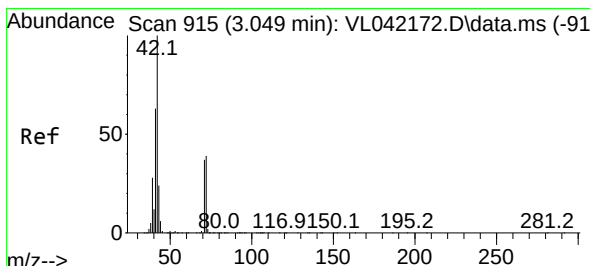
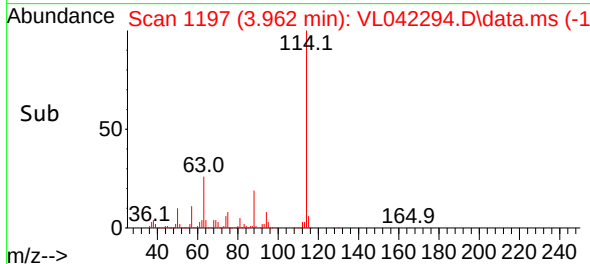
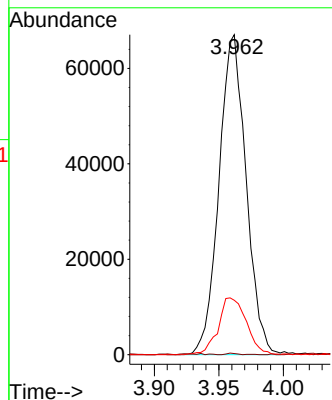
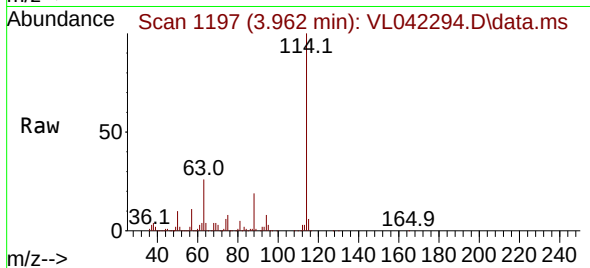
Tgt Ion: 63 Resp: 97793

Ion Ratio Lower Upper

63 100

41 0.4 61.7 92.5#

62 17.0 57.6 86.4#



#41

Tetrahydrofuran

Concen: 0.178 ppbv

RT: 3.069 min Scan# 921

Delta R.T. 0.019 min

Lab File: VL042294.D

Acq: 09 Apr 2025 15:50

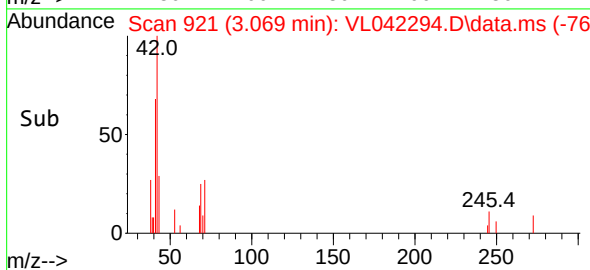
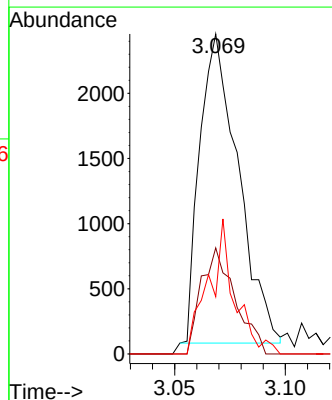
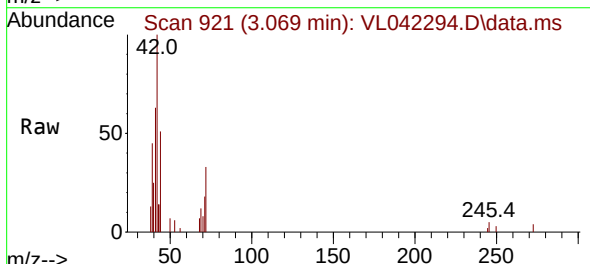
Tgt Ion: 42 Resp: 2861

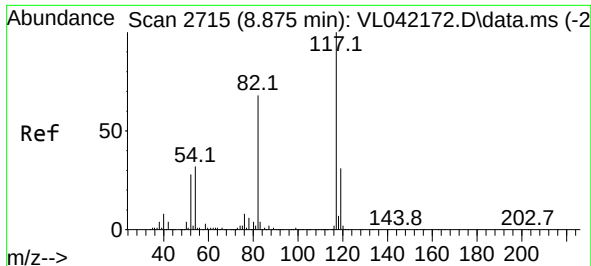
Ion Ratio Lower Upper

42 100

72 30.3 31.4 47.0#

71 29.6 30.2 45.4#

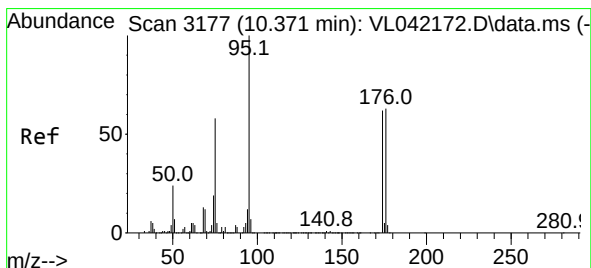
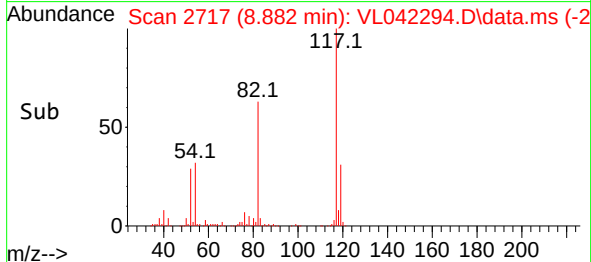
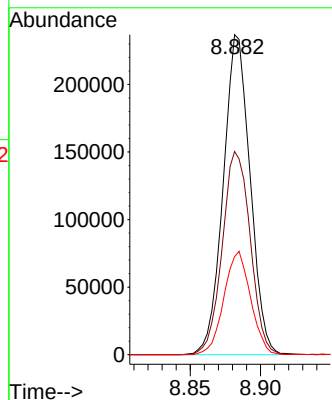
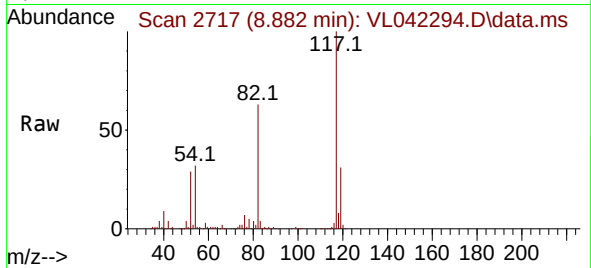




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL042294.D
Acq: 09 Apr 2025 15:50

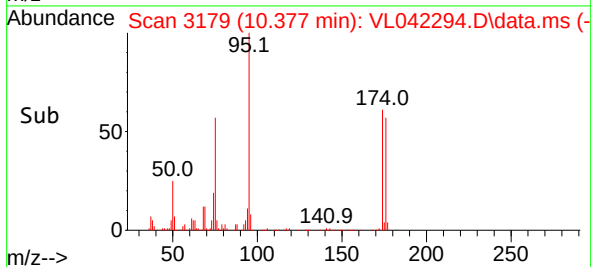
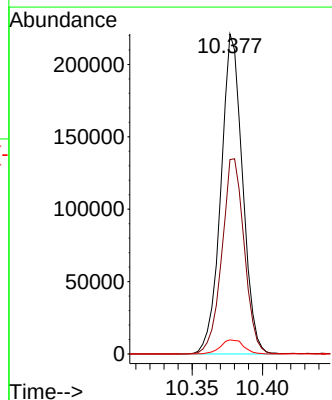
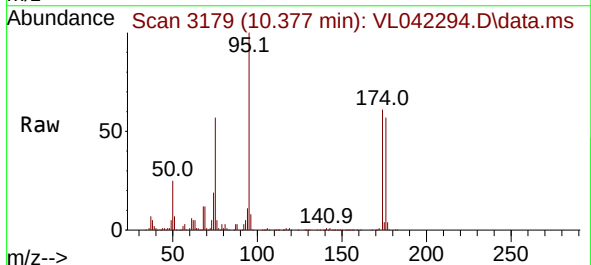
Instrument :
MSVOA_1
ClientSampleId :
IA-DUP-2-3242025

Tgt Ion:	117	Resp:	314874
Ion	Ratio	Lower	Upper
117	100		
82	66.2	55.8	83.6
119	32.2	25.5	38.3



#68
1-Bromo-4-Fluorobenzene
Concen: 9.133 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.006 min
Lab File: VL042294.D
Acq: 09 Apr 2025 15:50

Tgt Ion:	95	Resp:	236151
Ion	Ratio	Lower	Upper
95	100		
174	63.3	50.6	76.0
175	4.7	3.8	5.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
 Data File : VL042295.D
 Acq On : 09 Apr 2025 16:23
 Operator : SY/MD
 Sample : Q1665-09
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B9-2-3242025

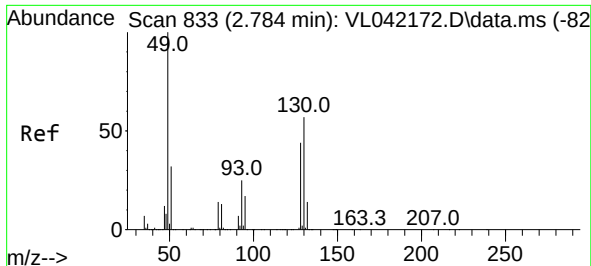
Quant Time: Apr 10 01:46:13 2025
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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 02:00:52 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.787	49	157163	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	385586	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	326865	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	260627	9.709	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.100%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	9767	0.421	ppbv	99
3) Chlorodifluoromethane	1.476	51	25214	1.064	ppbv #	89
4) Chloromethane	1.531	50	5476	0.577	ppbv	100
7) Chloroethane	1.703	64	148	0.039	ppbv #	70
9) Propene	1.560	41	18149	1.670	ppbv	84
11) Trichlorofluoromethane	1.877	101	5036	0.223	ppbv	91
12) 1,1,2-Trichlorotrifluo...	2.140	101	1123	0.061	ppbv	94
13) Ethanol	1.722	45	26305	25.610	ppbv	83
15) Acetone	1.835	43	140811	6.406	ppbv	91
16) 1,3-Butadiene	1.599	39	2235	0.208	ppbv #	52
17) tert-Butyl alcohol	1.884	59	9877	0.361	ppbv	99
19) Isopropyl Alcohol	1.887	45	262397	21.158	ppbv #	33
20) Methylene Chloride	2.062	84	9600	1.173	ppbv	93
21) Allyl Chloride	2.039	41	725	0.047	ppbv #	24
23) Vinyl Acetate	2.470	43	9581	1.007	ppbv #	49
25) Ethyl Acetate	2.826	43	39156	0.686	ppbv #	83
26) Hexane	2.826	57	42387	1.924	ppbv #	35
29) Chloroform	2.845	83	1821	0.056	ppbv #	82
34) 2-Butanone	2.560	43	89072	3.186	ppbv	97
35) Carbon Tetrachloride	3.758	117	1368	0.045	ppbv #	92
36) Benzene	3.654	78	11286	0.295	ppbv	92
39) 1,2-Dichloropropane	3.959	63	97589	7.010	ppbv #	22
41) Tetrahydrofuran	3.065	42	2040	0.127	ppbv #	88
44) 2,2,4-Trimethylpentane	4.645	57	2338	0.036	ppbv #	1
53) Toluene	6.933	91	17473	0.386	ppbv	97
57) Chlorobenzene	8.924	112	6308	0.203	ppbv #	76
58) Ethyl Benzene	9.354	91	3072	0.053	ppbv #	82
59) m/p-Xylene	9.552	91	1588	0.034	ppbv #	31
60) o-Xylene	9.963	91	4768	0.103	ppbv	97
62) Isopropylbenzene	10.807	105	46203	0.665	ppbv #	50
71) 2-Chlorotoluene	10.856	91	13101	0.243	ppbv #	48
74) 1,2,4-Trimethylbenzene	11.536	105	3557	0.061	ppbv #	67

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

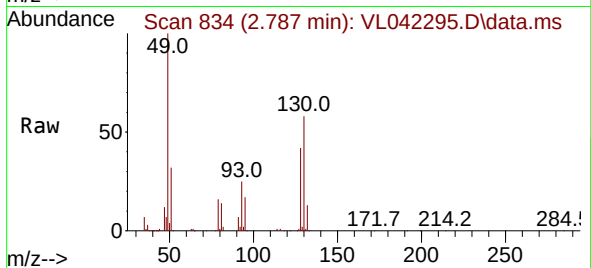
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- 17
- 18

[illegible]

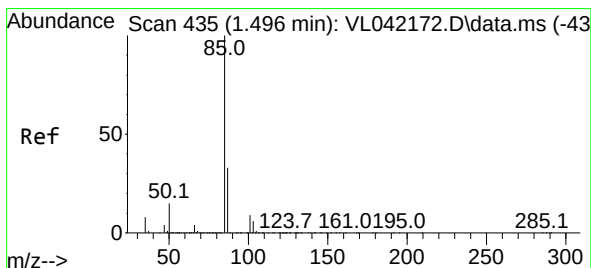
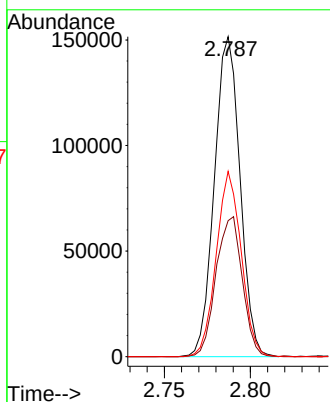
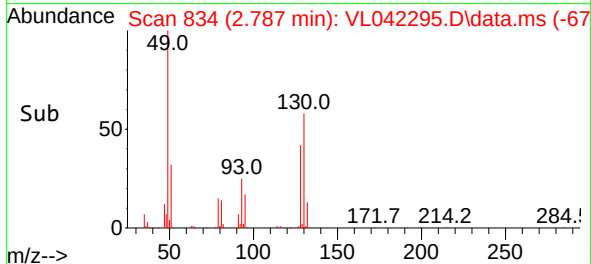


#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042295.D
Acq: 09 Apr 2025 16:23

Instrument :
MSVOA_L
ClientSampleId :
IA-B9-2-3242025

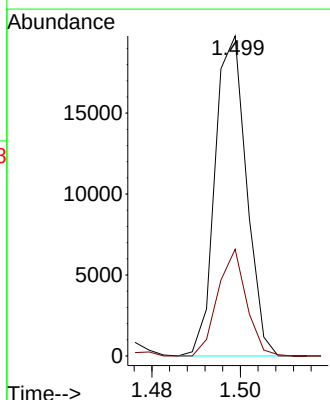
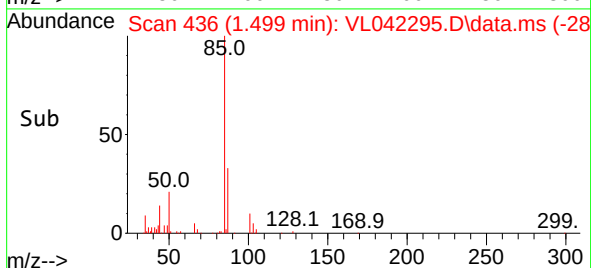
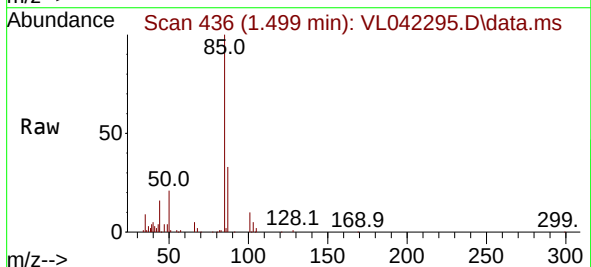


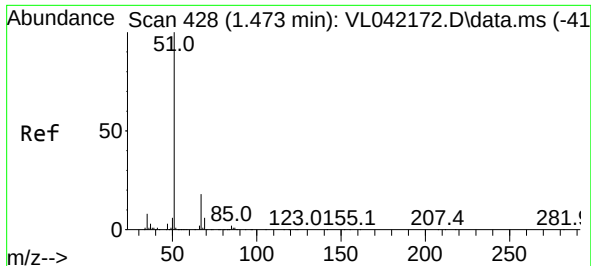
Tgt Ion: 49 Resp: 157163
Ion Ratio Lower Upper
49 100
128 44.9 22.9 68.5
130 56.4 28.8 86.4



#2
Dichlorodifluoromethane
Concen: 0.421 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL042295.D
Acq: 09 Apr 2025 16:23

Tgt Ion: 85 Resp: 9767
Ion Ratio Lower Upper
85 100
87 33.4 26.1 39.1

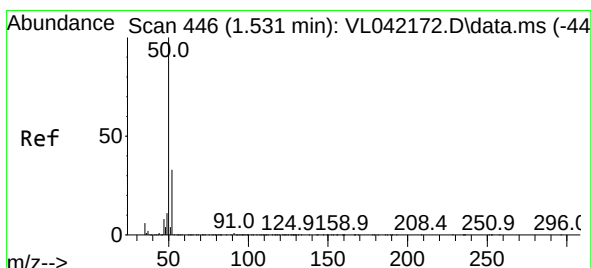
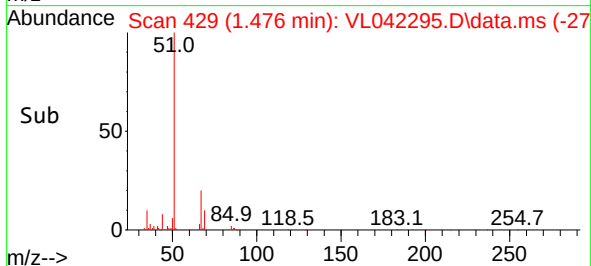
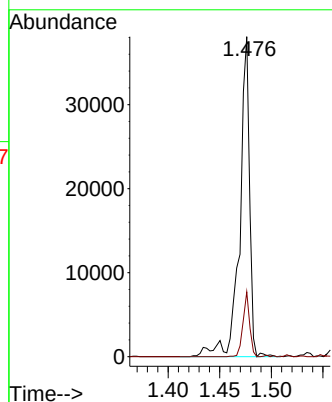
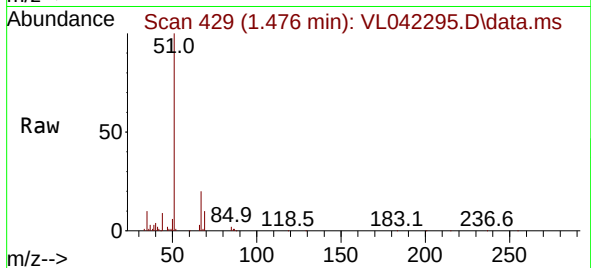




#3
Chlorodifluoromethane
Concen: 1.064 ppbv
RT: 1.476 min Scan# 428
Delta R.T. 0.003 min
Lab File: VL042295.D
Acq: 09 Apr 2025 16:23

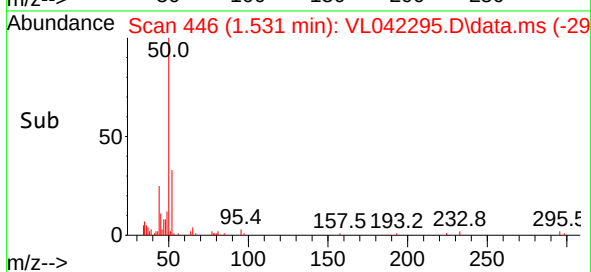
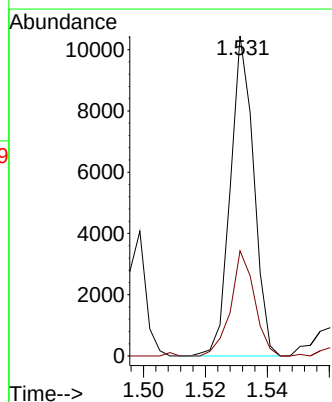
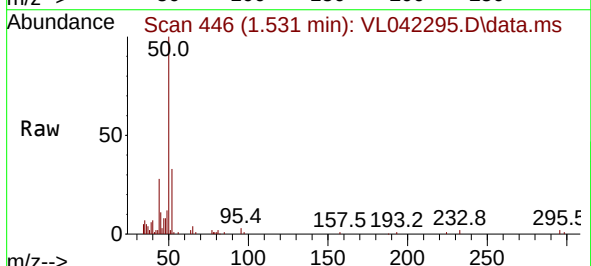
Instrument :
MSVOA_1
ClientSampleId :
IA-B9-2-3242025

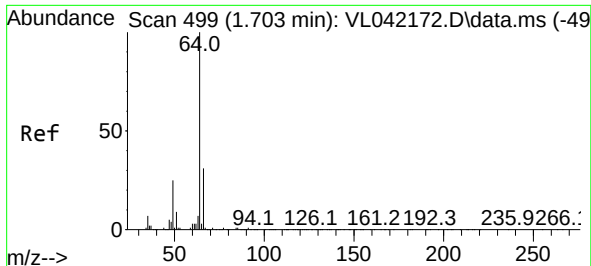
Tgt Ion: 51 Resp: 25214
Ion Ratio Lower Upper
51 100
67 13.7 15.0 22.6#



#4
Chloromethane
Concen: 0.577 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042295.D
Acq: 09 Apr 2025 16:23

Tgt Ion: 50 Resp: 5476
Ion Ratio Lower Upper
50 100
52 32.9 26.1 39.1

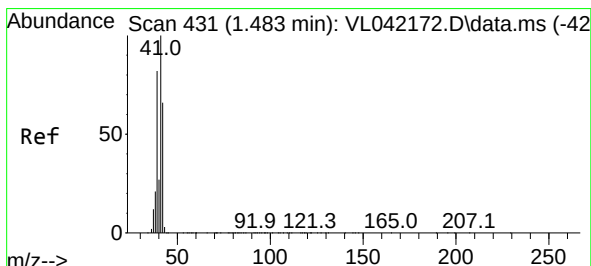
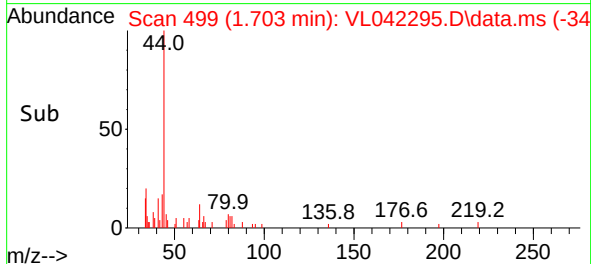
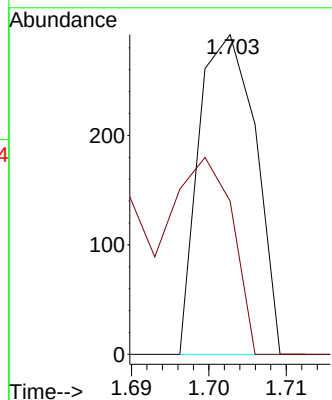
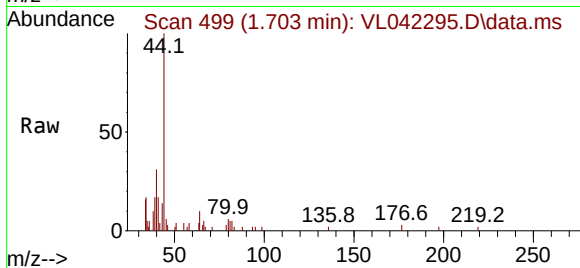




#7
Chloroethane
Concen: 0.039 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042295.D
Acq: 09 Apr 2025 16:23

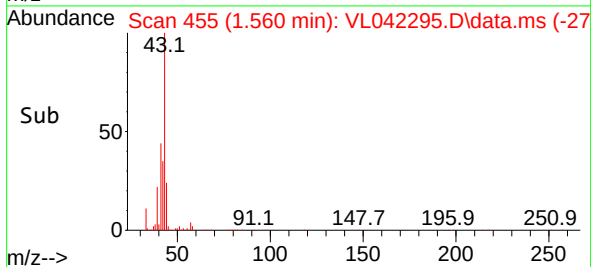
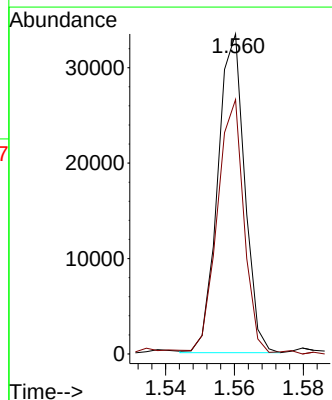
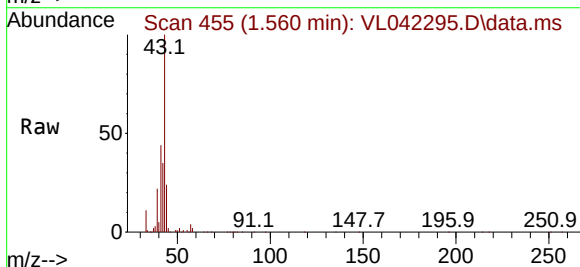
Instrument :
MSVOA_L
ClientSampleId :
IA-B9-2-3242025

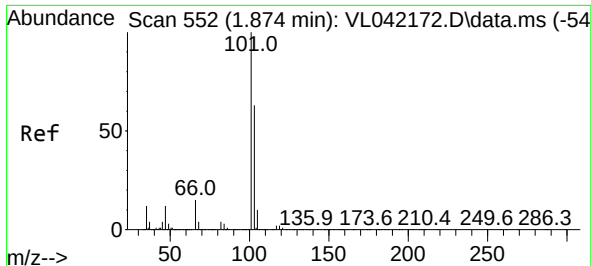
Tgt Ion: 64 Resp: 148
Ion Ratio Lower Upper
64 100
66 47.9 25.2 37.8#



#9
Propene
Concen: 1.670 ppbv
RT: 1.560 min Scan# 455
Delta R.T. 0.077 min
Lab File: VL042295.D
Acq: 09 Apr 2025 16:23

Tgt Ion: 41 Resp: 18149
Ion Ratio Lower Upper
41 100
42 82.3 55.4 83.2

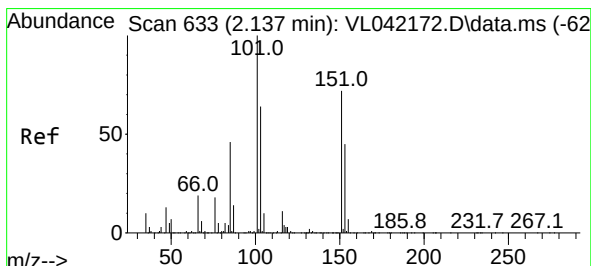
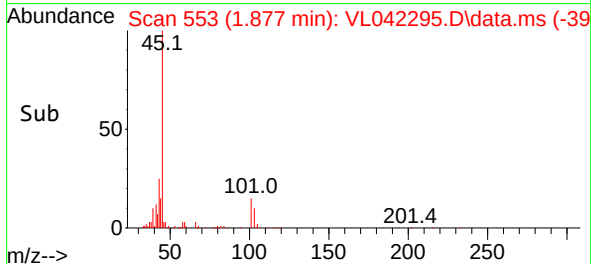
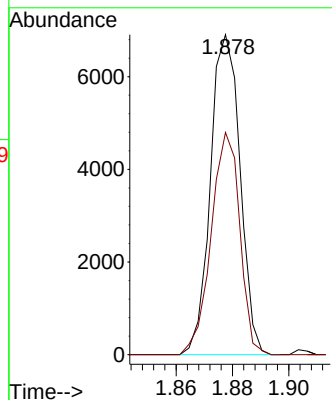
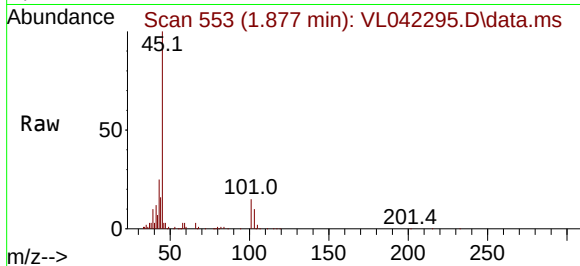




#11
 Trichlorofluoromethane
 Concen: 0.223 ppbv
 RT: 1.877 min Scan# 51
 Delta R.T. 0.003 min
 Lab File: VL042295.D
 Acq: 09 Apr 2025 16:23

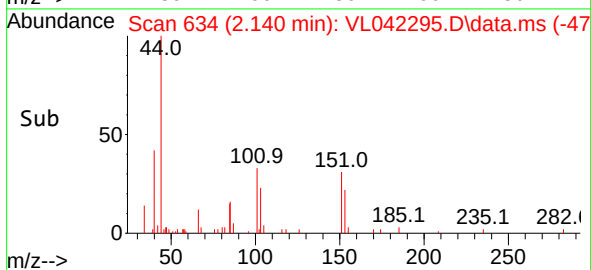
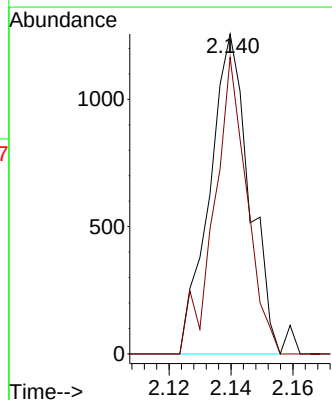
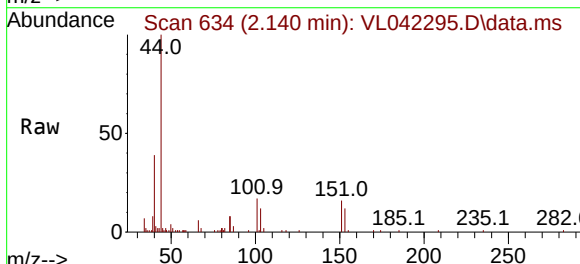
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B9-2-3242025

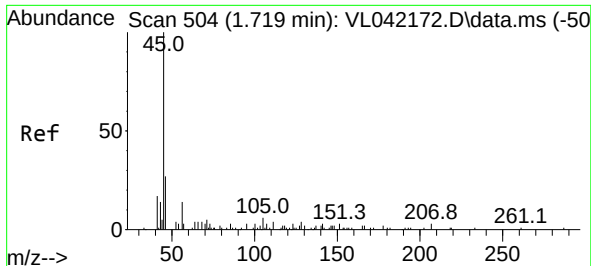
Tgt Ion:101 Resp: 5036
 Ion Ratio Lower Upper
 101 100
 103 69.5 50.2 75.2



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.061 ppbv
 RT: 2.140 min Scan# 634
 Delta R.T. 0.003 min
 Lab File: VL042295.D
 Acq: 09 Apr 2025 16:23

Tgt Ion:101 Resp: 1123
 Ion Ratio Lower Upper
 101 100
 151 76.3 57.1 85.7





#13

Ethanol

Concen: 25.610 ppbv

RT: 1.722 min Scan# 50

Delta R.T. 0.003 min

Lab File: VL042295.D

Acq: 09 Apr 2025 16:23

Instrument :

MSVOA_L

ClientSampleId :

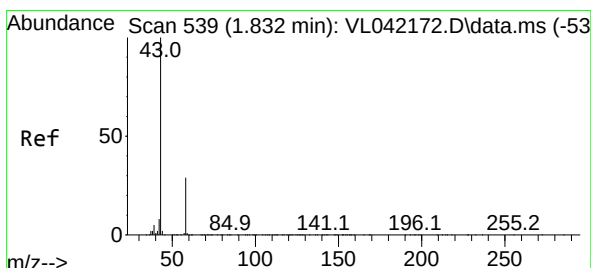
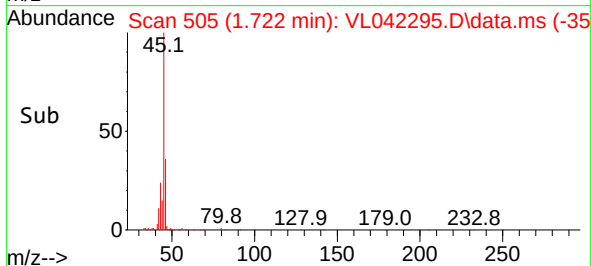
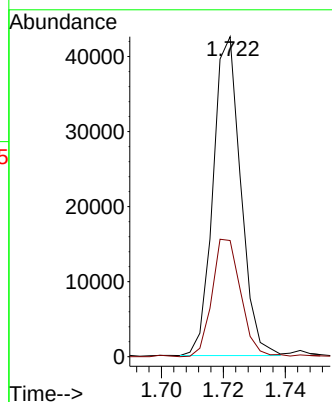
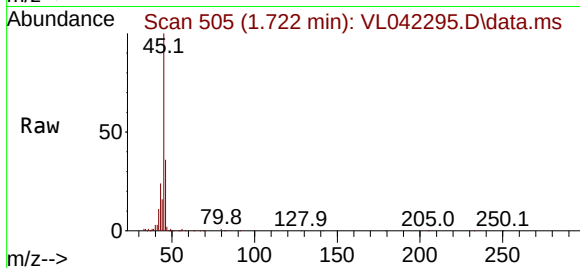
IA-B9-2-3242025

Tgt Ion: 45 Resp: 26305

Ion Ratio Lower Upper

45 100

46 39.0 20.2 80.8



#15

Acetone

Concen: 6.406 ppbv

RT: 1.835 min Scan# 540

Delta R.T. 0.003 min

Lab File: VL042295.D

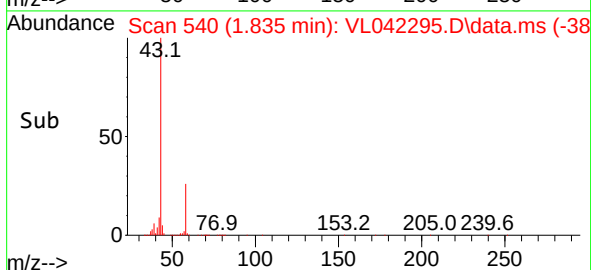
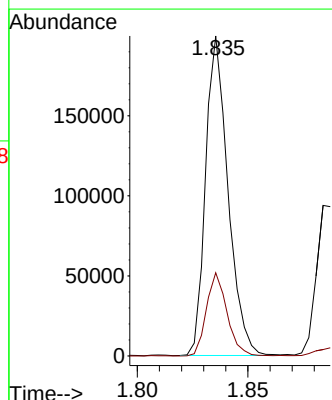
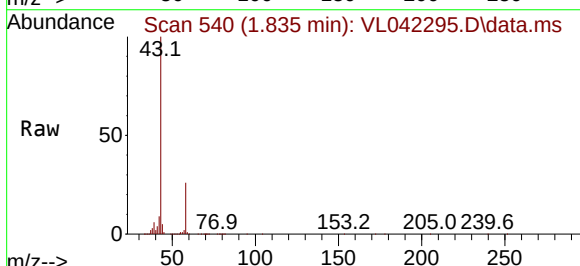
Acq: 09 Apr 2025 16:23

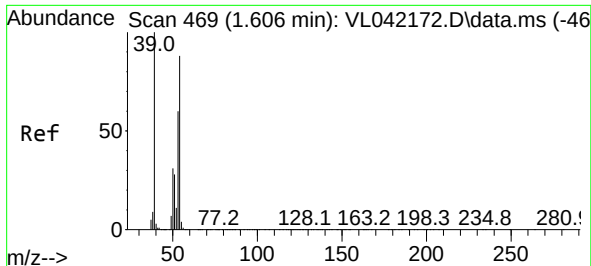
Tgt Ion: 43 Resp: 140811

Ion Ratio Lower Upper

43 100

58 24.0 23.2 34.8





#16

1,3-Butadiene

Concen: 0.208 ppbv

RT: 1.599 min Scan# 4

Delta R.T. -0.007 min

Lab File: VL042295.D

Acq: 09 Apr 2025 16:23

Instrument :

MSVOA_L

ClientSampleId :

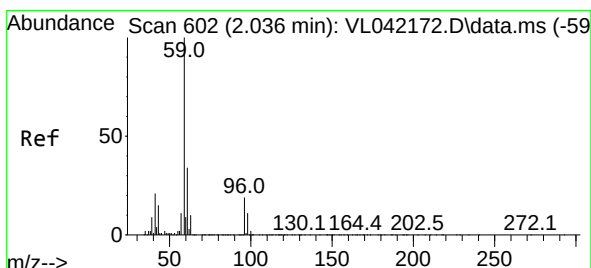
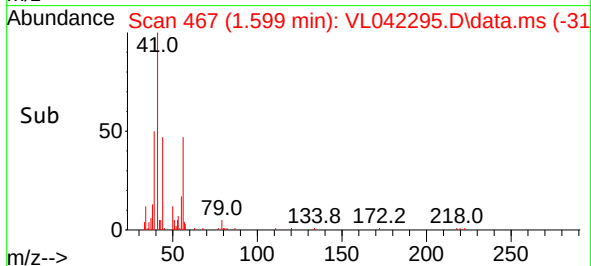
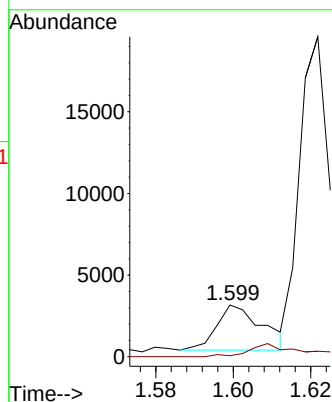
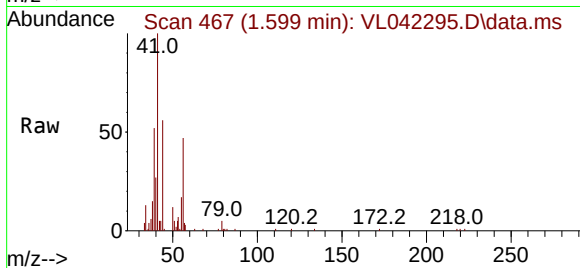
IA-B9-2-3242025

Tgt Ion: 39 Resp: 2235

Ion Ratio Lower Upper

39 100

54 35.0 60.7 91.1#



#17

tert-Butyl alcohol

Concen: 0.361 ppbv

RT: 1.884 min Scan# 555

Delta R.T. -0.152 min

Lab File: VL042295.D

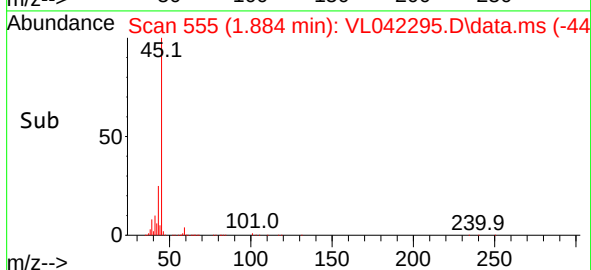
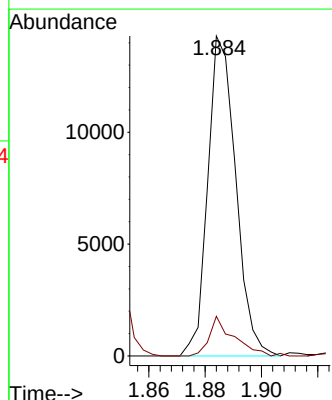
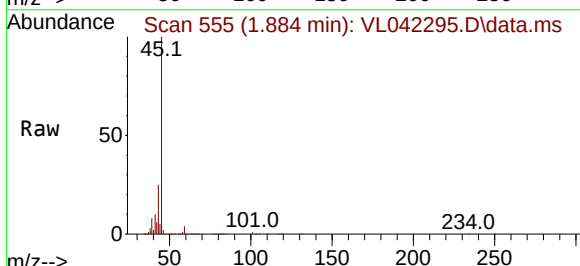
Acq: 09 Apr 2025 16:23

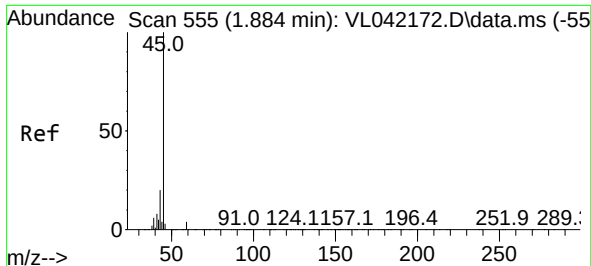
Tgt Ion: 59 Resp: 9877

Ion Ratio Lower Upper

59 100

57 10.9 8.9 13.3

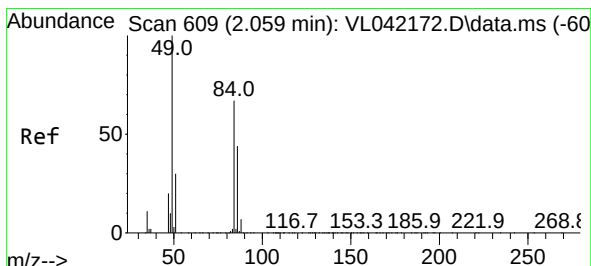
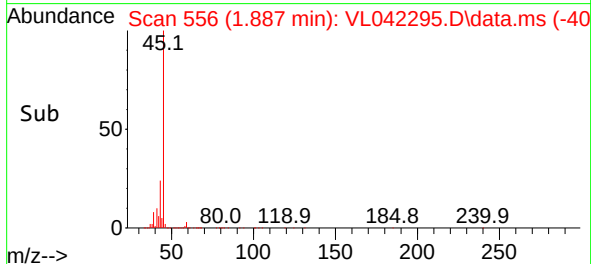
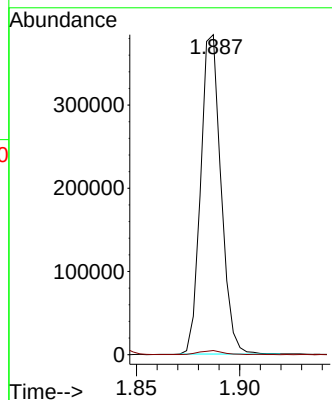
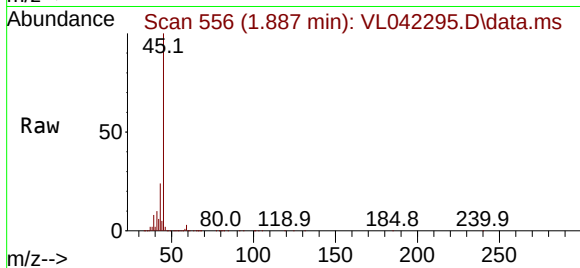




#19
Isopropyl Alcohol
Concen: 21.158 ppbv
RT: 1.887 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042295.D
Acq: 09 Apr 2025 16:23

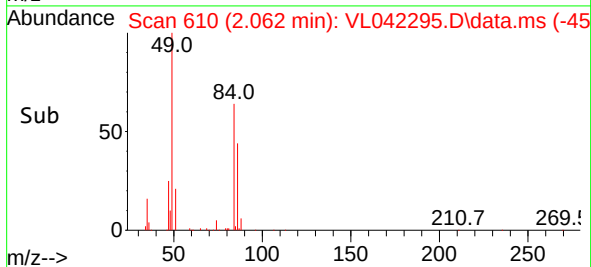
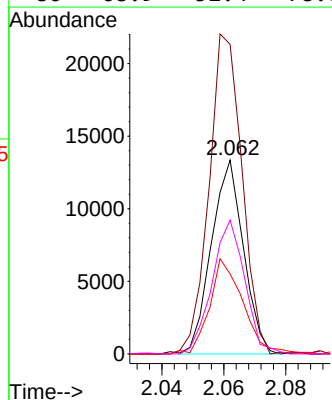
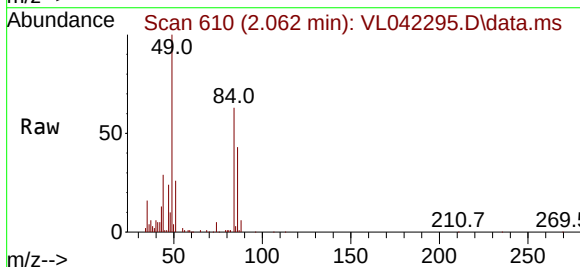
Instrument :
MSVOA_L
ClientSampleId :
IA-B9-2-3242025

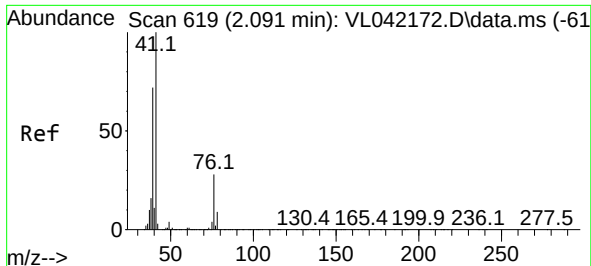
Tgt Ion: 45 Resp: 262397
Ion Ratio Lower Upper
45 100
58 1.6 36.9 55.3#



#20
Methylene Chloride
Concen: 1.173 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042295.D
Acq: 09 Apr 2025 16:23

Tgt Ion: 84 Resp: 9600
Ion Ratio Lower Upper
84 100
49 158.7 120.2 180.4
51 39.5 37.4 56.0
86 68.9 52.4 78.6

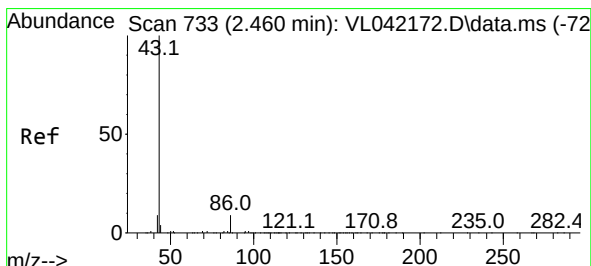
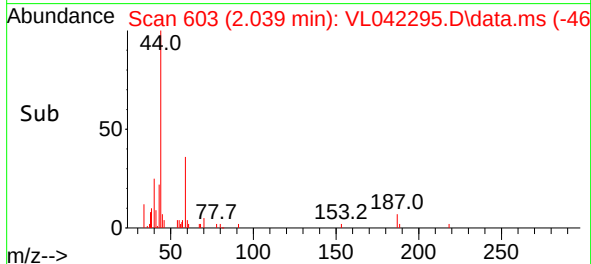
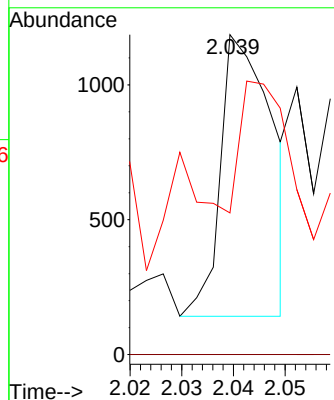
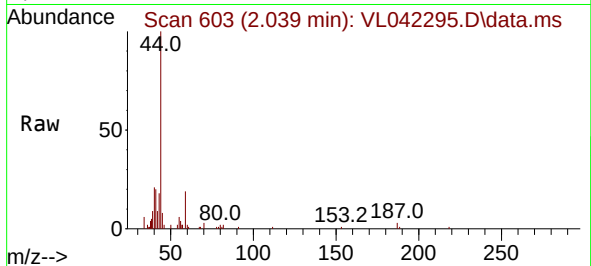




#21
 Allyl Chloride
 Concen: 0.047 ppbv
 RT: 2.039 min Scan# 603
 Delta R.T. -0.052 min
 Lab File: VL042295.D
 Acq: 09 Apr 2025 16:23

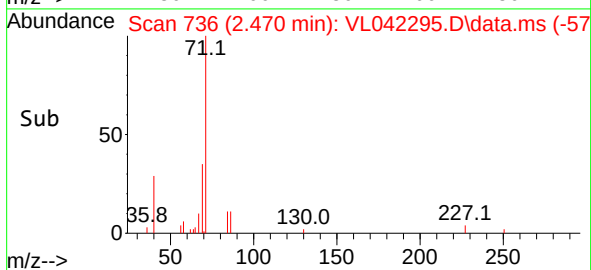
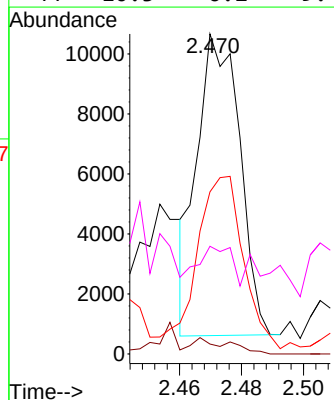
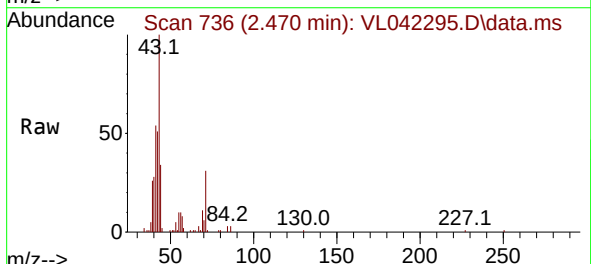
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B9-2-3242025

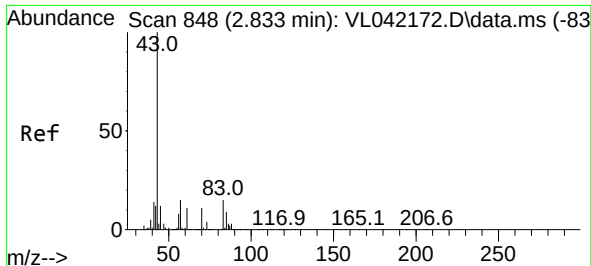
Tgt Ion:	41	Resp:	725
Ion Ratio	Lower	Upper	
41	100		
76	6.1	24.1	36.1#
39	0.0	61.1	91.7#



#23
 Vinyl Acetate
 Concen: 1.007 ppbv
 RT: 2.470 min Scan# 736
 Delta R.T. 0.010 min
 Lab File: VL042295.D
 Acq: 09 Apr 2025 16:23

Tgt Ion:	43	Resp:	9581
Ion Ratio	Lower	Upper	
43	100		
86	3.3	5.5	8.3#
42	52.1	8.6	13.0#
44	10.3	6.2	9.4#





#25

Ethyl Acetate

Concen: 0.686 ppbv

RT: 2.826 min Scan# 846

Delta R.T. -0.007 min

Lab File: VL042295.D

Acq: 09 Apr 2025 16:23

Instrument :

MSVOA_L

ClientSampleId :

IA-B9-2-3242025

Tgt Ion: 43 Resp: 39156

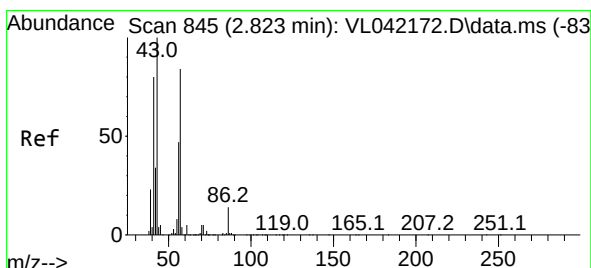
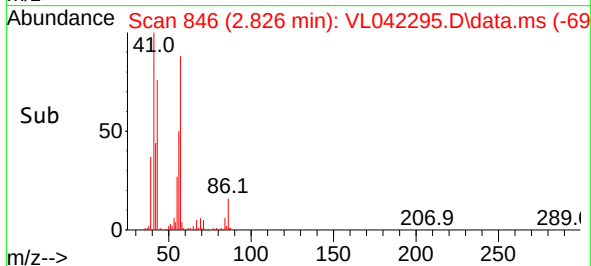
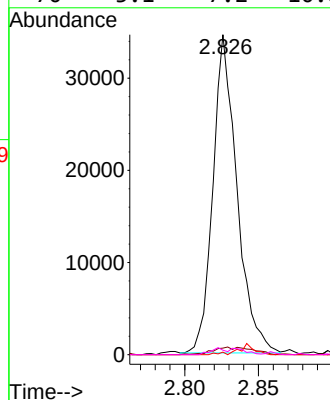
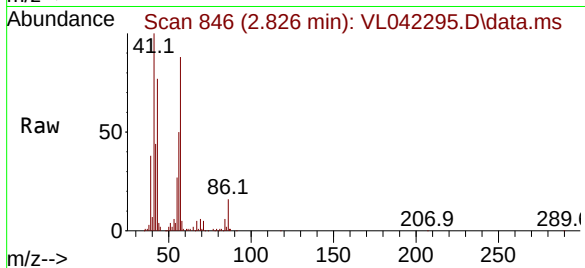
Ion Ratio Lower Upper

43 100

45 4.0 8.2 12.2#

61 2.2 7.3 10.9#

70 3.1 7.2 10.8#



#26

Hexane

Concen: 1.924 ppbv

RT: 2.826 min Scan# 846

Delta R.T. 0.003 min

Lab File: VL042295.D

Acq: 09 Apr 2025 16:23

Tgt Ion: 57 Resp: 42387

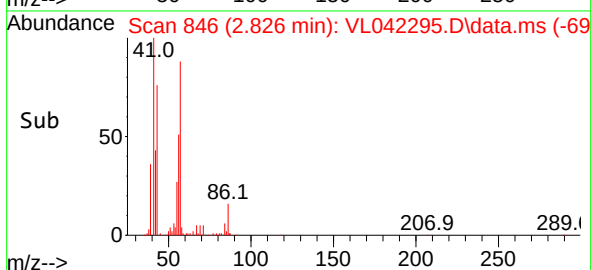
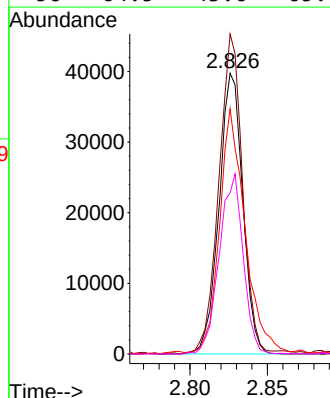
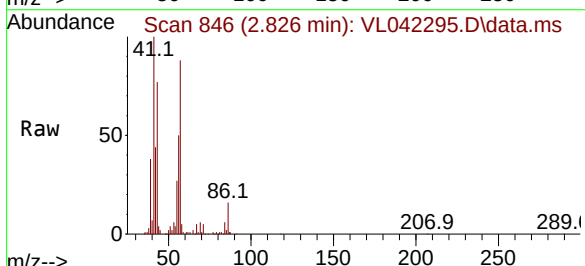
Ion Ratio Lower Upper

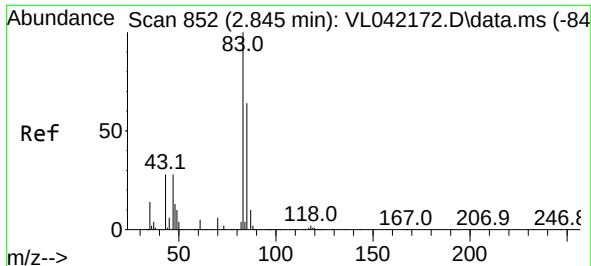
57 100

41 114.5 76.6 114.8

43 95.4 207.8 311.8#

56 64.5 43.6 65.4





#29

Chloroform

Concen: 0.056 ppbv

RT: 2.845 min Scan# 81

Delta R.T. -0.000 min

Lab File: VL042295.D

Acq: 09 Apr 2025 16:23

Instrument :

MSVOA_L

ClientSampleId :

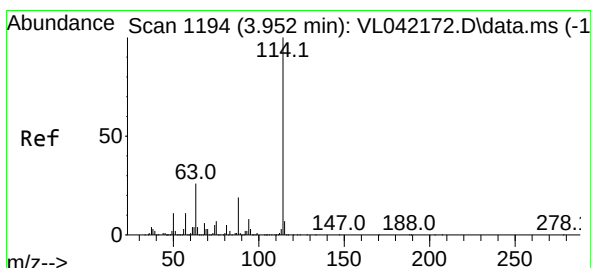
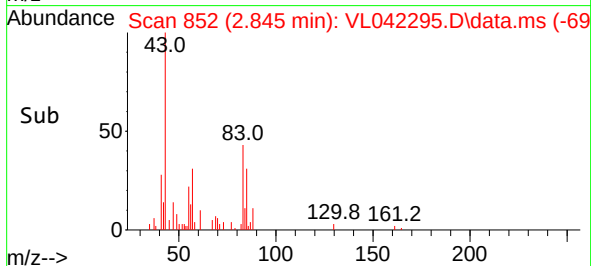
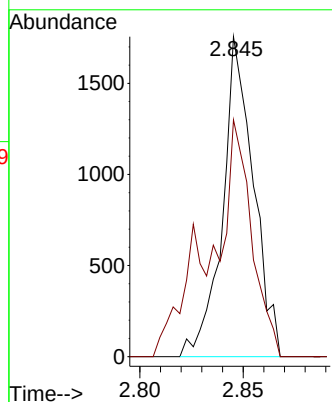
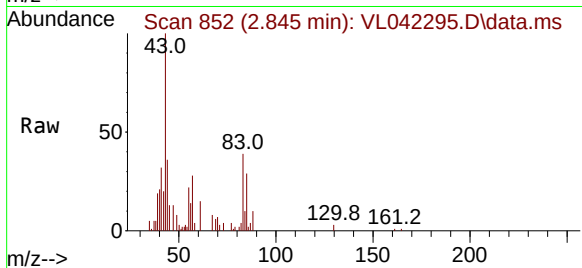
IA-B9-2-3242025

Tgt Ion: 83 Resp: 1821

Ion Ratio Lower Upper

83 100

85 78.2 51.4 77.2#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.959 min Scan# 1196

Delta R.T. 0.006 min

Lab File: VL042295.D

Acq: 09 Apr 2025 16:23

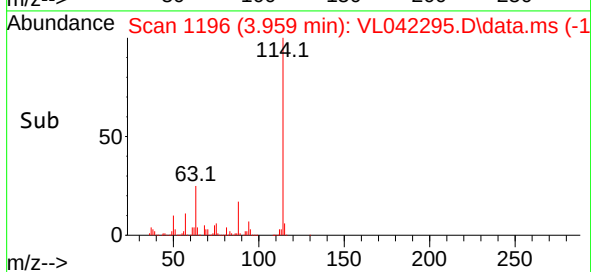
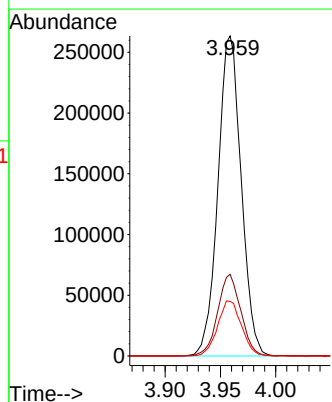
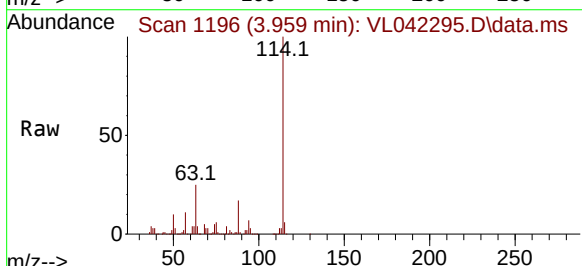
Tgt Ion: 114 Resp: 385586

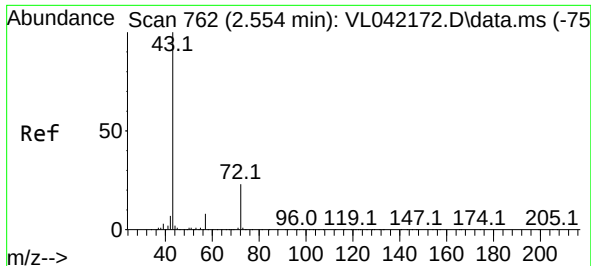
Ion Ratio Lower Upper

114 100

63 25.4 20.7 31.1

88 17.6 15.0 22.4

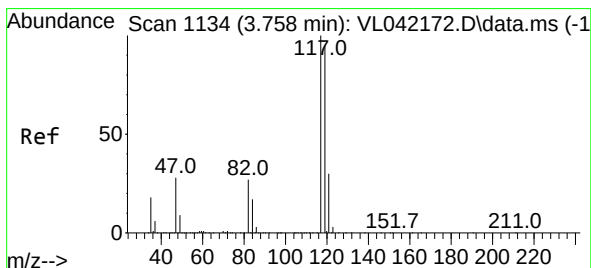
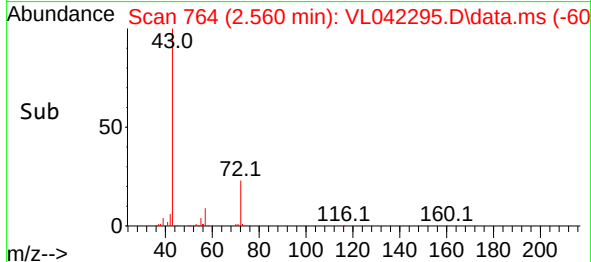
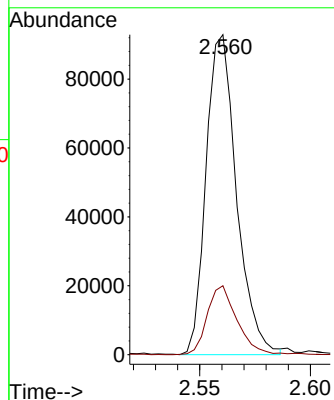
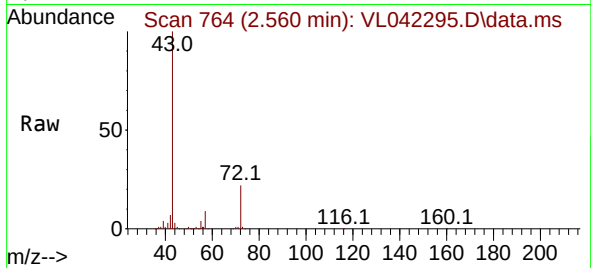




#34
2-Butanone
Concen: 3.186 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.006 min
Lab File: VL042295.D
Acq: 09 Apr 2025 16:23

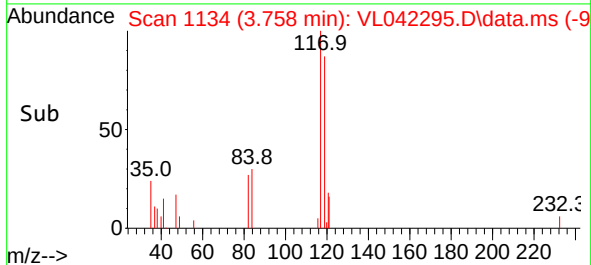
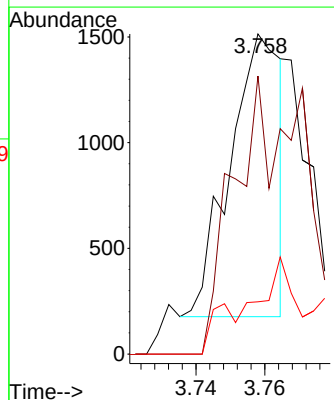
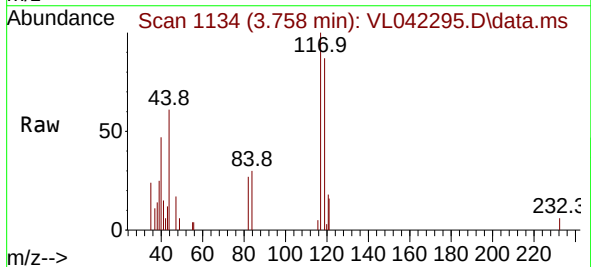
Instrument :
MSVOA_1
ClientSampleId :
IA-B9-2-3242025

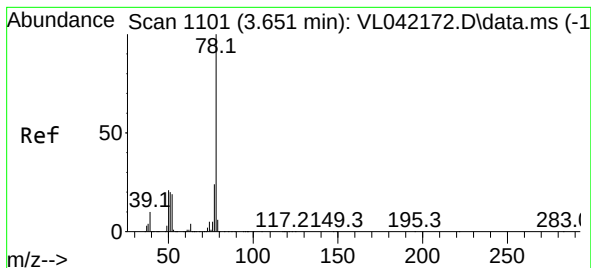
Tgt Ion: 43 Resp: 89072
Ion Ratio Lower Upper
43 100
72 21.3 18.2 27.2



#35
Carbon Tetrachloride
Concen: 0.045 ppbv
RT: 3.758 min Scan# 1134
Delta R.T. -0.000 min
Lab File: VL042295.D
Acq: 09 Apr 2025 16:23

Tgt Ion: 117 Resp: 1368
Ion Ratio Lower Upper
117 100
119 98.4 76.2 114.2
121 18.5 24.2 36.4#





#36

Benzene

Concen: 0.295 ppbv

RT: 3.654 min Scan# 1101

Delta R.T. 0.003 min

Lab File: VL042295.D

Acq: 09 Apr 2025 16:23

Instrument :

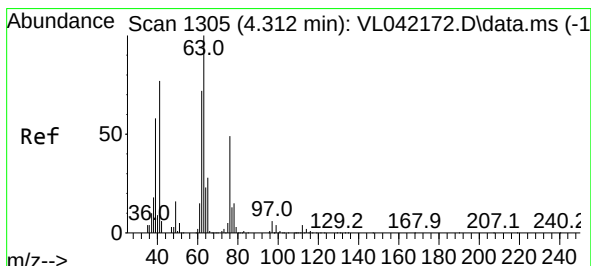
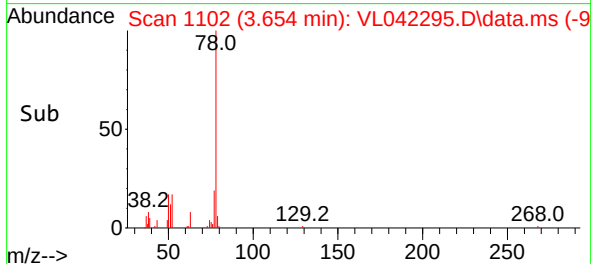
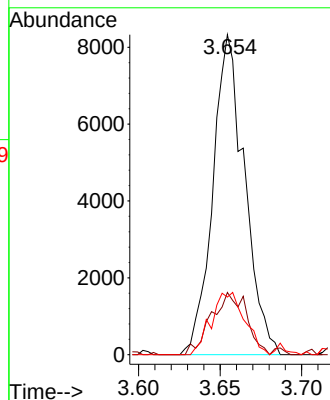
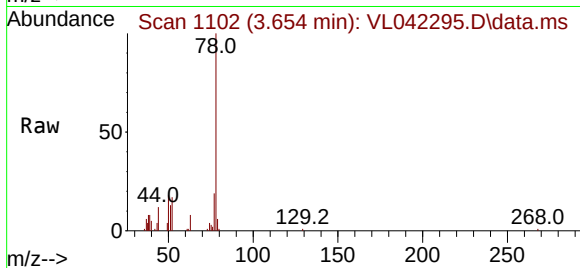
MSVOA_1

ClientSampleId :

IA-B9-2-3242025

Tgt Ion: 78 Resp: 11286

Ion	Ratio	Lower	Upper
78	100		
77	19.4	19.1	28.7
50	18.0	16.6	24.8



#39

1,2-Dichloropropane

Concen: 7.010 ppbv

RT: 3.959 min Scan# 1196

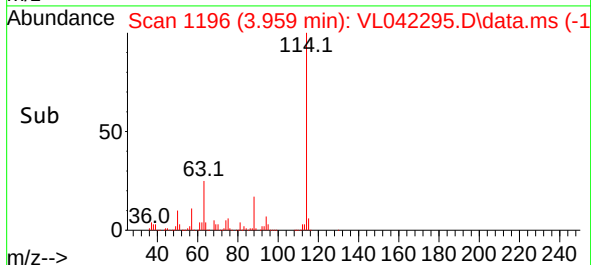
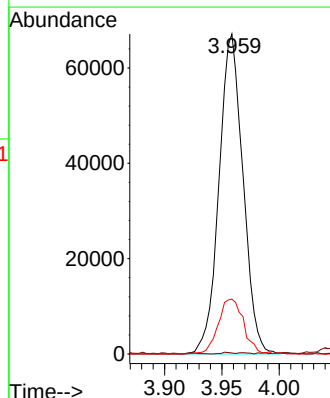
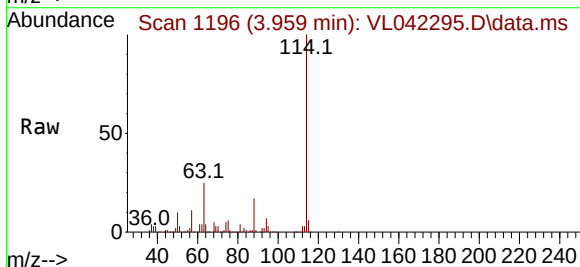
Delta R.T. -0.353 min

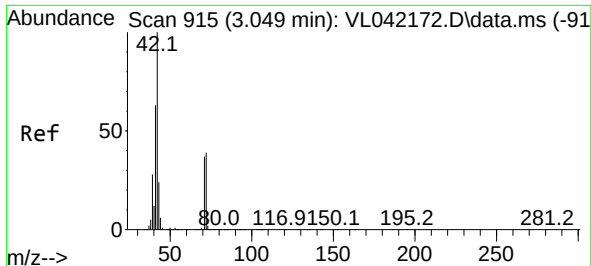
Lab File: VL042295.D

Acq: 09 Apr 2025 16:23

Tgt Ion: 63 Resp: 97589

Ion	Ratio	Lower	Upper
63	100		
41	0.3	61.7	92.5#
62	17.1	57.6	86.4#





#41

Tetrahydrofuran

Concen: 0.127 ppbv

RT: 3.065 min Scan# 91

Delta R.T. 0.016 min

Lab File: VL042295.D

Acq: 09 Apr 2025 16:23

Instrument :

MSVOA_L

ClientSampleId :

IA-B9-2-3242025

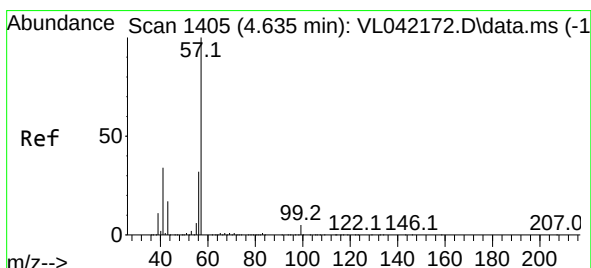
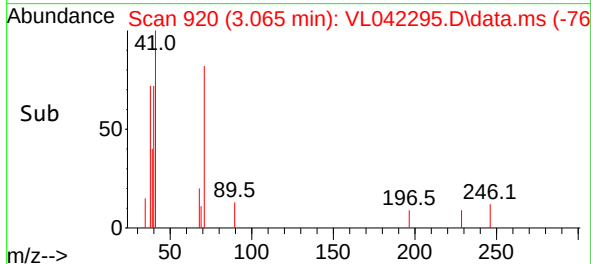
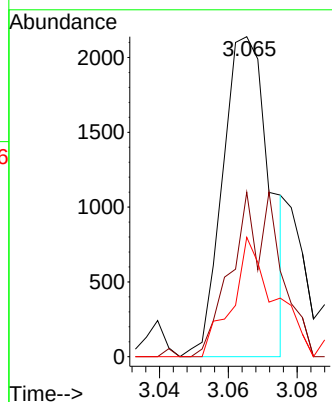
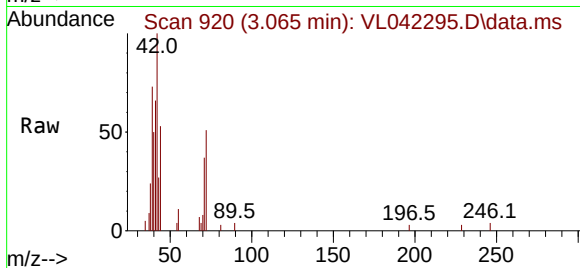
Tgt Ion: 42 Resp: 2040

Ion Ratio Lower Upper

42 100

72 51.7 31.4 47.0#

71 35.2 30.2 45.4



#44

2,2,4-Trimethylpentane

Concen: 0.036 ppbv

RT: 4.645 min Scan# 1408

Delta R.T. 0.010 min

Lab File: VL042295.D

Acq: 09 Apr 2025 16:23

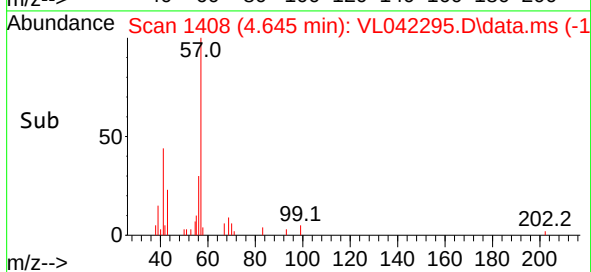
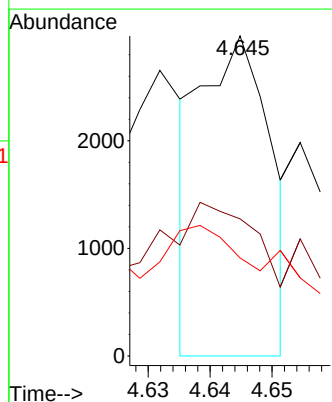
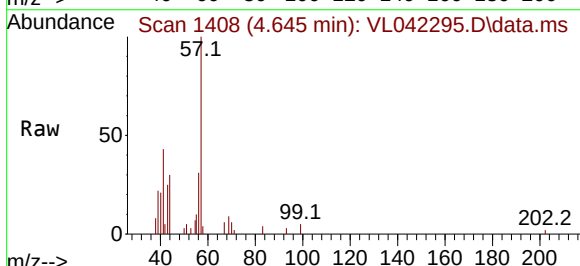
Tgt Ion: 57 Resp: 2338

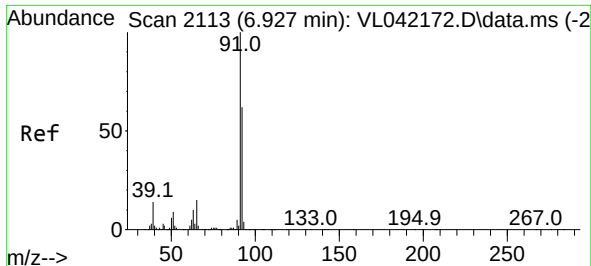
Ion Ratio Lower Upper

57 100

41 154.5 26.8 40.2#

56 123.6 25.6 38.4#

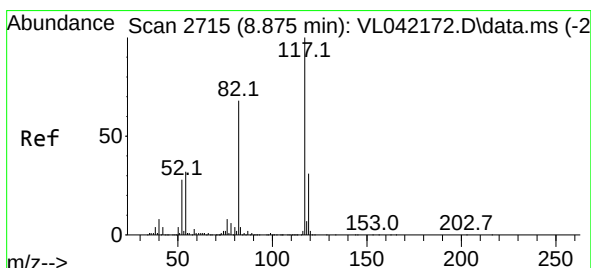
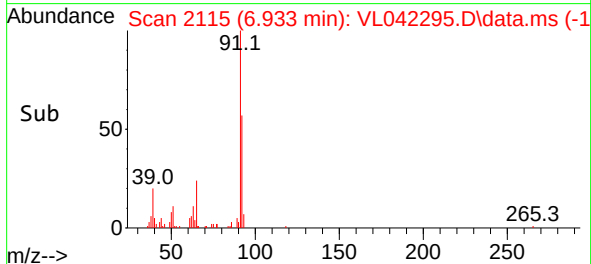
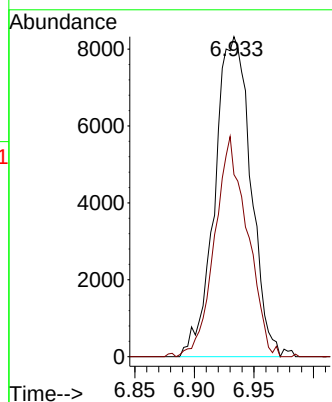
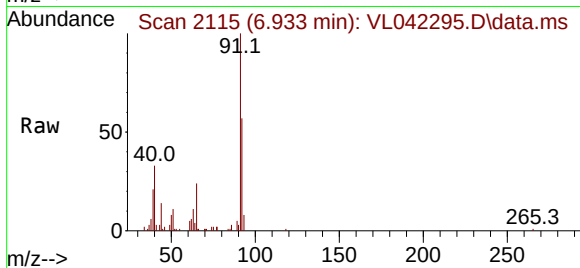




#53
Toluene
Concen: 0.386 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. 0.006 min
Lab File: VL042295.D
Acq: 09 Apr 2025 16:23

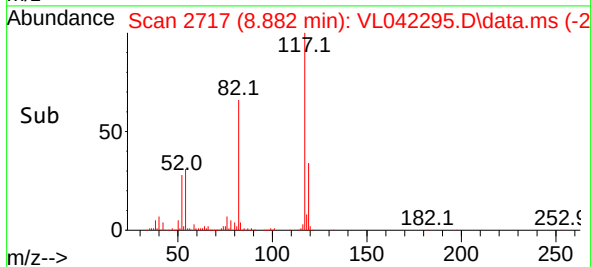
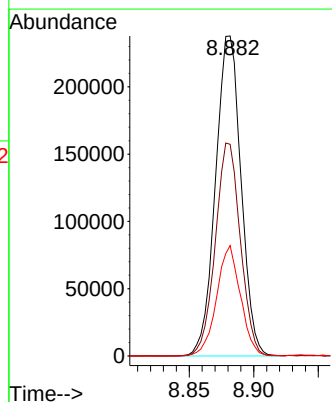
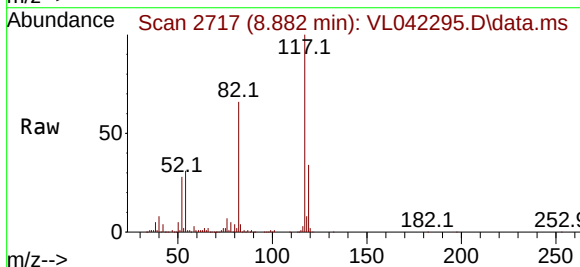
Instrument :
MSVOA_L
ClientSampleId :
IA-B9-2-3242025

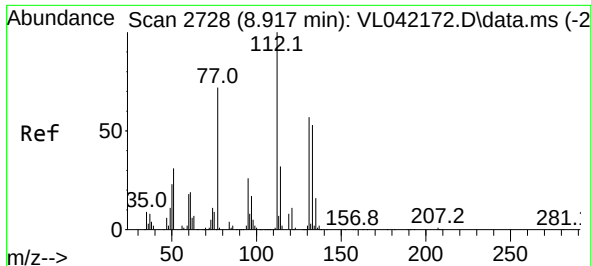
Tgt Ion: 91 Resp: 17473
Ion Ratio Lower Upper
91 100
92 62.6 48.4 72.6



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2717
Delta R.T. 0.006 min
Lab File: VL042295.D
Acq: 09 Apr 2025 16:23

Tgt Ion: 117 Resp: 326865
Ion Ratio Lower Upper
117 100
82 65.3 55.8 83.6
119 32.2 25.5 38.3

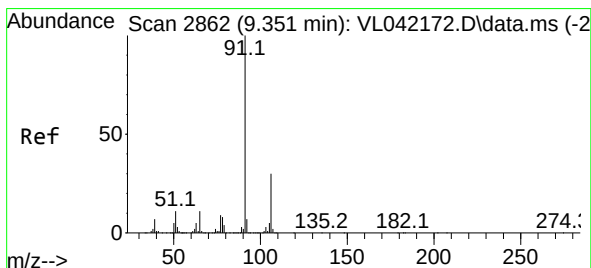
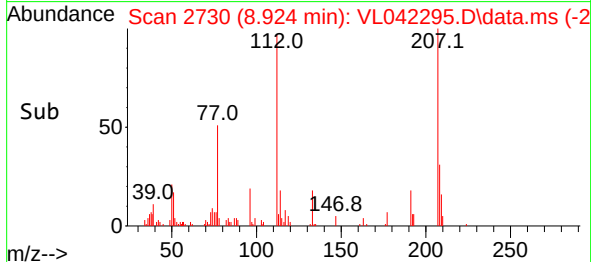
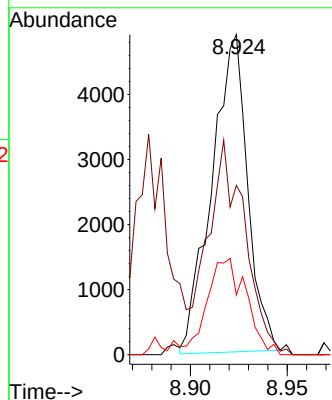
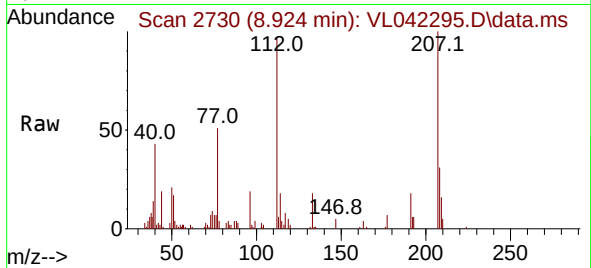




#57
Chlorobenzene
Concen: 0.203 ppbv
RT: 8.924 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL042295.D
Acq: 09 Apr 2025 16:23

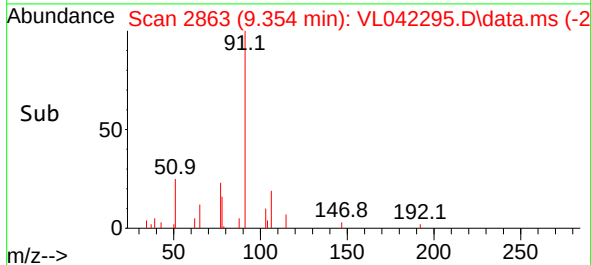
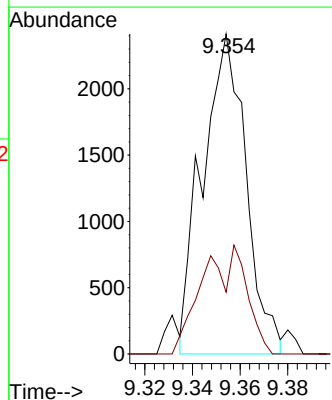
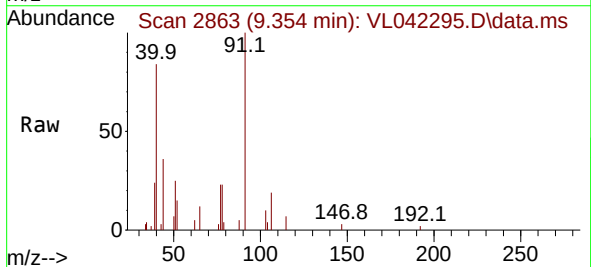
Instrument :
MSVOA_1
ClientSampleId :
IA-B9-2-3242025

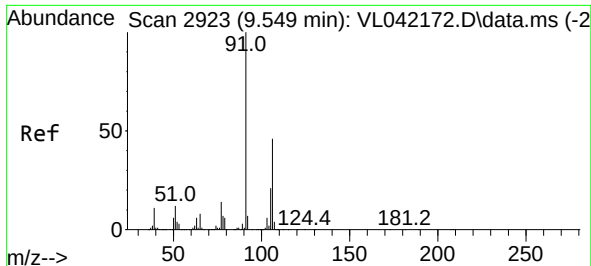
Tgt Ion:112 Resp: 6308
Ion Ratio Lower Upper
112 100
77 52.5 58.2 87.2#
114 18.9 29.1 35.5#



#58
Ethyl Benzene
Concen: 0.053 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.003 min
Lab File: VL042295.D
Acq: 09 Apr 2025 16:23

Tgt Ion: 91 Resp: 3072
Ion Ratio Lower Upper
91 100
106 20.2 24.2 36.2#





#59

m/p-Xylene

Concen: 0.034 ppbv

RT: 9.552 min Scan# 2924

Delta R.T. 0.003 min

Lab File: VL042295.D

Acq: 09 Apr 2025 16:23

Instrument :

MSVOA_L

ClientSampleId :

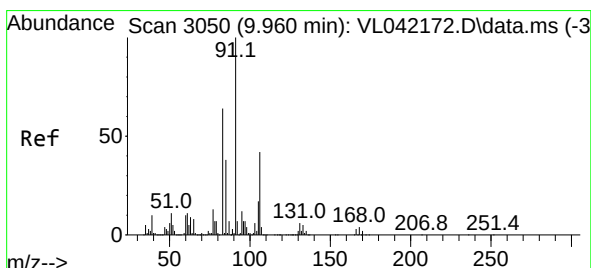
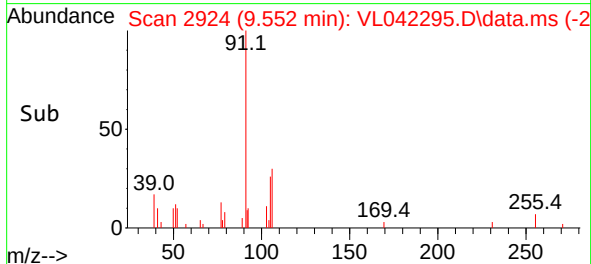
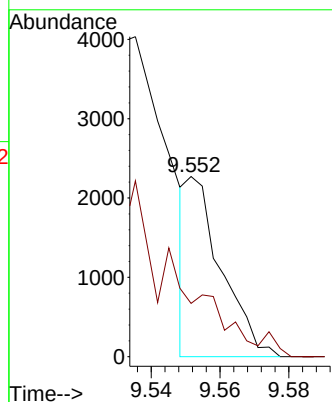
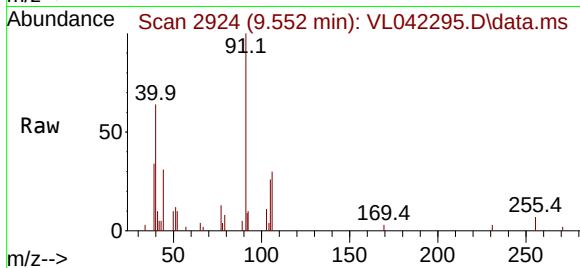
IA-B9-2-3242025

Tgt Ion: 91 Resp: 1588

Ion Ratio Lower Upper

91 100

106 0.0 36.4 54.6#



#60

o-Xylene

Concen: 0.103 ppbv

RT: 9.963 min Scan# 3051

Delta R.T. 0.003 min

Lab File: VL042295.D

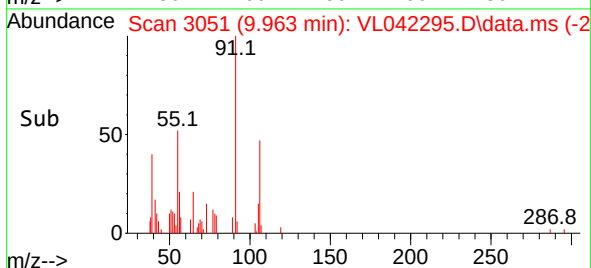
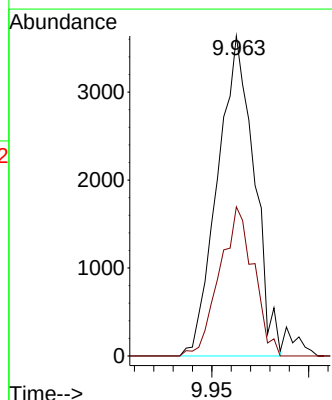
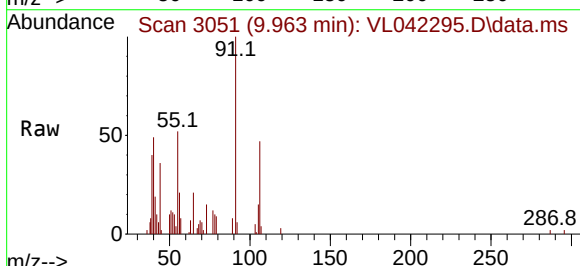
Acq: 09 Apr 2025 16:23

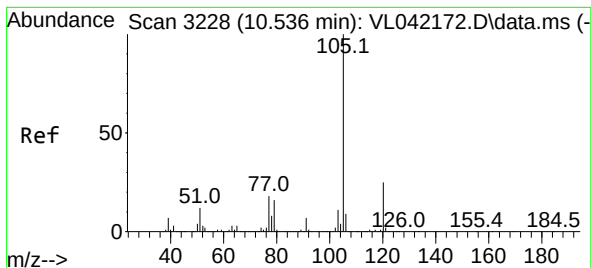
Tgt Ion: 91 Resp: 4768

Ion Ratio Lower Upper

91 100

106 43.4 20.8 62.5





#62

Isopropylbenzene

Concen: 0.665 ppbv

RT: 10.807 min Scan# 31

Delta R.T. 0.272 min

Lab File: VL042295.D

Acq: 09 Apr 2025 16:23

Instrument :

MSVOA_L

ClientSampleId :

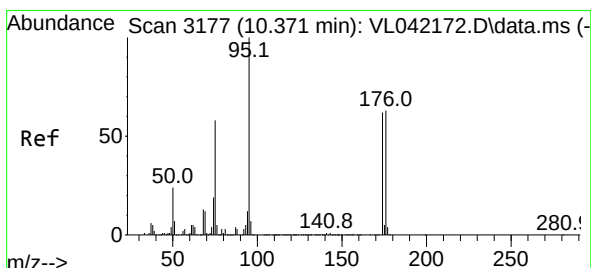
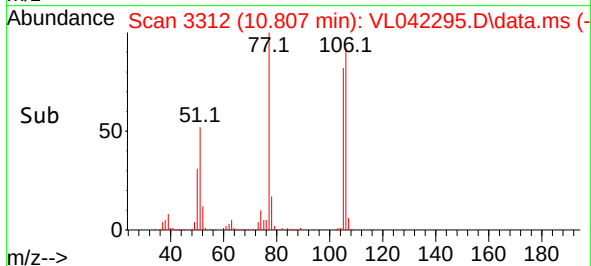
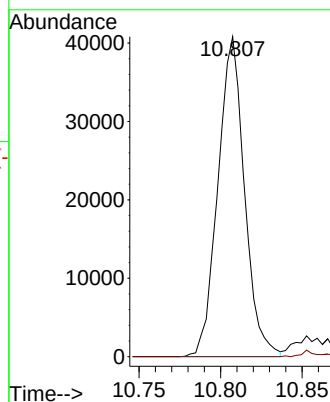
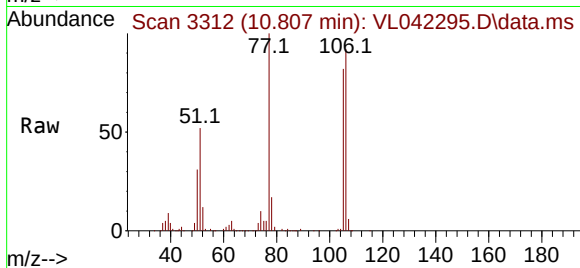
IA-B9-2-3242025

Tgt Ion:105 Resp: 46203

Ion Ratio Lower Upper

105 100

120 0.0 19.9 29.9#



#68

1-Bromo-4-Fluorobenzene

Concen: 9.709 ppbv

RT: 10.377 min Scan# 3179

Delta R.T. 0.006 min

Lab File: VL042295.D

Acq: 09 Apr 2025 16:23

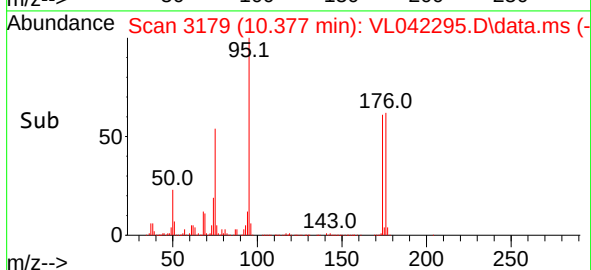
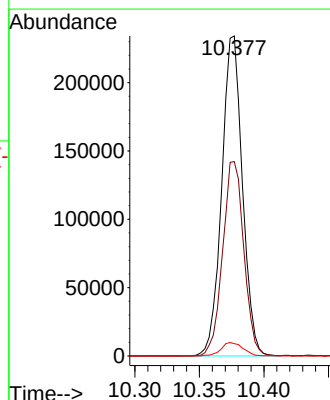
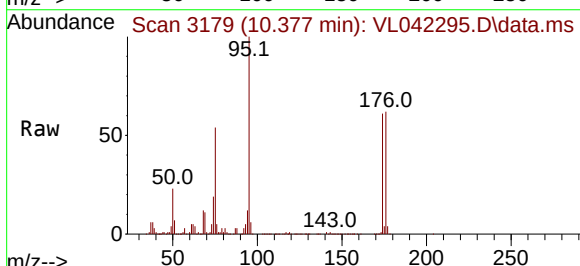
Tgt Ion: 95 Resp: 260627

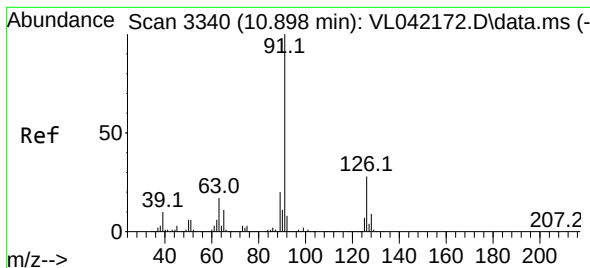
Ion Ratio Lower Upper

95 100

174 62.2 50.6 76.0

175 4.5 3.8 5.6





#71

2-Chlorotoluene

Concen: 0.243 ppbv

RT: 10.856 min Scan# 31

Delta R.T. -0.042 min

Lab File: VL042295.D

Acq: 09 Apr 2025 16:23

Instrument :

MSVOA_L

ClientSampleId :

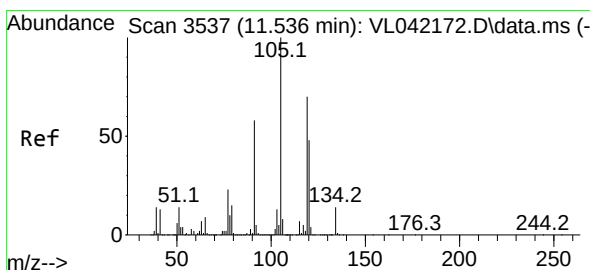
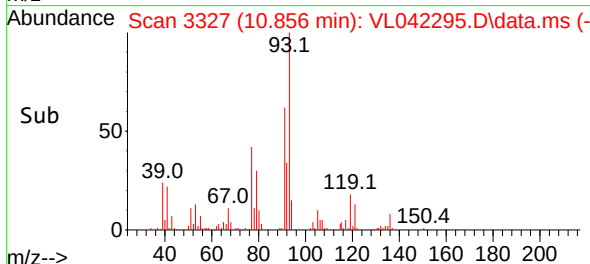
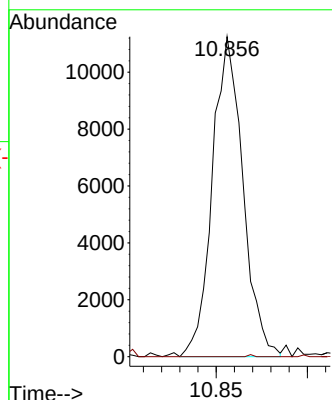
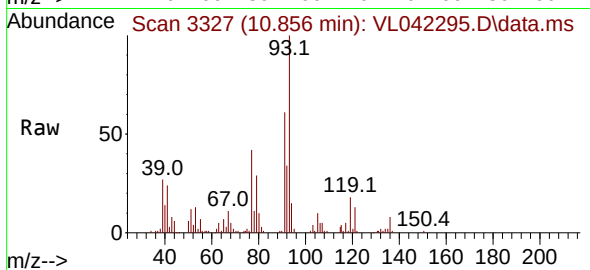
IA-B9-2-3242025

Tgt Ion: 91 Resp: 13101

Ion Ratio Lower Upper

91 100

126 1.2 11.6 46.4#



#74

1,2,4-Trimethylbenzene

Concen: 0.061 ppbv

RT: 11.536 min Scan# 3537

Delta R.T. -0.000 min

Lab File: VL042295.D

Acq: 09 Apr 2025 16:23

Tgt Ion: 105 Resp: 3557

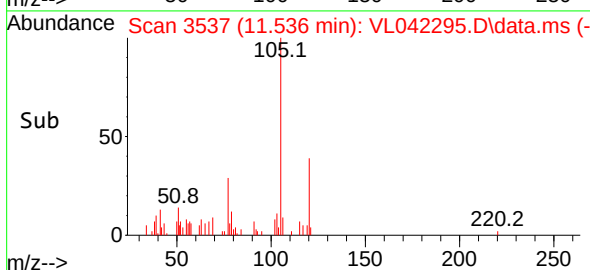
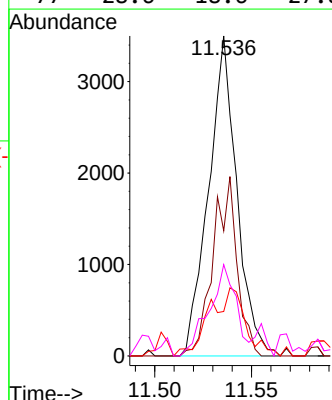
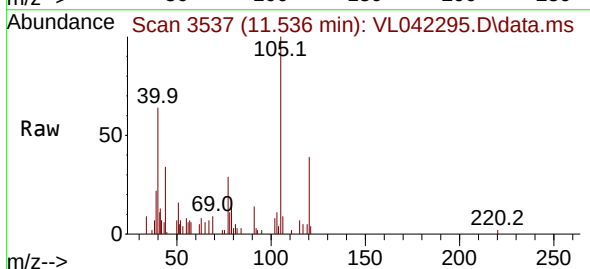
Ion Ratio Lower Upper

105 100

120 39.1 38.6 58.0

91 13.9 46.2 69.2#

77 28.6 18.6 27.8#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
 Data File : VL042296.D
 Acq On : 09 Apr 2025 16:57
 Operator : SY/MD
 Sample : Q1665-20
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B9-3-3242025

Quant Time: Apr 10 01:46:46 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

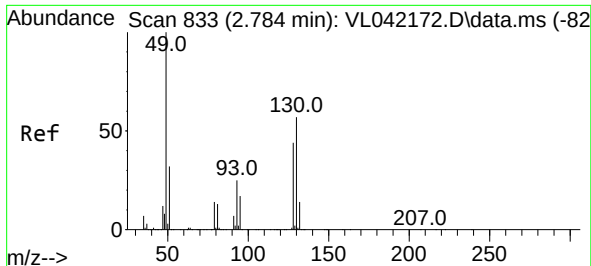
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.787	49	161865	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	384782	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	329132	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	253889	9.393	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.900%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	10098	0.423	ppbv	94
3) Chlorodifluoromethane	1.622	51	2003	0.082	ppbv	99
4) Chloromethane	1.531	50	4745	0.486	ppbv	96
7) Chloroethane	1.706	64	129	0.033	ppbv #	70
9) Propene	1.884	41	48825	4.363	ppbv	91
10) Heptane	4.981	43	1866	0.063	ppbv #	28
11) Trichlorofluoromethane	1.877	101	4945	0.213	ppbv #	74
12) 1,1,2-Trichlorotrifluo...	2.140	101	1447	0.076	ppbv	95
13) Ethanol	1.722	45	33576	31.739	ppbv	81
15) Acetone	1.835	43	182118	8.045	ppbv	92
16) 1,3-Butadiene	1.599	39	2415	0.218	ppbv #	48
17) tert-Butyl alcohol	1.884	59	17996	0.638	ppbv	100
19) Isopropyl Alcohol	1.884	45	498343	39.016	ppbv #	32
20) Methylene Chloride	2.062	84	11004	1.305	ppbv	96
21) Allyl Chloride	2.230	41	746	0.047	ppbv #	26
23) Vinyl Acetate	2.473	43	11170	1.140	ppbv #	44
25) Ethyl Acetate	2.826	43	31835	0.542	ppbv #	87
26) Hexane	2.826	57	33283	1.467	ppbv #	36
29) Chloroform	2.845	83	1483	0.045	ppbv #	57
34) 2-Butanone	2.560	43	71103	2.548	ppbv	95
35) Carbon Tetrachloride	3.758	117	2271	0.076	ppbv #	90
36) Benzene	3.654	78	10547	0.276	ppbv #	94
39) 1,2-Dichloropropane	3.959	63	102058	7.346	ppbv #	23
41) Tetrahydrofuran	3.062	42	4483	0.279	ppbv	92
44) 2,2,4-Trimethylpentane	4.641	57	2009	0.031	ppbv #	42
53) Toluene	6.930	91	24055	0.532	ppbv	98
57) Chlorobenzene	8.920	112	1926	0.062	ppbv #	89
58) Ethyl Benzene	9.354	91	4472	0.076	ppbv	96
59) m/p-Xylene	9.542	91	3344	0.072	ppbv #	31
60) o-Xylene	9.963	91	5830	0.125	ppbv	99
74) 1,2,4-Trimethylbenzene	11.536	105	2269	0.039	ppbv #	74

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

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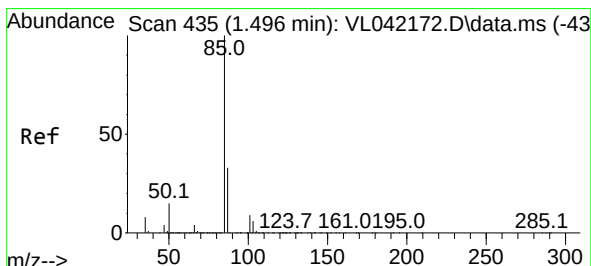
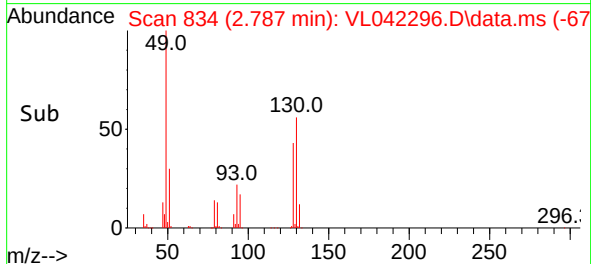
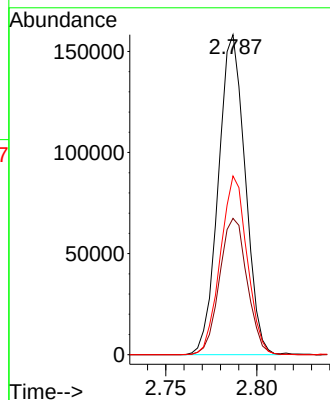
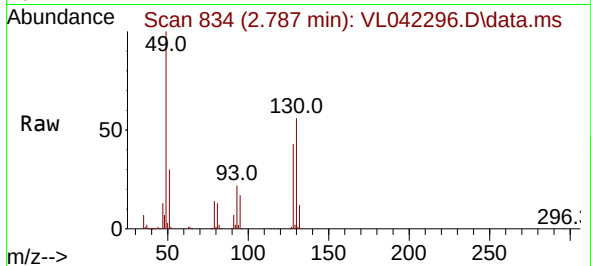




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

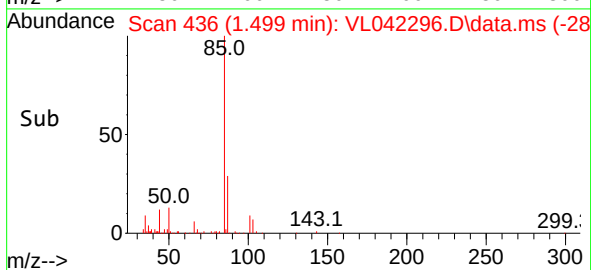
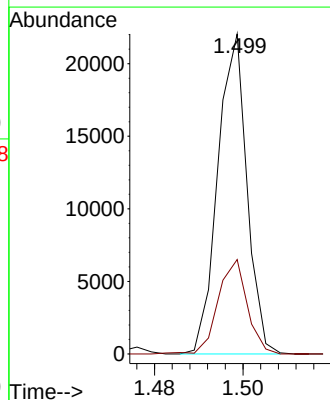
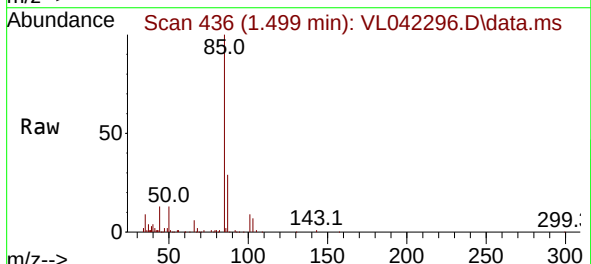
Instrument :
MSVOA_L
ClientSampleId :
IA-B9-3-3242025

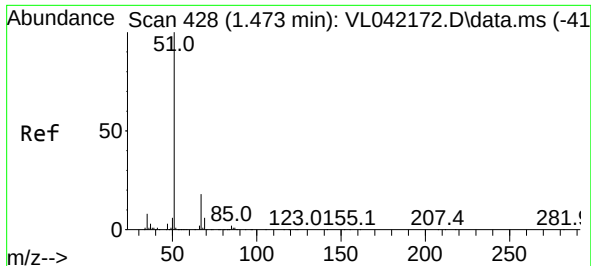
Tgt Ion: 49 Resp: 161865
Ion Ratio Lower Upper
49 100
128 43.9 22.9 68.5
130 55.7 28.8 86.4



#2
Dichlorodifluoromethane
Concen: 0.423 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

Tgt Ion: 85 Resp: 10098
Ion Ratio Lower Upper
85 100
87 29.5 26.1 39.1

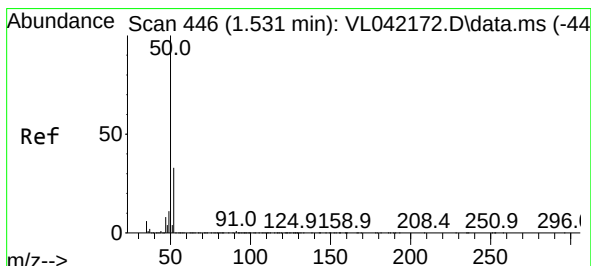
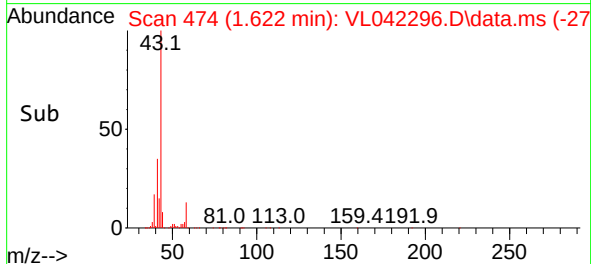
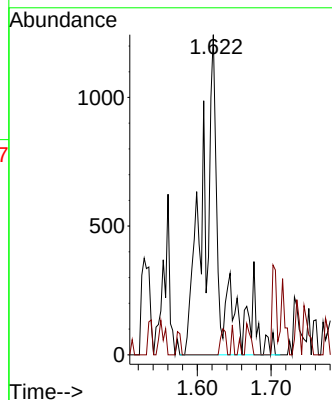
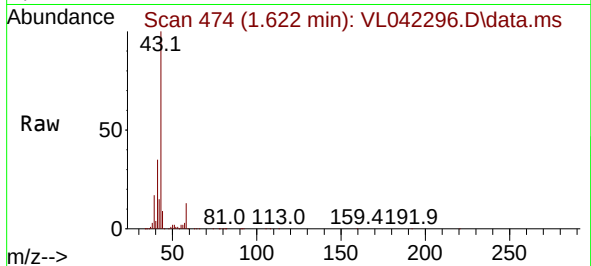




#3
Chlorodifluoromethane
Concen: 0.082 ppbv
RT: 1.622 min Scan# 41
Delta R.T. 0.149 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

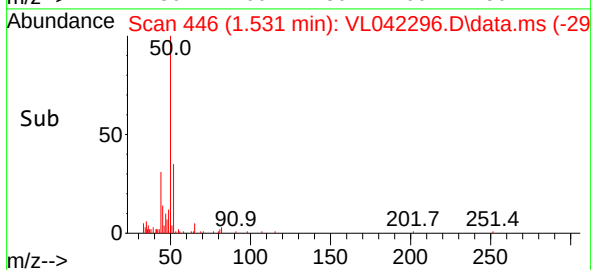
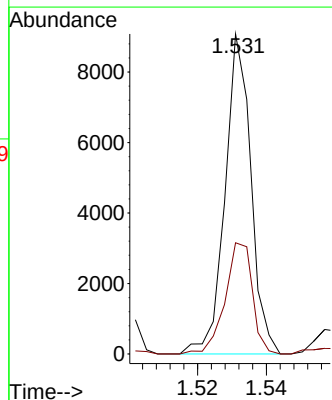
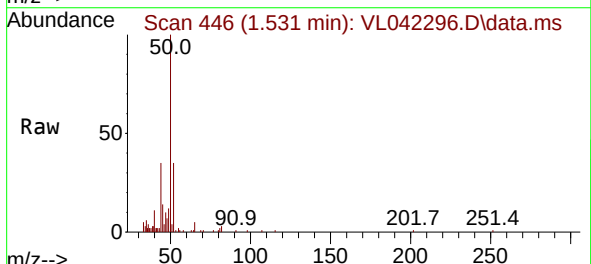
Instrument :
MSVOA_L
ClientSampleId :
IA-B9-3-3242025

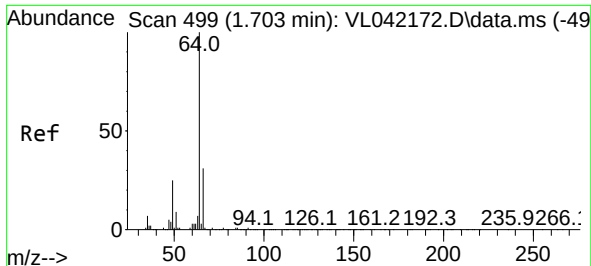
Tgt Ion: 51 Resp: 2003
Ion Ratio Lower Upper
51 100
67 19.4 15.0 22.6



#4
Chloromethane
Concen: 0.486 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

Tgt Ion: 50 Resp: 4745
Ion Ratio Lower Upper
50 100
52 34.8 26.1 39.1

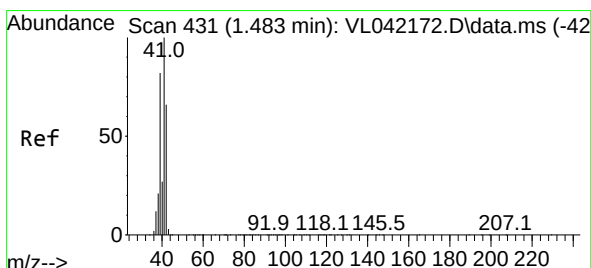
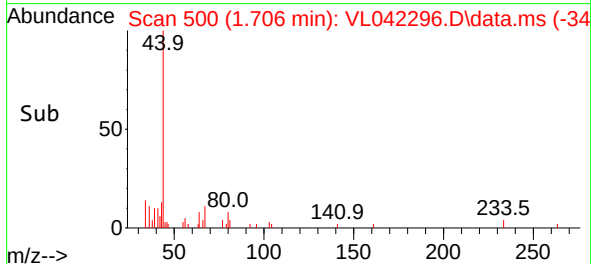
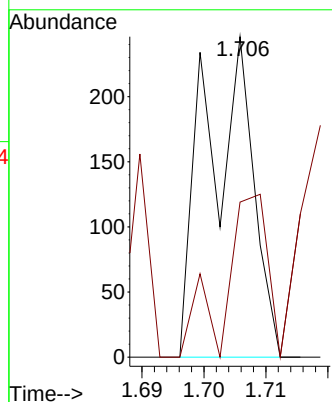
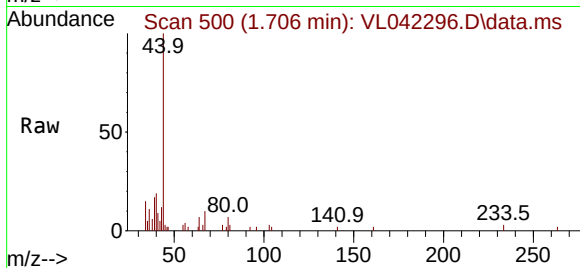




#7
Chloroethane
Concen: 0.033 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.003 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

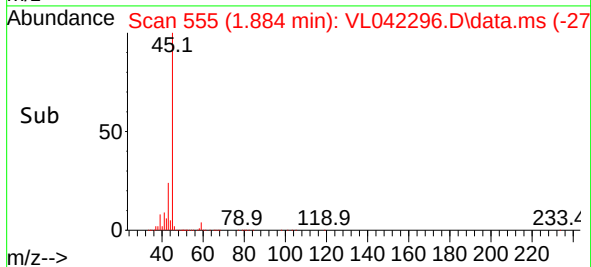
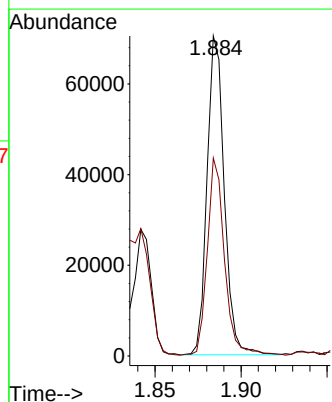
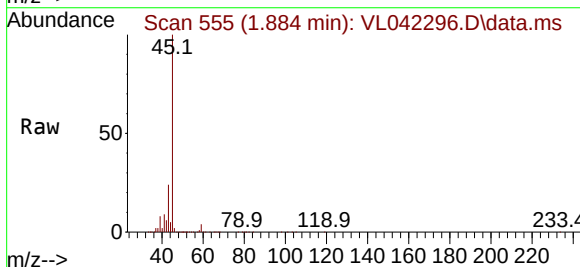
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IA-B9-3-3242025

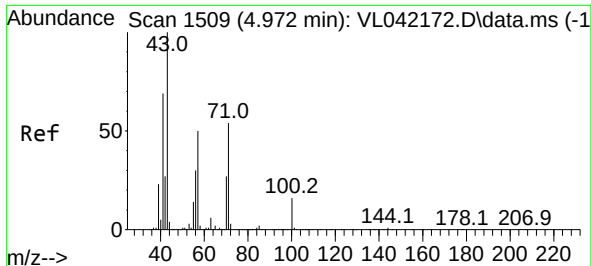
Tgt Ion: 64 Resp: 129
Ion Ratio Lower Upper
64 100
66 48.4 25.2 37.8#



#9
Propene
Concen: 4.363 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.401 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

Tgt Ion: 41 Resp: 48825
Ion Ratio Lower Upper
41 100
42 61.7 55.4 83.2

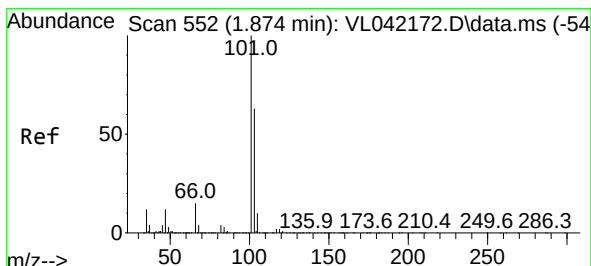
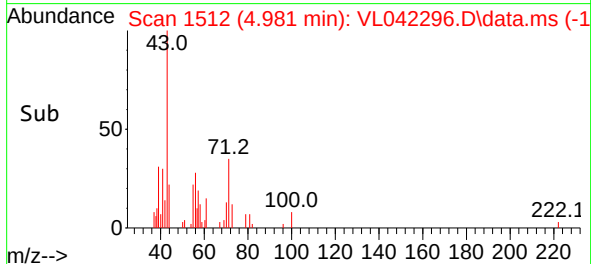
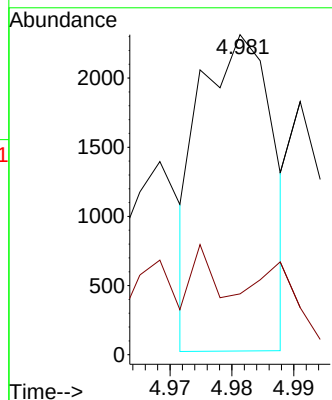
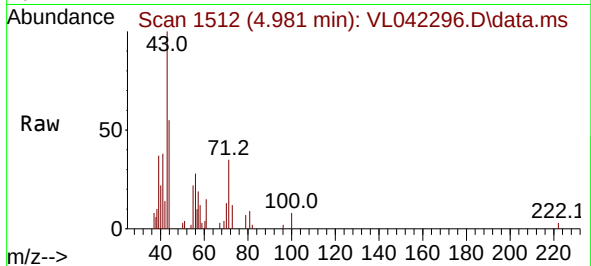




#10
Heptane
Concen: 0.063 ppbv
RT: 4.981 min Scan# 11
Delta R.T. 0.009 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

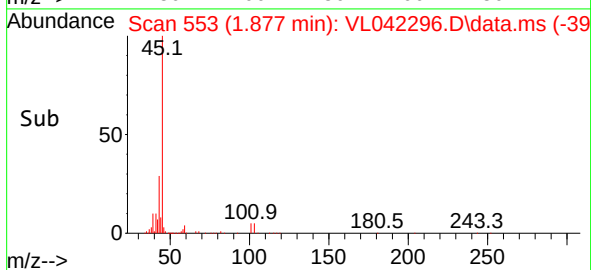
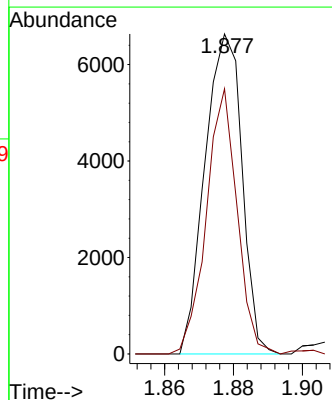
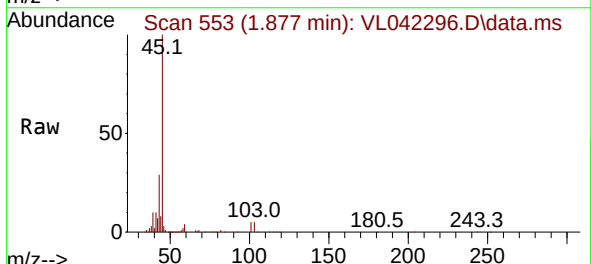
Instrument :
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ClientSampleId :
IA-B9-3-3242025

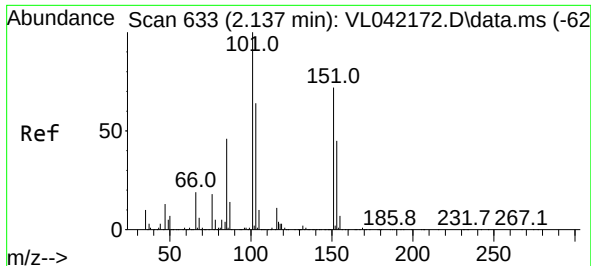
Tgt Ion: 43 Resp: 1866
Ion Ratio Lower Upper
43 100
57 0.0 39.4 59.2#



#11
Trichlorofluoromethane
Concen: 0.213 ppbv
RT: 1.877 min Scan# 553
Delta R.T. 0.003 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

Tgt Ion: 101 Resp: 4945
Ion Ratio Lower Upper
101 100
103 82.8 50.2 75.2#

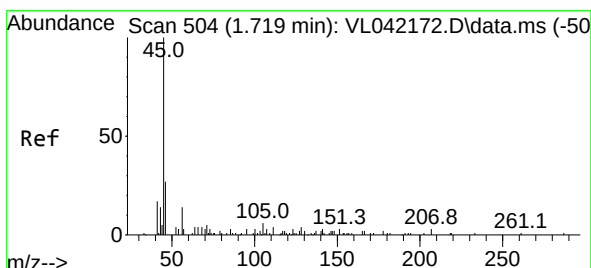
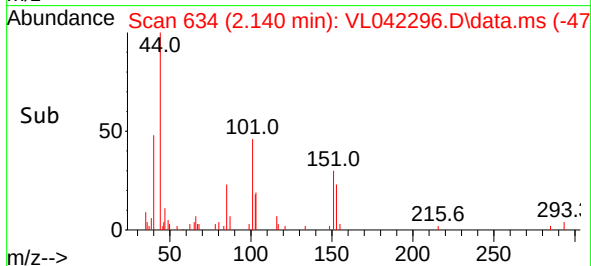
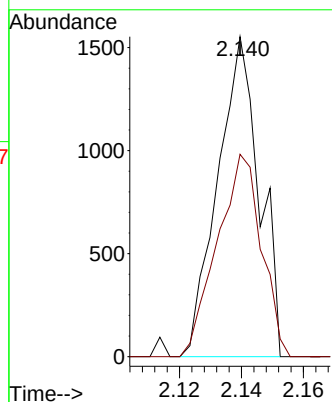
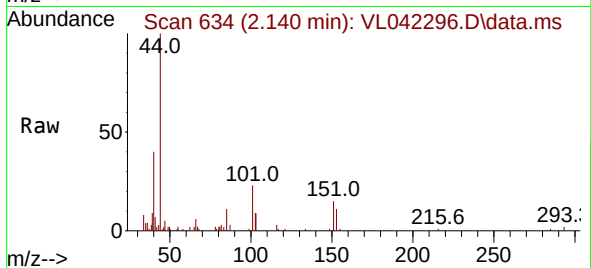




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.076 ppbv
RT: 2.140 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

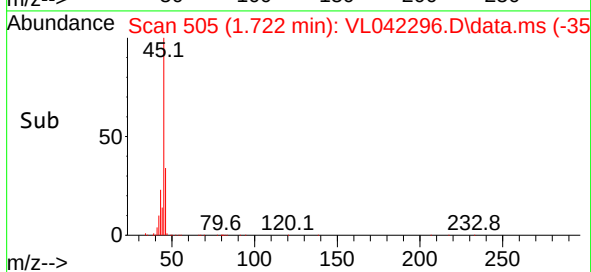
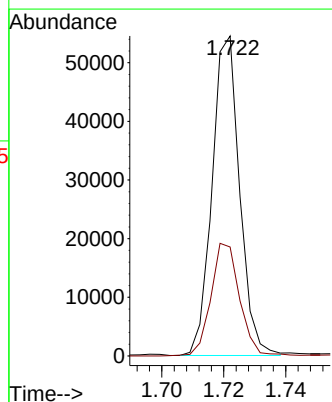
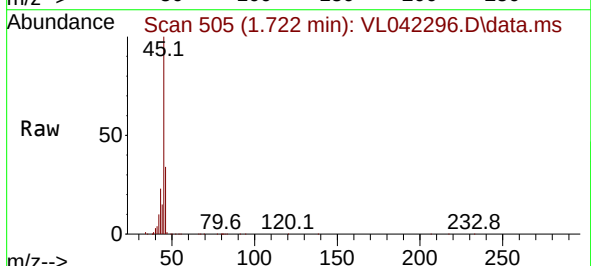
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ClientSampleId :
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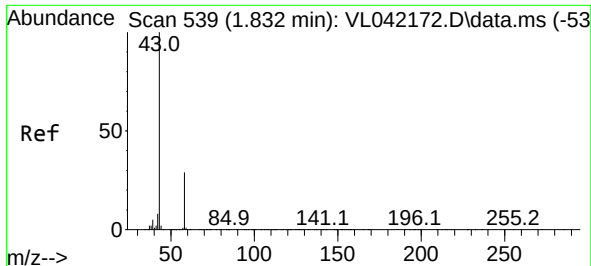
Tgt Ion:101 Resp: 1447
Ion Ratio Lower Upper
101 100
151 67.2 57.1 85.7



#13
Ethanol
Concen: 31.739 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

Tgt Ion: 45 Resp: 33576
Ion Ratio Lower Upper
45 100
46 37.1 20.2 80.8





#15

Acetone

Concen: 8.045 ppbv

RT: 1.835 min Scan# 54

Delta R.T. 0.003 min

Lab File: VL042296.D

Acq: 09 Apr 2025 16:57

Instrument :

MSVOA_L

ClientSampleId :

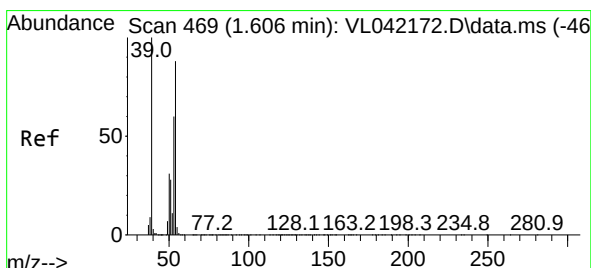
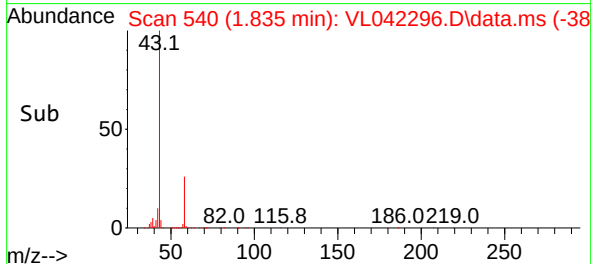
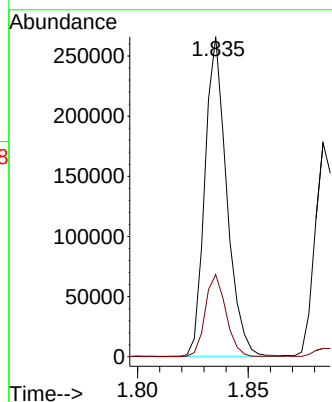
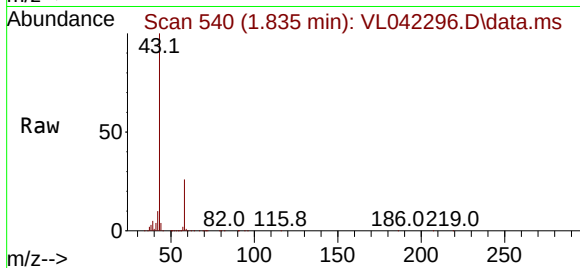
IA-B9-3-3242025

Tgt Ion: 43 Resp: 182118

Ion Ratio Lower Upper

43 100

58 24.5 23.2 34.8



#16

1,3-Butadiene

Concen: 0.218 ppbv

RT: 1.599 min Scan# 467

Delta R.T. -0.007 min

Lab File: VL042296.D

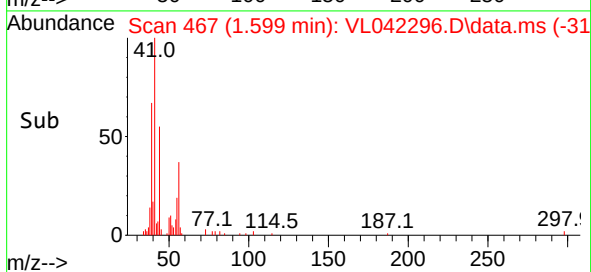
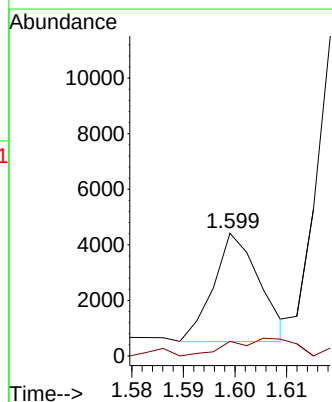
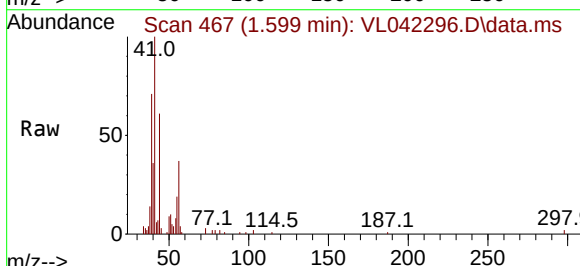
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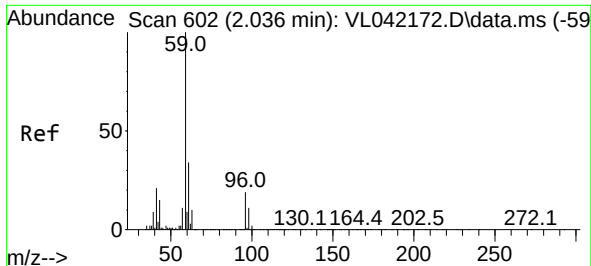
Tgt Ion: 39 Resp: 2415

Ion Ratio Lower Upper

39 100

54 31.7 60.7 91.1#

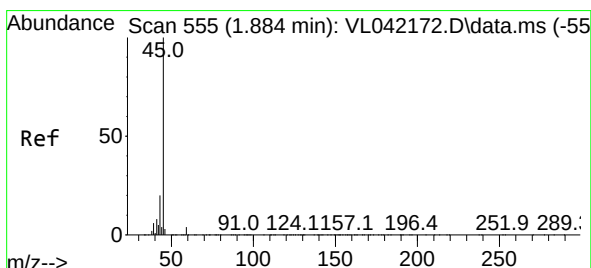
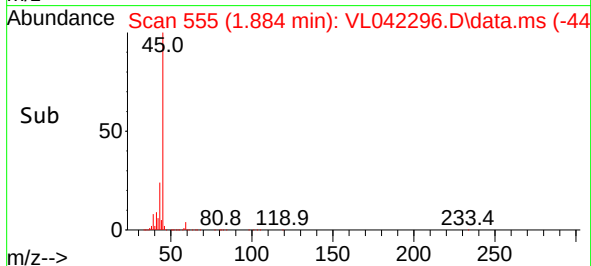
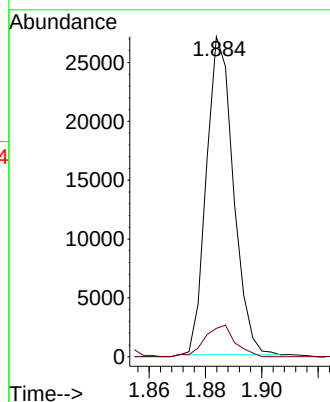
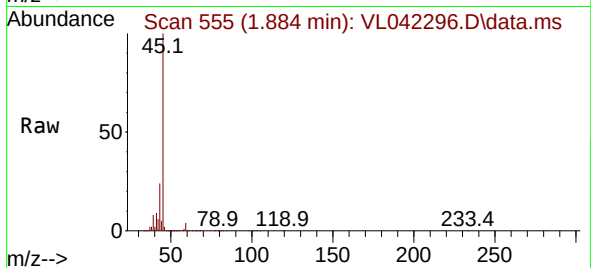




#17
tert-Butyl alcohol
Concen: 0.638 ppbv
RT: 1.884 min Scan# 511
Delta R.T. -0.152 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

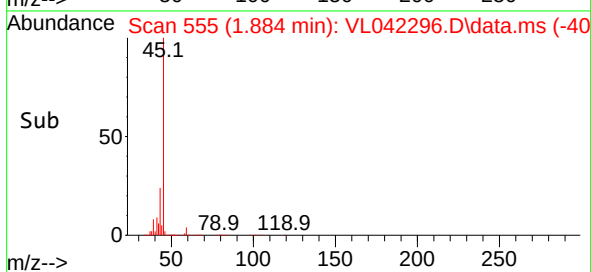
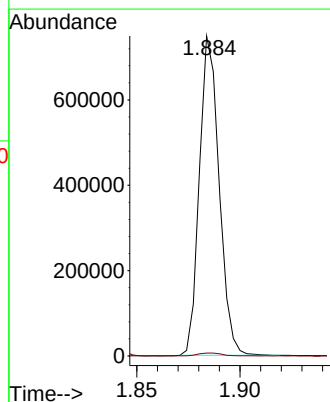
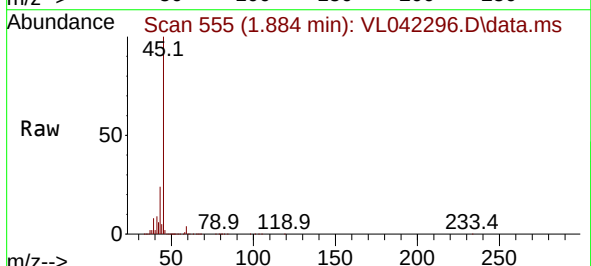
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IA-B9-3-3242025

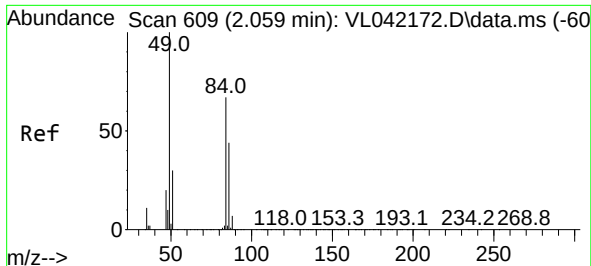
Tgt Ion: 59 Resp: 17996
Ion Ratio Lower Upper
59 100
57 11.1 8.9 13.3



#19
Isopropyl Alcohol
Concen: 39.016 ppbv
RT: 1.884 min Scan# 555
Delta R.T. -0.000 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

Tgt Ion: 45 Resp: 498343
Ion Ratio Lower Upper
45 100
58 1.2 36.9 55.3#





#20

Methylene Chloride

Concen: 1.305 ppbv

RT: 2.062 min Scan# 610

Delta R.T. 0.003 min

Lab File: VL042296.D

Acq: 09 Apr 2025 16:57

Instrument :

MSVOA_L

ClientSampleId :

IA-B9-3-3242025

Tgt Ion: 84 Resp: 11004

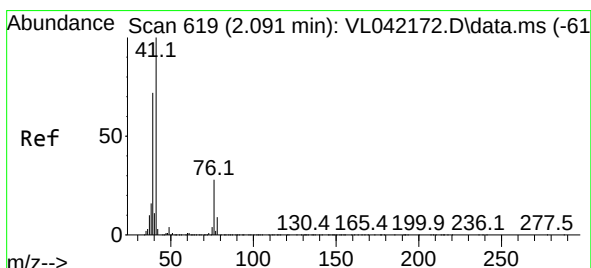
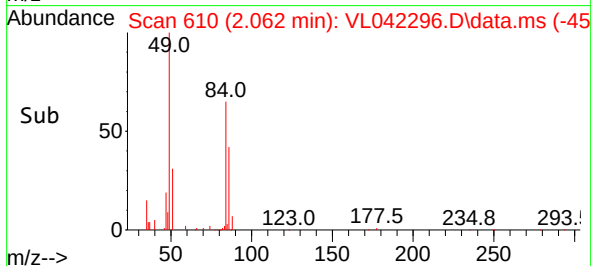
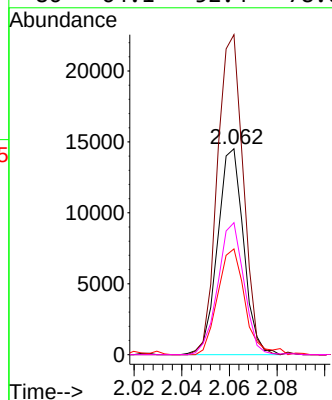
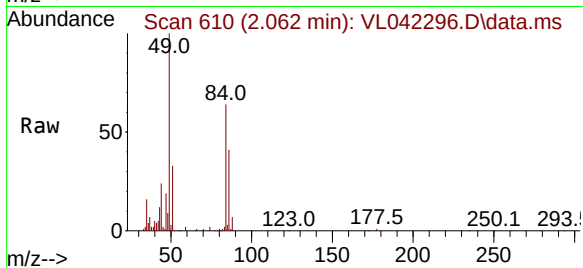
Ion Ratio Lower Upper

84 100

49 155.3 120.2 180.4

51 51.4 37.4 56.0

86 64.1 52.4 78.6



#21

Allyl Chloride

Concen: 0.047 ppbv

RT: 2.230 min Scan# 662

Delta R.T. 0.139 min

Lab File: VL042296.D

Acq: 09 Apr 2025 16:57

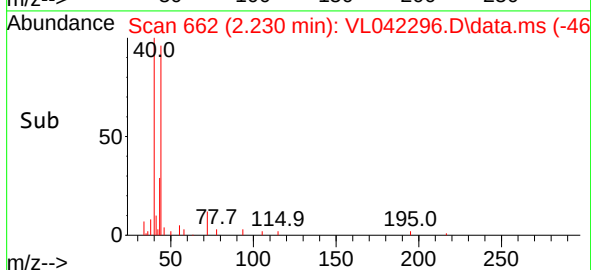
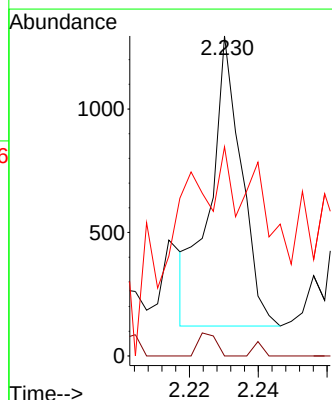
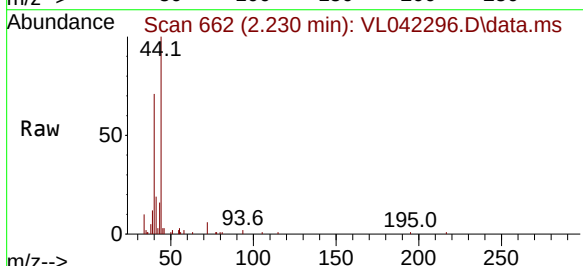
Tgt Ion: 41 Resp: 746

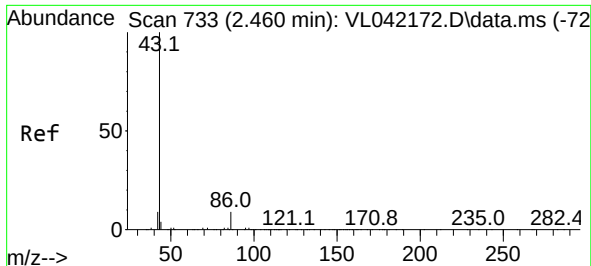
Ion Ratio Lower Upper

41 100

76 10.3 24.1 36.1#

39 0.0 61.1 91.7#

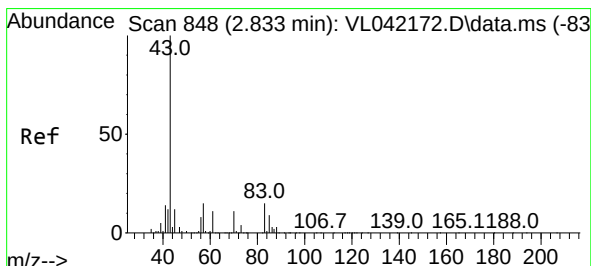
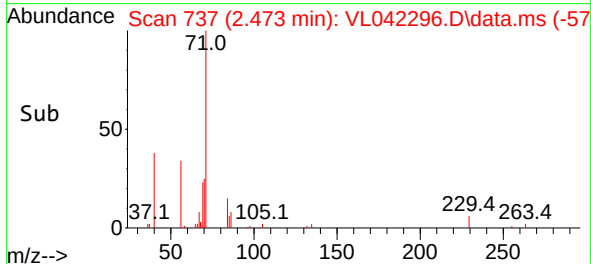
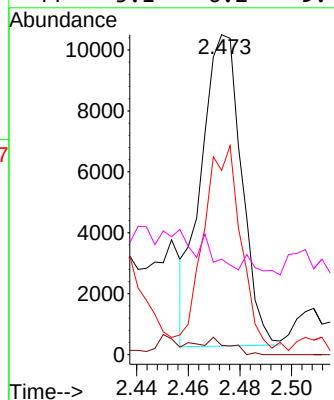
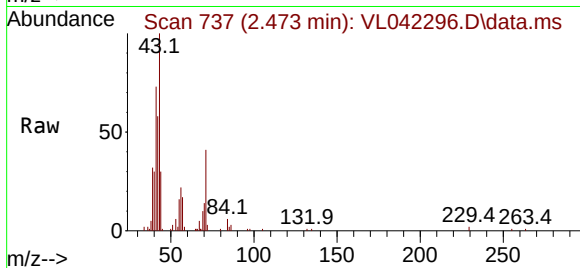




#23
Vinyl Acetate
Concen: 1.140 ppbv
RT: 2.473 min Scan# 71
Delta R.T. 0.013 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

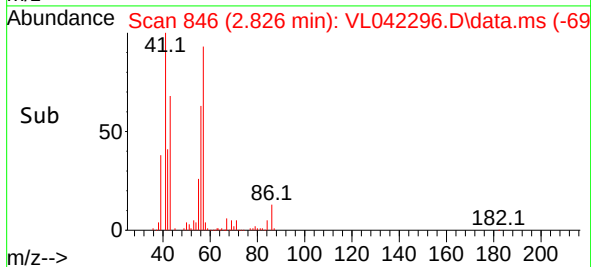
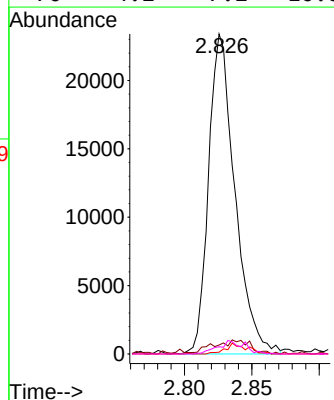
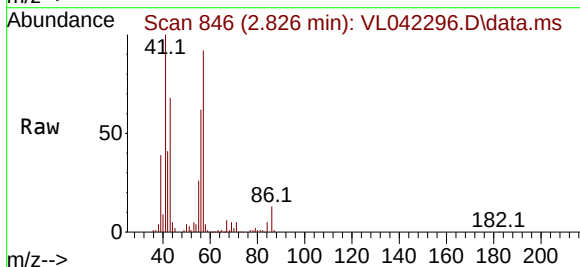
Instrument :
MSVOA_L
ClientSampleId :
IA-B9-3-3242025

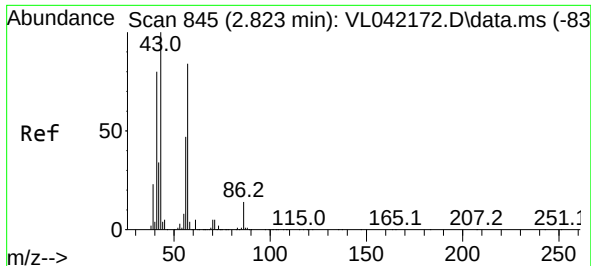
Tgt Ion:	43	Resp:	11170
Ion	Ratio	Lower	Upper
43	100		
86	3.1	5.5	8.3#
42	56.1	8.6	13.0#
44	5.1	6.2	9.4#



#25
Ethyl Acetate
Concen: 0.542 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.007 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

Tgt Ion:	43	Resp:	31835
Ion	Ratio	Lower	Upper
43	100		
45	6.9	8.2	12.2#
61	2.7	7.3	10.9#
70	4.2	7.2	10.8#

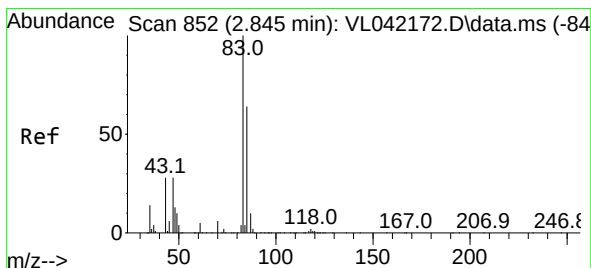
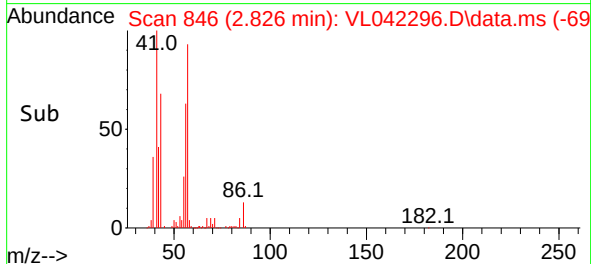
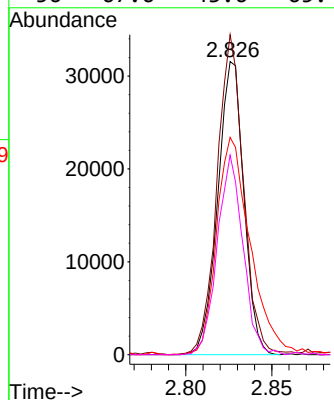
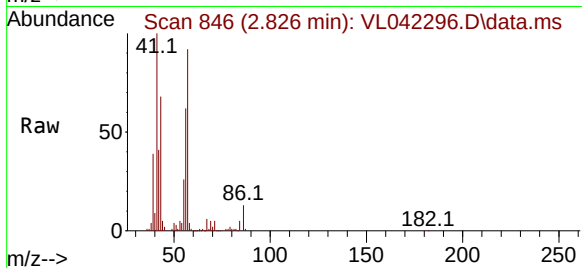




#26
Hexane
Concen: 1.467 ppbv
RT: 2.826 min Scan# 845
Delta R.T. 0.003 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

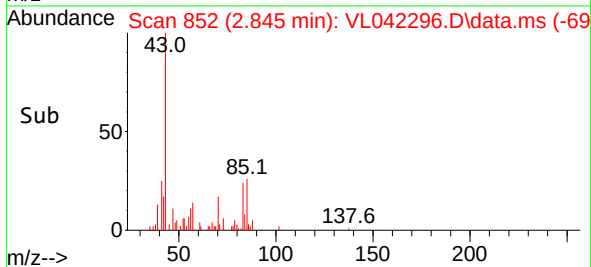
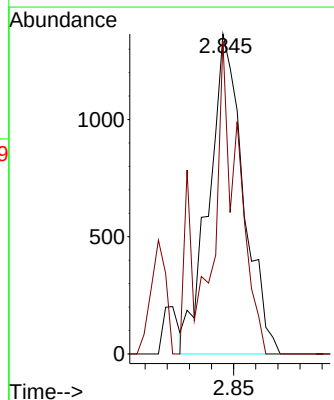
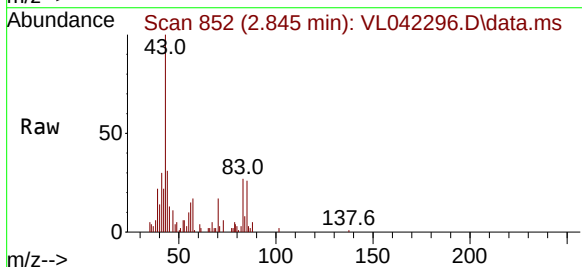
Instrument :
MSVOA_L
ClientSampleId :
IA-B9-3-3242025

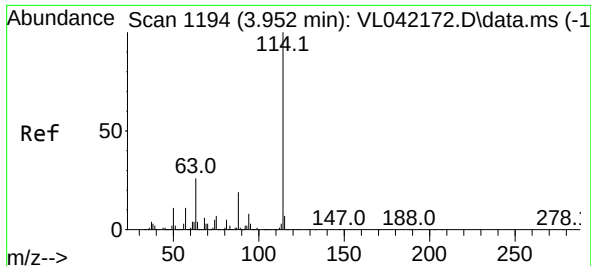
Tgt Ion: 57 Resp: 33283
Ion Ratio Lower Upper
57 100
41 112.6 76.6 114.8
43 96.8 207.8 311.8#
56 67.6 43.6 65.4#



#29
Chloroform
Concen: 0.045 ppbv
RT: 2.845 min Scan# 852
Delta R.T. -0.000 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

Tgt Ion: 83 Resp: 1483
Ion Ratio Lower Upper
83 100
85 97.8 51.4 77.2#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.959 min Scan# 1196

Delta R.T. 0.006 min

Lab File: VL042296.D

Acq: 09 Apr 2025 16:57

Instrument :

MSVOA_L

ClientSampleId :

IA-B9-3-3242025

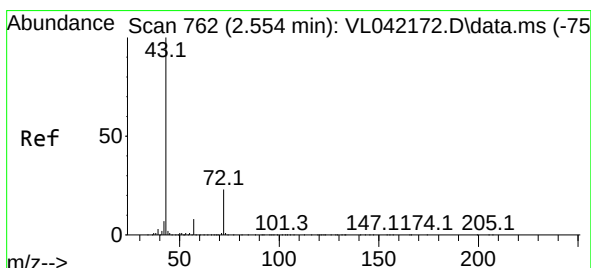
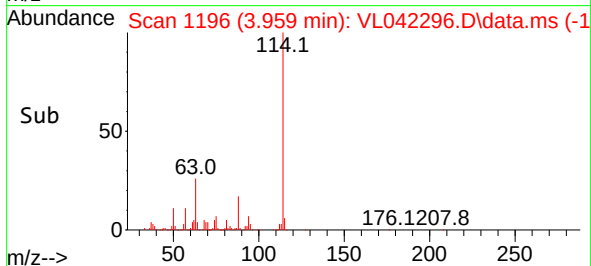
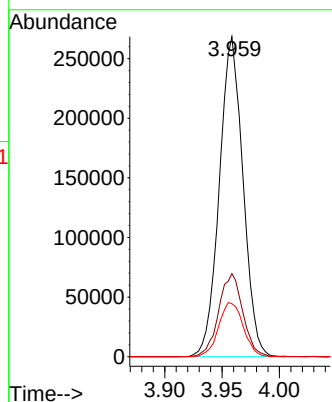
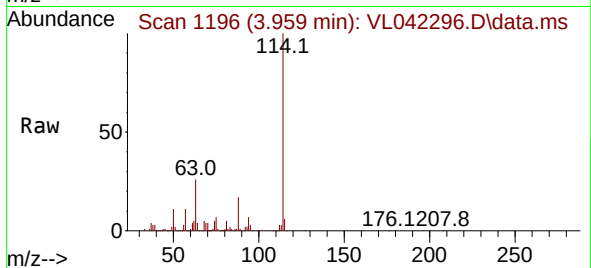
Tgt Ion:114 Resp: 384782

Ion Ratio Lower Upper

114 100

63 26.6 20.7 31.1

88 17.6 15.0 22.4



#34

2-Butanone

Concen: 2.548 ppbv

RT: 2.560 min Scan# 764

Delta R.T. 0.006 min

Lab File: VL042296.D

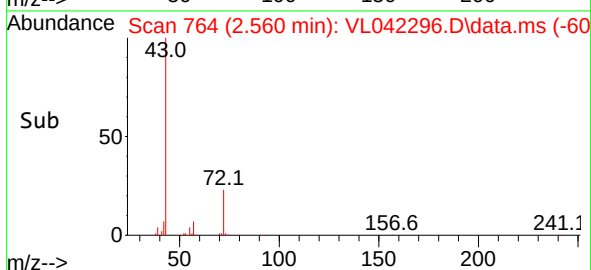
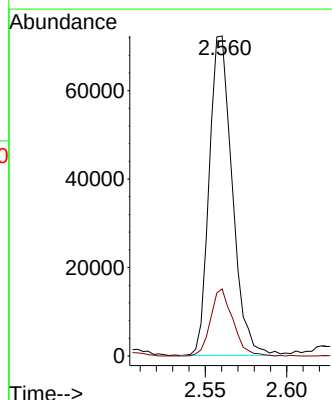
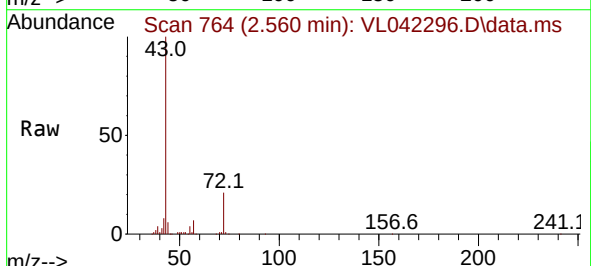
Acq: 09 Apr 2025 16:57

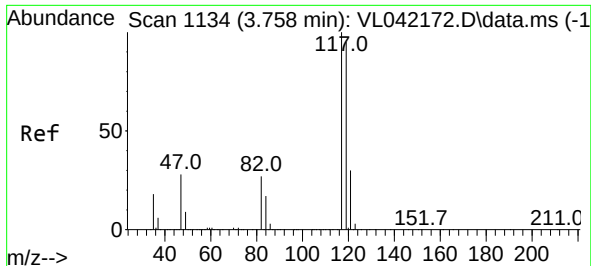
Tgt Ion: 43 Resp: 71103

Ion Ratio Lower Upper

43 100

72 20.4 18.2 27.2

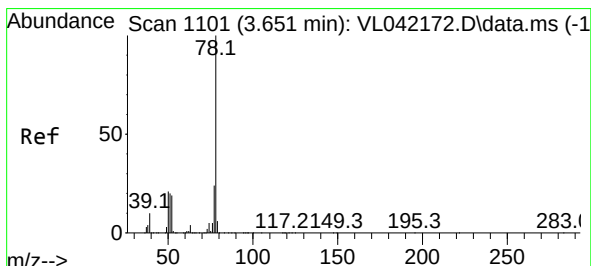
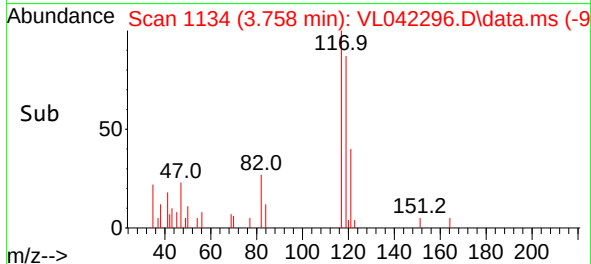
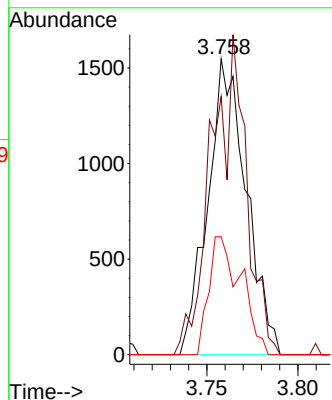
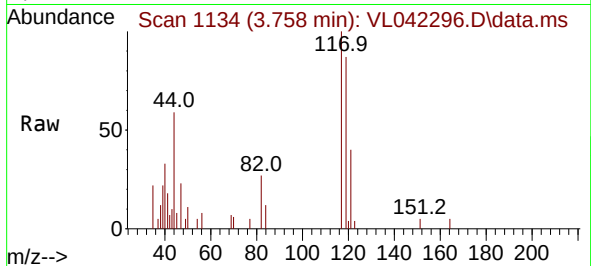




#35
Carbon Tetrachloride
Concen: 0.076 ppbv
RT: 3.758 min Scan# 1134
Delta R.T. -0.000 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

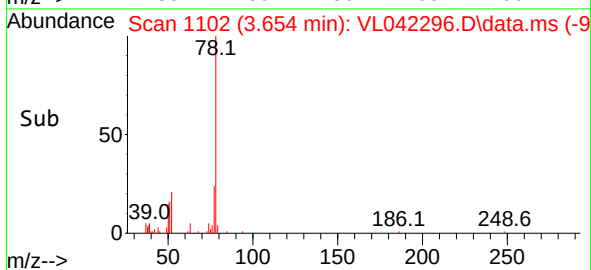
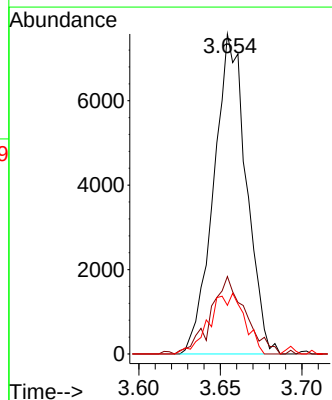
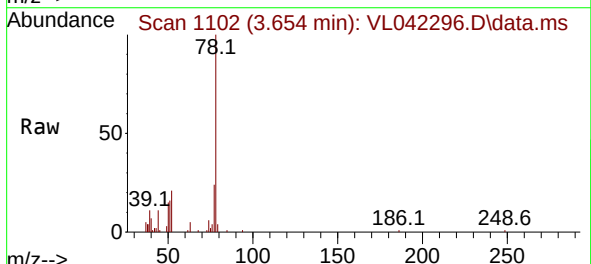
Instrument :
MSVOA_L
ClientSampleId :
IA-B9-3-3242025

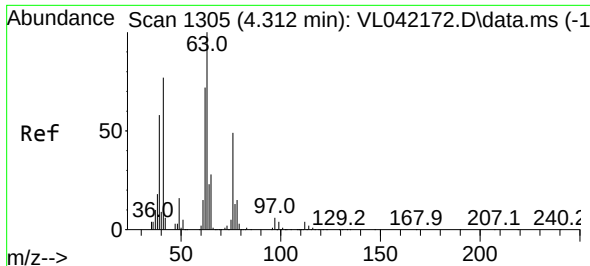
Tgt Ion:117 Resp: 2271
Ion Ratio Lower Upper
117 100
119 87.2 76.2 114.2
121 39.9 24.2 36.4#



#36
Benzene
Concen: 0.276 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. 0.003 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

Tgt Ion: 78 Resp: 10547
Ion Ratio Lower Upper
78 100
77 24.2 19.1 28.7
50 15.2 16.6 24.8#





#39

1,2-Dichloropropane

Concen: 7.346 ppbv

RT: 3.959 min Scan# 1196

Delta R.T. -0.353 min

Lab File: VL042296.D

Acq: 09 Apr 2025 16:57

Instrument :

MSVOA_L

ClientSampleId :

IA-B9-3-3242025

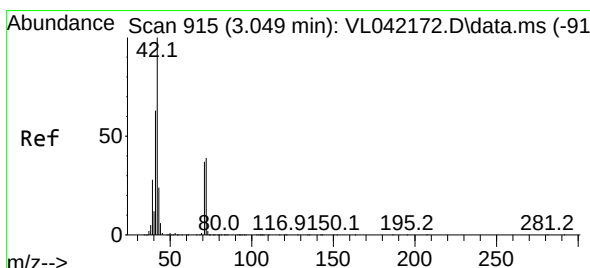
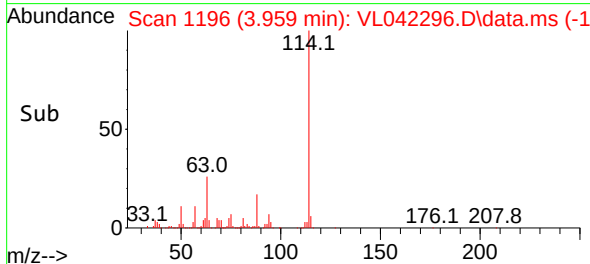
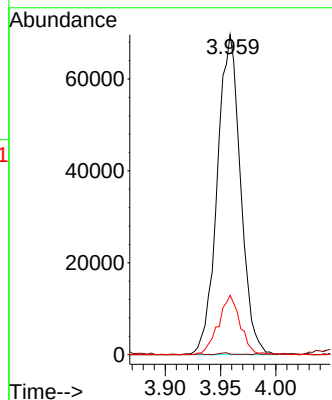
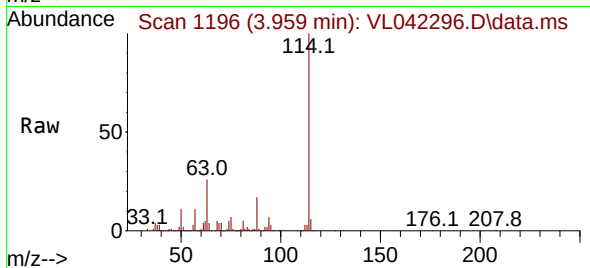
Tgt Ion: 63 Resp: 102058

Ion Ratio Lower Upper

63 100

41 0.2 61.7 92.5#

62 18.5 57.6 86.4#



#41

Tetrahydrofuran

Concen: 0.279 ppbv

RT: 3.062 min Scan# 919

Delta R.T. 0.013 min

Lab File: VL042296.D

Acq: 09 Apr 2025 16:57

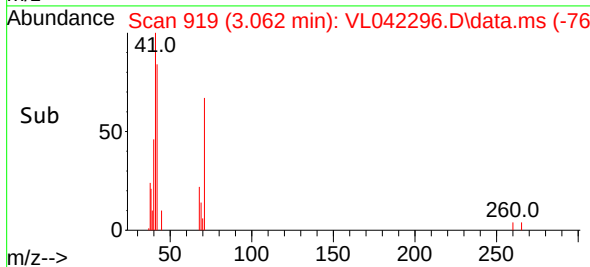
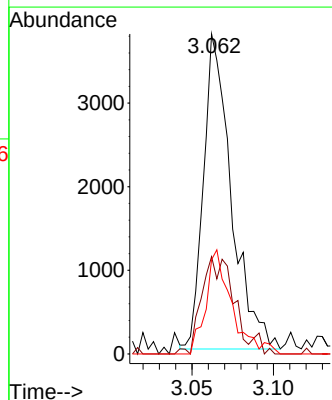
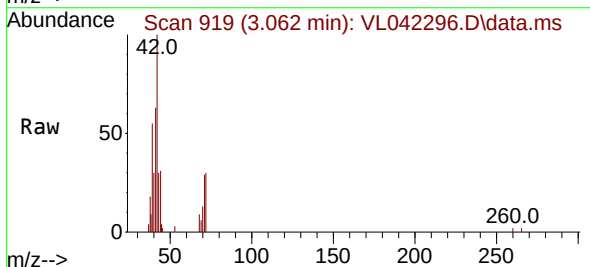
Tgt Ion: 42 Resp: 4483

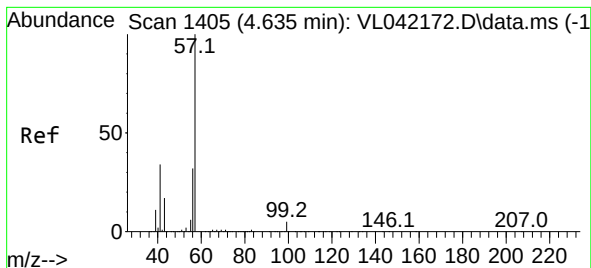
Ion Ratio Lower Upper

42 100

72 36.6 31.4 47.0

71 30.6 30.2 45.4





#44

2,2,4-Trimethylpentane

Concen: 0.031 ppbv

RT: 4.641 min Scan# 1405

Delta R.T. 0.006 min

Lab File: VL042296.D

Acq: 09 Apr 2025 16:57

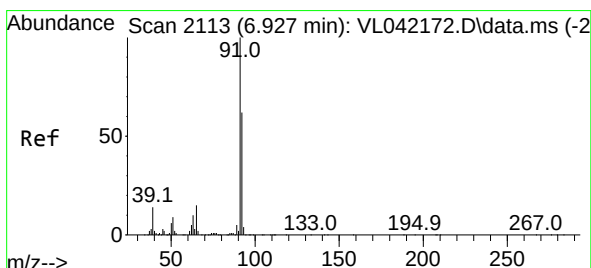
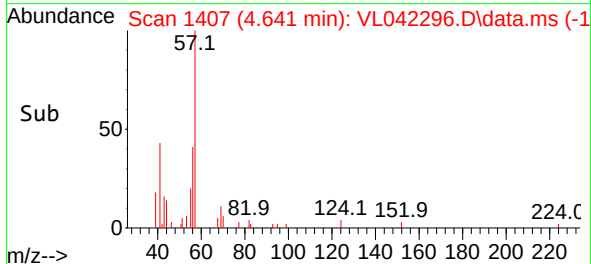
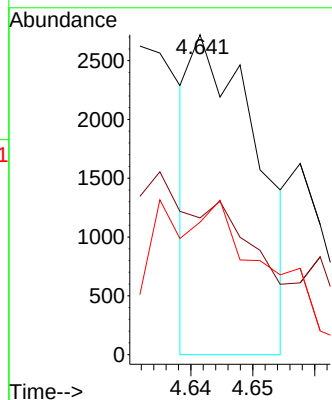
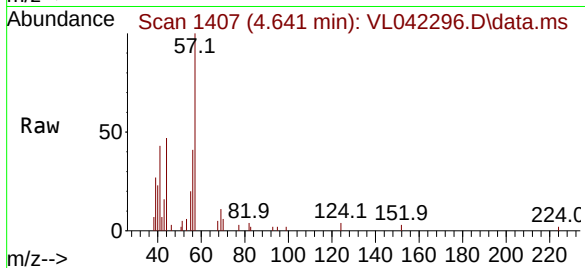
Instrument :

MSVOA_L

ClientSampleId :

IA-B9-3-3242025

Tgt Ion:	57	Resp:	2009
Ion	Ratio	Lower	Upper
57	100		
41	0.0	26.8	40.2#
56	0.0	25.6	38.4#



#53

Toluene

Concen: 0.532 ppbv

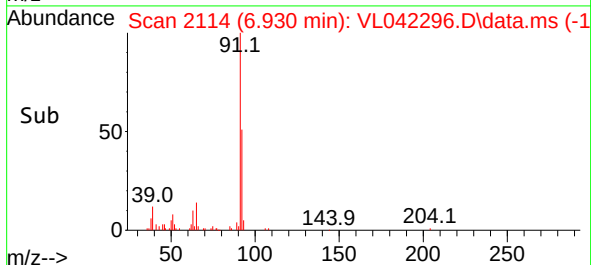
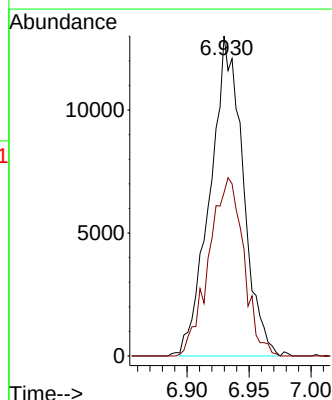
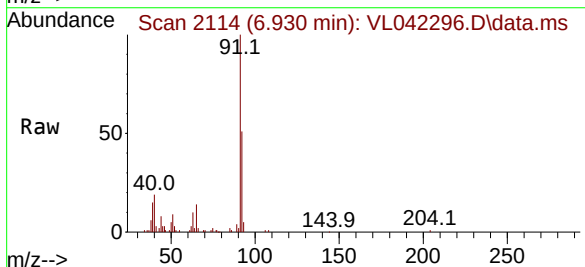
RT: 6.930 min Scan# 2114

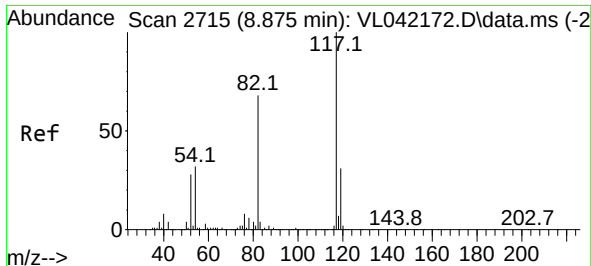
Delta R.T. 0.003 min

Lab File: VL042296.D

Acq: 09 Apr 2025 16:57

Tgt Ion:	91	Resp:	24055
Ion	Ratio	Lower	Upper
91	100		
92	58.8	48.4	72.6





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.878 min Scan# 2715

Delta R.T. 0.003 min

Lab File: VL042296.D

Acq: 09 Apr 2025 16:57

Instrument :

MSVOA_L

ClientSampleId :

IA-B9-3-3242025

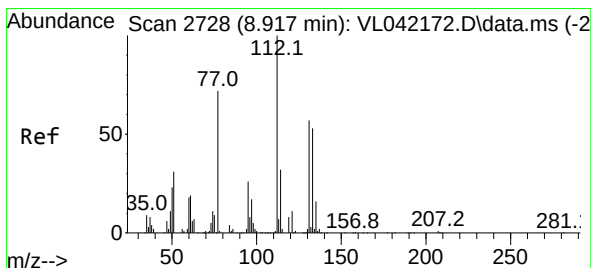
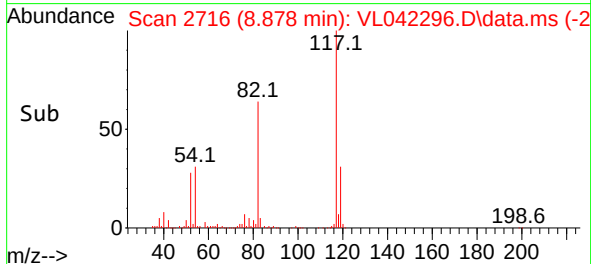
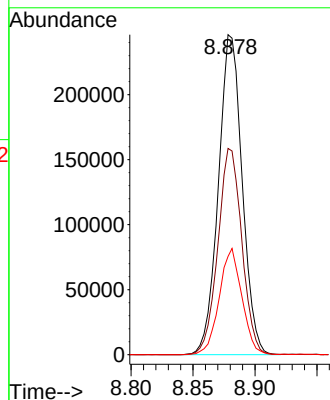
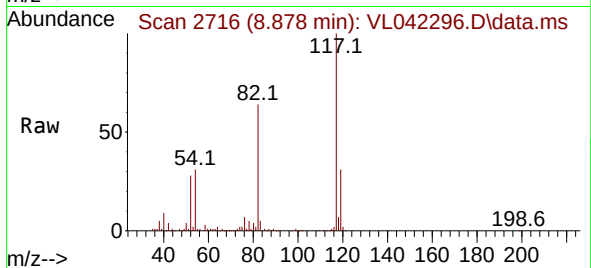
Tgt Ion:117 Resp: 329132

Ion Ratio Lower Upper

117 100

82 64.9 55.8 83.6

119 31.8 25.5 38.3



#57

Chlorobenzene

Concen: 0.062 ppbv

RT: 8.920 min Scan# 2729

Delta R.T. 0.003 min

Lab File: VL042296.D

Acq: 09 Apr 2025 16:57

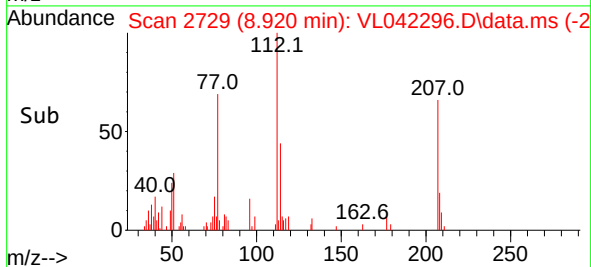
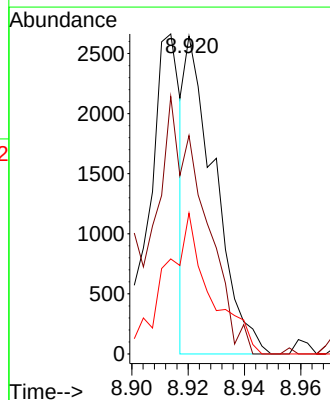
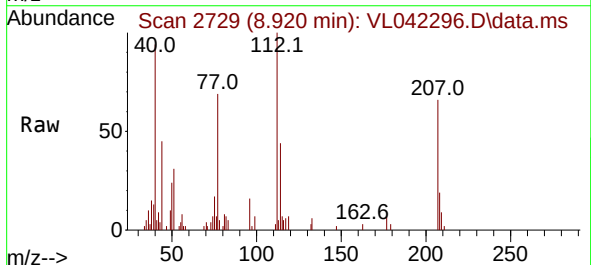
Tgt Ion:112 Resp: 1926

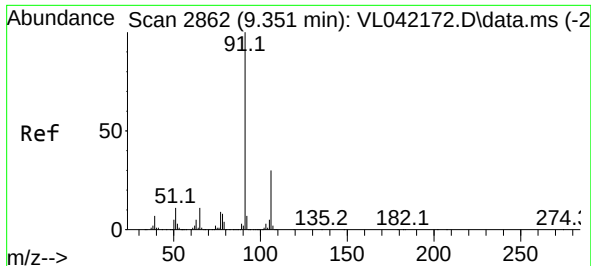
Ion Ratio Lower Upper

112 100

77 65.6 58.2 87.2

114 42.3 29.1 35.5#

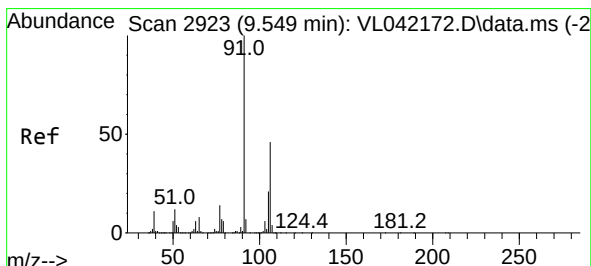
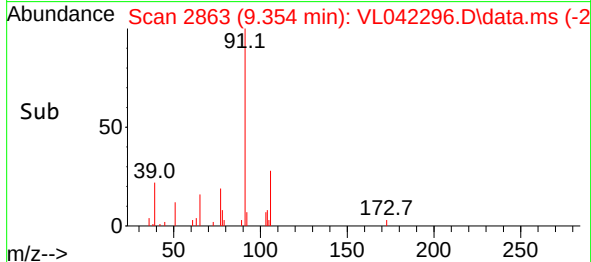
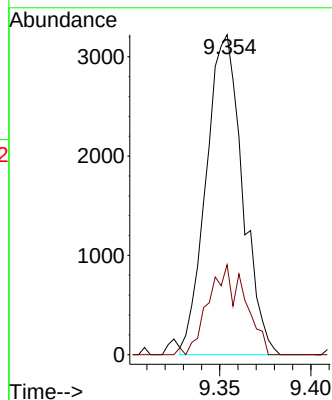
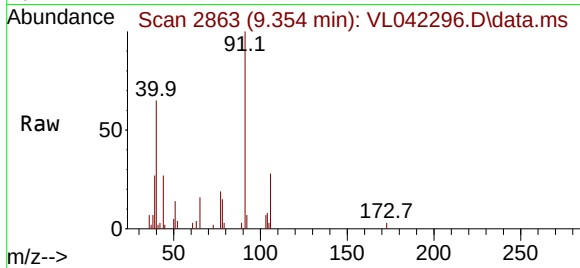




#58
Ethyl Benzene
Concen: 0.076 ppbv
RT: 9.354 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

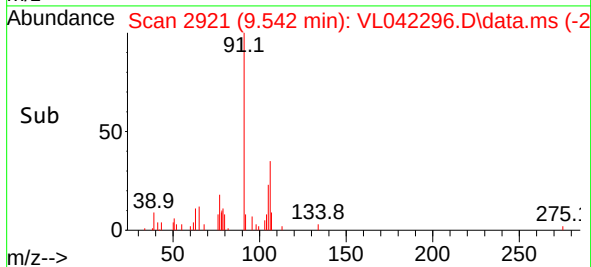
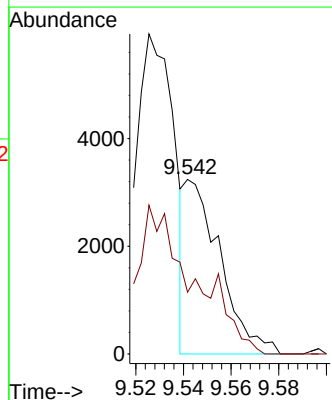
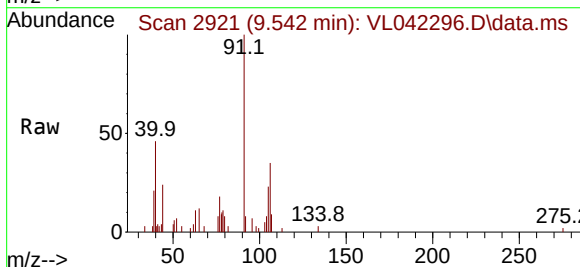
Instrument :
MSVOA_L
ClientSampleId :
IA-B9-3-3242025

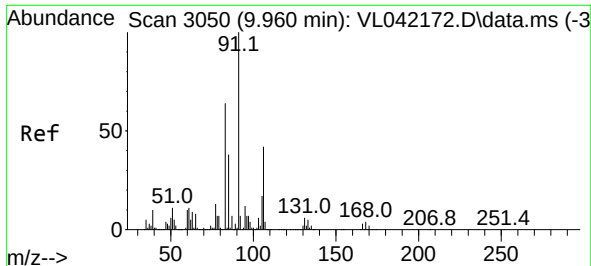
Tgt Ion: 91 Resp: 4472
Ion Ratio Lower Upper
91 100
106 28.1 24.2 36.2



#59
m/p-Xylene
Concen: 0.072 ppbv
RT: 9.542 min Scan# 2921
Delta R.T. -0.007 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

Tgt Ion: 91 Resp: 3344
Ion Ratio Lower Upper
91 100
106 0.0 36.4 54.6#

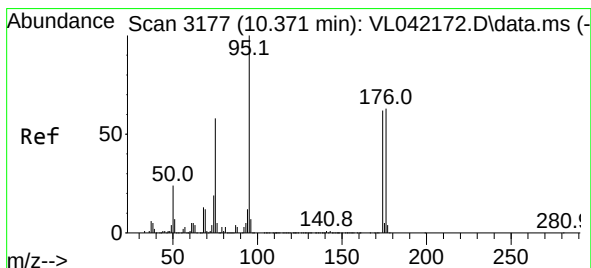
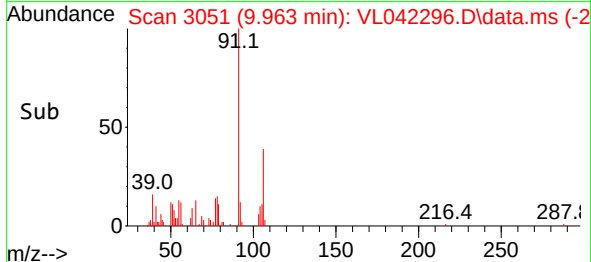
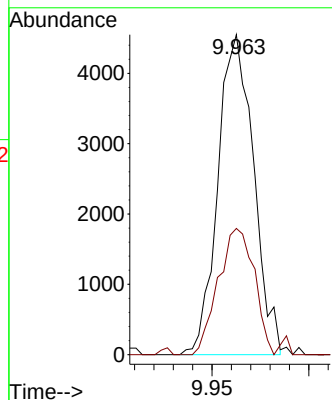
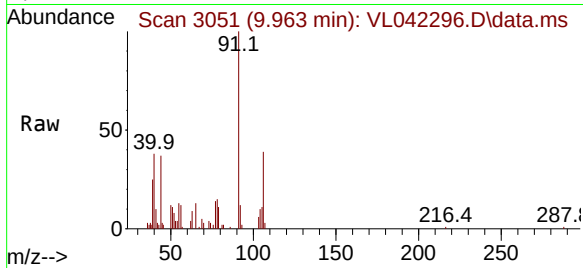




#60
o-Xylene
Concen: 0.125 ppbv
RT: 9.963 min Scan# 3050
Delta R.T. 0.003 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

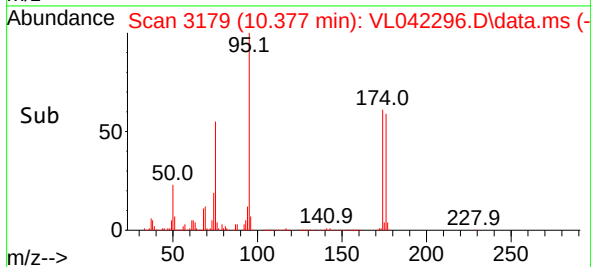
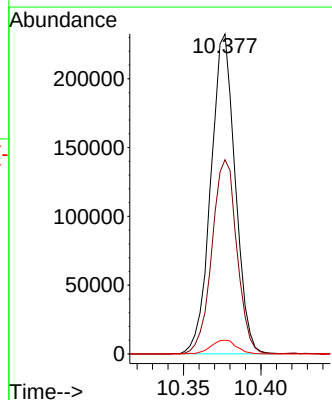
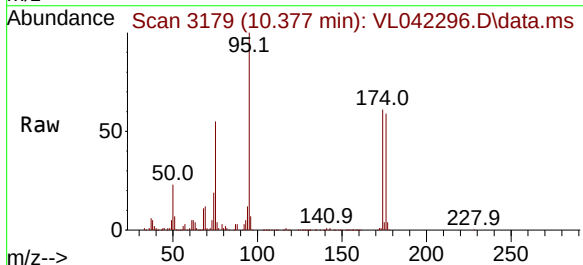
Instrument :
MSVOA_1
ClientSampleId :
IA-B9-3-3242025

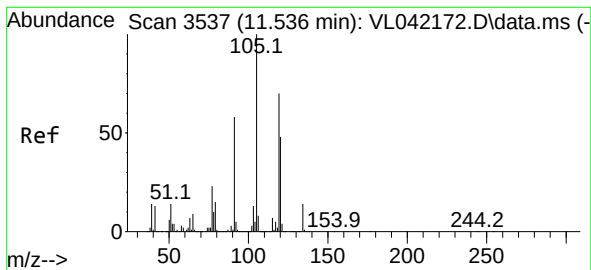
Tgt Ion: 91 Resp: 5830
Ion Ratio Lower Upper
91 100
106 41.2 20.8 62.5



#68
1-Bromo-4-Fluorobenzene
Concen: 9.393 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.006 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

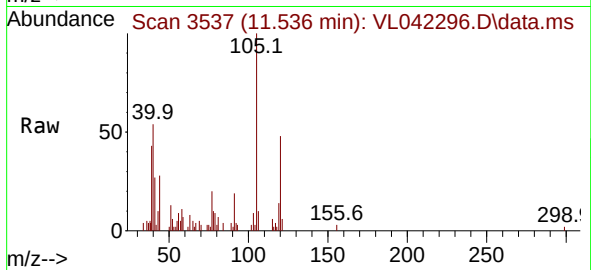
Tgt Ion: 95 Resp: 253889
Ion Ratio Lower Upper
95 100
174 62.7 50.6 76.0
175 4.6 3.8 5.6



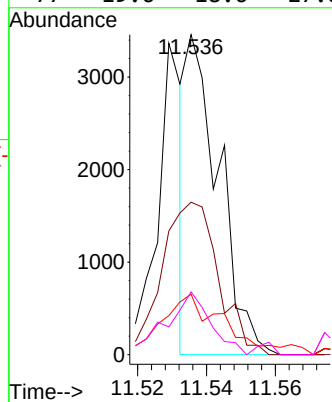
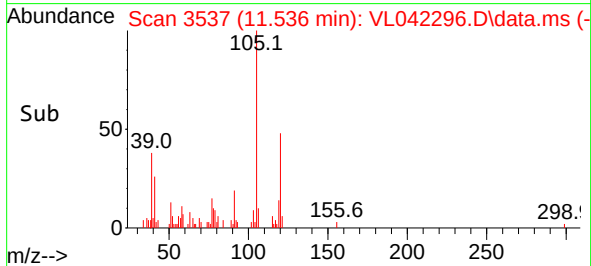


#74
 1,2,4-Trimethylbenzene
 Concen: 0.039 ppbv
 RT: 11.536 min Scan# 31
 Delta R.T. -0.000 min
 Lab File: VL042296.D
 Acq: 09 Apr 2025 16:57

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B9-3-3242025



Tgt Ion:	105	Resp:	2269
Ion	Ratio	Lower	Upper
105	100		
120	47.6	38.6	58.0
91	16.6	46.2	69.2#
77	19.6	18.6	27.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
 Data File : VL042312.D
 Acq On : 11 Apr 2025 09:50
 Operator : SY/MD
 Sample : VSTDC0010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDC0010

Quant Time: Apr 11 22:56:21 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	183700	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	463746	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	401340	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	318204	9.655	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.500%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	264775	9.762	ppbv	100
3) Chlorodifluoromethane	1.476	51	287991	10.394	ppbv	97
4) Chloromethane	1.531	50	111786	10.085	ppbv	98
5) Vinyl Chloride	1.580	62	102342	8.713	ppbv	95
6) Bromomethane	1.667	94	43054	8.571	ppbv	99
7) Chloroethane	1.703	64	41946	9.427	ppbv	98
8) Dichlorotetrafluoroethane	1.554	85	224489	9.719	ppbv	94
9) Propene	1.483	41	117677	9.266	ppbv	99
10) Heptane	4.981	43	334707	9.908	ppbv	100
11) Trichlorofluoromethane	1.877	101	250122	9.477	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.140	101	193510	8.920	ppbv	97
13) Ethanol	1.722	45	5849	4.872	ppbv	89
14) Bromoethene	1.780	108	73294	8.820	ppbv	100
15) Acetone	1.835	43	231724	9.019	ppbv	97
16) 1,3-Butadiene	1.609	39	112297	8.950	ppbv	97
17) tert-Butyl alcohol	2.039	59	255575	7.987	ppbv	99
18) 1,1-Dichloroethene	2.033	96	89512	8.827	ppbv	98
19) Isopropyl Alcohol	1.887	45	125233	8.639	ppbv	92
20) Methylene Chloride	2.062	84	76968	8.044	ppbv	93
21) Allyl Chloride	2.098	41	162998	8.996	ppbv	97
22) trans-1,2-Dichloroethene	2.340	96	101974	8.700	ppbv	95
23) Vinyl Acetate	2.463	43	95152	8.557	ppbv	99
24) 1,1-Dichloroethane	2.408	63	207862	9.567	ppbv	99
25) Ethyl Acetate	2.835	43	678920	10.182	ppbv	99
26) Hexane	2.826	57	256866	9.973	ppbv	98
27) Carbon Disulfide	2.149	76	243367	8.812	ppbv	98
28) Methyl tert-Butyl Ether	2.441	73	129141	8.053	ppbv	96
29) Chloroform	2.848	83	393638	10.443	ppbv	98
30) Cyclohexane	3.858	84	203526	9.100	ppbv	97
31) cis-1,2-Dichloroethene	2.722	61	247194	9.454	ppbv	97
32) 1,1,1-Trichloroethane	3.370	97	380312	8.813	ppbv	98
34) 2-Butanone	2.557	43	380682	11.321	ppbv	98
35) Carbon Tetrachloride	3.764	117	390140	10.769	ppbv	98
36) Benzene	3.658	78	506278	11.012	ppbv	97
37) 1,2-Dichloroethane	3.221	62	292183	11.101	ppbv	99
38) Trichloroethene	4.551	130	203156	10.591	ppbv	96
39) 1,2-Dichloropropane	4.315	63	185497	11.079	ppbv	97
40) 1,4-Dioxane	4.583	88	82376	9.270	ppbv #	98
41) Tetrahydrofuran	3.056	42	216646	11.188	ppbv	93
42) Bromodichloromethane	4.493	83	413250	11.389	ppbv	99
43) Methyl Methacrylate	4.884	69	184472	9.478	ppbv	96
44) 2,2,4-Trimethylpentane	4.642	57	872871	11.235	ppbv	98
45) t-1,3-Dichloropropene	6.422	75	176804	8.467	ppbv	97

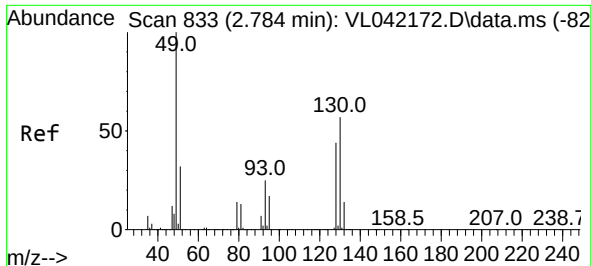
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 Acq On : 11 Apr 2025 09:50
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Quant Time: Apr 11 22:56:21 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)
46) cis-1,3-Dichloropropene	5.603	75	236039	9.222	ppbv	99
47) 1,1,2-Trichloroethane	6.583	97	202891	11.463	ppbv	98
48) Dibromochloromethane	7.389	129	333128	11.106	ppbv	99
49) Bromoform	9.484	173	294489	10.935	ppbv	100
50) 4-Methyl-2-Pentanone	5.755	43	531851	9.980	ppbv	95
51) 2-Hexanone	7.438	43	424035	9.689	ppbv #	94
52) Tetrachloroethene	8.224	164	170989	9.378	ppbv	97
53) Toluene	6.936	91	547579	10.048	ppbv	99
54) 1,2-Dibromoethane	7.655	107	267225	10.831	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.927	131	271350	12.283	ppbv	100
57) Chlorobenzene	8.924	112	460598	12.099	ppbv	98
58) Ethyl Benzene	9.357	91	779227	10.931	ppbv	98
59) m/p-Xylene	9.552	91	686600	12.062	ppbv #	31
60) o-Xylene	9.966	91	660065	11.567	ppbv	96
61) Styrene	9.872	104	291355	10.320	ppbv	99
62) Isopropylbenzene	10.542	105	988337	11.582	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.966	83	446341	12.873	ppbv	99
64) n-propylbenzene	10.992	120	268681	12.231	ppbv	97
65) tert-Butylbenzene	11.532	119	932850	11.820	ppbv	98
66) Benzyl Chloride	11.616	91	68675	8.201	ppbv	99
67) sec-Butylbenzene	11.769	105	1310042	11.942	ppbv	100
69) p-Isopropyltoluene	11.927	119	1107045	11.720	ppbv	99
70) n-Butylbenzene	12.283	91	1144571	11.848	ppbv	99
71) 2-Chlorotoluene	10.904	91	756562	11.423	ppbv	98
72) 4-Ethyltoluene	11.128	105	847821	11.932	ppbv	99
73) 1,3,5-Trimethylbenzene	11.205	105	729887	11.762	ppbv	99
74) 1,2,4-Trimethylbenzene	11.539	105	819490	11.463	ppbv	92
75) 1,3-Dichlorobenzene	11.610	146	492549	12.562	ppbv	99
76) 1,4-Dichlorobenzene	11.675	146	488636	12.522	ppbv	98
77) 1,2-Dichlorobenzene	11.950	146	494739	12.959	ppbv	98
78) Hexachloro-1,3-Butadiene	13.882	225	373025	9.599	ppbv	99
79) Naphthalene	13.516	128	824947	10.550	ppbv	100
80) Naphthalene,2-methyl-	14.458	142	276556	7.212	ppbv	98
81) 1,2,4-Trichlorobenzene	13.442	180	374714	10.389	ppbv	99

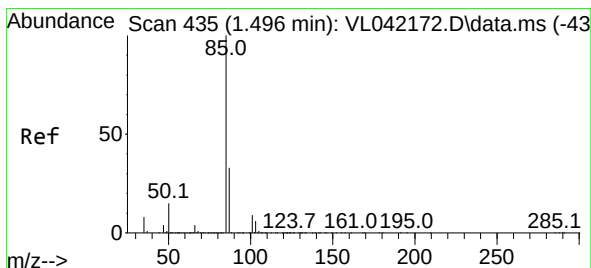
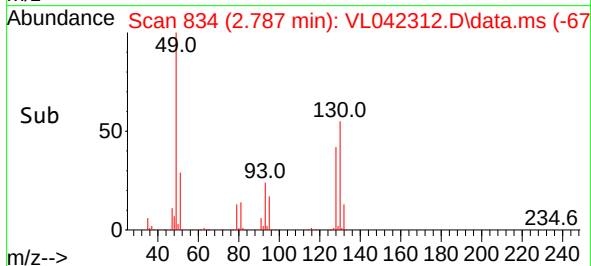
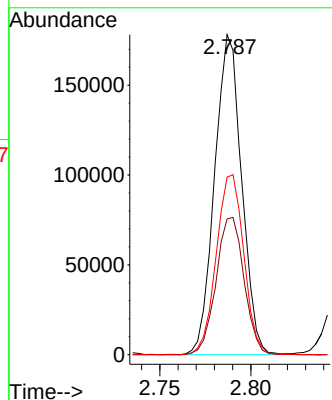
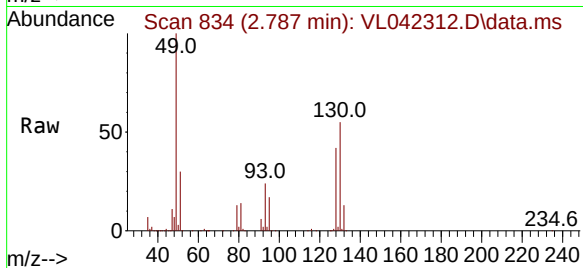
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.787 min Scan# 81
 Delta R.T. 0.003 min
 Lab File: VL042312.D
 Acq: 11 Apr 2025 09:50

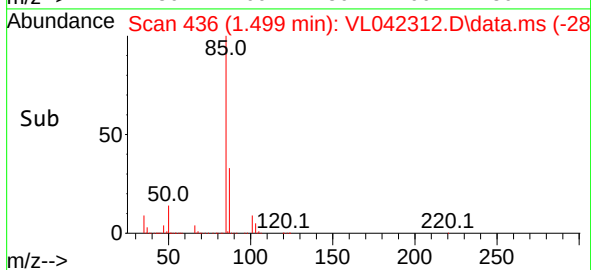
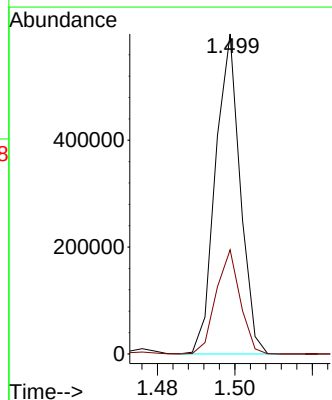
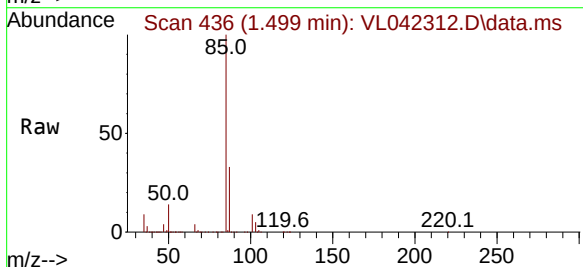
Instrument :
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 ClientSampleId :
 VSTDCCC010

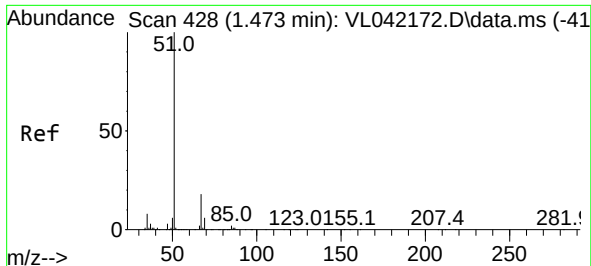
Tgt Ion: 49 Resp: 183700
 Ion Ratio Lower Upper
 49 100
 128 44.4 22.9 68.5
 130 57.3 28.8 86.4



#2
 Dichlorodifluoromethane
 Concen: 9.762 ppbv
 RT: 1.499 min Scan# 436
 Delta R.T. 0.003 min
 Lab File: VL042312.D
 Acq: 11 Apr 2025 09:50

Tgt Ion: 85 Resp: 264775
 Ion Ratio Lower Upper
 85 100
 87 32.5 26.1 39.1

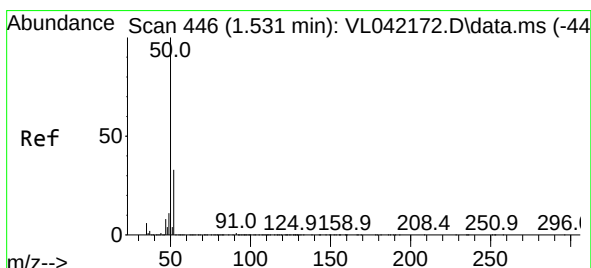
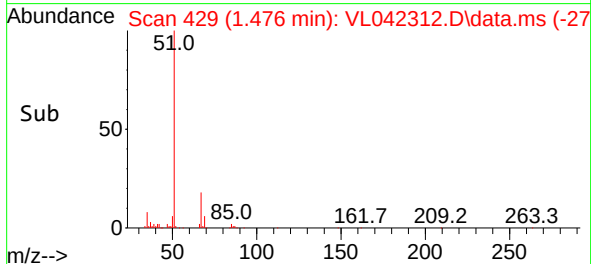
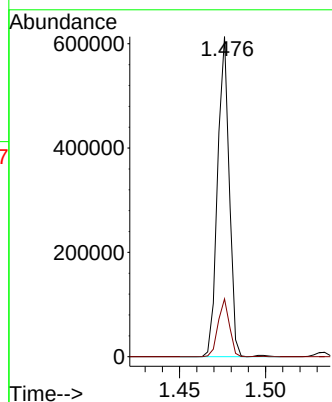
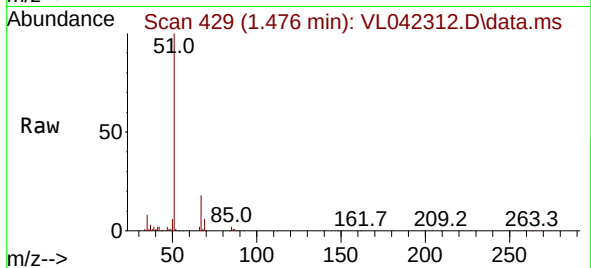




#3
Chlorodifluoromethane
Concen: 10.394 ppbv
RT: 1.476 min Scan# 428
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

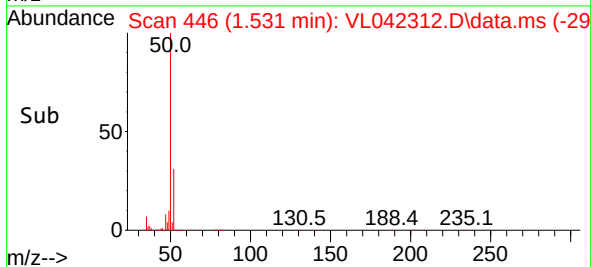
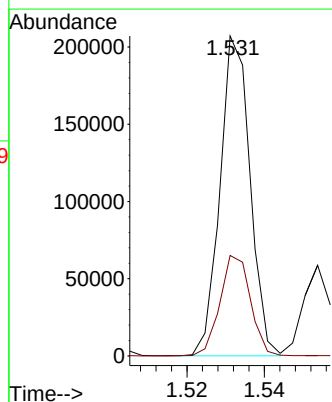
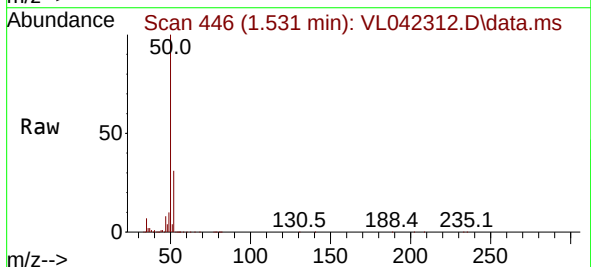
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

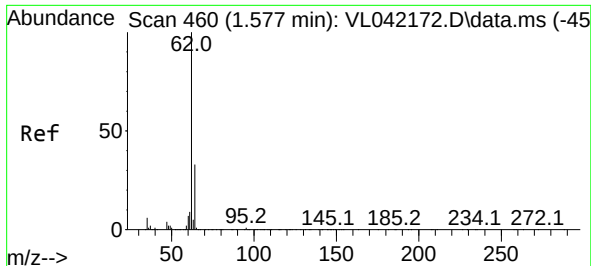
Tgt Ion: 51 Resp: 287991
Ion Ratio Lower Upper
51 100
67 17.6 15.0 22.6



#4
Chloromethane
Concen: 10.085 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 50 Resp: 111786
Ion Ratio Lower Upper
50 100
52 31.3 26.1 39.1

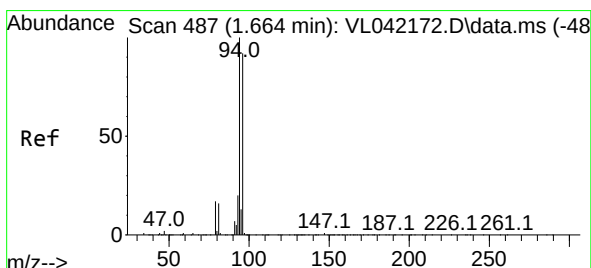
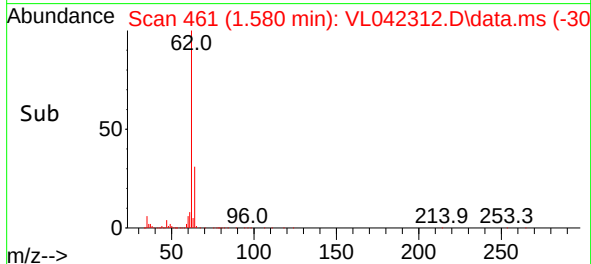
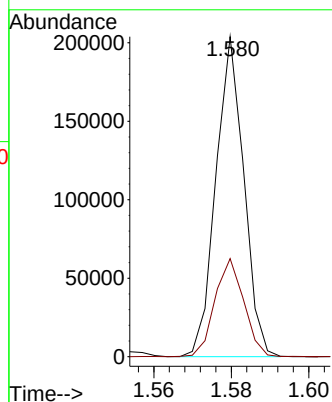
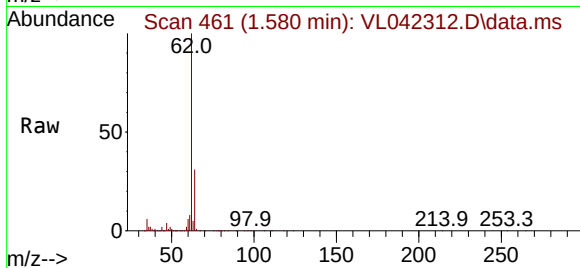




#5
 Vinyl Chloride
 Concen: 8.713 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. 0.003 min
 Lab File: VL042312.D
 Acq: 11 Apr 2025 09:50

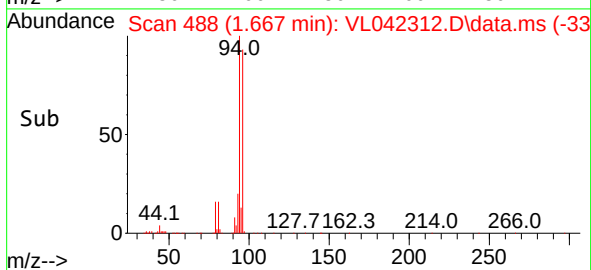
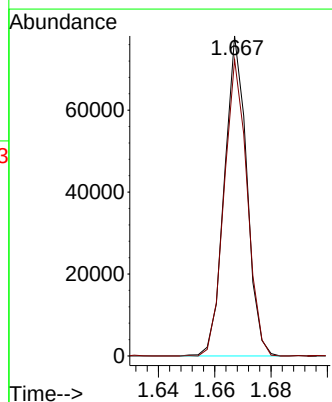
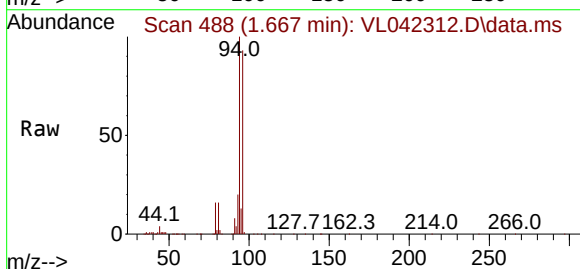
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDCCC010

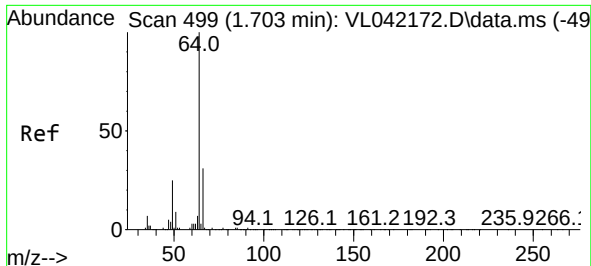
Tgt Ion: 62 Resp: 102342
 Ion Ratio Lower Upper
 62 100
 64 30.6 26.6 40.0



#6
 Bromomethane
 Concen: 8.571 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. 0.003 min
 Lab File: VL042312.D
 Acq: 11 Apr 2025 09:50

Tgt Ion: 94 Resp: 43054
 Ion Ratio Lower Upper
 94 100
 96 92.7 73.1 109.7

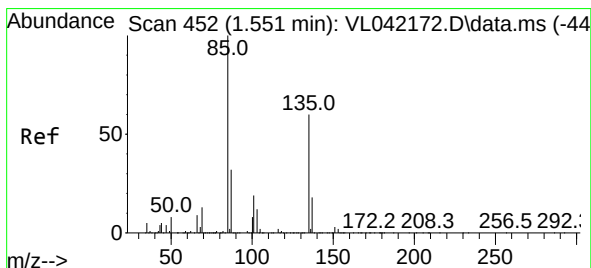
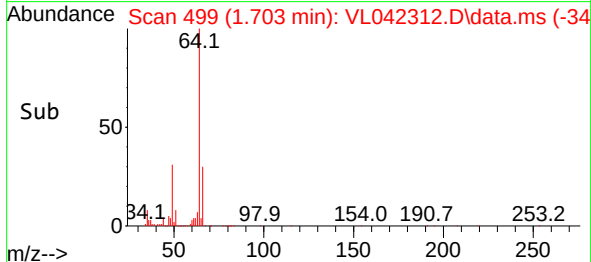
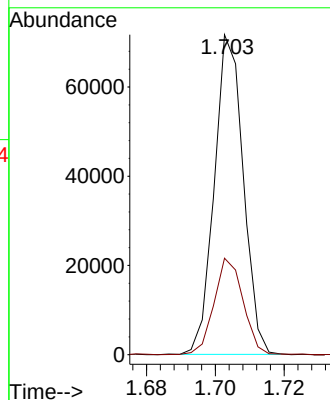
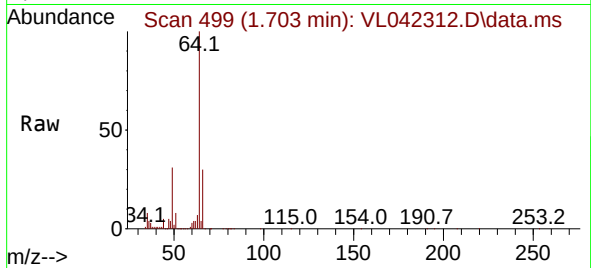




#7
Chloroethane
Concen: 9.427 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

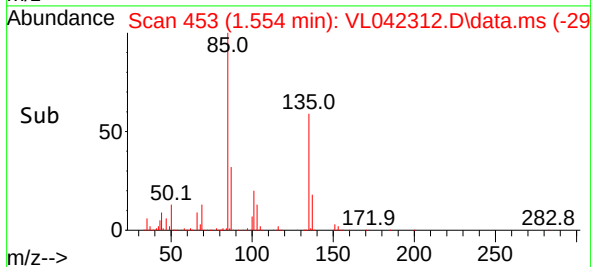
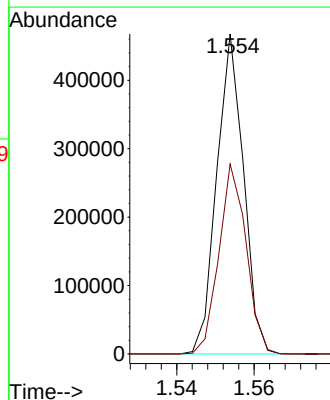
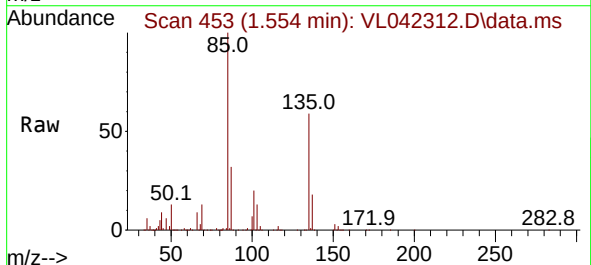
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

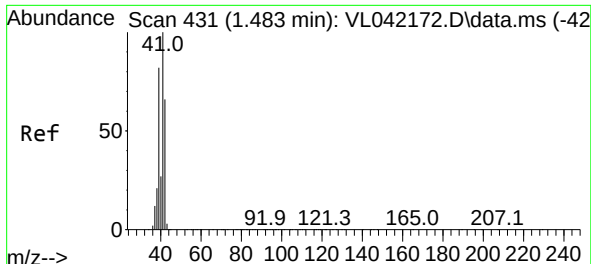
Tgt Ion: 64 Resp: 41946
Ion Ratio Lower Upper
64 100
66 30.1 25.2 37.8



#8
Dichlorotetrafluoroethane
Concen: 9.719 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 85 Resp: 224489
Ion Ratio Lower Upper
85 100
135 60.5 52.4 78.6

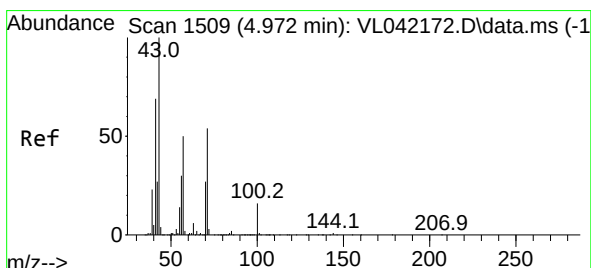
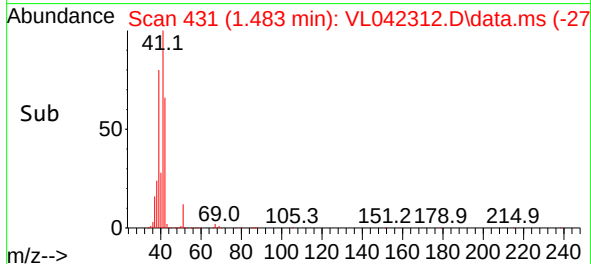
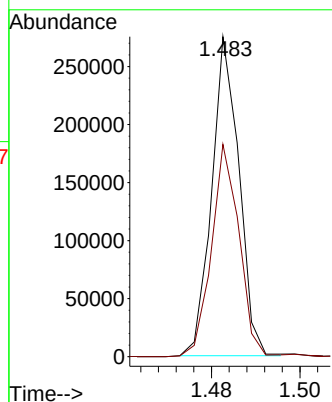
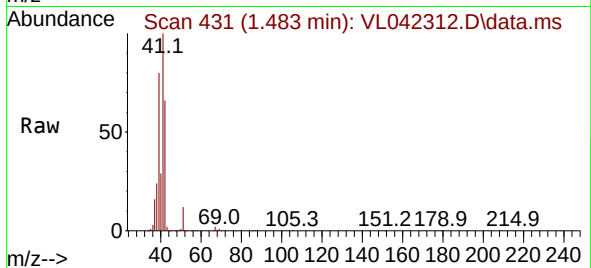




#9
 Propene
 Concen: 9.266 ppbv
 RT: 1.483 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VL042312.D
 Acq: 11 Apr 2025 09:50

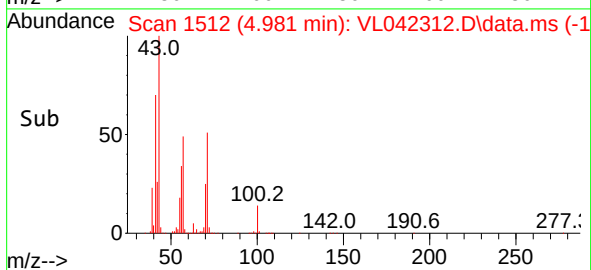
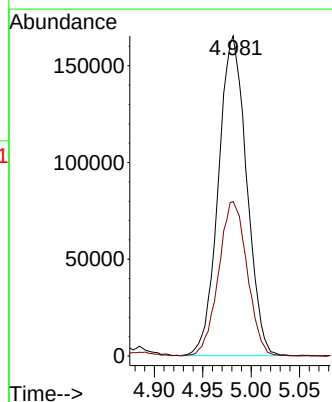
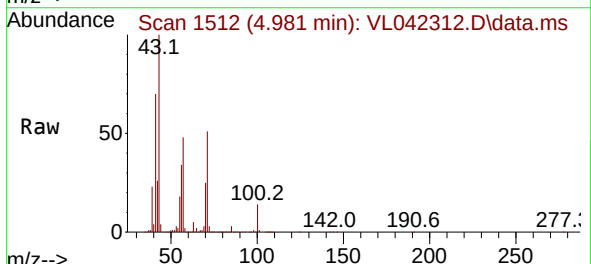
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

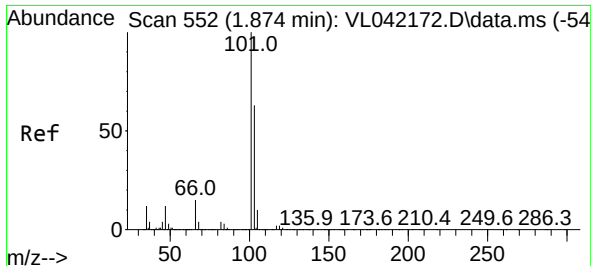
Tgt Ion: 41 Resp: 117677
 Ion Ratio Lower Upper
 41 100
 42 68.3 55.4 83.2



#10
 Heptane
 Concen: 9.908 ppbv
 RT: 4.981 min Scan# 1512
 Delta R.T. 0.009 min
 Lab File: VL042312.D
 Acq: 11 Apr 2025 09:50

Tgt Ion: 43 Resp: 334707
 Ion Ratio Lower Upper
 43 100
 57 49.0 39.4 59.2

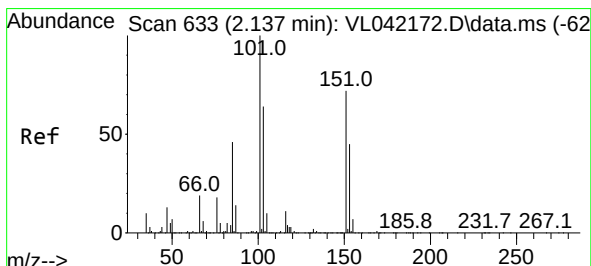
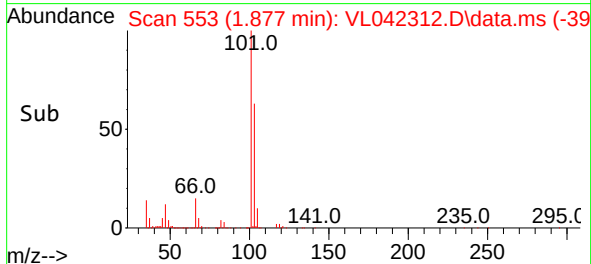
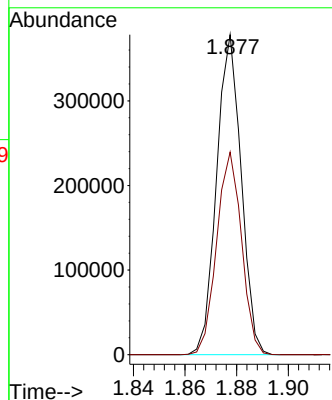
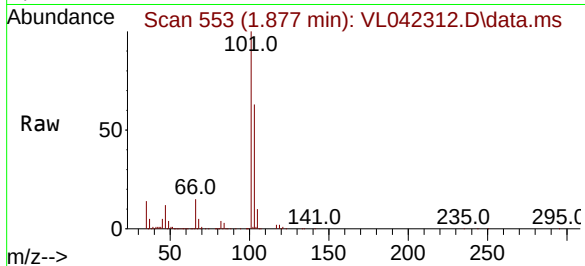




#11
Trichlorofluoromethane
Concen: 9.477 ppbv
RT: 1.877 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

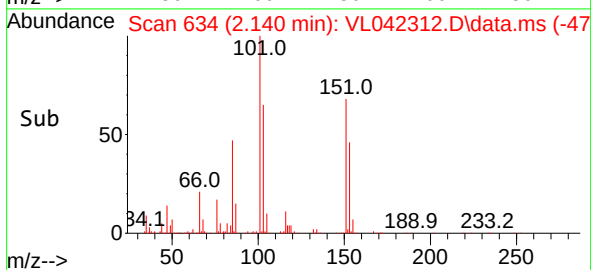
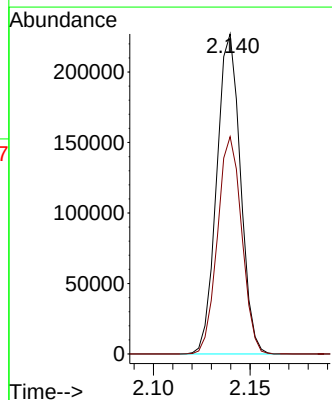
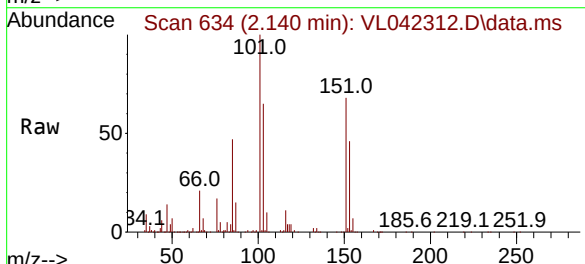
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

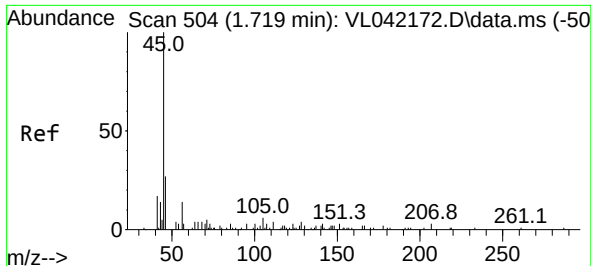
Tgt Ion:101 Resp: 250122
Ion Ratio Lower Upper
101 100
103 63.3 50.2 75.2



#12
1,1,2-Trichlorotrifluoroethane
Concen: 8.920 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion:101 Resp: 193510
Ion Ratio Lower Upper
101 100
151 69.2 57.1 85.7





#13

Ethanol

Concen: 4.872 ppbv

RT: 1.722 min Scan# 504

Delta R.T. 0.003 min

Lab File: VL042312.D

Acq: 11 Apr 2025 09:50

Instrument :

MSVOA_L

ClientSampleId :

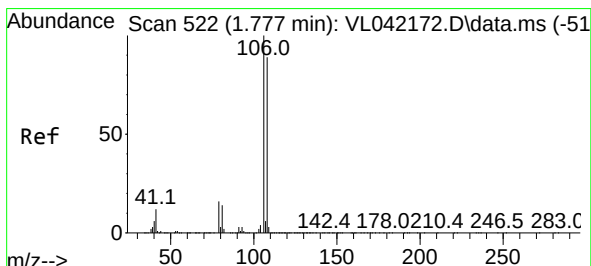
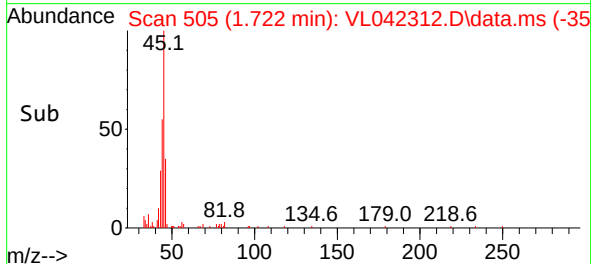
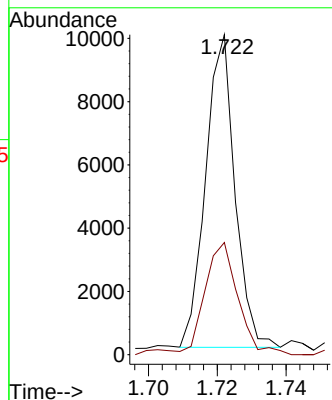
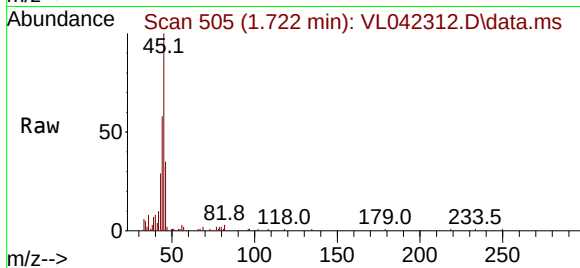
VSTDCCC010

Tgt Ion: 45 Resp: 5849

Ion Ratio Lower Upper

45 100

46 43.0 20.2 80.8



#14

Bromoethene

Concen: 8.820 ppbv

RT: 1.780 min Scan# 523

Delta R.T. 0.003 min

Lab File: VL042312.D

Acq: 11 Apr 2025 09:50

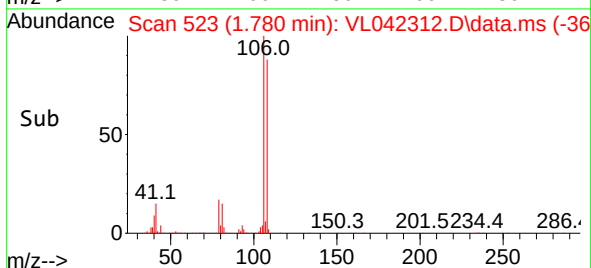
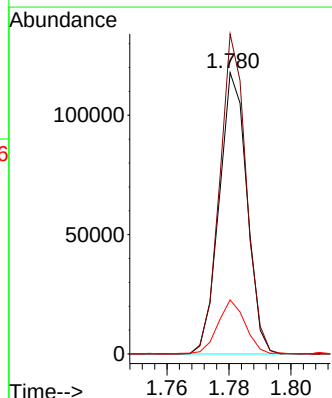
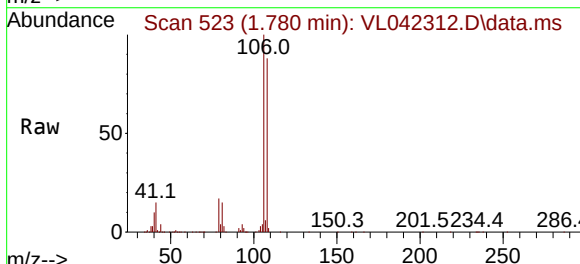
Tgt Ion: 108 Resp: 73294

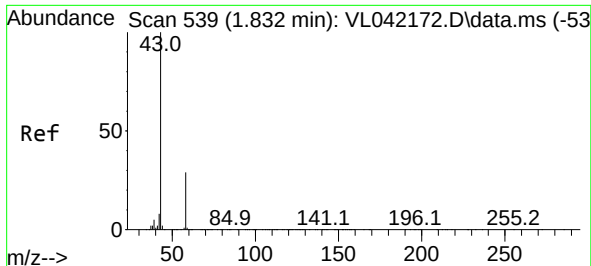
Ion Ratio Lower Upper

108 100

106 108.4 86.8 130.2

79 19.5 15.0 22.6

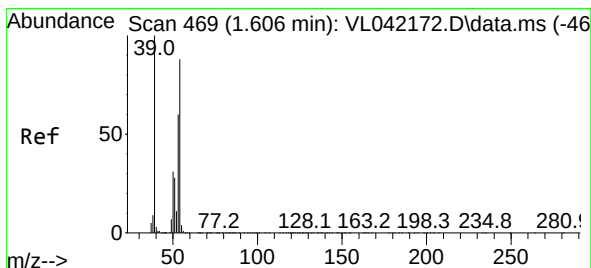
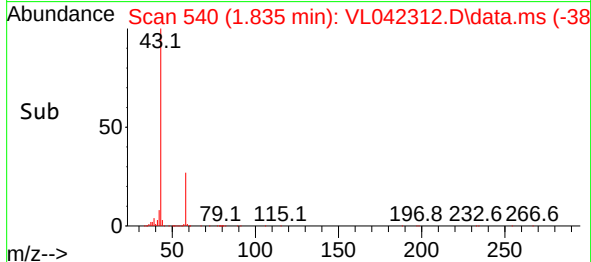
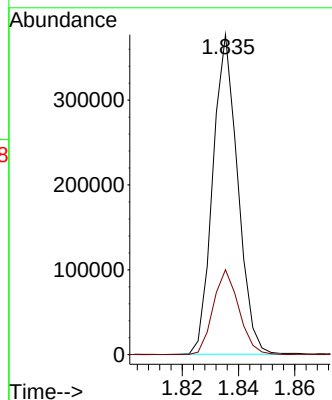
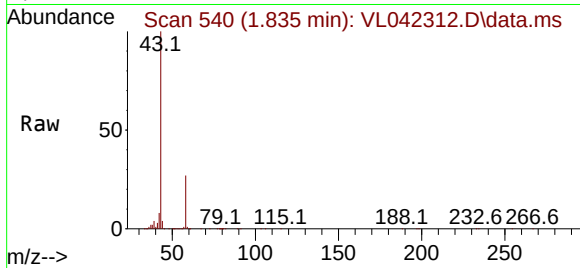




#15
Acetone
Concen: 9.019 ppbv
RT: 1.835 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

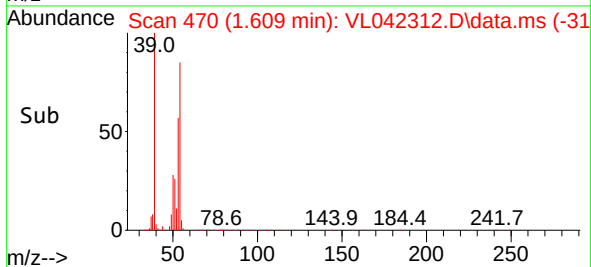
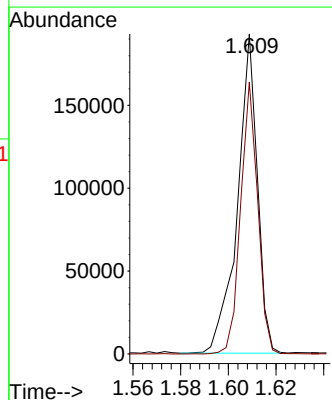
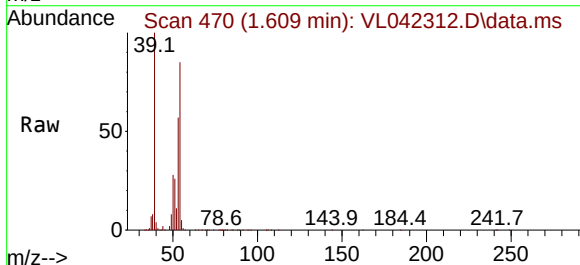
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

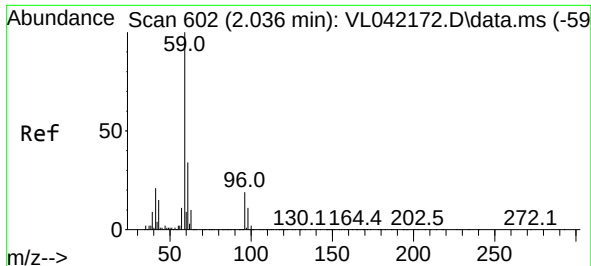
Tgt Ion: 43 Resp: 231724
Ion Ratio Lower Upper
43 100
58 27.5 23.2 34.8



#16
1,3-Butadiene
Concen: 8.950 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 39 Resp: 112297
Ion Ratio Lower Upper
39 100
54 73.5 60.7 91.1





#17

tert-Butyl alcohol

Concen: 7.987 ppbv

RT: 2.039 min Scan# 602

Delta R.T. 0.003 min

Lab File: VL042312.D

Acq: 11 Apr 2025 09:50

Instrument :

MSVOA_1

ClientSampleId :

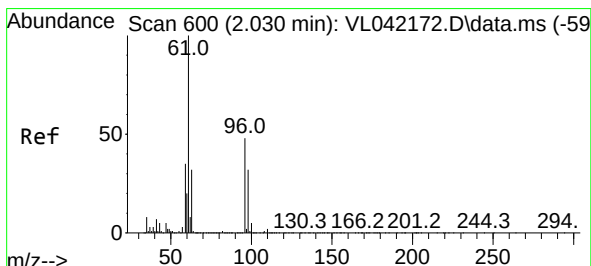
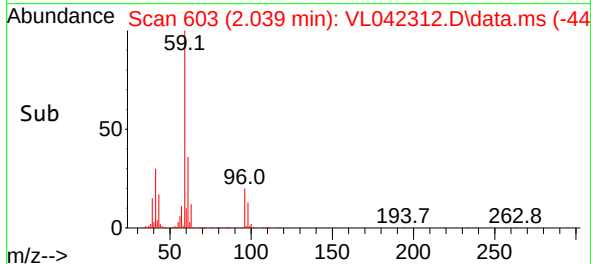
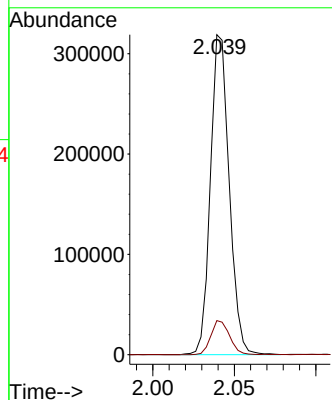
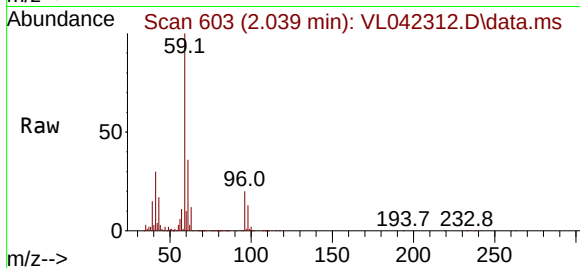
VSTDCCC010

Tgt Ion: 59 Resp: 255575

Ion Ratio Lower Upper

59 100

57 10.6 8.9 13.3



#18

1,1-Dichloroethene

Concen: 8.827 ppbv

RT: 2.033 min Scan# 601

Delta R.T. 0.003 min

Lab File: VL042312.D

Acq: 11 Apr 2025 09:50

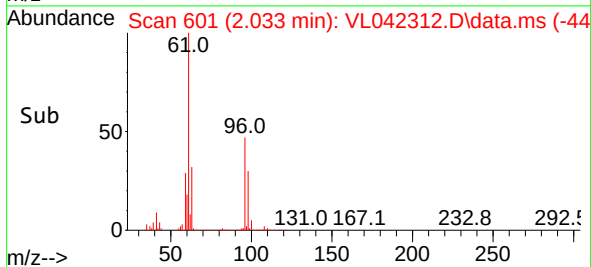
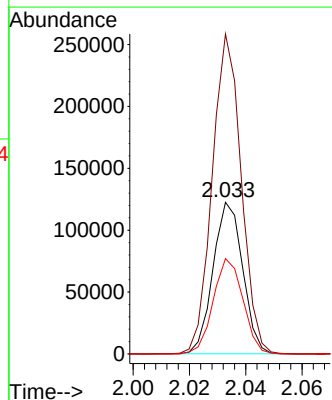
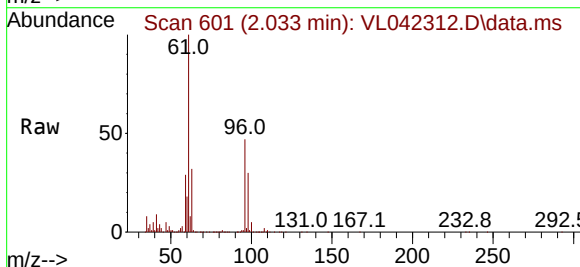
Tgt Ion: 96 Resp: 89512

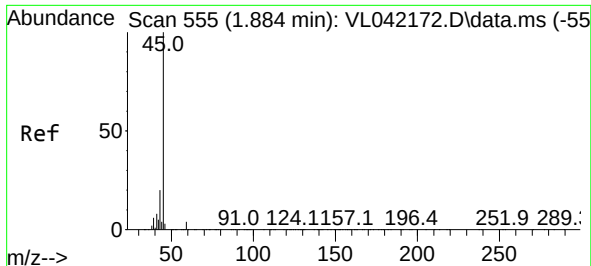
Ion Ratio Lower Upper

96 100

61 210.8 167.6 251.4

98 62.9 53.5 80.3

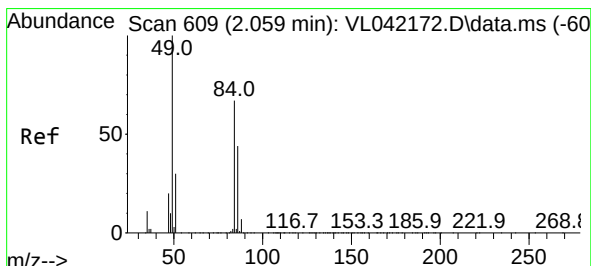
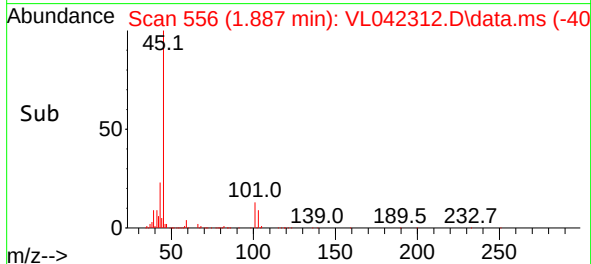
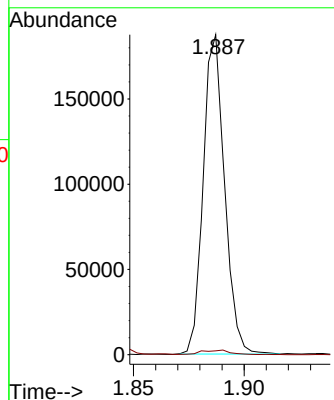
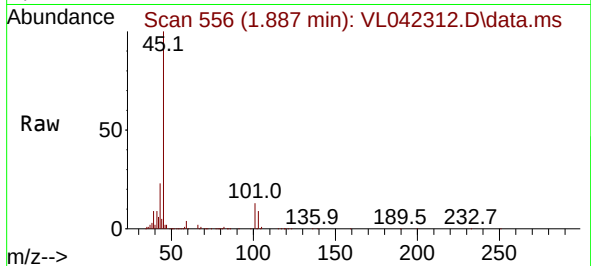




#19
Isopropyl Alcohol
Concen: 8.639 ppbv
RT: 1.887 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

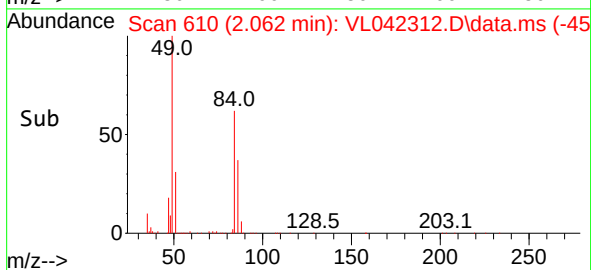
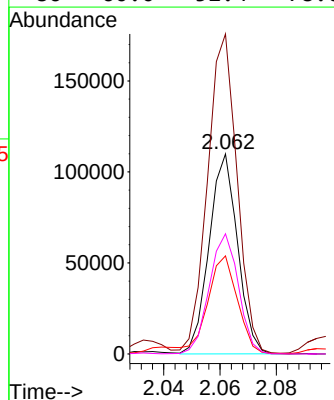
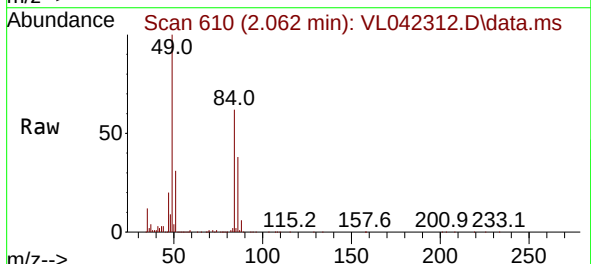
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

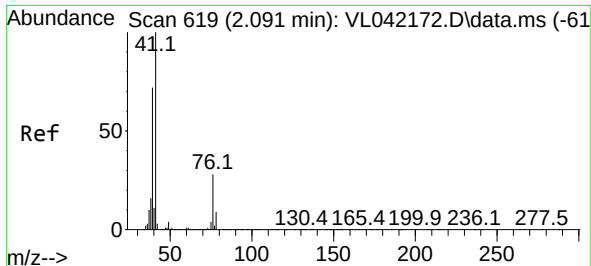
Tgt Ion: 45 Resp: 125233
Ion Ratio Lower Upper
45 100
58 51.2 36.9 55.3



#20
Methylene Chloride
Concen: 8.044 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 84 Resp: 76968
Ion Ratio Lower Upper
84 100
49 159.9 120.2 180.4
51 48.8 37.4 56.0
86 60.0 52.4 78.6

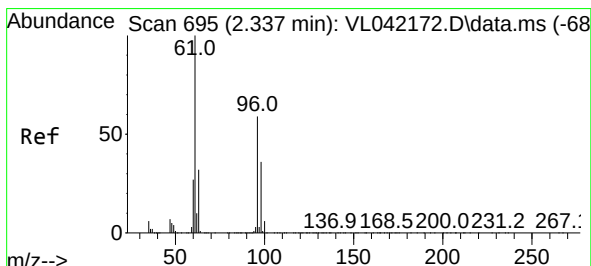
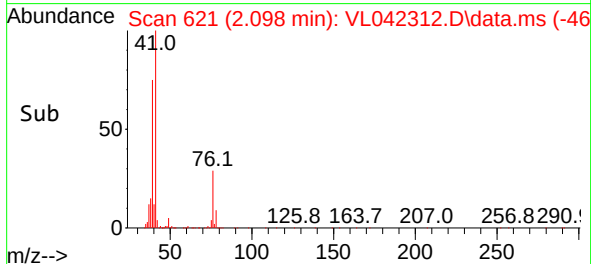
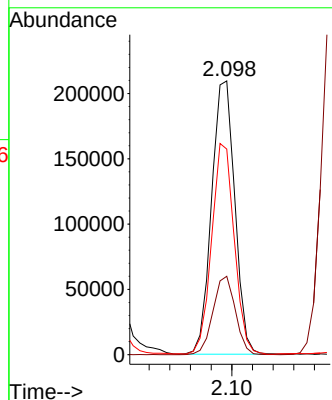
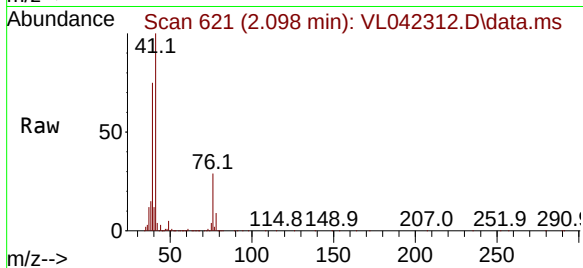




#21
 Allyl Chloride
 Concen: 8.996 ppbv
 RT: 2.098 min Scan# 619
 Delta R.T. 0.006 min
 Lab File: VL042312.D
 Acq: 11 Apr 2025 09:50

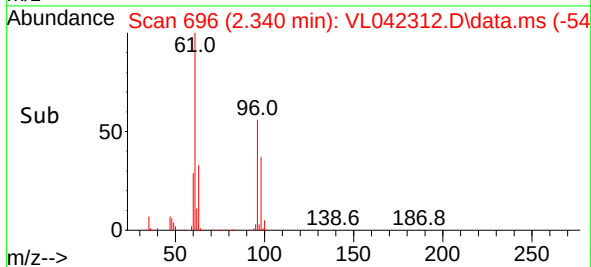
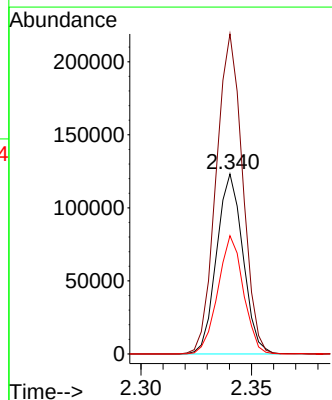
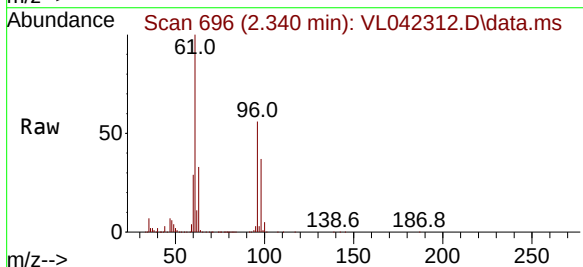
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

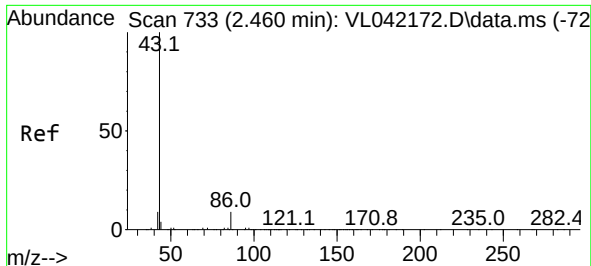
Tgt Ion: 41 Resp: 162998
 Ion Ratio Lower Upper
 41 100
 76 27.7 24.1 36.1
 39 74.5 61.1 91.7



#22
 trans-1,2-Dichloroethene
 Concen: 8.700 ppbv
 RT: 2.340 min Scan# 696
 Delta R.T. 0.003 min
 Lab File: VL042312.D
 Acq: 11 Apr 2025 09:50

Tgt Ion: 96 Resp: 101974
 Ion Ratio Lower Upper
 96 100
 61 177.7 136.6 204.8
 98 65.6 49.4 74.2

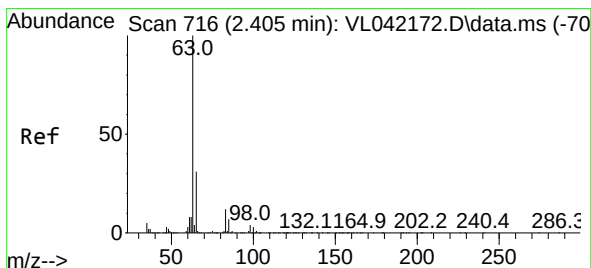
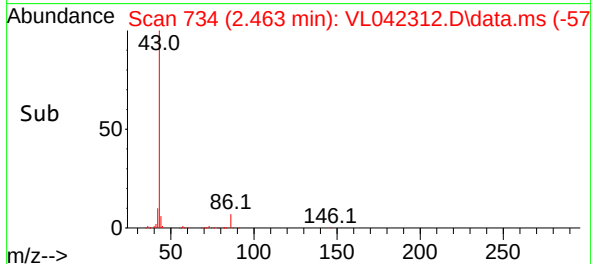
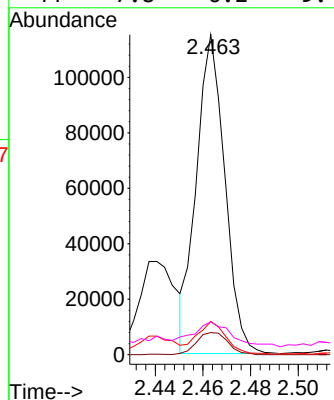
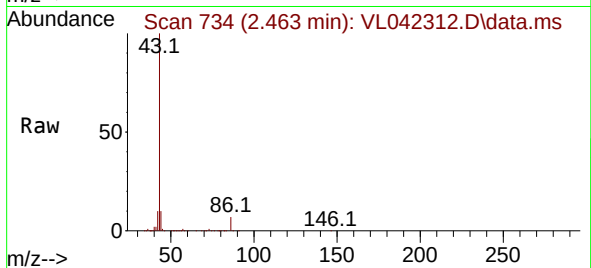




#23
 Vinyl Acetate
 Concen: 8.557 ppbv
 RT: 2.463 min Scan# 716
 Delta R.T. 0.003 min
 Lab File: VL042312.D
 Acq: 11 Apr 2025 09:50

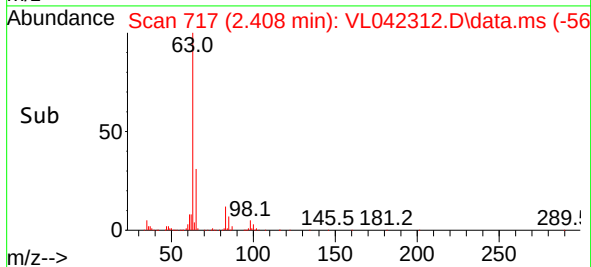
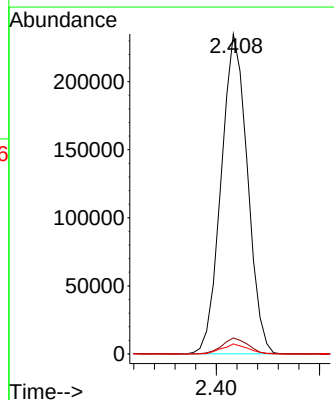
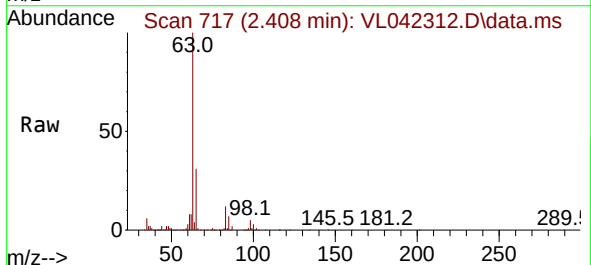
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDCCC010

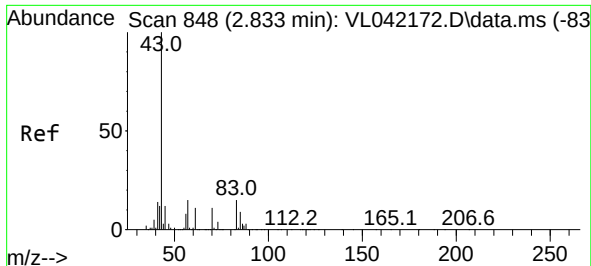
Tgt Ion:	43	Resp:	95152
Ion	Ratio	Lower	Upper
43	100		
86	6.9	5.5	8.3
42	10.1	8.6	13.0
44	7.8	6.2	9.4



#24
 1,1-Dichloroethane
 Concen: 9.567 ppbv
 RT: 2.408 min Scan# 717
 Delta R.T. 0.003 min
 Lab File: VL042312.D
 Acq: 11 Apr 2025 09:50

Tgt Ion:	63	Resp:	207862
Ion	Ratio	Lower	Upper
63	100		
98	5.0	2.3	6.8
100	3.2	1.6	4.7



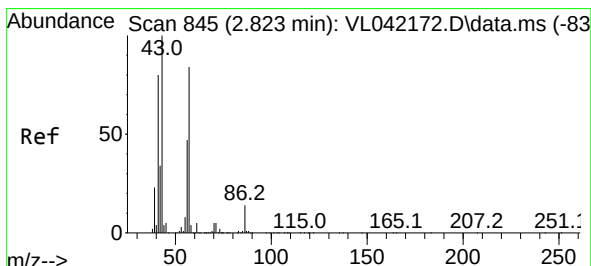
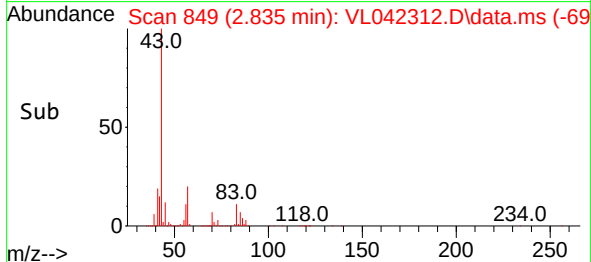
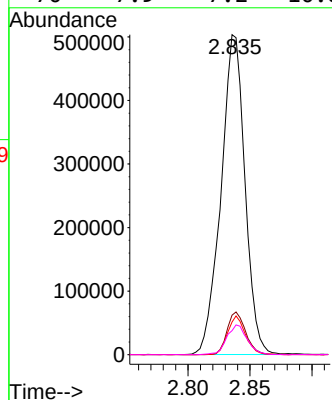
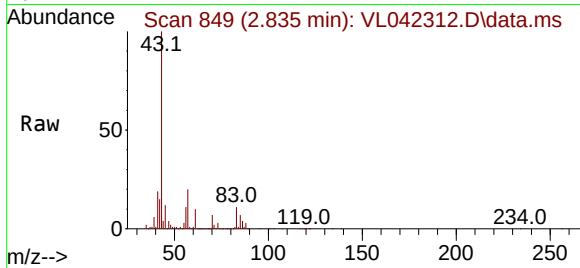


#25
Ethyl Acetate
Concen: 10.182 ppbv
RT: 2.835 min Scan# 84
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

Tgt Ion: 43 Resp: 678920

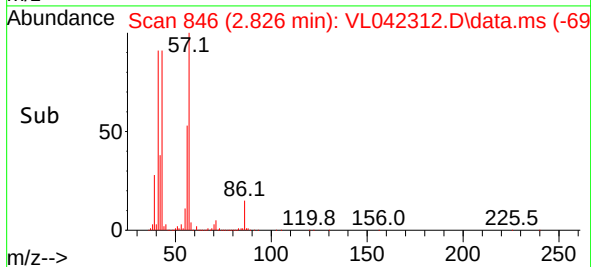
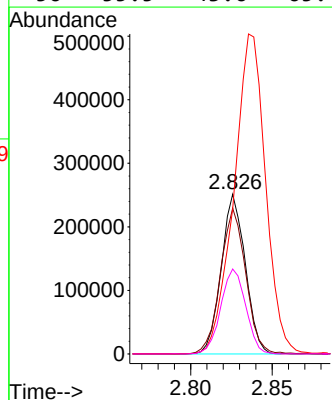
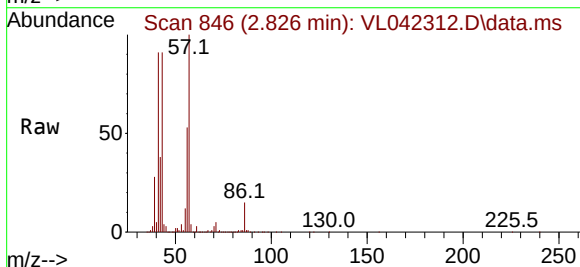
Ion	Ratio	Lower	Upper
43	100		
45	10.5	8.2	12.2
61	9.1	7.3	10.9
70	7.9	7.2	10.8

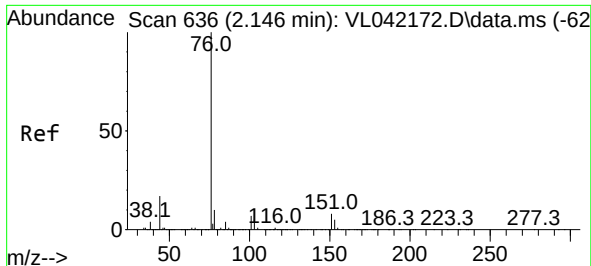


#26
Hexane
Concen: 9.973 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 57 Resp: 256866

Ion	Ratio	Lower	Upper
57	100		
41	96.5	76.6	114.8
43	265.7	207.8	311.8
56	55.5	43.6	65.4

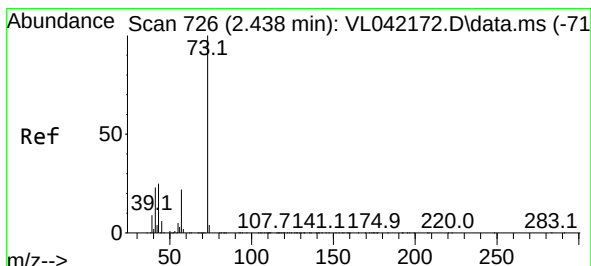
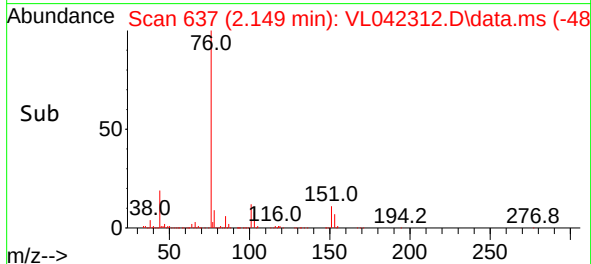
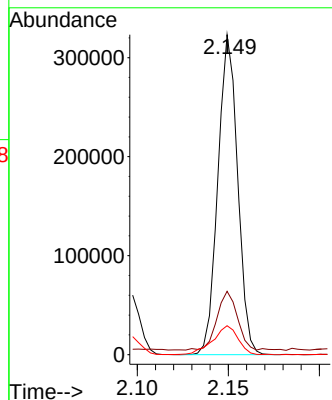
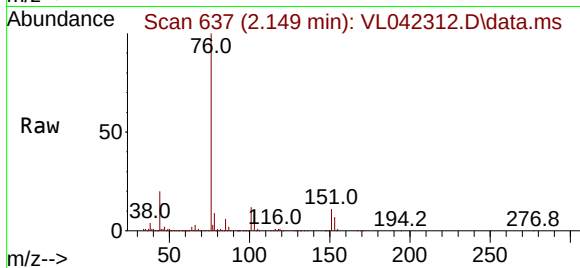




#27
Carbon Disulfide
Concen: 8.812 ppbv
RT: 2.149 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

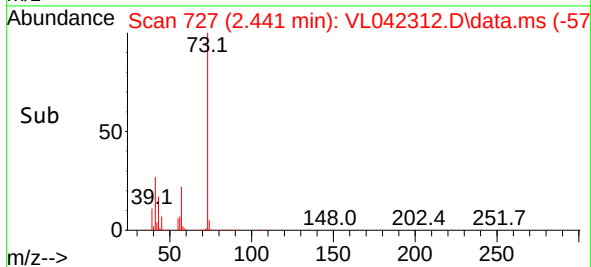
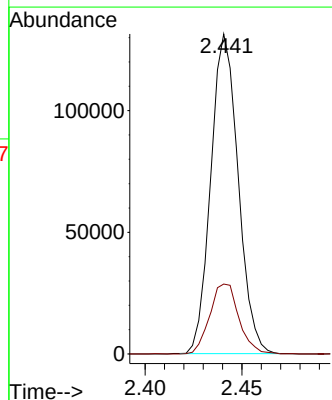
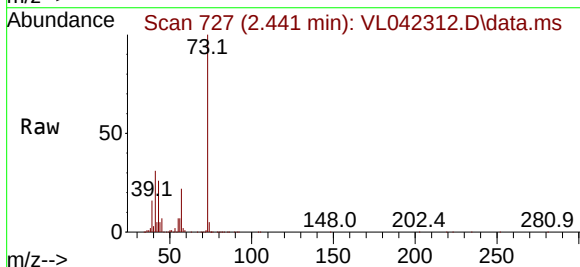
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

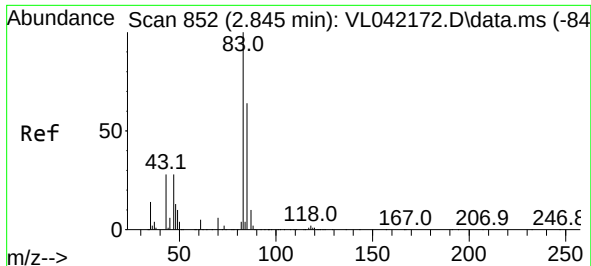
Tgt Ion: 76 Resp: 243367
Ion Ratio Lower Upper
76 100
44 19.5 14.7 22.1
78 11.6 9.3 13.9



#28
Methyl tert-Butyl Ether
Concen: 8.053 ppbv
RT: 2.441 min Scan# 727
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 73 Resp: 129141
Ion Ratio Lower Upper
73 100
57 23.4 20.5 30.7





#29

Chloroform

Concen: 10.443 ppbv

RT: 2.848 min Scan# 81

Delta R.T. 0.003 min

Lab File: VL042312.D

Acq: 11 Apr 2025 09:50

Instrument :

MSVOA_L

ClientSampleId :

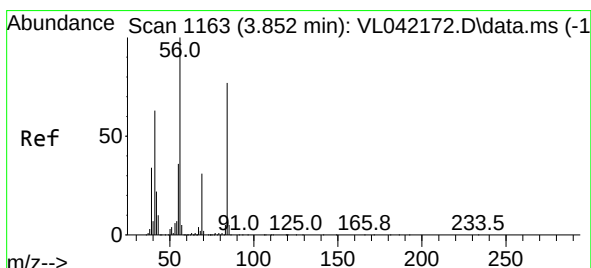
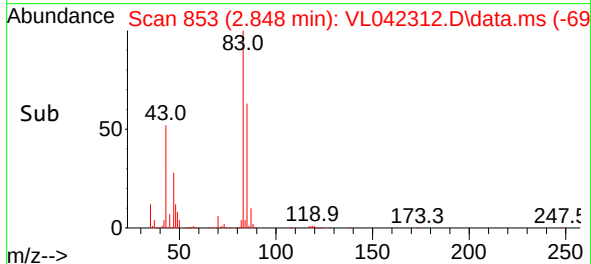
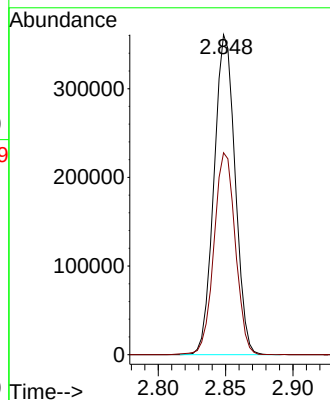
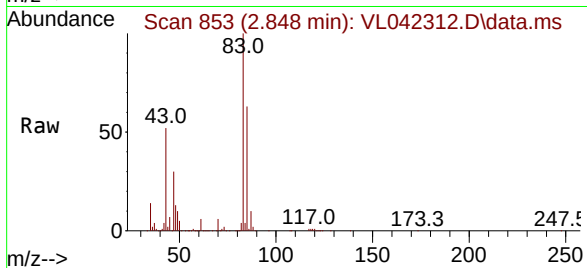
VSTDCCC010

Tgt Ion: 83 Resp: 393638

Ion Ratio Lower Upper

83 100

85 63.1 51.4 77.2



#30

Cyclohexane

Concen: 9.100 ppbv

RT: 3.858 min Scan# 1165

Delta R.T. 0.006 min

Lab File: VL042312.D

Acq: 11 Apr 2025 09:50

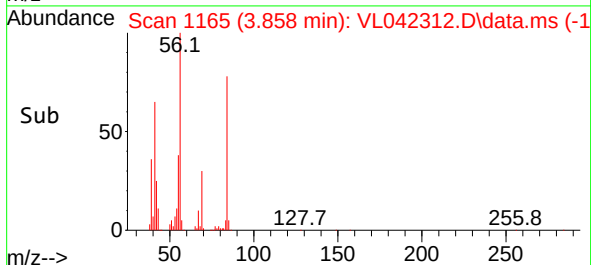
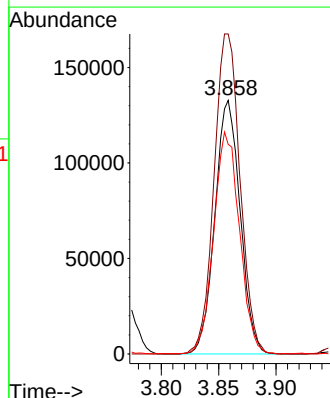
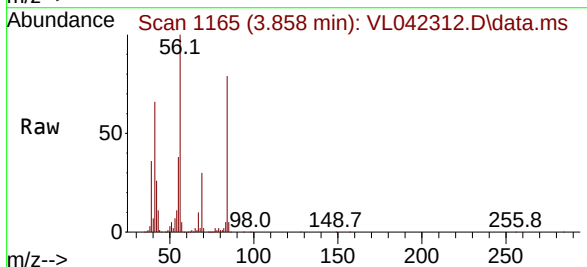
Tgt Ion: 84 Resp: 203526

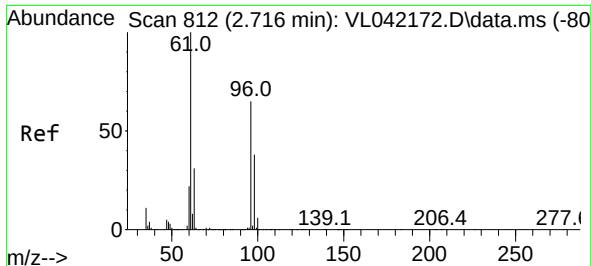
Ion Ratio Lower Upper

84 100

56 129.8 102.8 154.2

41 89.4 66.5 99.7

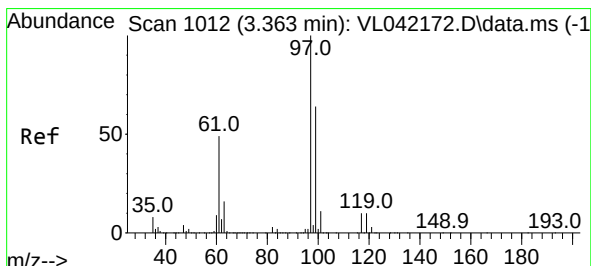
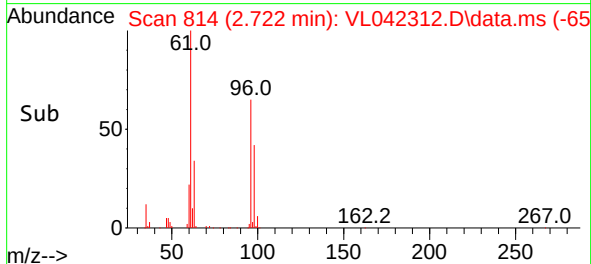
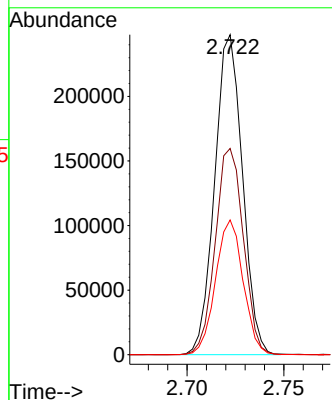
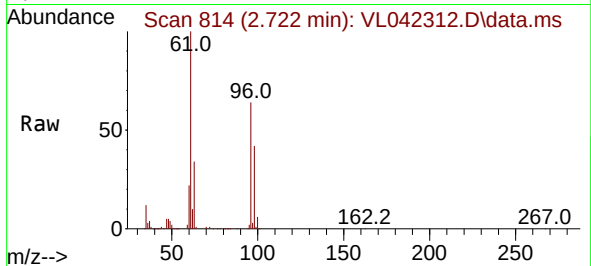




#31
cis-1,2-Dichloroethene
Concen: 9.454 ppbv
RT: 2.722 min Scan# 812
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

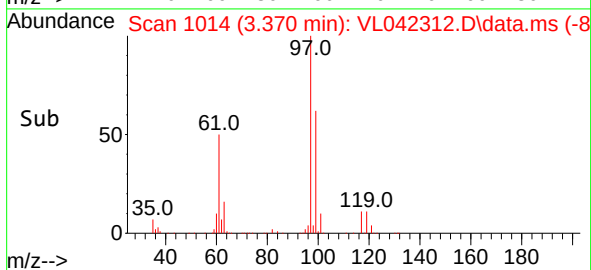
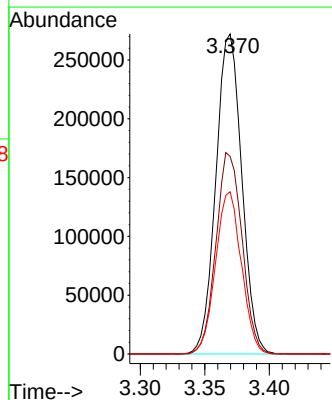
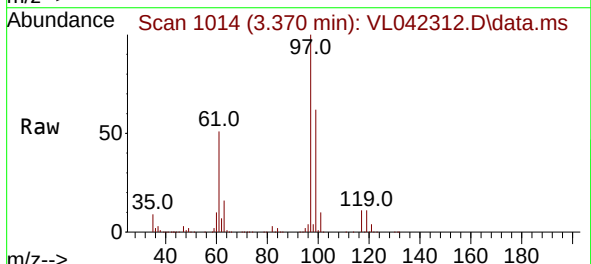
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

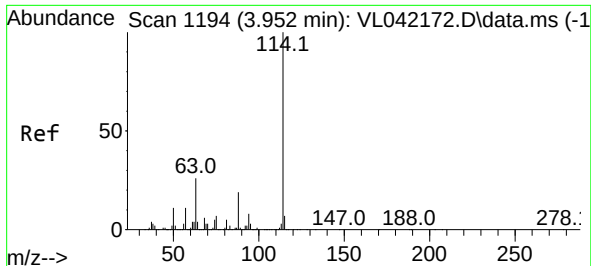
Tgt Ion: 61 Resp: 247194
Ion Ratio Lower Upper
61 100
96 64.4 51.8 77.8
98 42.0 30.6 46.0



#32
1,1,1-Trichloroethane
Concen: 8.813 ppbv
RT: 3.370 min Scan# 1014
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 97 Resp: 380312
Ion Ratio Lower Upper
97 100
99 63.2 51.5 77.3
61 50.6 38.7 58.1





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.959 min Scan# 1196

Delta R.T. 0.006 min

Lab File: VL042312.D

Acq: 11 Apr 2025 09:50

Instrument :

MSVOA_1

ClientSampleId :

VSTDCCC010

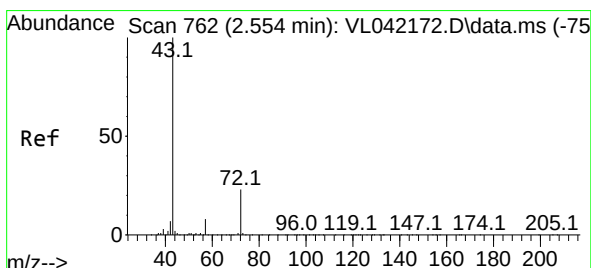
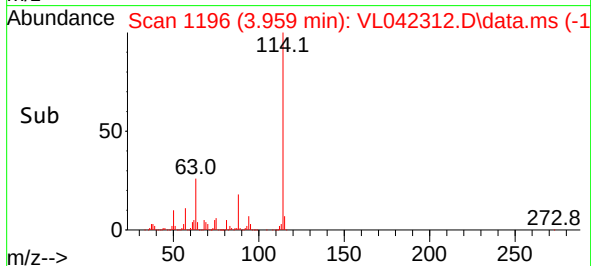
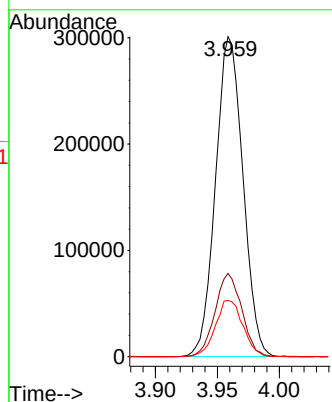
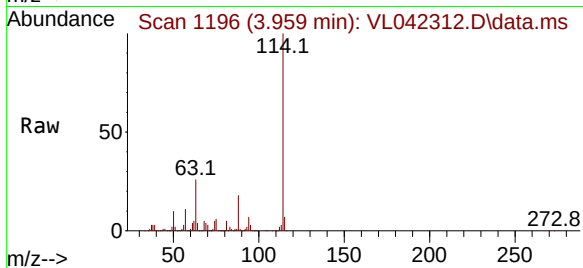
Tgt Ion:114 Resp: 463746

Ion Ratio Lower Upper

114 100

63 25.5 20.7 31.1

88 17.7 15.0 22.4



#34

2-Butanone

Concen: 11.321 ppbv

RT: 2.557 min Scan# 763

Delta R.T. 0.003 min

Lab File: VL042312.D

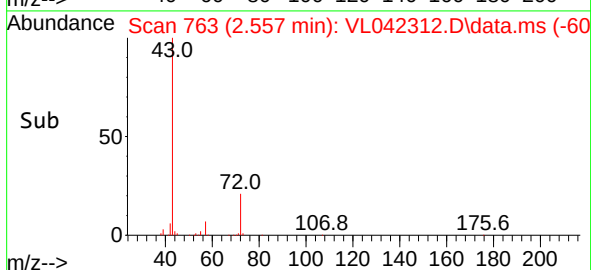
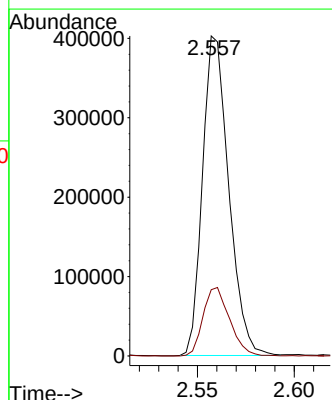
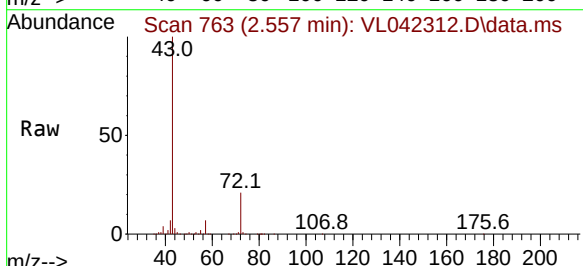
Acq: 11 Apr 2025 09:50

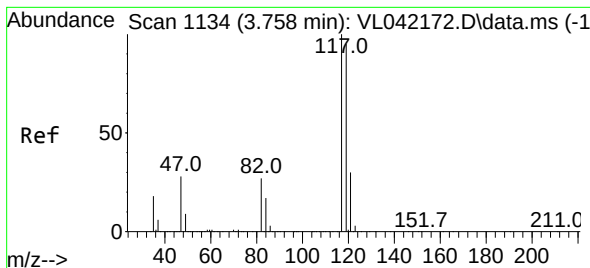
Tgt Ion: 43 Resp: 380682

Ion Ratio Lower Upper

43 100

72 21.7 18.2 27.2





#35

Carbon Tetrachloride

Concen: 10.769 ppbv

RT: 3.764 min Scan# 1136

Delta R.T. 0.006 min

Lab File: VL042312.D

Acq: 11 Apr 2025 09:50

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

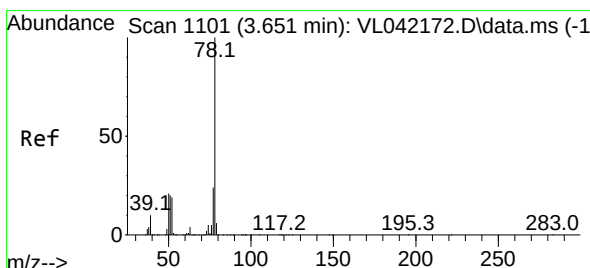
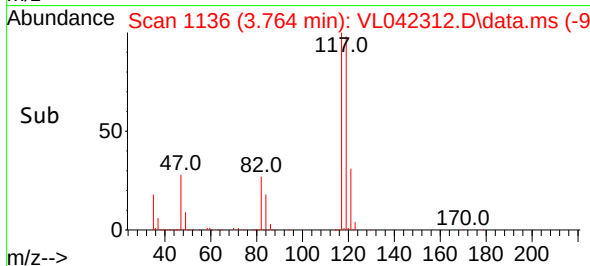
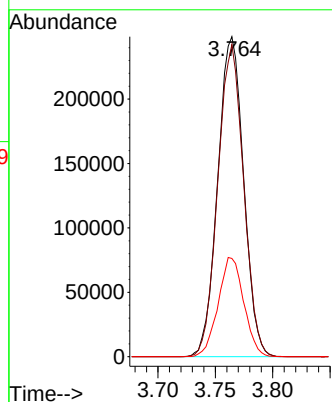
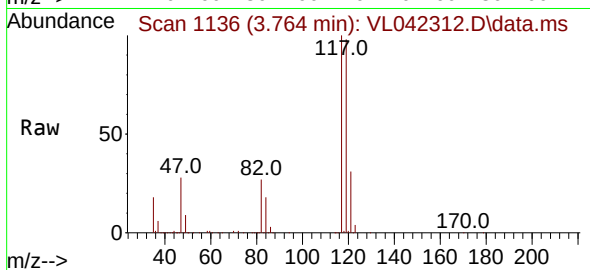
Tgt Ion:117 Resp: 390140

Ion Ratio Lower Upper

117 100

119 97.6 76.2 114.2

121 30.7 24.2 36.4



#36

Benzene

Concen: 11.012 ppbv

RT: 3.658 min Scan# 1103

Delta R.T. 0.006 min

Lab File: VL042312.D

Acq: 11 Apr 2025 09:50

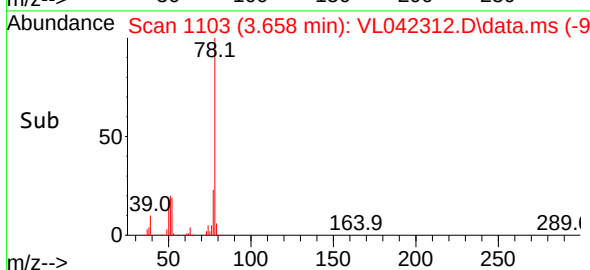
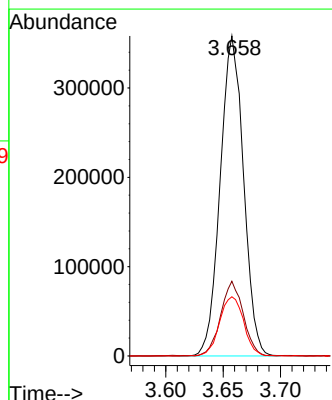
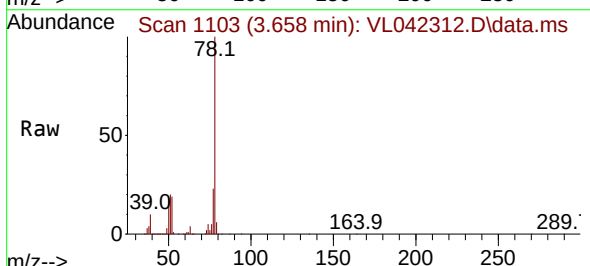
Tgt Ion: 78 Resp: 506278

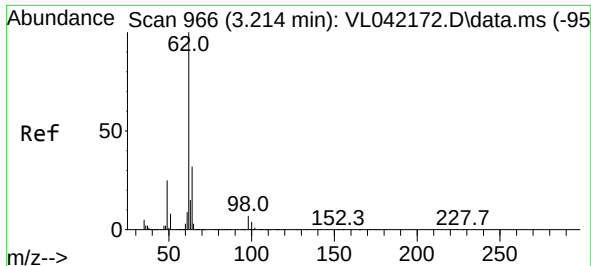
Ion Ratio Lower Upper

78 100

77 23.3 19.1 28.7

50 18.5 16.6 24.8





#37

1,2-Dichloroethane

Concen: 11.101 ppbv

RT: 3.221 min Scan# 9

Delta R.T. 0.006 min

Lab File: VL042312.D

Acq: 11 Apr 2025 09:50

Instrument :

MSVOA_1

ClientSampleId :

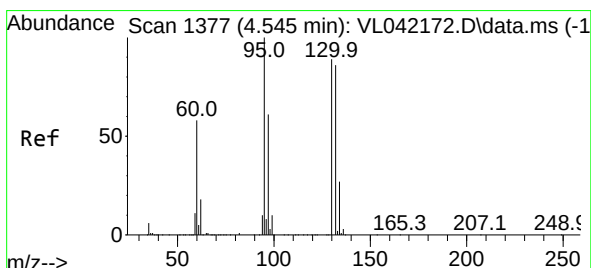
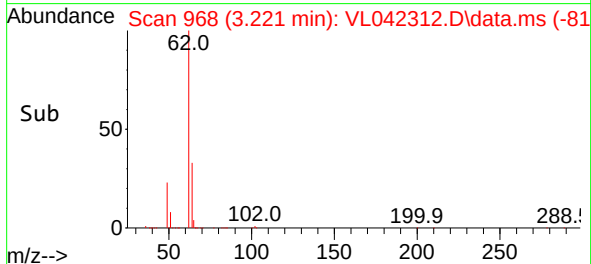
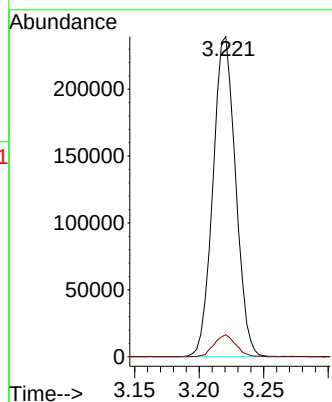
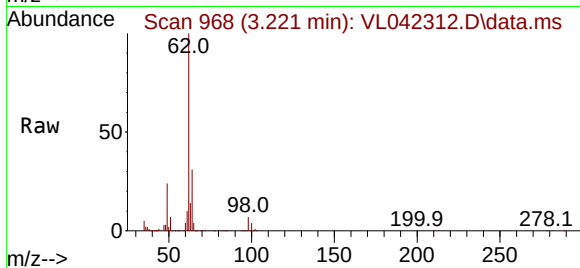
VSTDCCC010

Tgt Ion: 62 Resp: 292183

Ion Ratio Lower Upper

62 100

98 6.6 5.4 8.2



#38

Trichloroethene

Concen: 10.591 ppbv

RT: 4.551 min Scan# 1379

Delta R.T. 0.006 min

Lab File: VL042312.D

Acq: 11 Apr 2025 09:50

Tgt Ion: 130 Resp: 203156

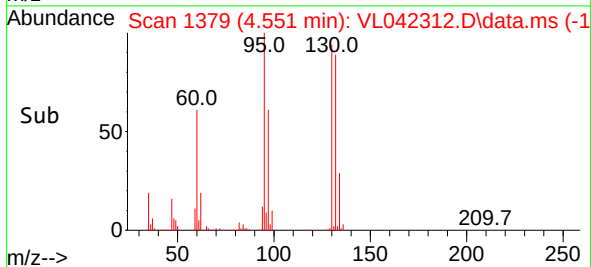
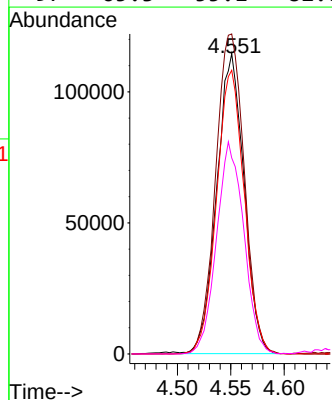
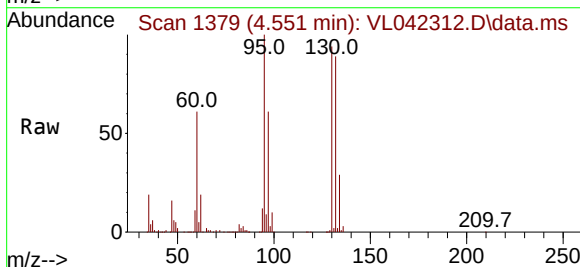
Ion Ratio Lower Upper

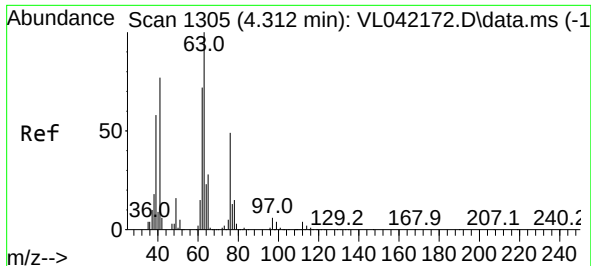
130 100

95 106.6 89.8 134.8

132 94.5 77.4 116.2

97 65.3 55.1 82.7





#39

1,2-Dichloropropane

Concen: 11.079 ppbv

RT: 4.315 min Scan# 1

Delta R.T. 0.003 min

Lab File: VL042312.D

Acq: 11 Apr 2025 09:50

Instrument :

MSVOA_1

ClientSampleId :

VSTDCCC010

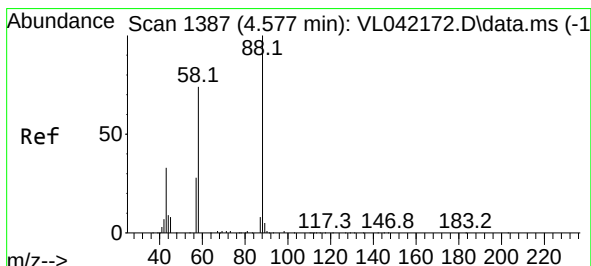
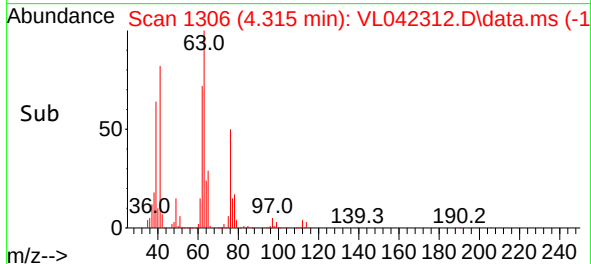
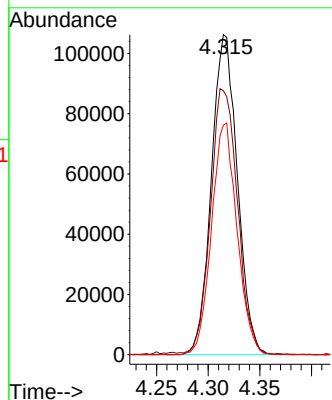
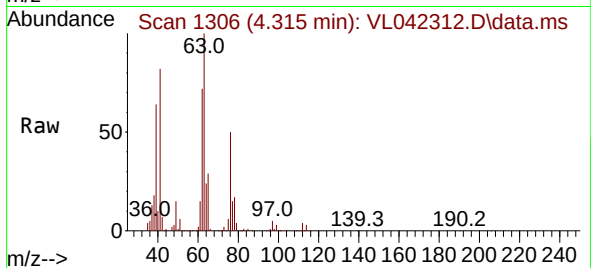
Tgt Ion: 63 Resp: 185497

Ion Ratio Lower Upper

63 100

41 82.2 61.7 92.5

62 71.8 57.6 86.4



#40

1,4-Dioxane

Concen: 9.270 ppbv

RT: 4.583 min Scan# 1389

Delta R.T. 0.006 min

Lab File: VL042312.D

Acq: 11 Apr 2025 09:50

Tgt Ion: 88 Resp: 82376

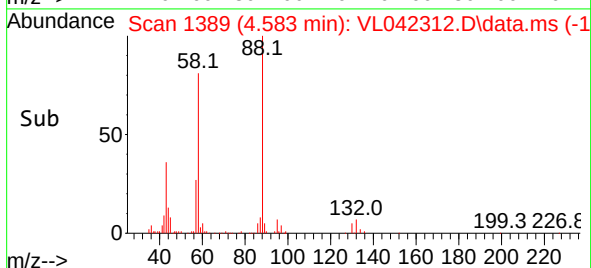
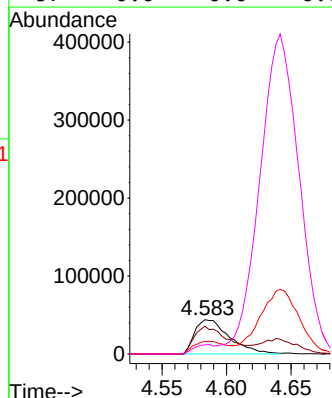
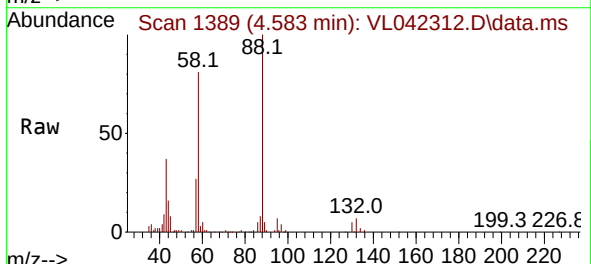
Ion Ratio Lower Upper

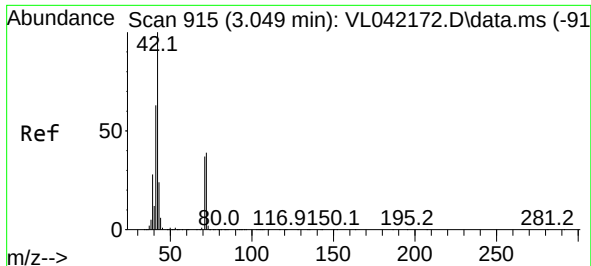
88 100

58 79.1 62.7 94.1

43 30.6 23.0 34.4

57 0.0 0.0 0.0

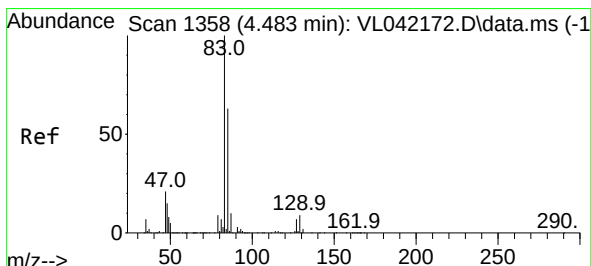
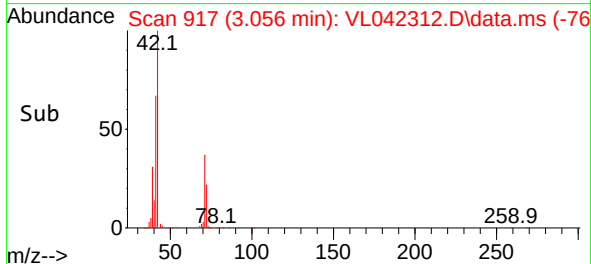
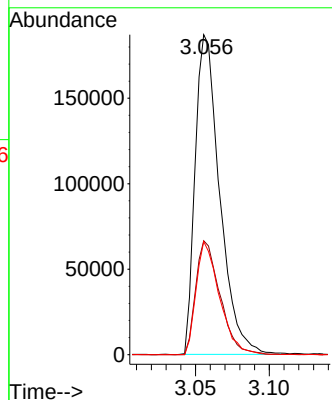
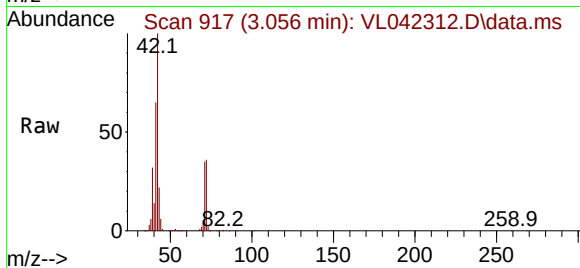




#41
Tetrahydrofuran
Concen: 11.188 ppbv
RT: 3.056 min Scan# 915
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

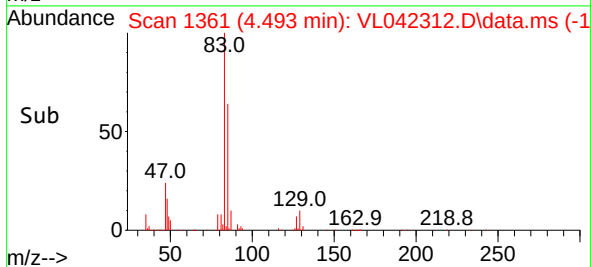
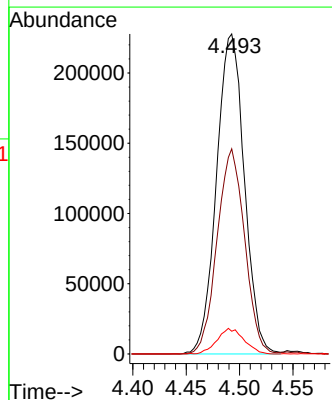
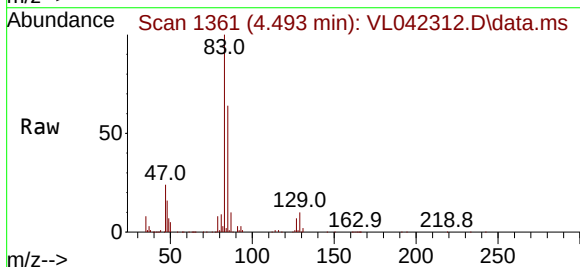
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

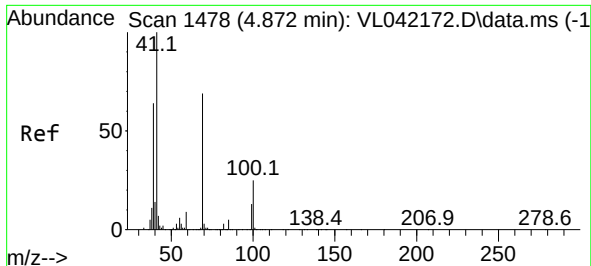
Tgt Ion: 42 Resp: 216646
Ion Ratio Lower Upper
42 100
72 35.3 31.4 47.0
71 33.8 30.2 45.4



#42
Bromodichloromethane
Concen: 11.389 ppbv
RT: 4.493 min Scan# 1361
Delta R.T. 0.009 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 83 Resp: 413250
Ion Ratio Lower Upper
83 100
85 64.1 50.5 75.7
127 7.1 5.9 8.9

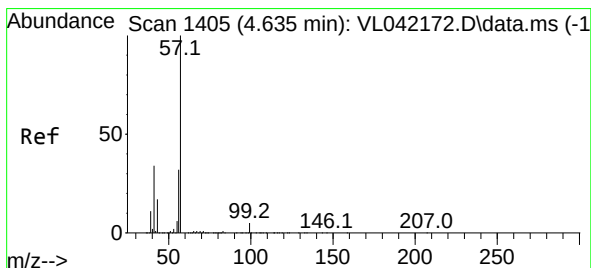
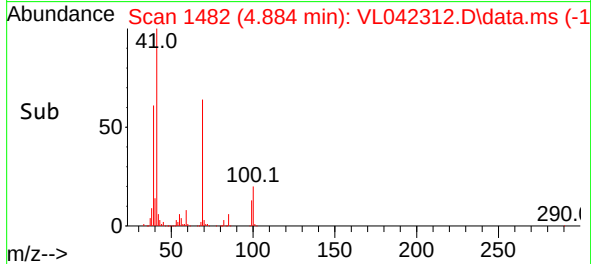
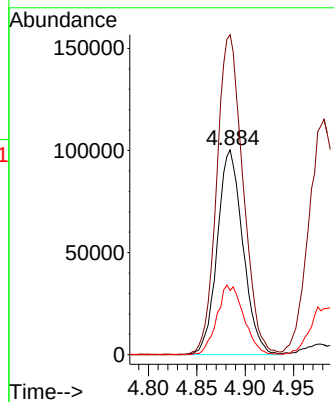
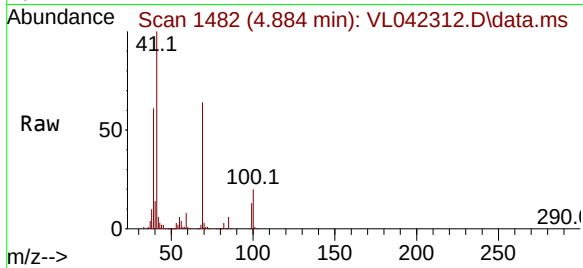




#43
Methyl Methacrylate
Concen: 9.478 ppbv
RT: 4.884 min Scan# 1482
Delta R.T. 0.013 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

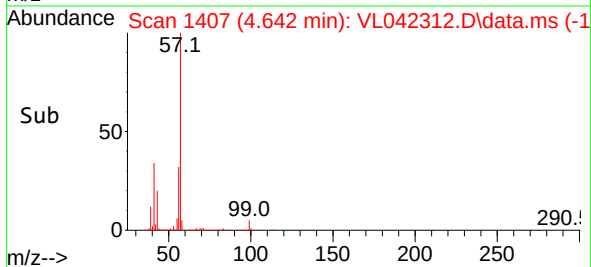
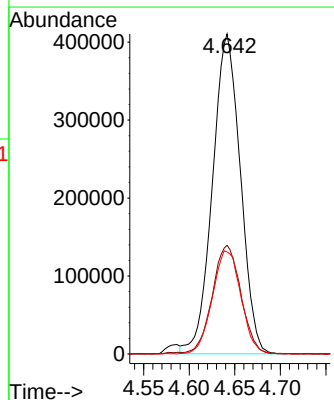
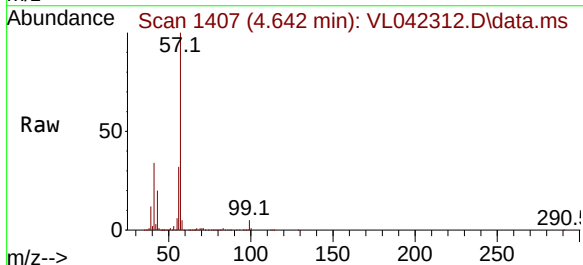
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

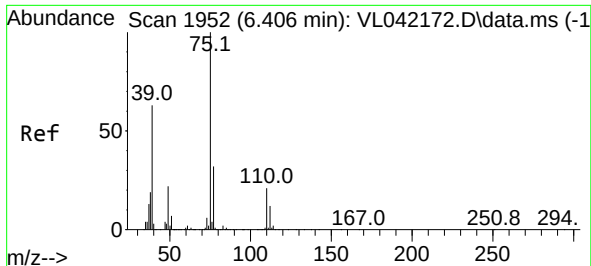
Tgt Ion: 69 Resp: 184472
Ion Ratio Lower Upper
69 100
41 160.3 123.8 185.6
100 35.6 28.4 42.6



#44
2,2,4-Trimethylpentane
Concen: 11.235 ppbv
RT: 4.642 min Scan# 1407
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 57 Resp: 872871
Ion Ratio Lower Upper
57 100
41 35.1 26.8 40.2
56 33.1 25.6 38.4





#45

t-1,3-Dichloropropene

Concen: 8.467 ppbv

RT: 6.422 min Scan# 1957

Delta R.T. 0.016 min

Lab File: VL042312.D

Acq: 11 Apr 2025 09:50

Instrument :

MSVOA_1

ClientSampleId :

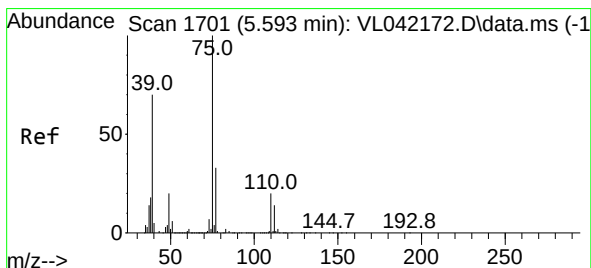
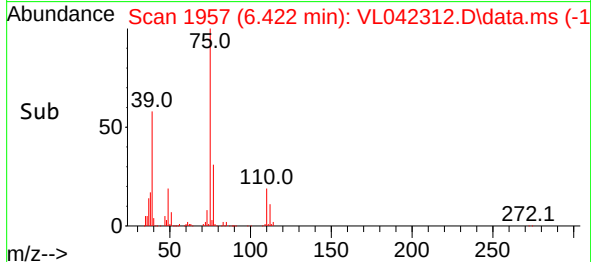
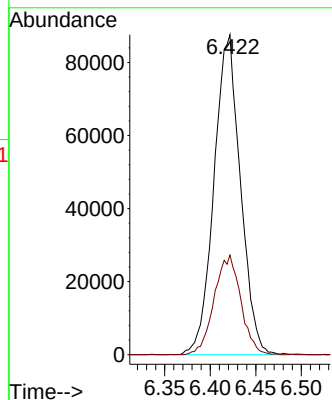
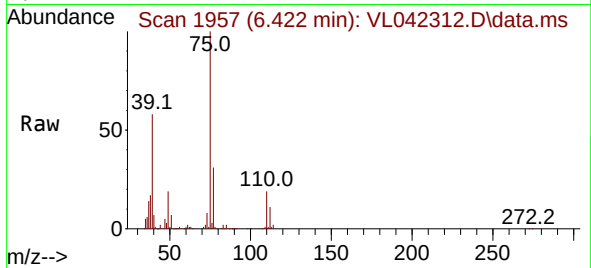
VSTDCCC010

Tgt Ion: 75 Resp: 176804

Ion Ratio Lower Upper

75 100

77 31.1 26.0 39.0



#46

cis-1,3-Dichloropropene

Concen: 9.222 ppbv

RT: 5.603 min Scan# 1704

Delta R.T. 0.009 min

Lab File: VL042312.D

Acq: 11 Apr 2025 09:50

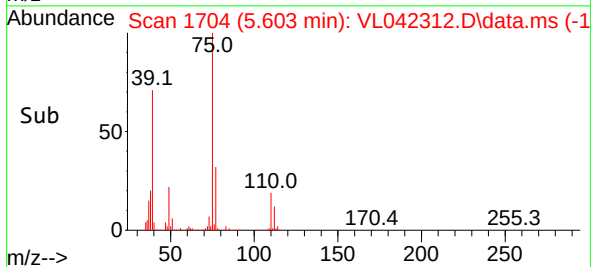
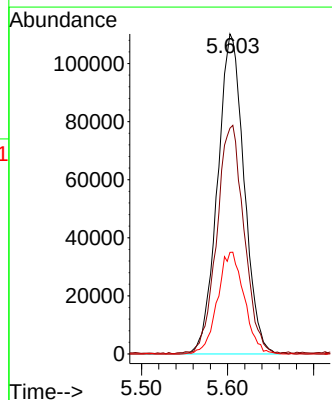
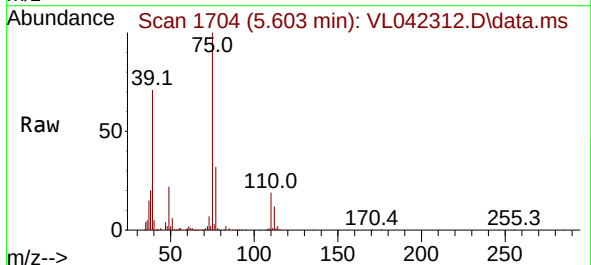
Tgt Ion: 75 Resp: 236039

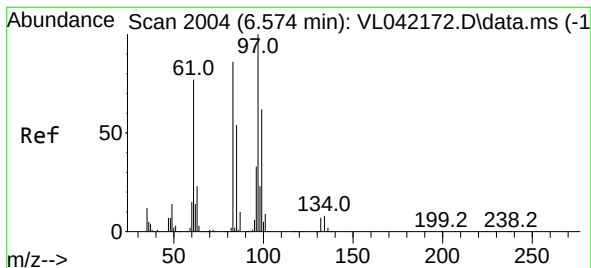
Ion Ratio Lower Upper

75 100

39 70.2 55.8 83.6

77 31.7 26.0 39.0





#47

1,1,2-Trichloroethane

Concen: 11.463 ppbv

RT: 6.583 min Scan# 2007

Delta R.T. 0.009 min

Lab File: VL042312.D

Acq: 11 Apr 2025 09:50

Instrument :

MSVOA_1

ClientSampleId :

VSTDCCC010

Tgt Ion: 97 Resp: 202891

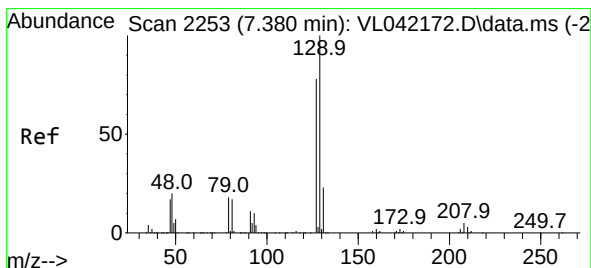
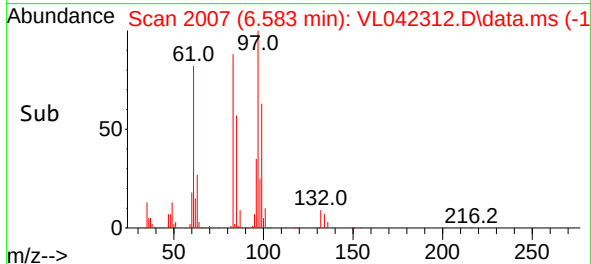
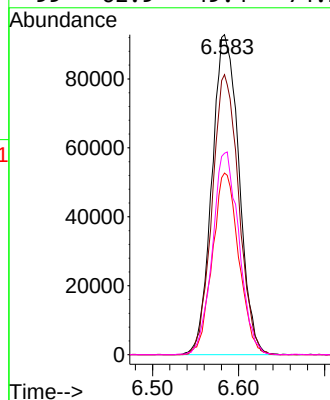
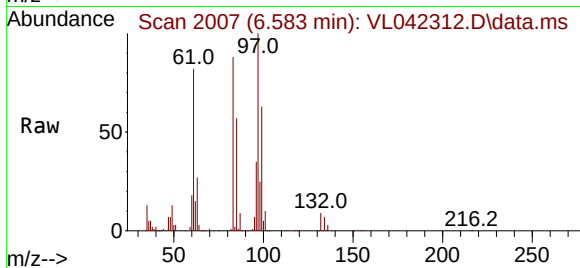
Ion Ratio Lower Upper

97 100

83 87.5 69.2 103.8

85 56.7 43.1 64.7

99 62.9 49.4 74.2



#48

Dibromochloromethane

Concen: 11.106 ppbv

RT: 7.389 min Scan# 2256

Delta R.T. 0.009 min

Lab File: VL042312.D

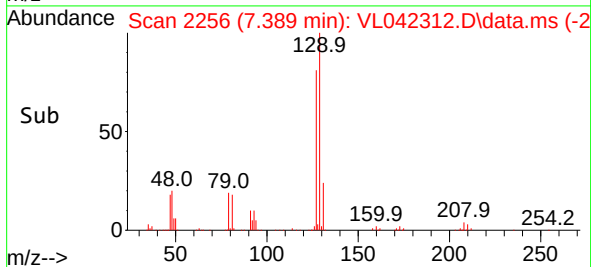
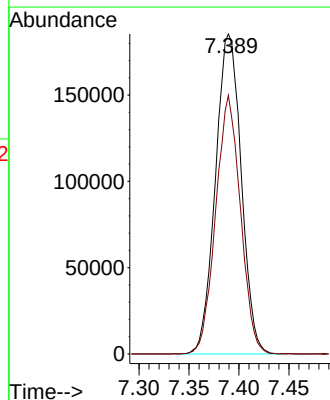
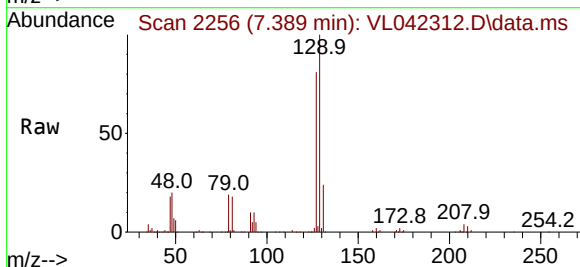
Acq: 11 Apr 2025 09:50

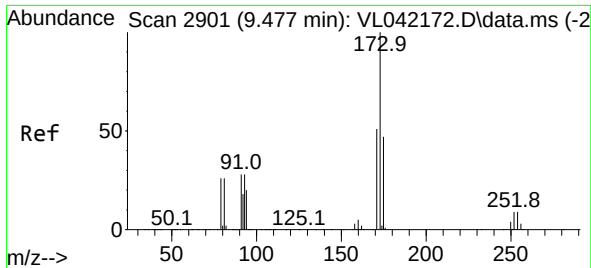
Tgt Ion: 129 Resp: 333128

Ion Ratio Lower Upper

129 100

127 77.4 39.1 117.2

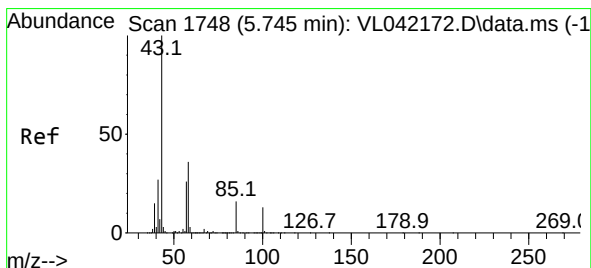
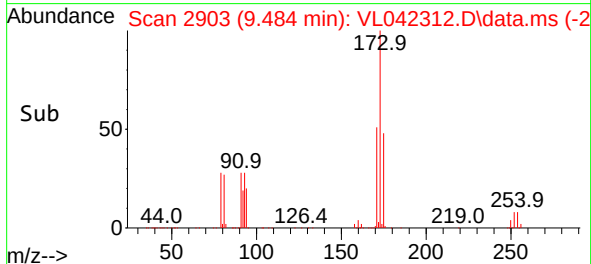
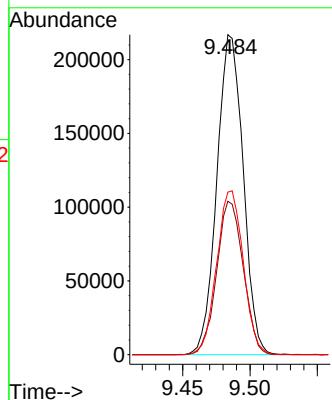
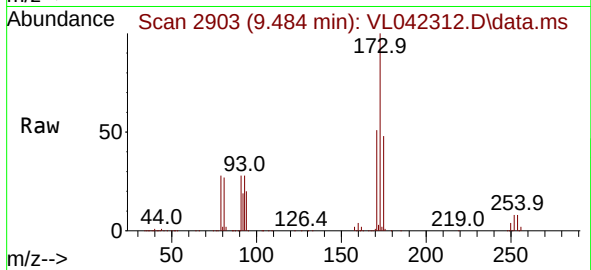




#49
Bromoform
Concen: 10.935 ppbv
RT: 9.484 min Scan# 2903
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

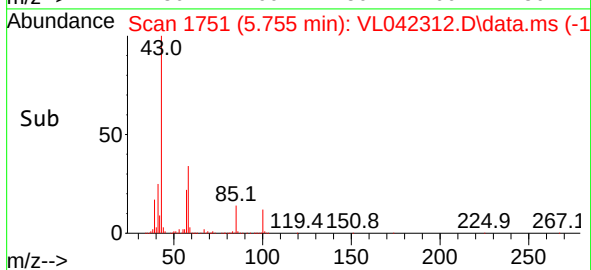
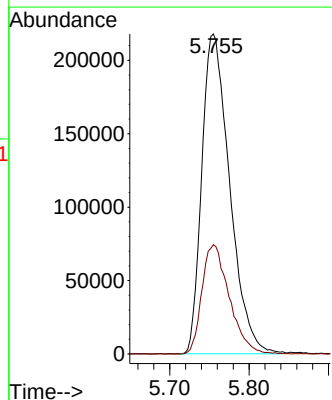
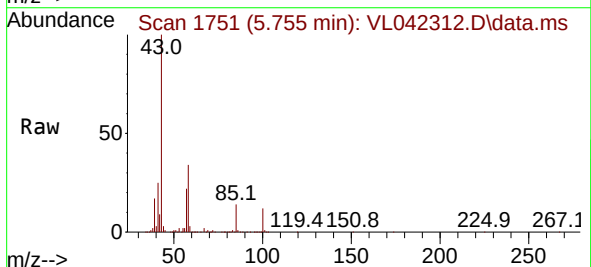
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

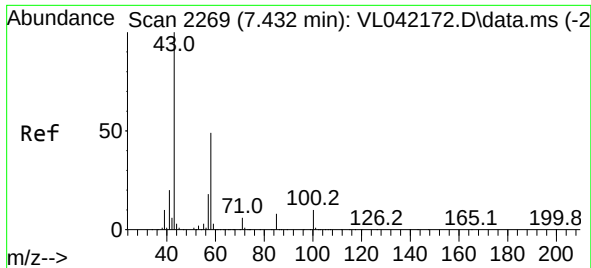
Tgt Ion:173 Resp: 294489
Ion Ratio Lower Upper
173 100
175 48.5 38.6 57.8
171 51.8 41.8 62.6



#50
4-Methyl-2-Pentanone
Concen: 9.980 ppbv
RT: 5.755 min Scan# 1751
Delta R.T. 0.009 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 43 Resp: 531851
Ion Ratio Lower Upper
43 100
58 33.5 29.0 43.6

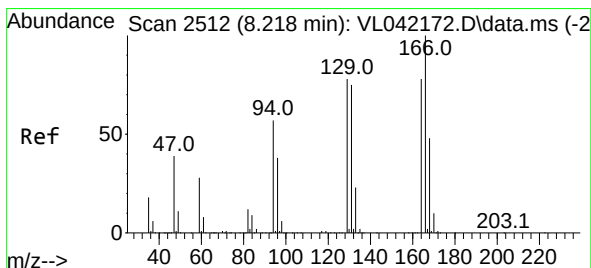
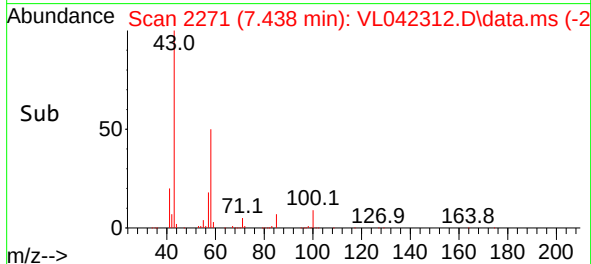
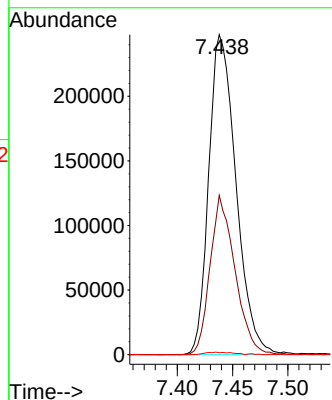
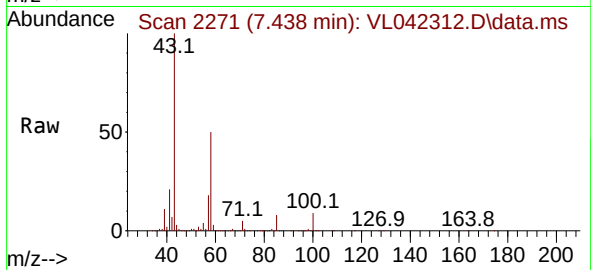




#51
2-Hexanone
Concen: 9.689 ppbv
RT: 7.438 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

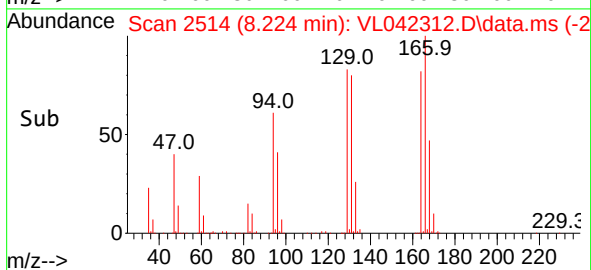
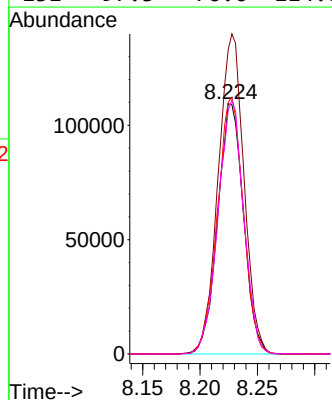
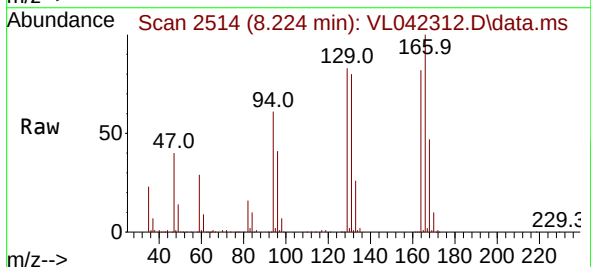
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

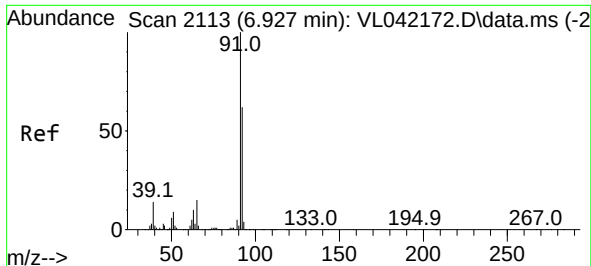
Tgt Ion: 43 Resp: 424035
Ion Ratio Lower Upper
43 100
58 45.7 39.7 59.5
98 0.9 0.1 0.1#



#52
Tetrachloroethene
Concen: 9.378 ppbv
RT: 8.224 min Scan# 2514
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 164 Resp: 170989
Ion Ratio Lower Upper
164 100
166 121.6 102.5 153.7
129 100.6 79.8 119.8
131 97.3 76.6 114.8

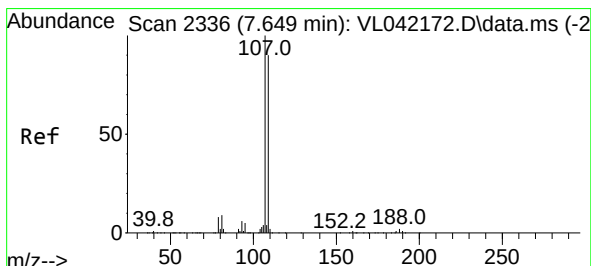
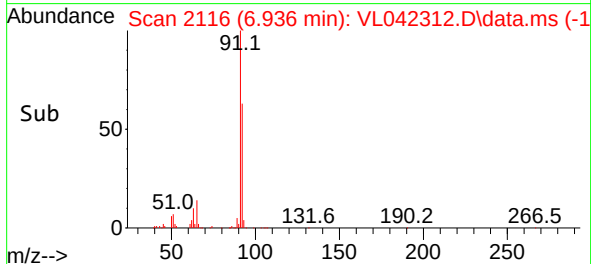
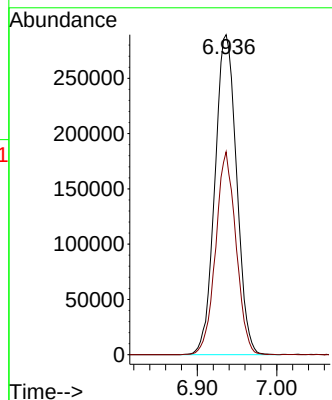
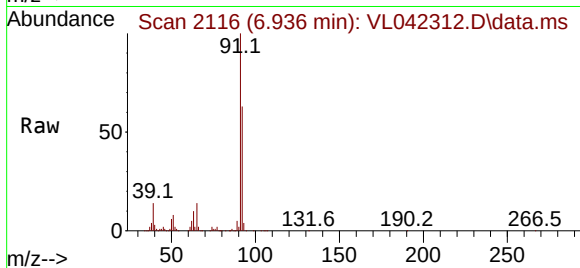




#53
Toluene
Concen: 10.048 ppbv
RT: 6.936 min Scan# 2116
Delta R.T. 0.009 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

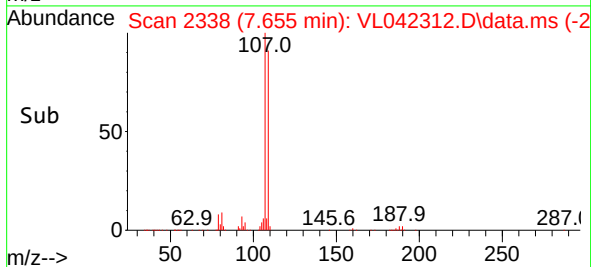
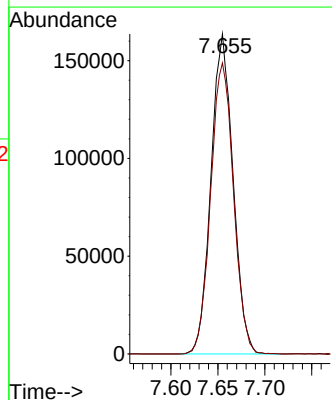
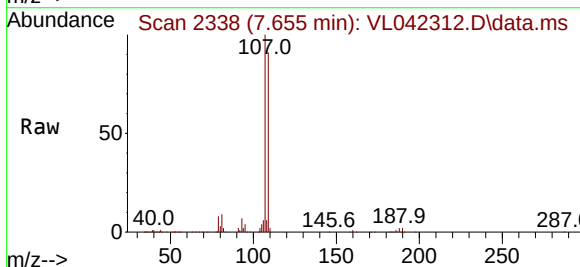
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

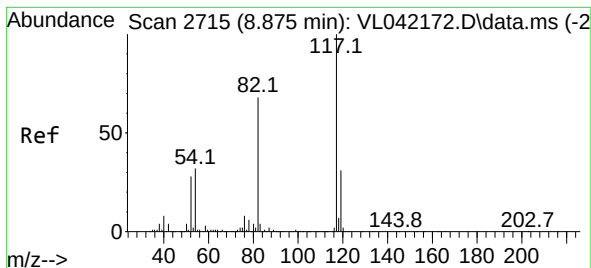
Tgt Ion: 91 Resp: 547579
Ion Ratio Lower Upper
91 100
92 59.5 48.4 72.6



#54
1,2-Dibromoethane
Concen: 10.831 ppbv
RT: 7.655 min Scan# 2338
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 107 Resp: 267225
Ion Ratio Lower Upper
107 100
109 91.0 72.2 108.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.885 min Scan# 21

Delta R.T. 0.009 min

Lab File: VL042312.D

Acq: 11 Apr 2025 09:50

Instrument :

MSVOA_1

ClientSampleId :

VSTDCCC010

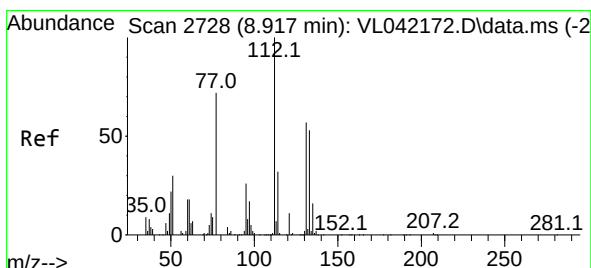
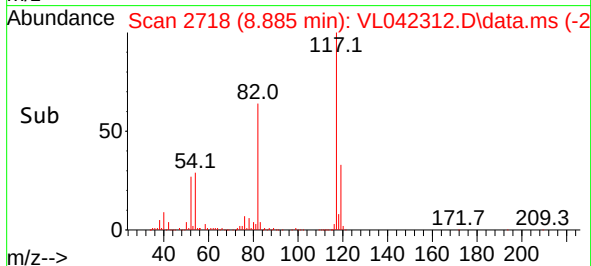
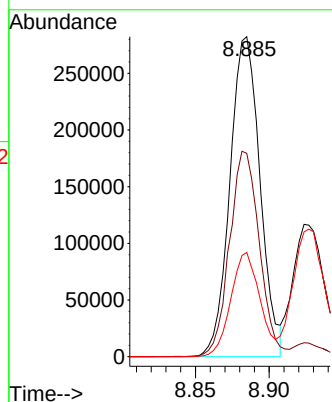
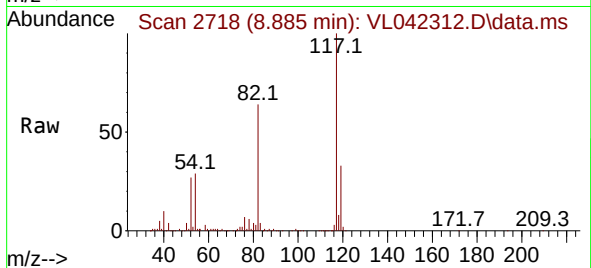
Tgt Ion:117 Resp: 401340

Ion Ratio Lower Upper

117 100

82 67.7 55.8 83.6

119 31.5 25.5 38.3



#56

1,1,1,2-Tetrachloroethane

Concen: 12.283 ppbv

RT: 8.927 min Scan# 2731

Delta R.T. 0.009 min

Lab File: VL042312.D

Acq: 11 Apr 2025 09:50

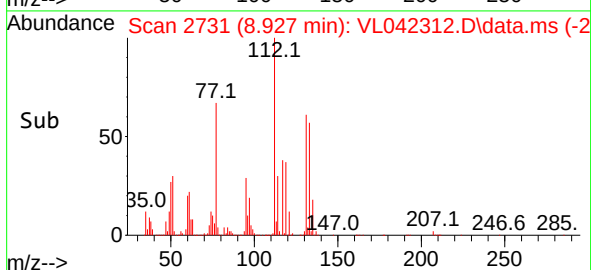
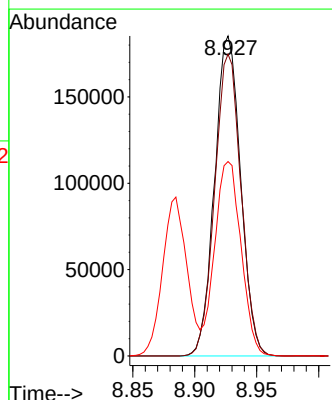
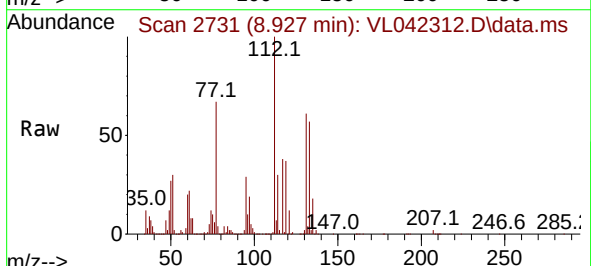
Tgt Ion:131 Resp: 271350

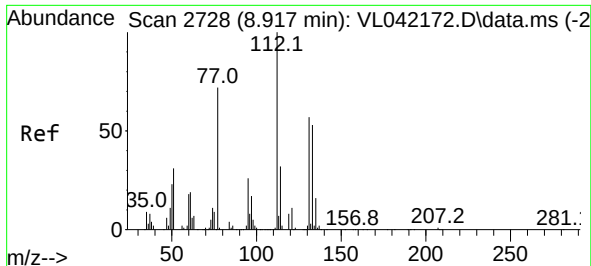
Ion Ratio Lower Upper

131 100

133 95.3 76.6 114.8

119 62.7 49.8 74.6

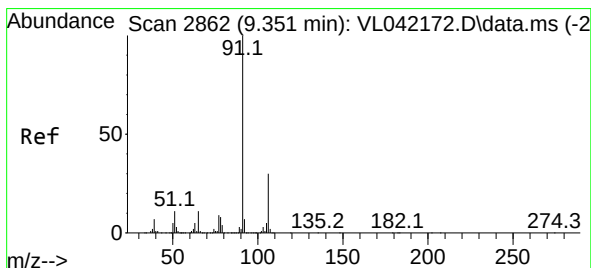
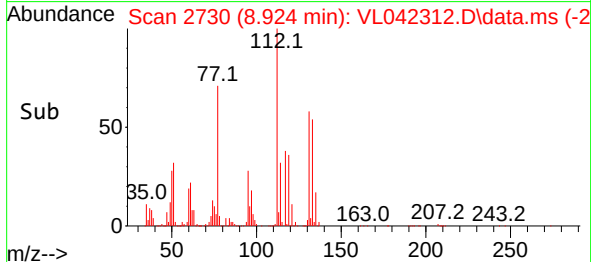
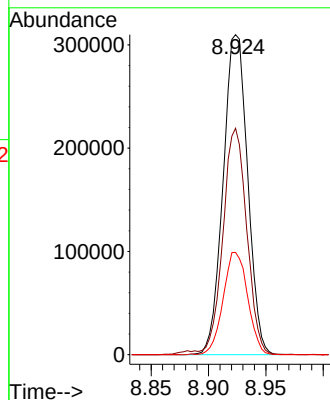
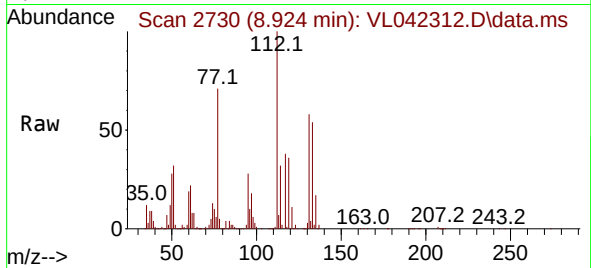




#57
Chlorobenzene
Concen: 12.099 ppbv
RT: 8.924 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

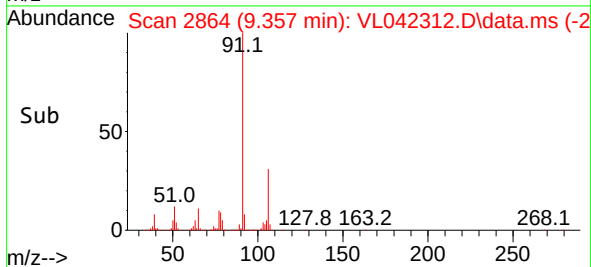
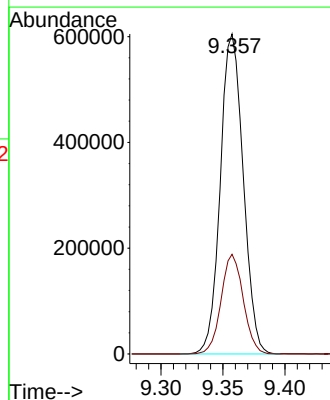
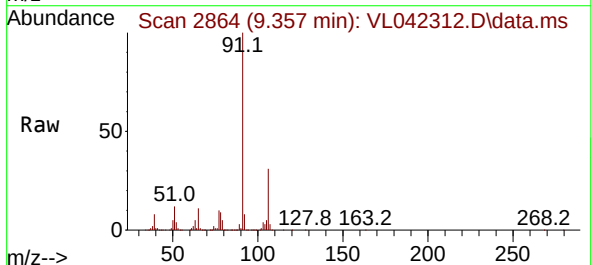
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

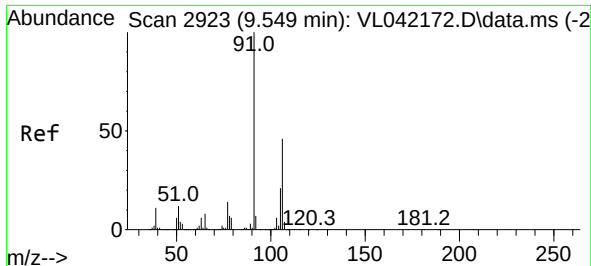
Tgt Ion:112 Resp: 460598
Ion Ratio Lower Upper
112 100
77 70.7 58.2 87.2
114 32.0 29.1 35.5



#58
Ethyl Benzene
Concen: 10.931 ppbv
RT: 9.357 min Scan# 2864
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 91 Resp: 779227
Ion Ratio Lower Upper
91 100
106 31.1 24.2 36.2





#59

m/p-Xylene

Concen: 12.062 ppbv

RT: 9.552 min Scan# 2923

Delta R.T. 0.003 min

Lab File: VL042312.D

Acq: 11 Apr 2025 09:50

Instrument :

MSVOA_1

ClientSampleId :

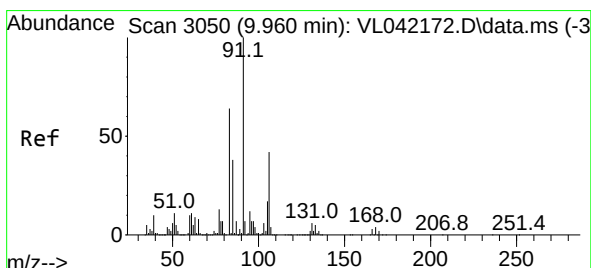
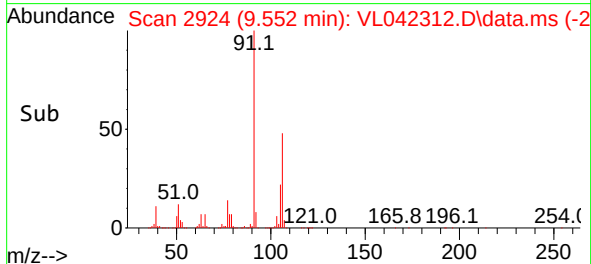
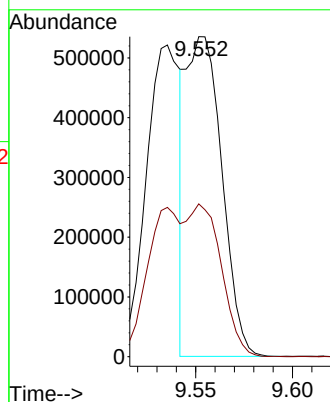
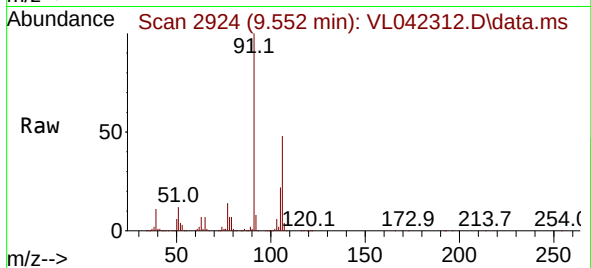
VSTDCCC010

Tgt Ion: 91 Resp: 686600

Ion Ratio Lower Upper

91 100

106 90.9 36.4 54.6#



#60

o-Xylene

Concen: 11.567 ppbv

RT: 9.966 min Scan# 3052

Delta R.T. 0.006 min

Lab File: VL042312.D

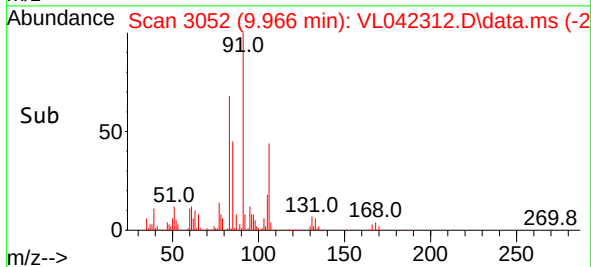
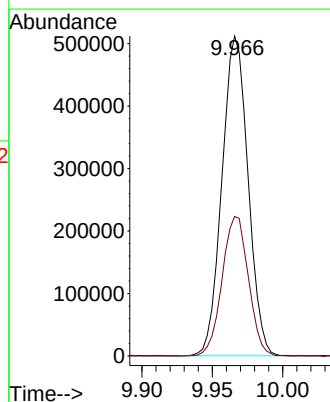
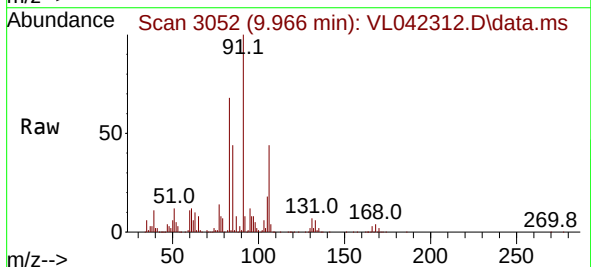
Acq: 11 Apr 2025 09:50

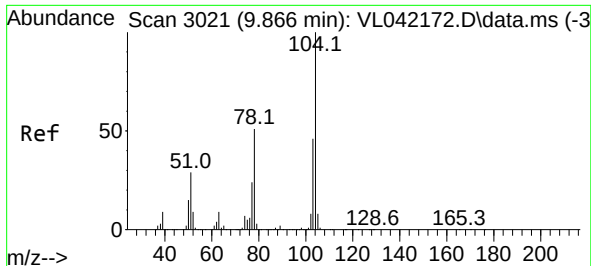
Tgt Ion: 91 Resp: 660065

Ion Ratio Lower Upper

91 100

106 44.0 20.8 62.5

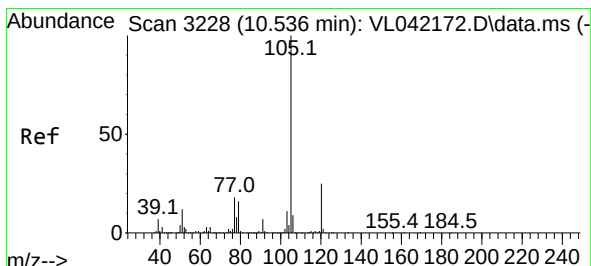
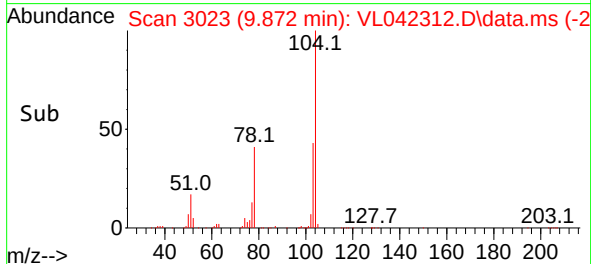
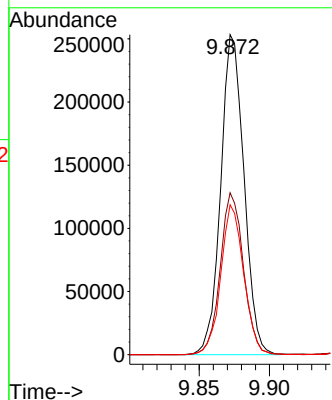
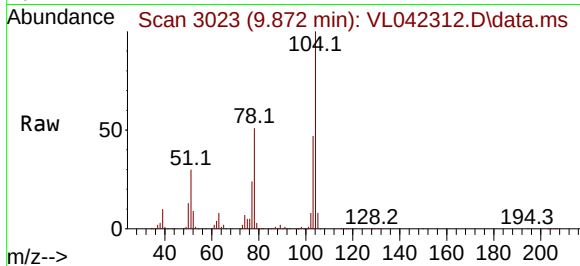




#61
Styrene
Concen: 10.320 ppbv
RT: 9.872 min Scan# 3021
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

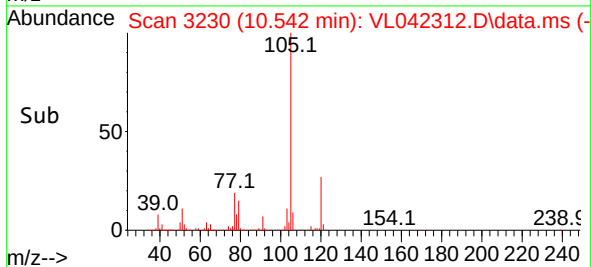
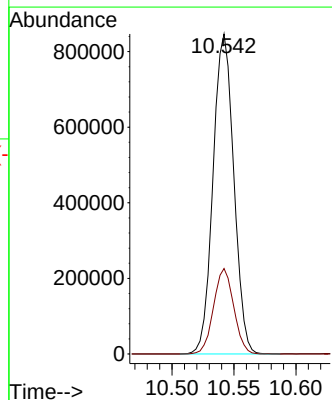
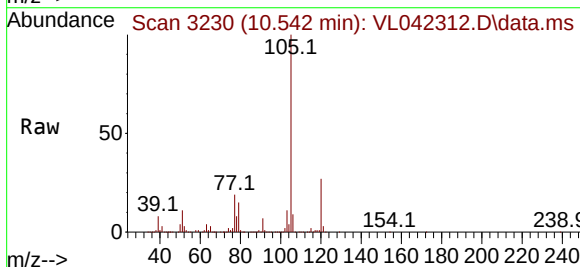
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

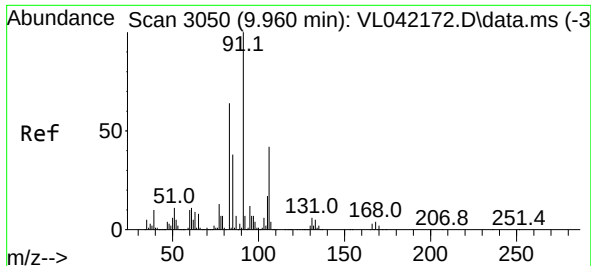
Tgt Ion:104 Resp: 291355
Ion Ratio Lower Upper
104 100
78 50.6 41.8 62.6
103 46.3 37.0 55.4



#62
Isopropylbenzene
Concen: 11.582 ppbv
RT: 10.542 min Scan# 3230
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion:105 Resp: 988337
Ion Ratio Lower Upper
105 100
120 25.9 19.9 29.9

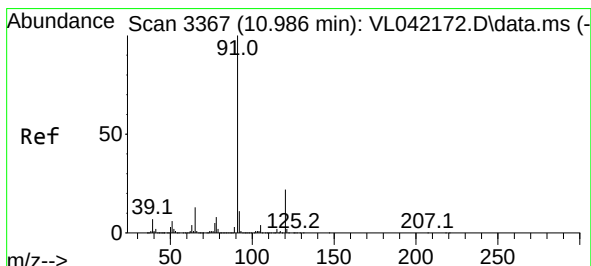
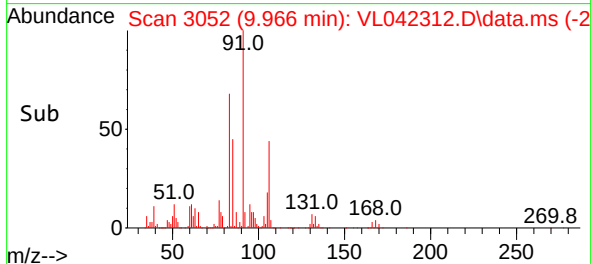
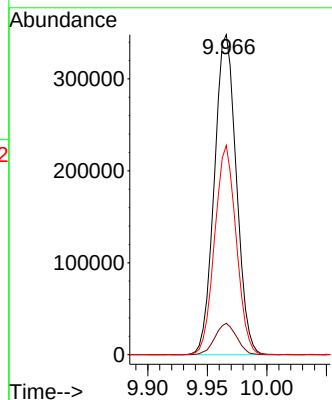
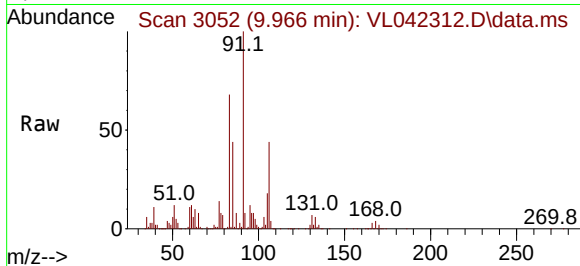




#63
1,1,2,2-Tetrachloroethane
Concen: 12.873 ppbv
RT: 9.966 min Scan# 3050
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

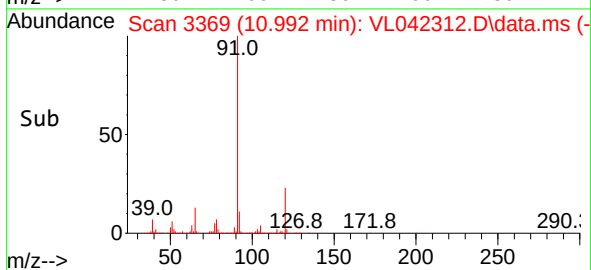
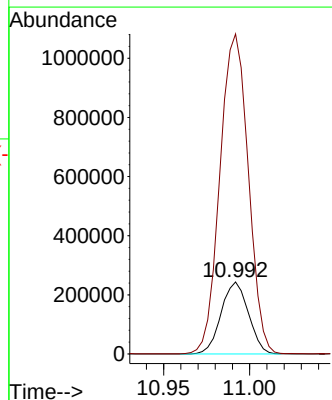
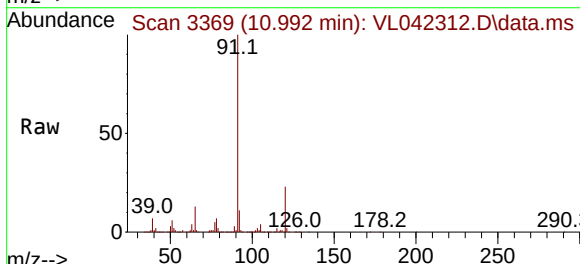
Instrument : MSVOA_L
ClientSampleId : VSTDCCC010

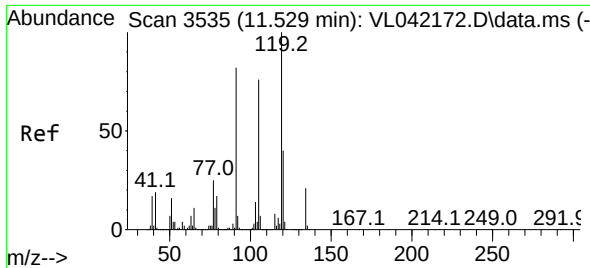
Tgt Ion: 83 Resp: 446341
Ion Ratio Lower Upper
83 100
131 9.6 4.8 14.4
85 64.0 32.5 97.5



#64
n-propylbenzene
Concen: 12.231 ppbv
RT: 10.992 min Scan# 3369
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 120 Resp: 268681
Ion Ratio Lower Upper
120 100
91 463.6 376.9 565.3

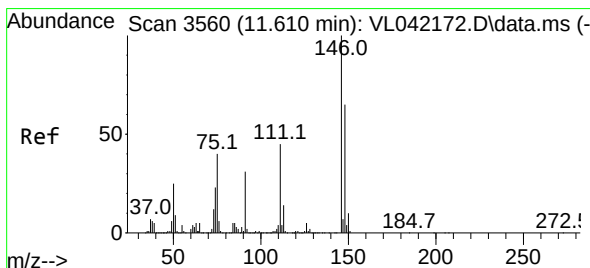
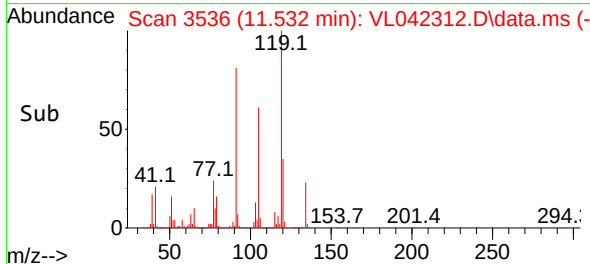
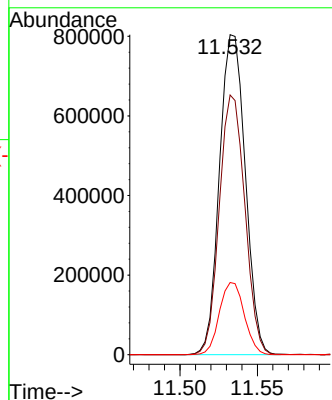
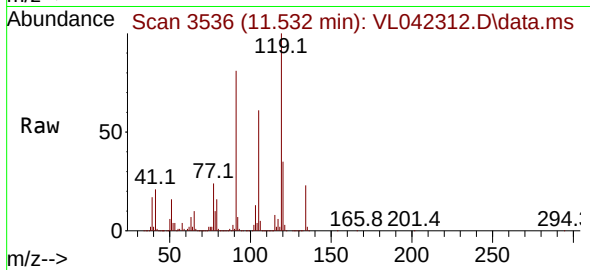




#65
tert-Butylbenzene
Concen: 11.820 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

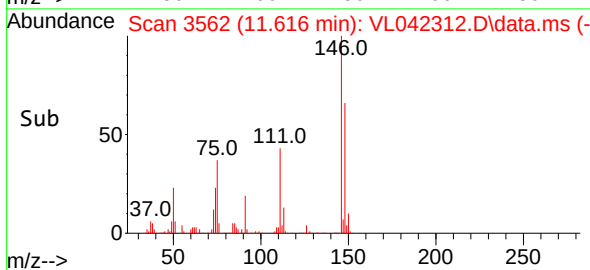
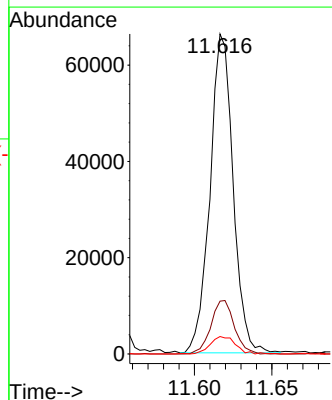
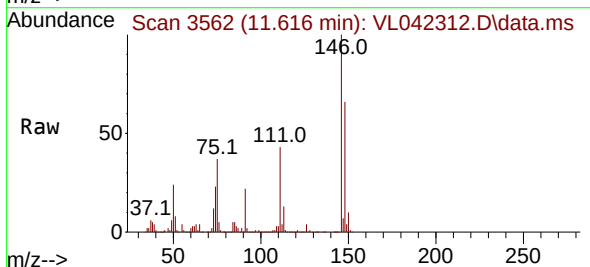
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

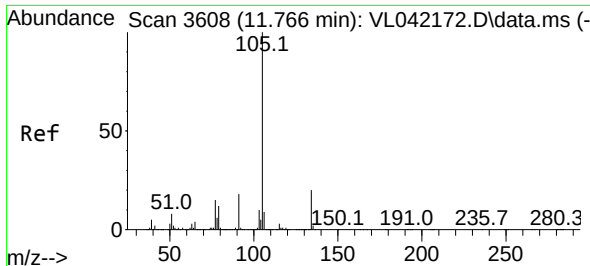
Tgt Ion:119 Resp: 932850
Ion Ratio Lower Upper
119 100
91 80.3 66.0 99.0
134 21.7 16.7 25.1



#66
Benzyl Chloride
Concen: 8.201 ppbv
RT: 11.616 min Scan# 3562
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 91 Resp: 68675
Ion Ratio Lower Upper
91 100
126 16.9 13.8 20.6
128 6.2 4.5 6.7

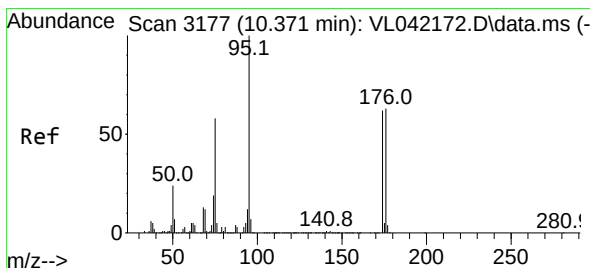
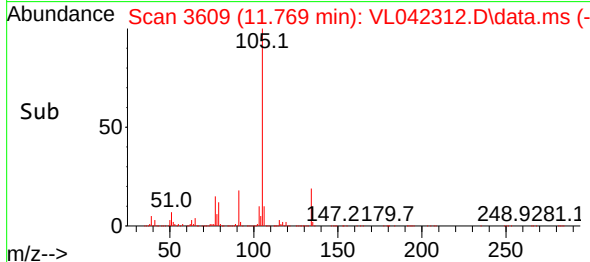
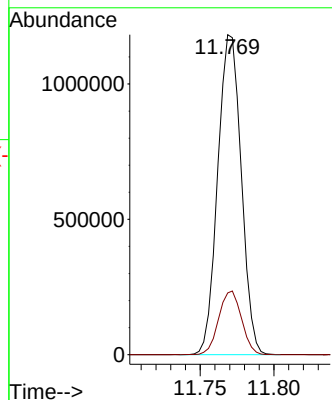
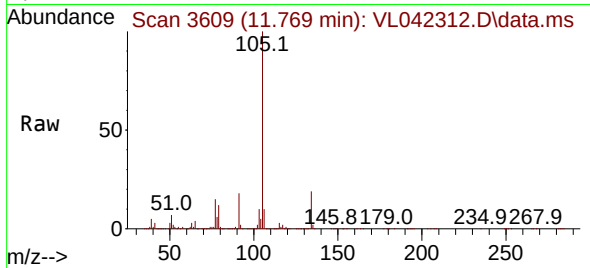




#67
 sec-Butylbenzene
 Concen: 11.942 ppbv
 RT: 11.769 min Scan# 3609
 Delta R.T. 0.003 min
 Lab File: VL042312.D
 Acq: 11 Apr 2025 09:50

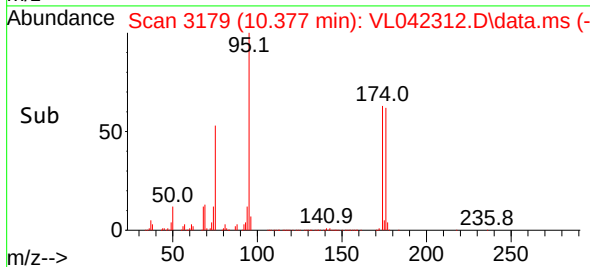
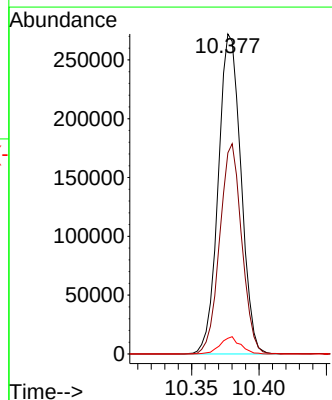
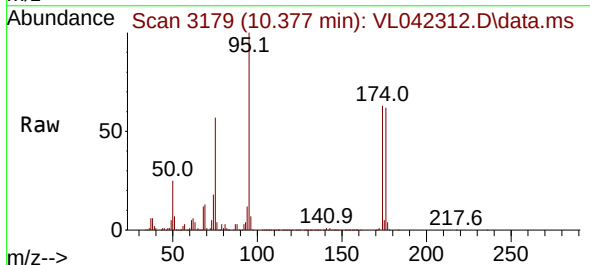
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDCCC010

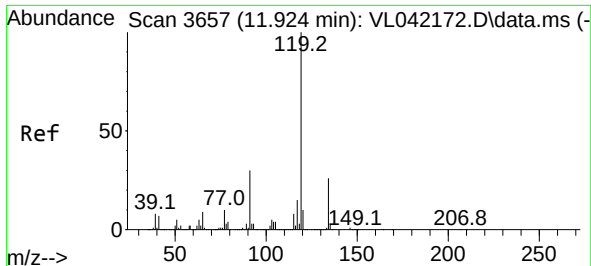
Tgt Ion:105 Resp: 1310042
 Ion Ratio Lower Upper
 105 100
 134 19.4 15.5 23.3



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.655 ppbv
 RT: 10.377 min Scan# 3179
 Delta R.T. 0.006 min
 Lab File: VL042312.D
 Acq: 11 Apr 2025 09:50

Tgt Ion: 95 Resp: 318204
 Ion Ratio Lower Upper
 95 100
 174 64.0 50.6 76.0
 175 4.9 3.8 5.6

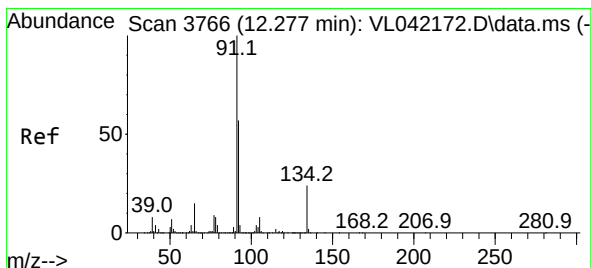
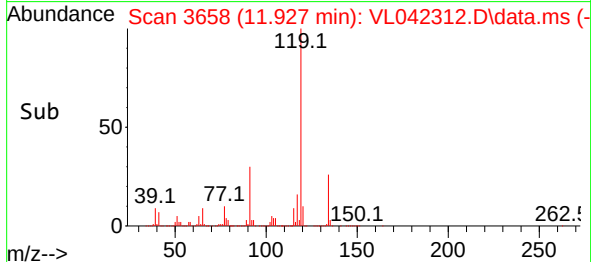
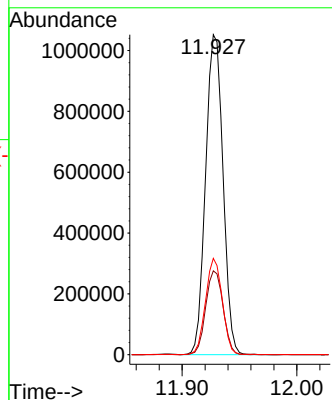
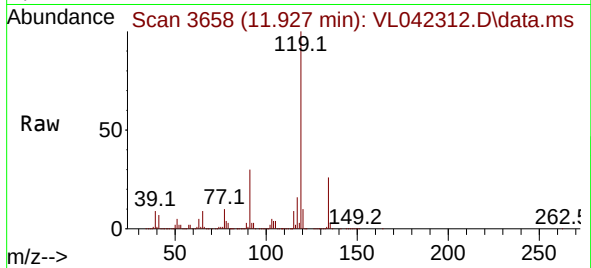




#69
p-Isopropyltoluene
Concen: 11.720 ppbv
RT: 11.927 min Scan# 3658
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

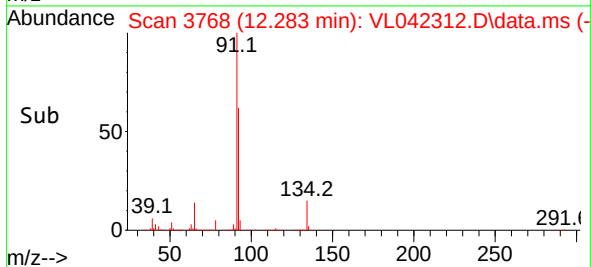
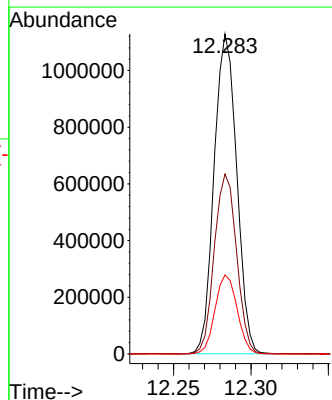
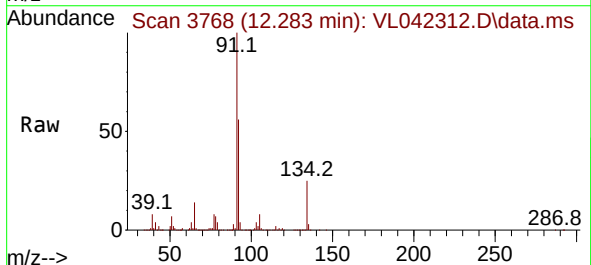
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

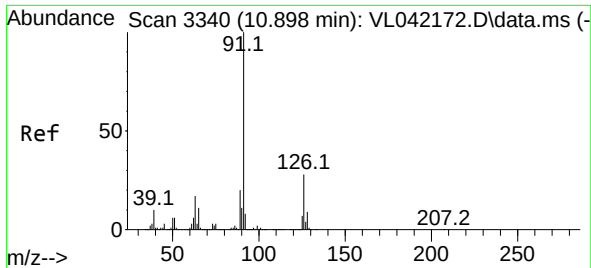
Tgt Ion:119 Resp: 1107045
Ion Ratio Lower Upper
119 100
134 26.2 20.4 30.6
91 29.0 23.7 35.5



#70
n-Butylbenzene
Concen: 11.848 ppbv
RT: 12.283 min Scan# 3768
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 91 Resp: 1144571
Ion Ratio Lower Upper
91 100
92 55.6 44.9 67.3
134 24.2 19.2 28.8

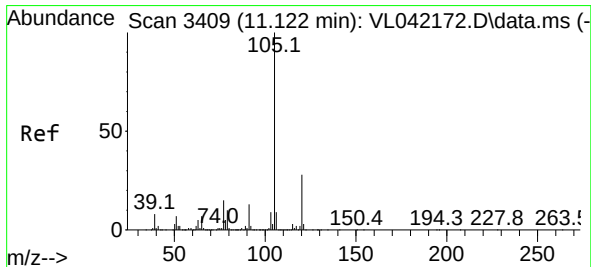
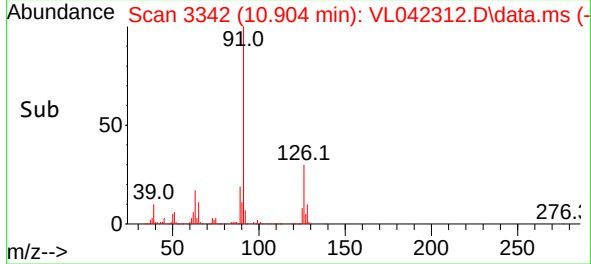
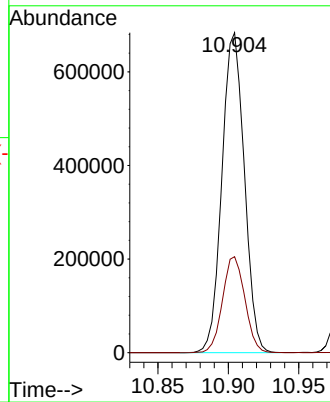
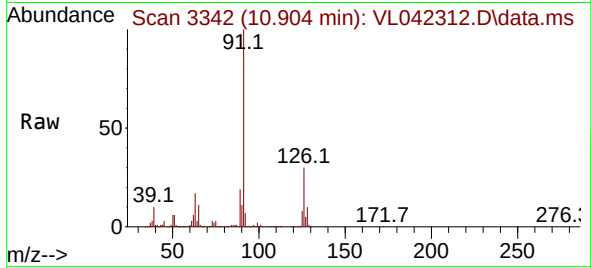




#71
2-Chlorotoluene
Concen: 11.423 ppbv
RT: 10.904 min Scan# 311
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

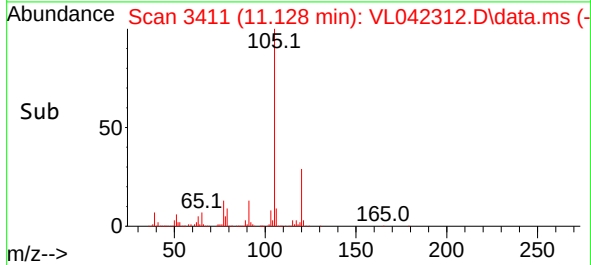
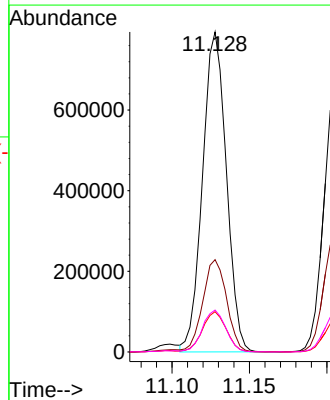
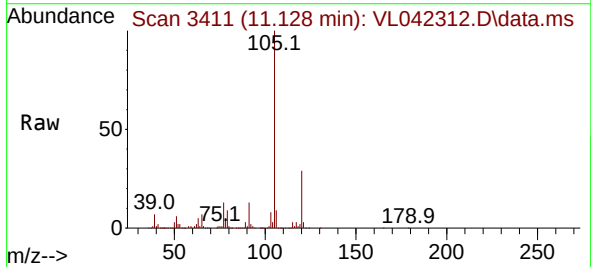
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

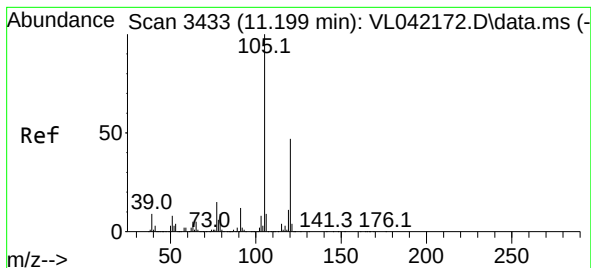
Tgt Ion: 91 Resp: 756562
Ion Ratio Lower Upper
91 100
126 29.9 11.6 46.4



#72
4-Ethyltoluene
Concen: 11.932 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 105 Resp: 847821
Ion Ratio Lower Upper
105 100
120 29.7 23.4 35.0
91 13.0 10.3 15.5
77 13.3 11.4 17.2





#73

1,3,5-Trimethylbenzene

Concen: 11.762 ppbv

RT: 11.205 min Scan# 34

Delta R.T. 0.006 min

Lab File: VL042312.D

Acq: 11 Apr 2025 09:50

Instrument :

MSVOA_1

ClientSampleId :

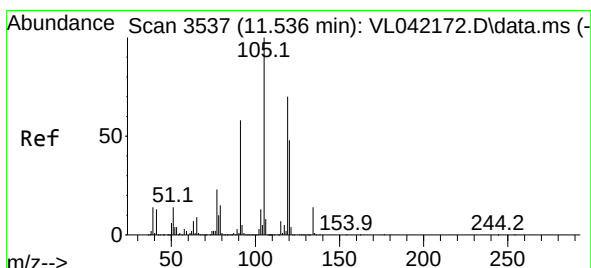
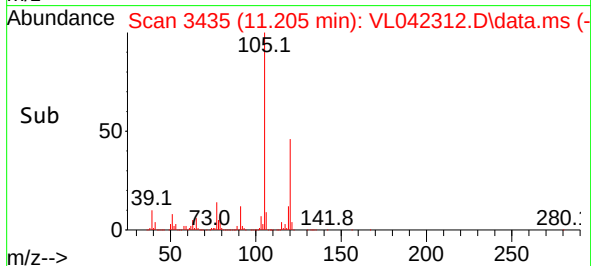
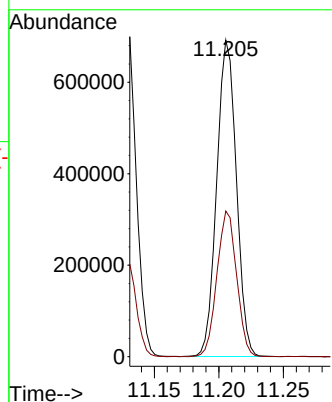
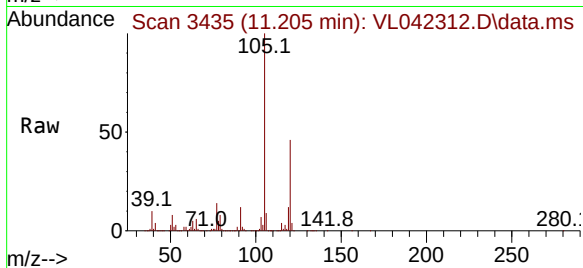
VSTDCCC010

Tgt Ion:105 Resp: 729887

Ion Ratio Lower Upper

105 100

120 46.0 37.4 56.0



#74

1,2,4-Trimethylbenzene

Concen: 11.463 ppbv

RT: 11.539 min Scan# 3538

Delta R.T. 0.003 min

Lab File: VL042312.D

Acq: 11 Apr 2025 09:50

Tgt Ion:105 Resp: 819490

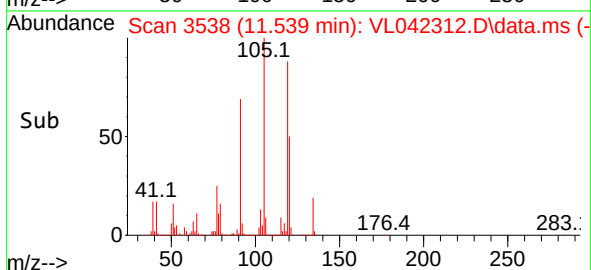
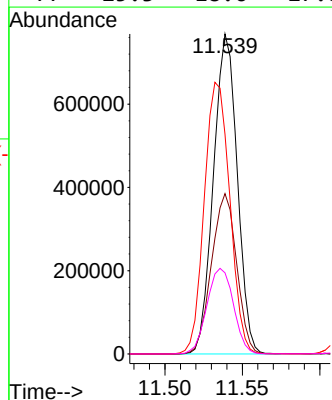
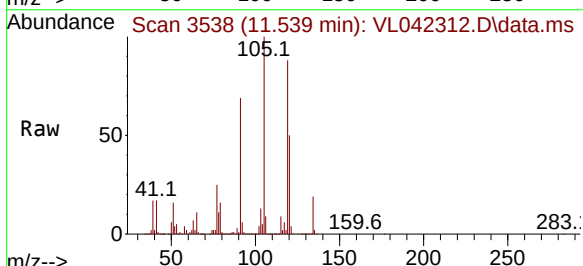
Ion Ratio Lower Upper

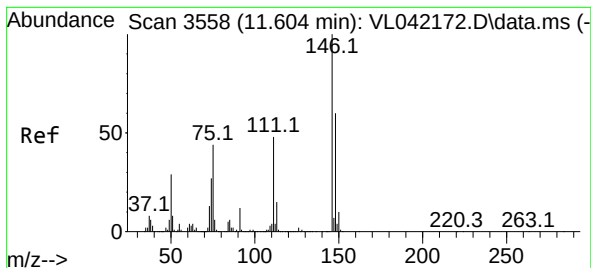
105 100

120 50.1 38.6 58.0

91 68.5 46.2 69.2

77 25.3 18.6 27.8





#75

1,3-Dichlorobenzene

Concen: 12.562 ppbv

RT: 11.610 min Scan# 3558

Delta R.T. 0.006 min

Lab File: VL042312.D

Acq: 11 Apr 2025 09:50

Instrument :

MSVOA_1

ClientSampleId :

VSTDCCC010

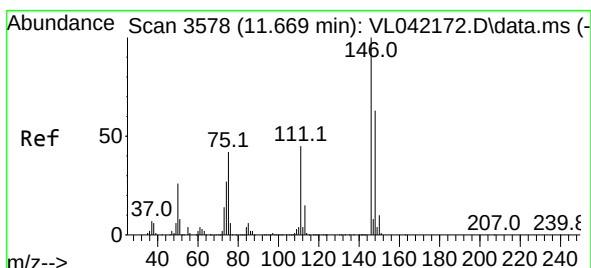
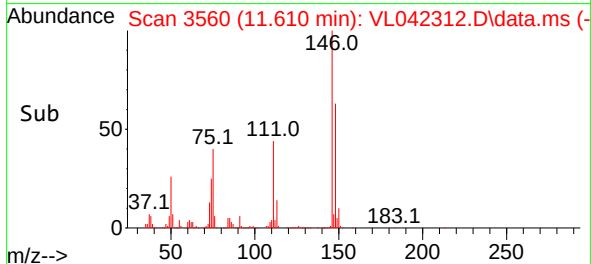
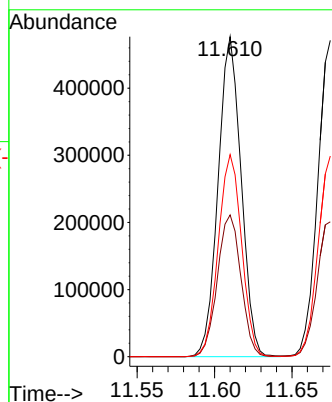
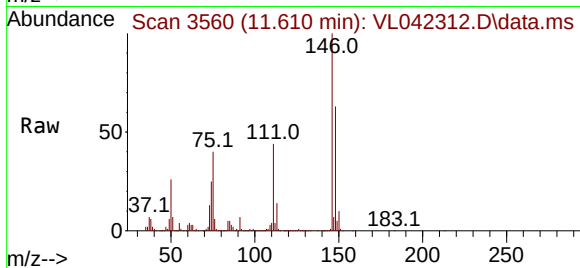
Tgt Ion:146 Resp: 492549

Ion Ratio Lower Upper

146 100

111 45.5 23.8 71.2

148 64.0 31.9 95.9



#76

1,4-Dichlorobenzene

Concen: 12.522 ppbv

RT: 11.675 min Scan# 3580

Delta R.T. 0.006 min

Lab File: VL042312.D

Acq: 11 Apr 2025 09:50

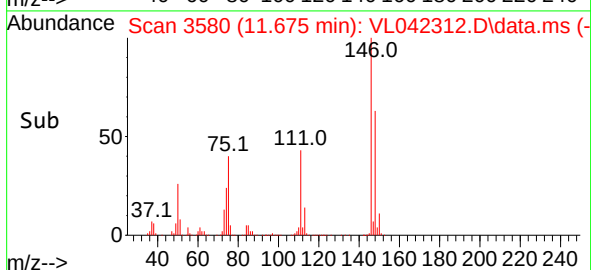
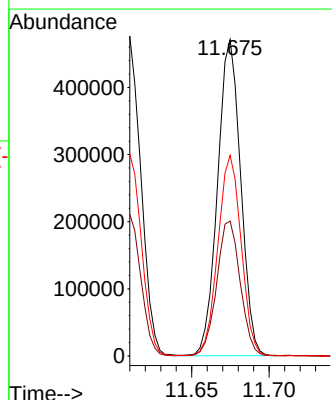
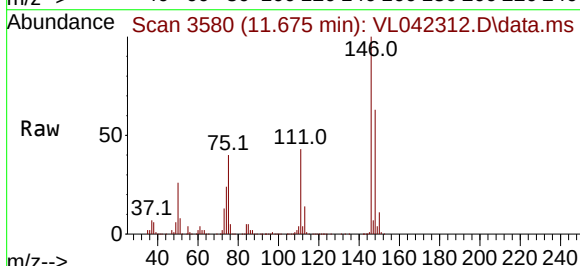
Tgt Ion:146 Resp: 488636

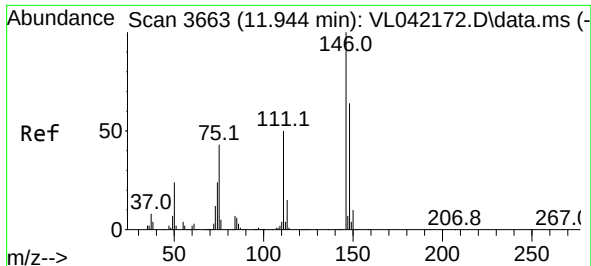
Ion Ratio Lower Upper

146 100

111 43.7 23.0 69.0

148 64.0 31.9 95.7

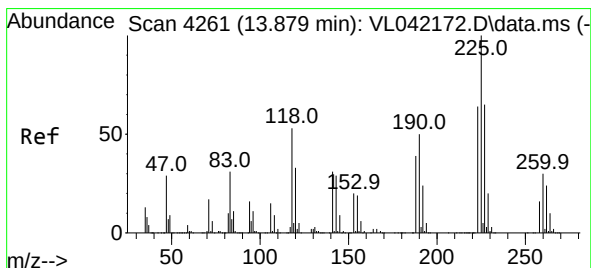
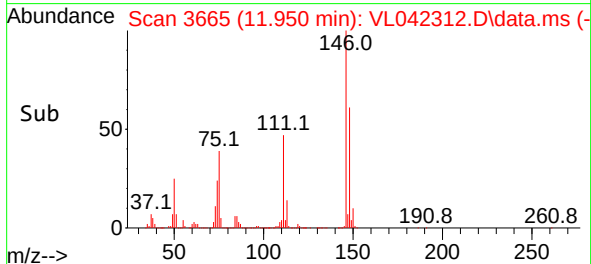
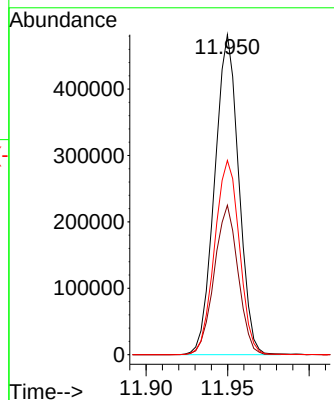
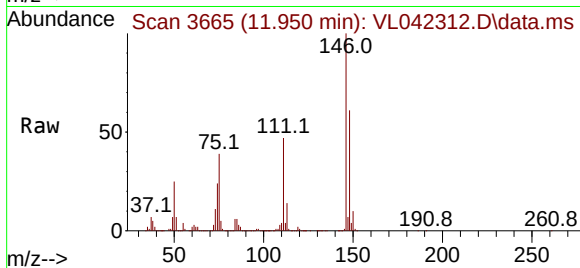




#77
 1,2-Dichlorobenzene
 Concen: 12.959 ppbv
 RT: 11.950 min Scan# 3665
 Delta R.T. 0.006 min
 Lab File: VL042312.D
 Acq: 11 Apr 2025 09:50

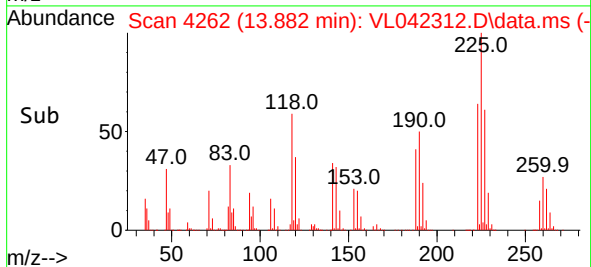
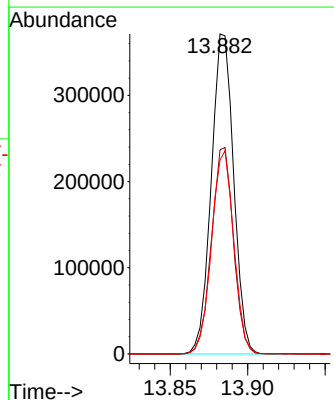
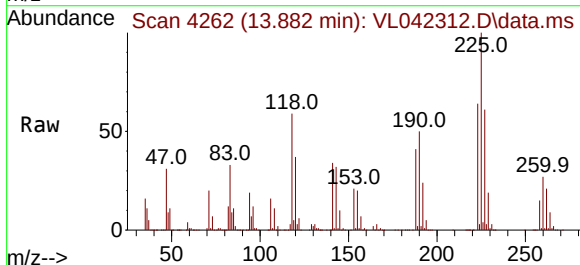
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDCCC010

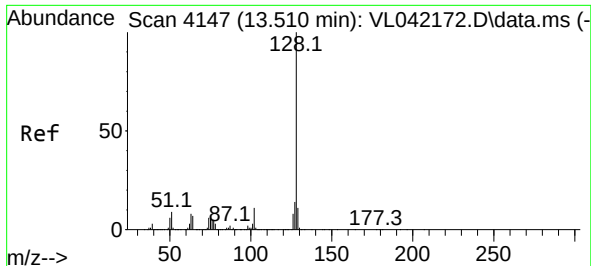
Tgt Ion:146 Resp: 494739
 Ion Ratio Lower Upper
 146 100
 111 46.4 24.8 74.3
 148 62.7 31.6 94.8



#78
 Hexachloro-1,3-Butadiene
 Concen: 9.599 ppbv
 RT: 13.882 min Scan# 4262
 Delta R.T. 0.003 min
 Lab File: VL042312.D
 Acq: 11 Apr 2025 09:50

Tgt Ion:225 Resp: 373025
 Ion Ratio Lower Upper
 225 100
 223 63.4 50.6 76.0
 227 62.8 51.2 76.8

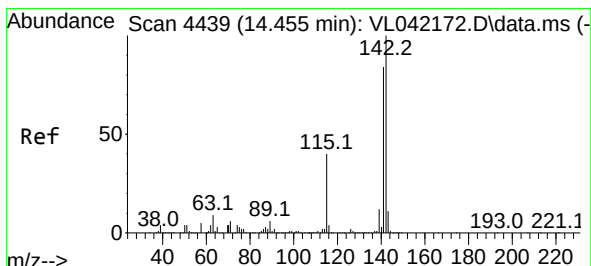
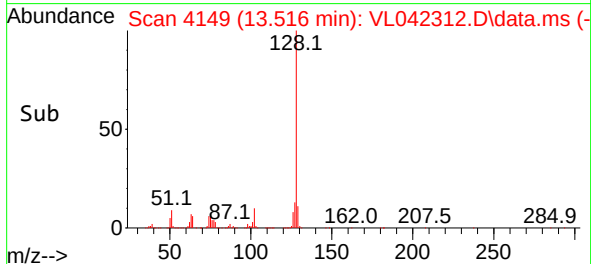
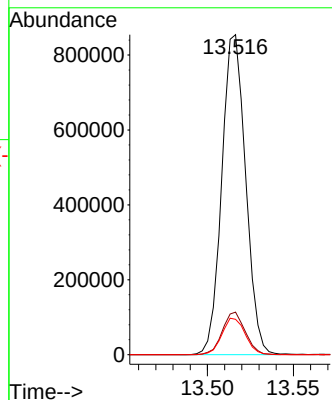
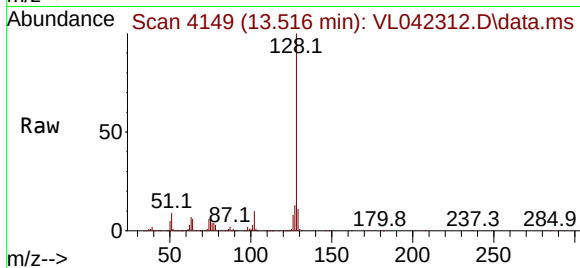




#79
Naphthalene
Concen: 10.550 ppbv
RT: 13.516 min Scan# 4147
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

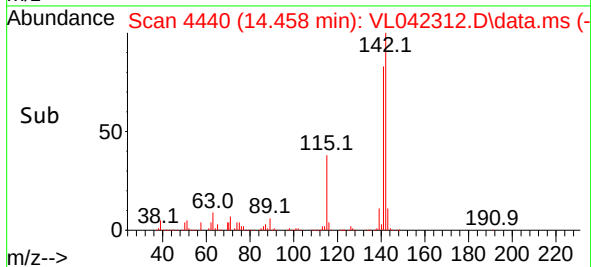
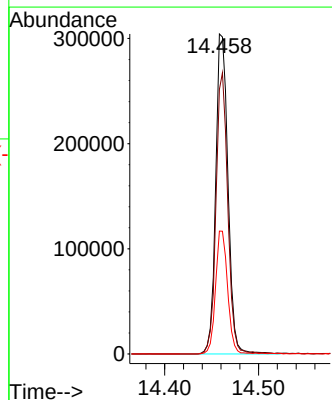
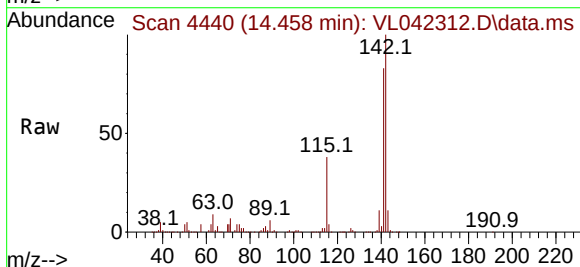
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

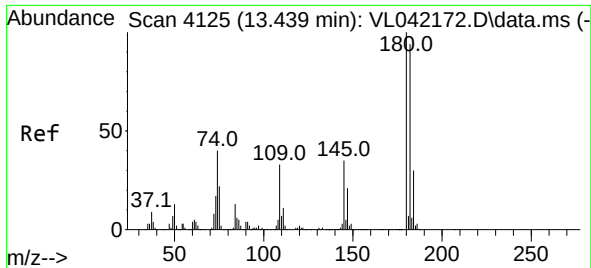
Tgt Ion:128 Resp: 824947
Ion Ratio Lower Upper
128 100
127 13.3 10.8 16.2
129 11.1 9.0 13.4



#80
Naphthalene,2-methyl-
Concen: 7.212 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

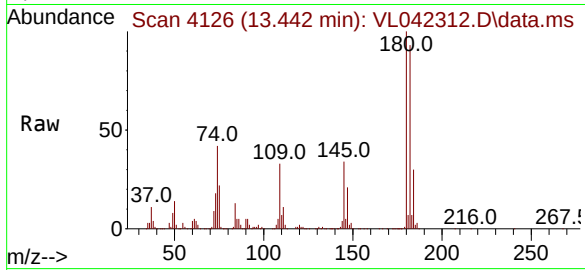
Tgt Ion:142 Resp: 276556
Ion Ratio Lower Upper
142 100
141 84.7 66.3 99.5
115 38.0 31.6 47.4





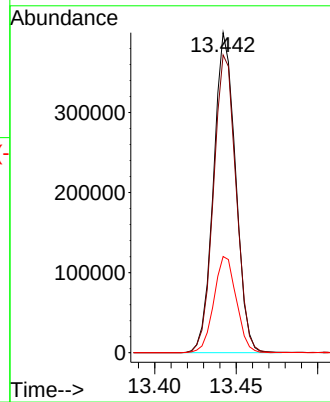
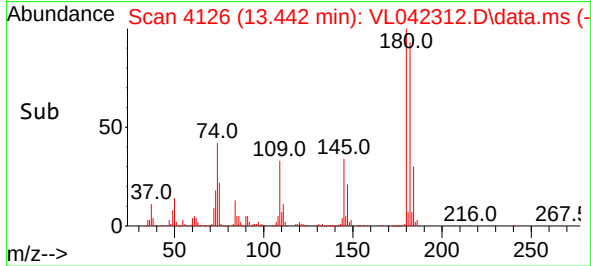
#81
 1,2,4-Trichlorobenzene
 Concen: 10.389 ppbv
 RT: 13.442 min Scan# 4126
 Delta R.T. 0.003 min
 Lab File: VL042312.D
 Acq: 11 Apr 2025 09:50

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



Tgt Ion:180 Resp: 374714

Ion	Ratio	Lower	Upper
180	100		
182	95.6	75.1	112.7
184	30.8	24.4	36.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
 Data File : VL042314.D
 Acq On : 11 Apr 2025 11:23
 Operator : SY/MD
 Sample : VL0411ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0411ABS01

Quant Time: Apr 11 22:57:41 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	2.784	49	178456	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	444353	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	386060	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	314180	9.910	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.100%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.496	85	260154	9.873	ppbv	99
3) Chlorodifluoromethane	1.473	51	278310	10.339	ppbv	99
4) Chloromethane	1.531	50	109906	10.207	ppbv	97
5) Vinyl Chloride	1.577	62	99540	8.723	ppbv	96
6) Bromomethane	1.667	94	43354	8.884	ppbv	99
7) Chloroethane	1.703	64	40372	9.340	ppbv	100
8) Dichlorotetrafluoroethane	1.551	85	219210	9.769	ppbv	94
9) Propene	1.483	41	109077	8.841	ppbv	98
10) Heptane	4.975	43	325268	9.912	ppbv	98
11) Trichlorofluoromethane	1.874	101	247344	9.647	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.136	101	191456	9.085	ppbv	97
13) Ethanol	1.719	45	4928	4.225	ppbv	95
14) Bromoethene	1.780	108	70702	8.758	ppbv	99
15) Acetone	1.832	43	228988	9.175	ppbv	95
16) 1,3-Butadiene	1.606	39	110429	9.060	ppbv	97
17) tert-Butyl alcohol	2.039	59	243034	7.818	ppbv	100
18) 1,1-Dichloroethene	2.030	96	83233	8.449	ppbv	97
19) Isopropyl Alcohol	1.884	45	118345	8.404	ppbv #	34
20) Methylene Chloride	2.059	84	75264	8.097	ppbv	93
21) Allyl Chloride	2.094	41	157261	8.934	ppbv	98
22) trans-1,2-Dichloroethene	2.337	96	98769	8.674	ppbv	96
23) Vinyl Acetate	2.460	43	86563	8.014	ppbv	98
24) 1,1-Dichloroethane	2.405	63	206840	9.800	ppbv	99
25) Ethyl Acetate	2.836	43	656719	10.138	ppbv	99
26) Hexane	2.823	57	249860	9.986	ppbv	98
27) Carbon Disulfide	2.146	76	236998	8.833	ppbv	99
28) Methyl tert-Butyl Ether	2.438	73	122818	7.884	ppbv	97
29) Chloroform	2.845	83	384713	10.506	ppbv	100
30) Cyclohexane	3.852	84	196133	9.028	ppbv	97
31) cis-1,2-Dichloroethene	2.719	61	233371	9.187	ppbv	97
32) 1,1,1-Trichloroethane	3.363	97	370405	8.836	ppbv	98
34) 2-Butanone	2.554	43	362633	11.254	ppbv	98
35) Carbon Tetrachloride	3.758	117	389738	11.228	ppbv	99
36) Benzene	3.654	78	490339	11.131	ppbv	96
37) 1,2-Dichloroethane	3.214	62	290983	11.538	ppbv	100
38) Trichloroethene	4.545	130	195654	10.645	ppbv	99
39) 1,2-Dichloropropane	4.312	63	179954	11.217	ppbv	91
40) 1,4-Dioxane	4.580	88	80106	9.408	ppbv #	83
41) Tetrahydrofuran	3.052	42	202793	10.930	ppbv	94
42) Bromodichloromethane	4.486	83	405729	11.669	ppbv	97
43) Methyl Methacrylate	4.875	69	177423	9.514	ppbv	98
44) 2,2,4-Trimethylpentane	4.635	57	850971	11.431	ppbv	97
45) t-1,3-Dichloropropene	6.412	75	166246	8.309	ppbv	93

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
 Data File : VL042314.D
 Acq On : 11 Apr 2025 11:23
 Operator : SY/MD
 Sample : VL0411ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0411ABS01

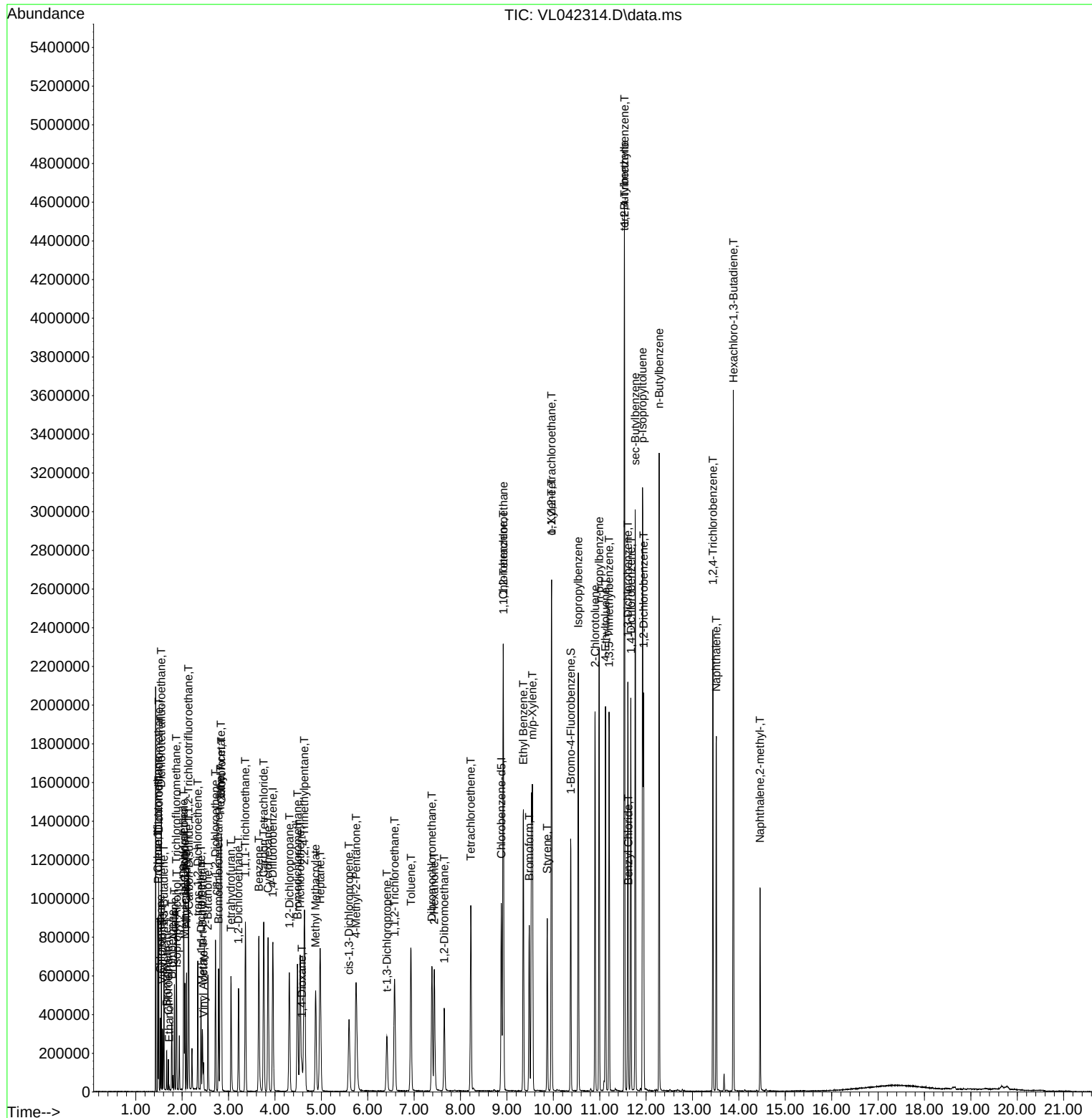
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 QLast Update : Fri Mar 28 02:00:52 2025
 Response via : Initial Calibration

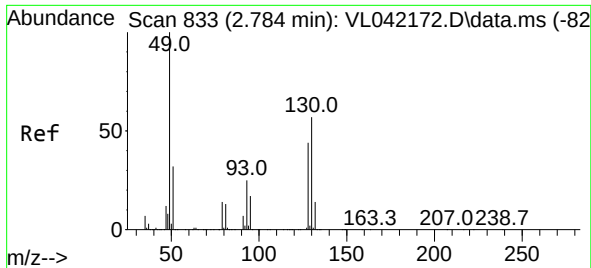
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.596	75	225952	9.213	ppbv	99
47) 1,1,2-Trichloroethane	6.580	97	198762	11.720	ppbv	97
48) Dibromochloromethane	7.383	129	321370	11.181	ppbv	100
49) Bromoform	9.480	173	291905	11.313	ppbv	99
50) 4-Methyl-2-Pentanone	5.749	43	514910	10.084	ppbv	95
51) 2-Hexanone	7.435	43	414681	9.889	ppbv #	94
52) Tetrachloroethene	8.221	164	165666	9.483	ppbv	96
53) Toluene	6.933	91	526341	10.079	ppbv	99
54) 1,2-Dibromoethane	7.649	107	264126	11.172	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.924	131	271061	12.755	ppbv	97
57) Chlorobenzene	8.921	112	457204	12.486	ppbv	96
58) Ethyl Benzene	9.354	91	761549	11.105	ppbv	98
59) m/p-Xylene	9.548	91	575744	10.514	ppbv #	6
60) o-Xylene	9.963	91	654791	11.929	ppbv	96
61) Styrene	9.869	104	284318	10.470	ppbv	98
62) Isopropylbenzene	10.539	105	975799	11.887	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.963	83	440972	13.222	ppbv	100
64) n-propylbenzene	10.989	120	264518	12.518	ppbv	96
65) tert-Butylbenzene	11.529	119	908946	11.973	ppbv	99
66) Benzyl Chloride	11.617	91	69548	8.634	ppbv	98
67) sec-Butylbenzene	11.765	105	1300090	12.320	ppbv	100
69) p-Isopropyltoluene	11.924	119	1095041	12.051	ppbv	98
70) n-Butylbenzene	12.280	91	1129853	12.159	ppbv	100
71) 2-Chlorotoluene	10.901	91	749737	11.768	ppbv	99
72) 4-Ethyltoluene	11.125	105	825037	12.071	ppbv	99
73) 1,3,5-Trimethylbenzene	11.202	105	711175	11.914	ppbv	99
74) 1,2,4-Trimethylbenzene	11.536	105	816505	11.873	ppbv	91
75) 1,3-Dichlorobenzene	11.607	146	484099	12.835	ppbv	98
76) 1,4-Dichlorobenzene	11.672	146	485460	12.933	ppbv	98
77) 1,2-Dichlorobenzene	11.947	146	485421	13.218	ppbv	98
78) Hexachloro-1,3-Butadiene	13.882	225	366850	9.814	ppbv	99
79) Naphthalene	13.513	128	820200	10.904	ppbv	100
80) Naphthalene,2-methyl-	14.455	142	274227	7.434	ppbv	98
81) 1,2,4-Trichlorobenzene	13.439	180	373404	10.762	ppbv	99

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

Instrument :
MSVOA_L
ClientSampleId :
VL0411ABS01

Quant Time: Apr 11 22:57:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

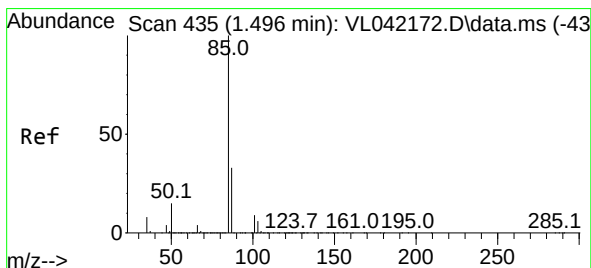
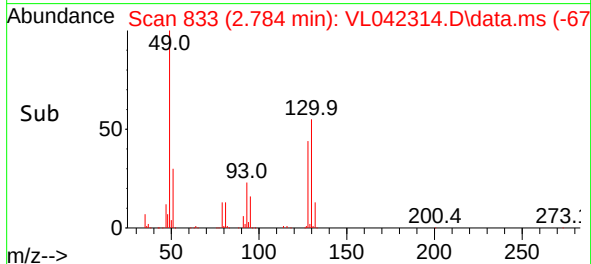
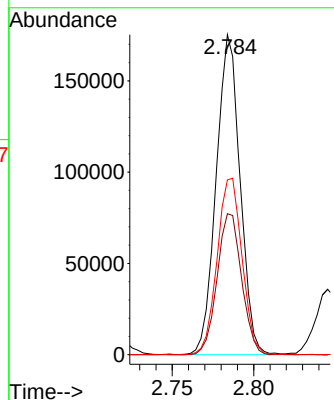
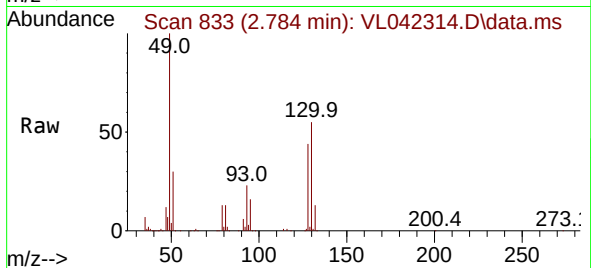




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.784 min Scan# 81
 Delta R.T. -0.000 min
 Lab File: VL042314.D
 Acq: 11 Apr 2025 11:23

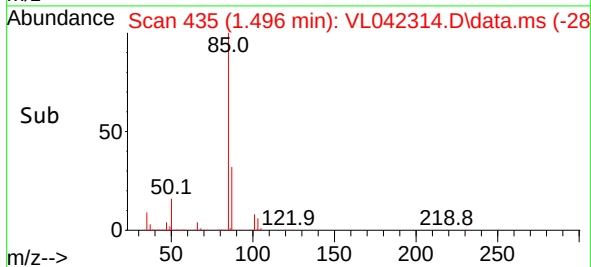
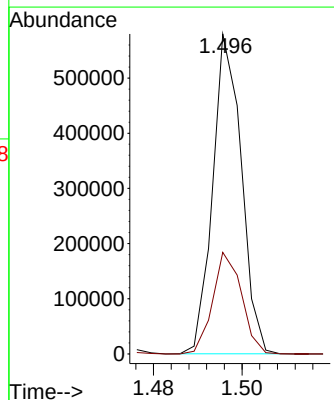
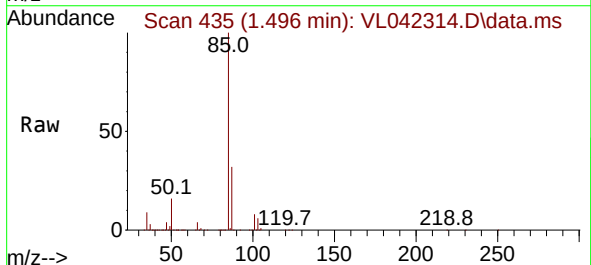
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0411ABS01

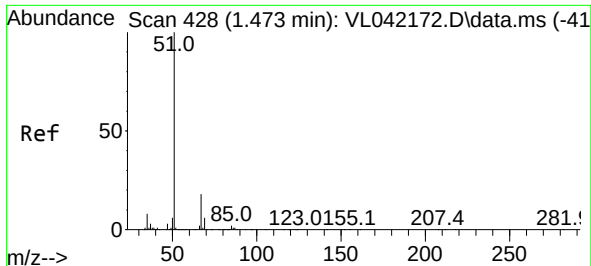
Tgt Ion: 49 Resp: 178456
 Ion Ratio Lower Upper
 49 100
 128 45.1 22.9 68.5
 130 57.3 28.8 86.4



#2
 Dichlorodifluoromethane
 Concen: 9.873 ppbv
 RT: 1.496 min Scan# 435
 Delta R.T. -0.000 min
 Lab File: VL042314.D
 Acq: 11 Apr 2025 11:23

Tgt Ion: 85 Resp: 260154
 Ion Ratio Lower Upper
 85 100
 87 31.8 26.1 39.1

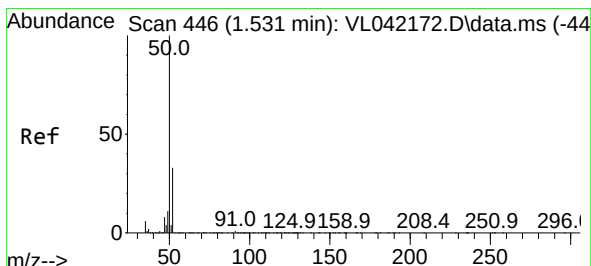
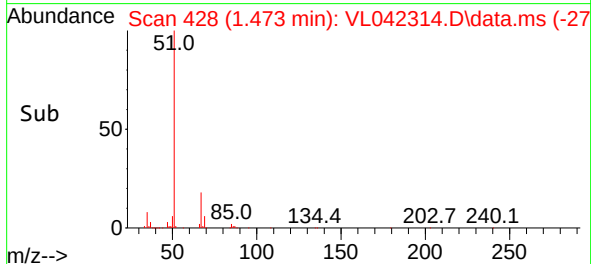
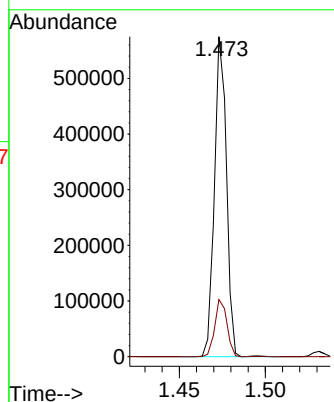
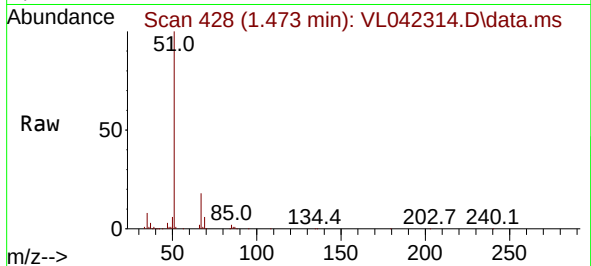




#3
Chlorodifluoromethane
Concen: 10.339 ppbv
RT: 1.473 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

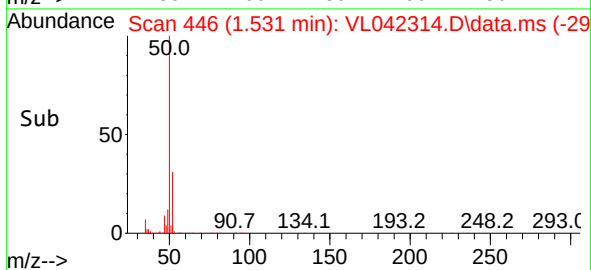
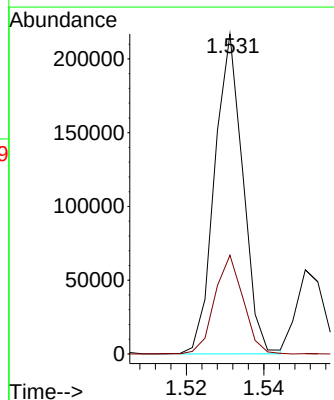
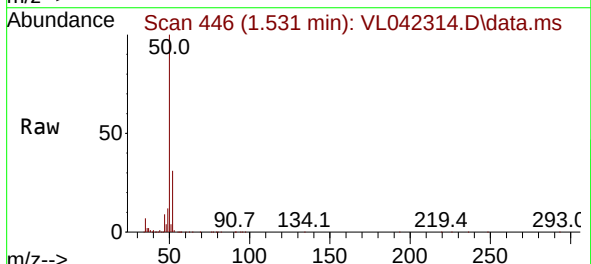
Instrument :
MSVOA_L
ClientSampleId :
VL0411ABS01

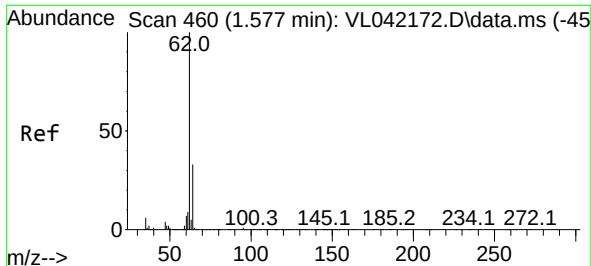
Tgt Ion: 51 Resp: 278310
Ion Ratio Lower Upper
51 100
67 18.2 15.0 22.6



#4
Chloromethane
Concen: 10.207 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 50 Resp: 109906
Ion Ratio Lower Upper
50 100
52 30.8 26.1 39.1

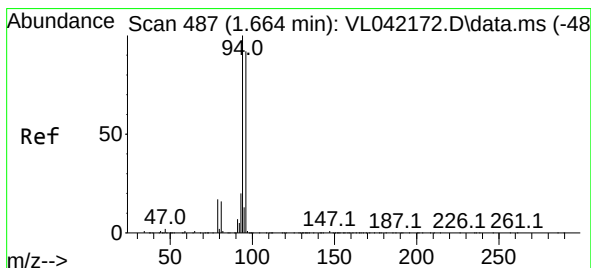
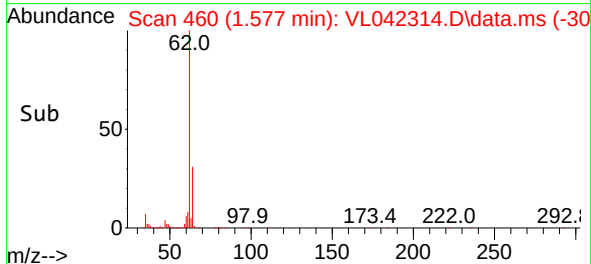
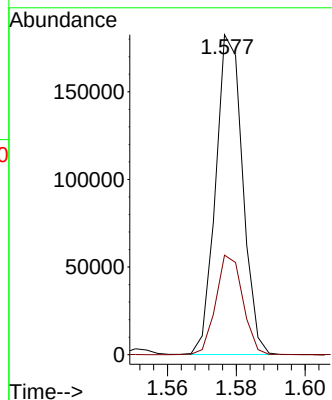
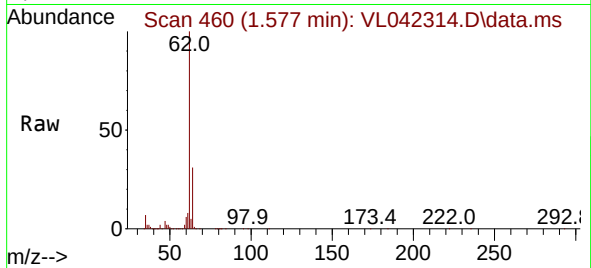




#5
Vinyl Chloride
Concen: 8.723 ppbv
RT: 1.577 min Scan# 460
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

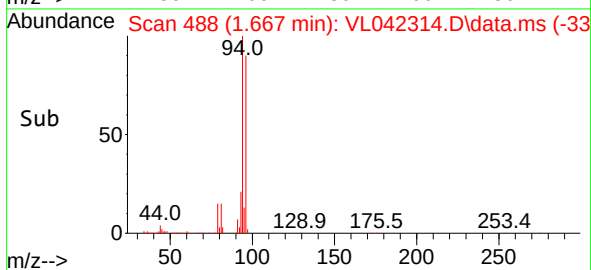
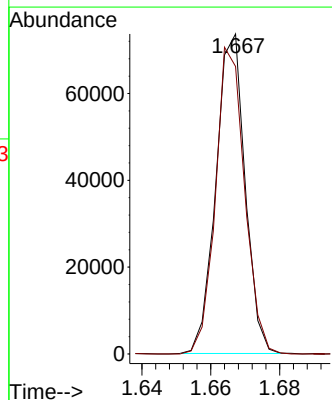
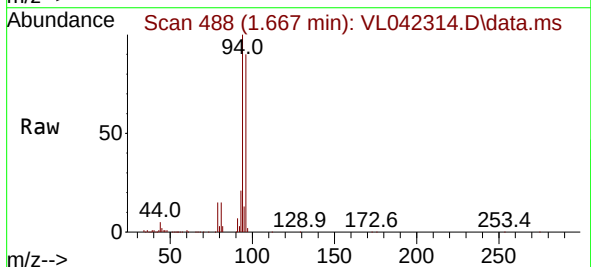
Instrument :
MSVOA_1
ClientSampleId :
VL0411ABS01

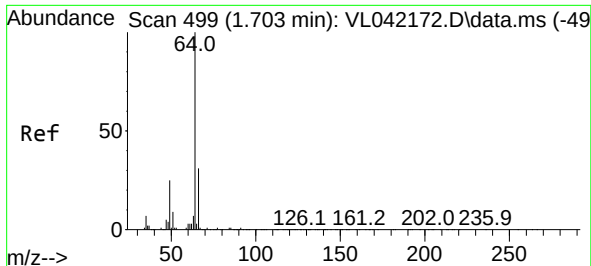
Tgt Ion: 62 Resp: 99540
Ion Ratio Lower Upper
62 100
64 31.0 26.6 40.0



#6
Bromomethane
Concen: 8.884 ppbv
RT: 1.667 min Scan# 488
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 94 Resp: 43354
Ion Ratio Lower Upper
94 100
96 90.0 73.1 109.7

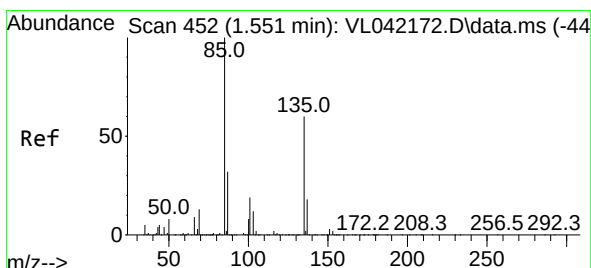
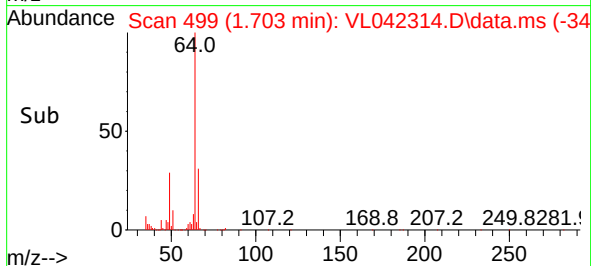
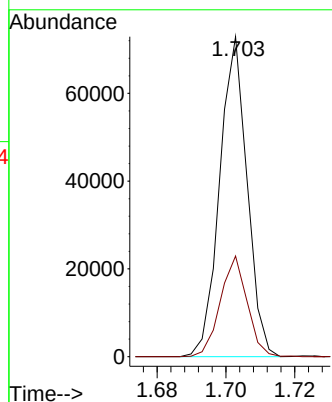
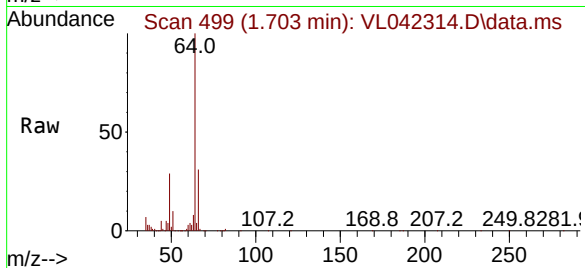




#7
Chloroethane
Concen: 9.340 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

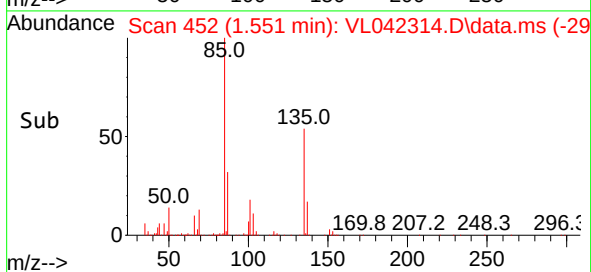
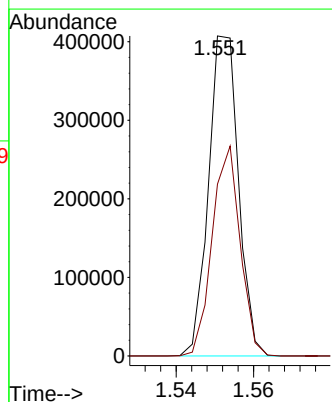
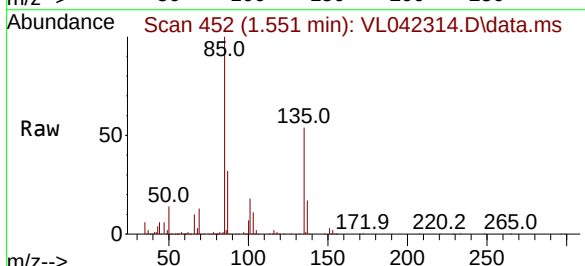
Instrument :
MSVOA_1
ClientSampleId :
VL0411ABS01

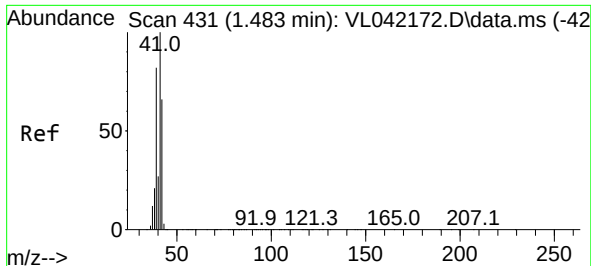
Tgt Ion: 64 Resp: 40372
Ion Ratio Lower Upper
64 100
66 31.5 25.2 37.8



#8
Dichlorotetrafluoroethane
Concen: 9.769 ppbv
RT: 1.551 min Scan# 452
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 85 Resp: 219210
Ion Ratio Lower Upper
85 100
135 61.1 52.4 78.6

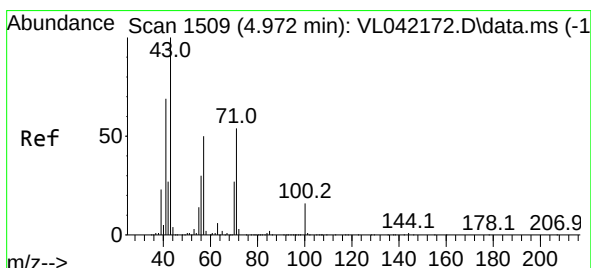
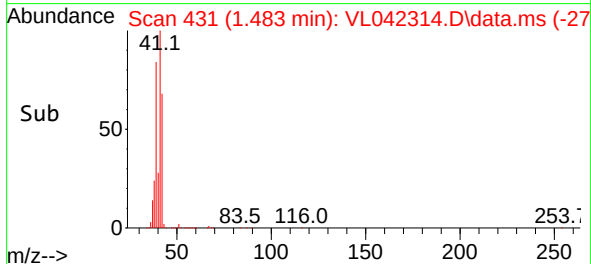
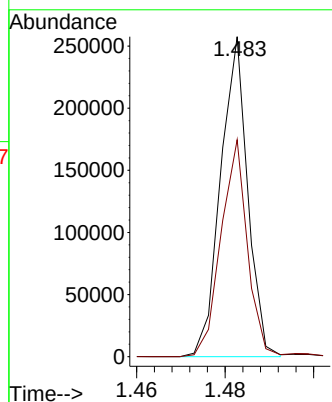
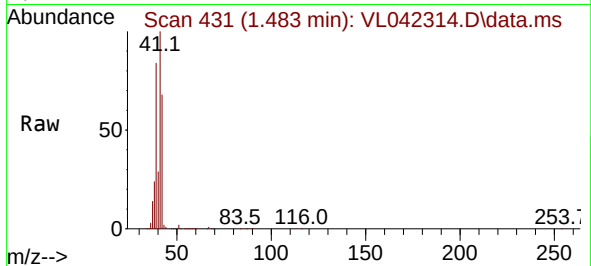




#9
 Propene
 Concen: 8.841 ppbv
 RT: 1.483 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VL042314.D
 Acq: 11 Apr 2025 11:23

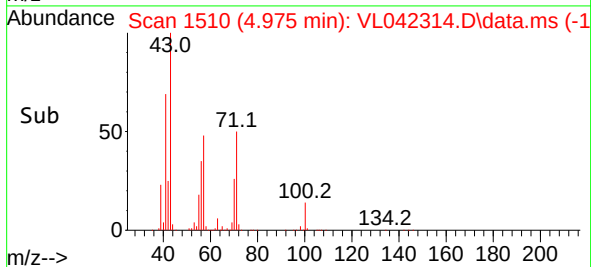
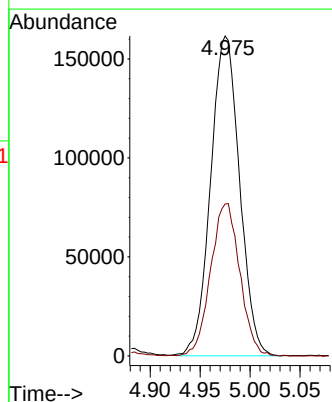
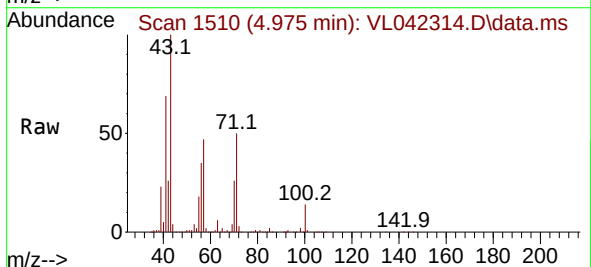
Instrument :
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 ClientSampleId :
 VL0411ABS01

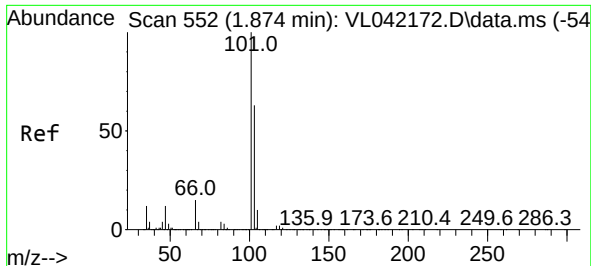
Tgt Ion: 41 Resp: 109077
 Ion Ratio Lower Upper
 41 100
 42 67.5 55.4 83.2



#10
 Heptane
 Concen: 9.912 ppbv
 RT: 4.975 min Scan# 1510
 Delta R.T. 0.003 min
 Lab File: VL042314.D
 Acq: 11 Apr 2025 11:23

Tgt Ion: 43 Resp: 325268
 Ion Ratio Lower Upper
 43 100
 57 48.1 39.4 59.2

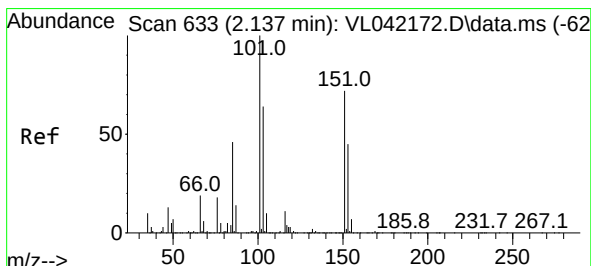
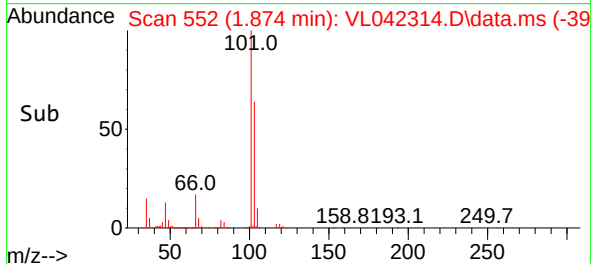
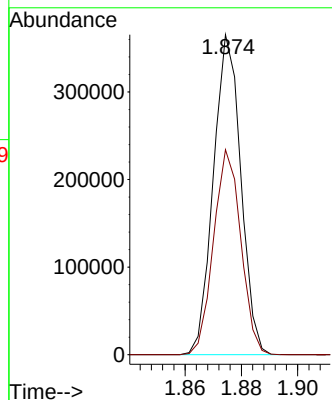
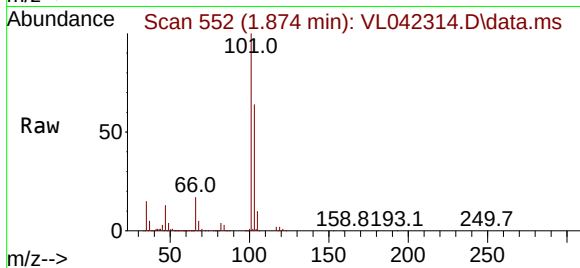




#11
 Trichlorofluoromethane
 Concen: 9.647 ppbv
 RT: 1.874 min Scan# 511
 Delta R.T. -0.000 min
 Lab File: VL042314.D
 Acq: 11 Apr 2025 11:23

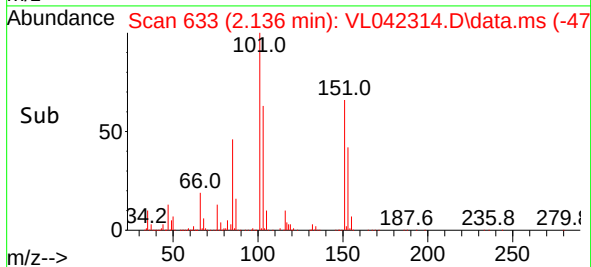
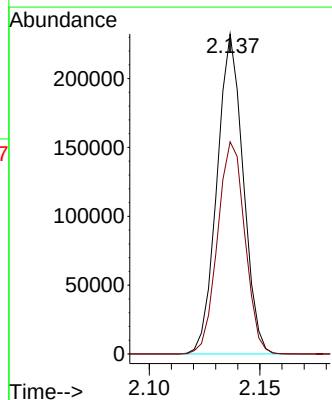
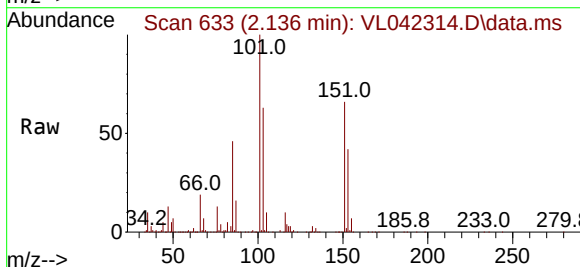
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0411ABS01

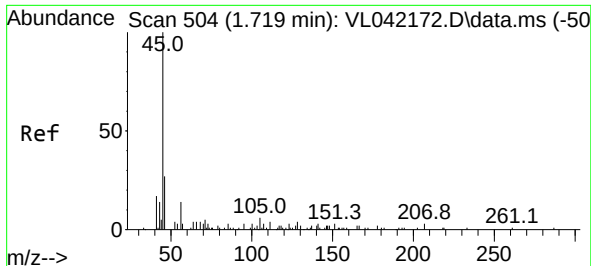
Tgt Ion:101 Resp: 247344
 Ion Ratio Lower Upper
 101 100
 103 64.0 50.2 75.2



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.085 ppbv
 RT: 2.136 min Scan# 633
 Delta R.T. -0.000 min
 Lab File: VL042314.D
 Acq: 11 Apr 2025 11:23

Tgt Ion:101 Resp: 191456
 Ion Ratio Lower Upper
 101 100
 151 69.3 57.1 85.7

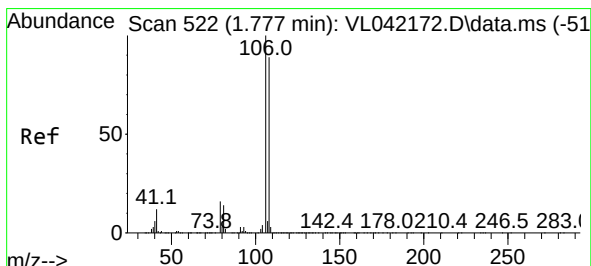
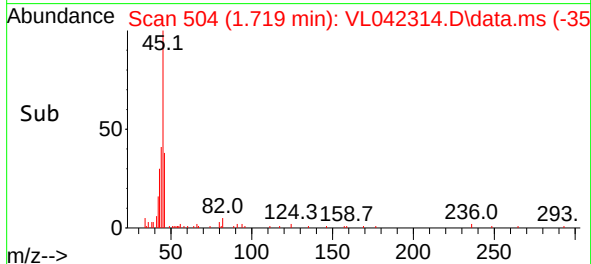
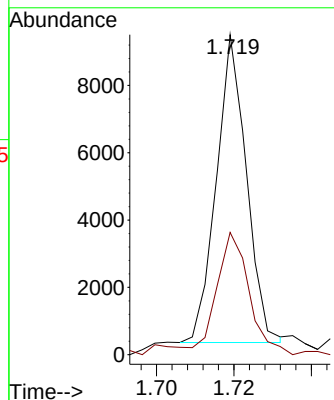
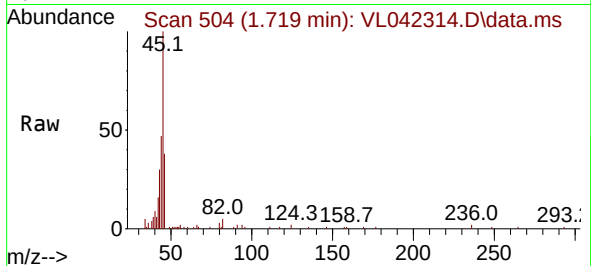




#13
Ethanol
Concen: 4.225 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

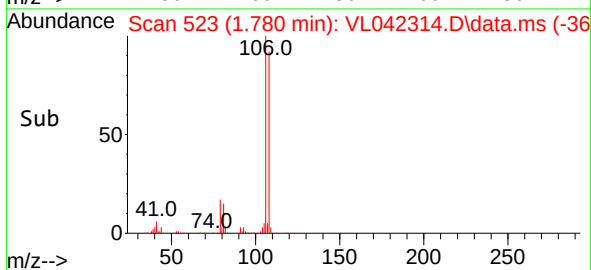
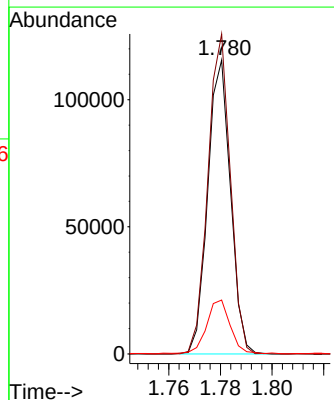
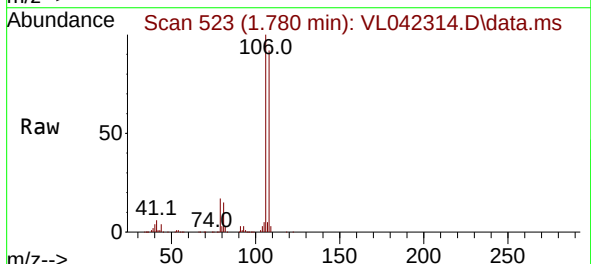
Instrument :
MSVOA_1
ClientSampleId :
VL0411ABS01

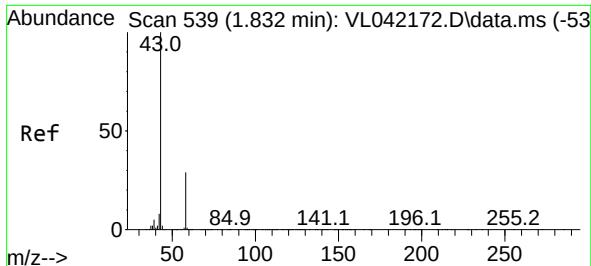
Tgt Ion: 45 Resp: 4928
Ion Ratio Lower Upper
45 100
46 46.9 20.2 80.8



#14
Bromoethene
Concen: 8.758 ppbv
RT: 1.780 min Scan# 523
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 108 Resp: 70702
Ion Ratio Lower Upper
108 100
106 107.1 86.8 130.2
79 19.5 15.0 22.6

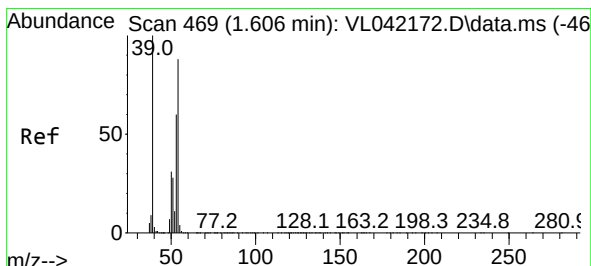
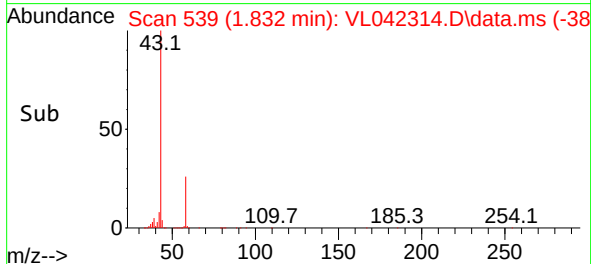
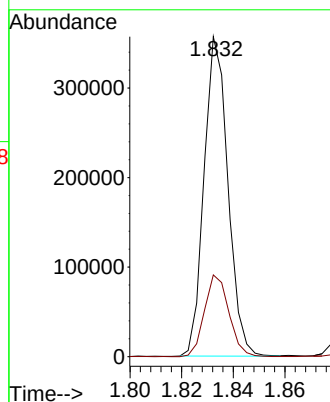
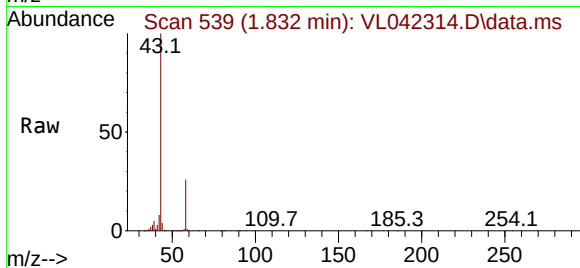




#15
Acetone
Concen: 9.175 ppbv
RT: 1.832 min Scan# 51
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

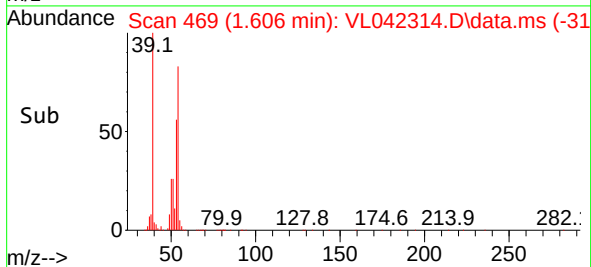
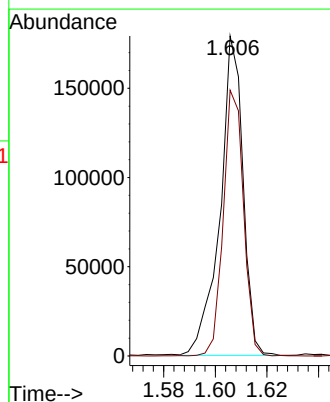
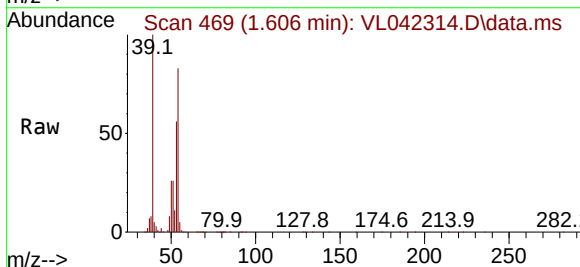
Instrument :
MSVOA_L
ClientSampleId :
VL0411ABS01

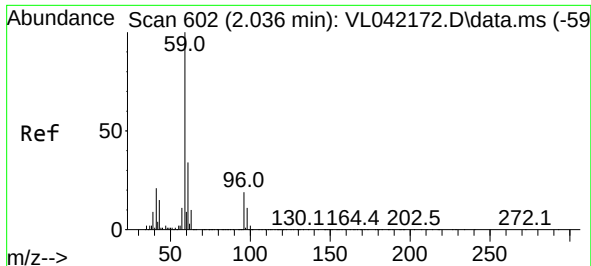
Tgt Ion: 43 Resp: 228988
Ion Ratio Lower Upper
43 100
58 26.3 23.2 34.8



#16
1,3-Butadiene
Concen: 9.060 ppbv
RT: 1.606 min Scan# 469
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 39 Resp: 110429
Ion Ratio Lower Upper
39 100
54 73.5 60.7 91.1





#17

tert-Butyl alcohol

Concen: 7.818 ppbv

RT: 2.039 min Scan# 602

Delta R.T. 0.003 min

Lab File: VL042314.D

Acq: 11 Apr 2025 11:23

Instrument :

MSVOA_1

ClientSampleId :

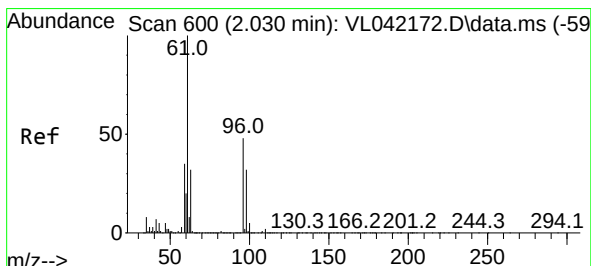
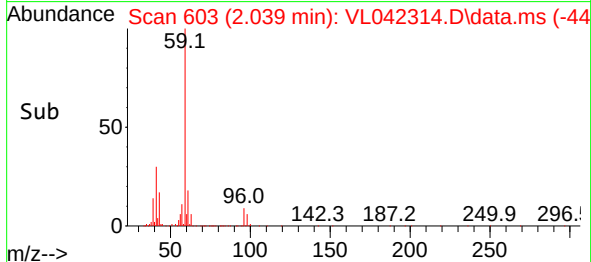
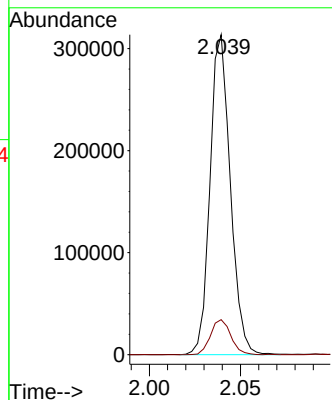
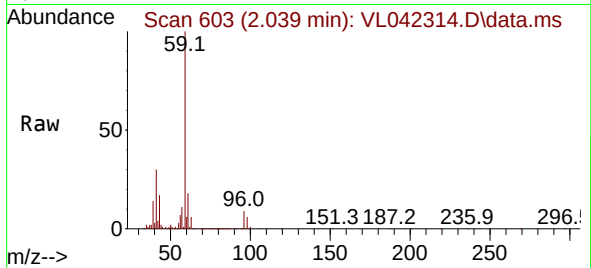
VL0411ABS01

Tgt Ion: 59 Resp: 243034

Ion Ratio Lower Upper

59 100

57 11.0 8.9 13.3



#18

1,1-Dichloroethene

Concen: 8.449 ppbv

RT: 2.030 min Scan# 600

Delta R.T. -0.000 min

Lab File: VL042314.D

Acq: 11 Apr 2025 11:23

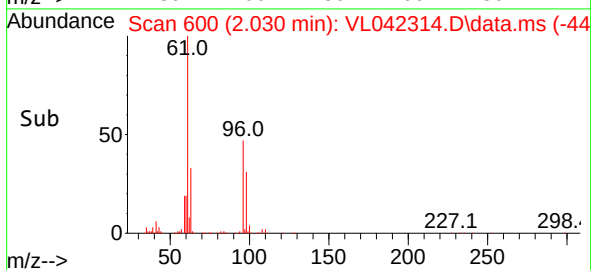
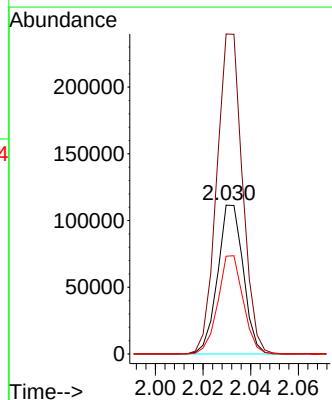
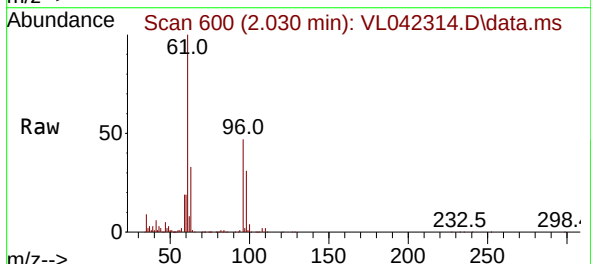
Tgt Ion: 96 Resp: 83233

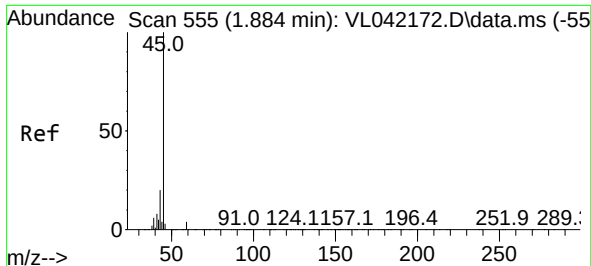
Ion Ratio Lower Upper

96 100

61 215.0 167.6 251.4

98 65.6 53.5 80.3

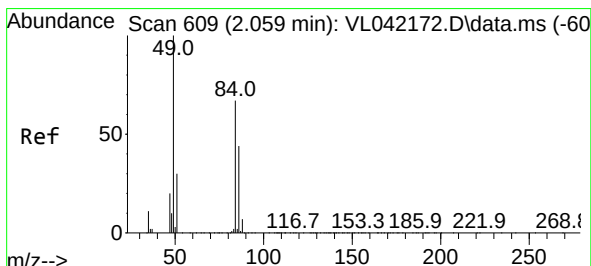
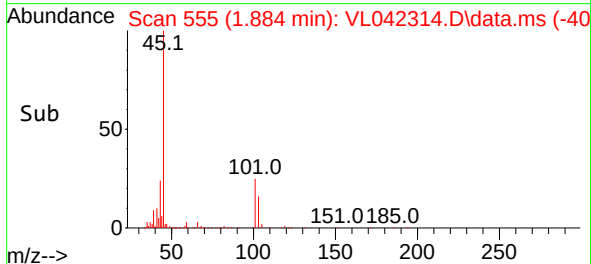
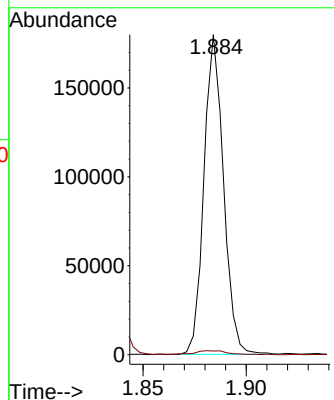
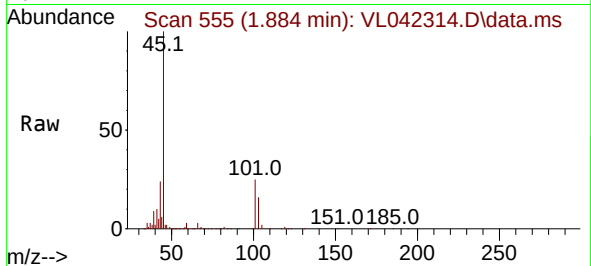




#19
Isopropyl Alcohol
Concen: 8.404 ppbv
RT: 1.884 min Scan# 511
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

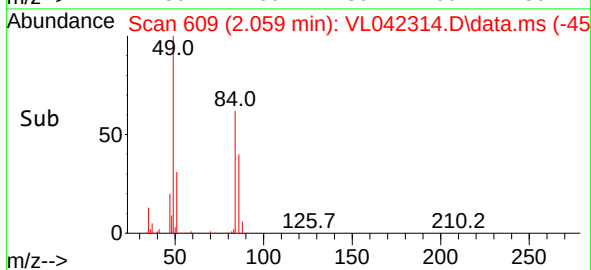
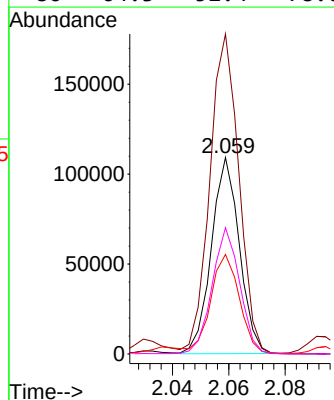
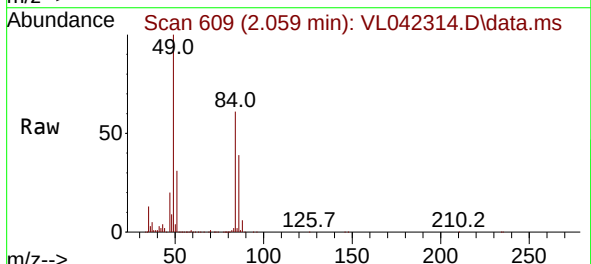
Instrument :
MSVOA_1
ClientSampleId :
VL0411ABS01

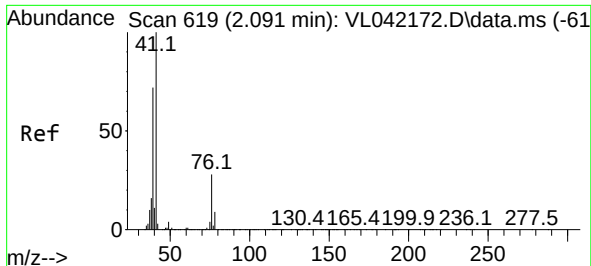
Tgt Ion: 45 Resp: 118345
Ion Ratio Lower Upper
45 100
58 2.2 36.9 55.3#



#20
Methylene Chloride
Concen: 8.097 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 84 Resp: 75264
Ion Ratio Lower Upper
84 100
49 162.8 120.2 180.4
51 50.6 37.4 56.0
86 64.3 52.4 78.6





#21

Allyl Chloride

Concen: 8.934 ppbv

RT: 2.094 min Scan# 619

Delta R.T. 0.003 min

Lab File: VL042314.D

Acq: 11 Apr 2025 11:23

Instrument :

MSVOA_1

ClientSampleId :

VL0411ABS01

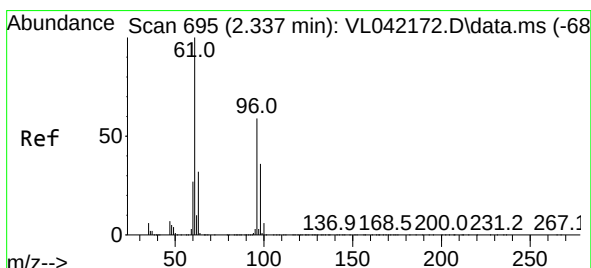
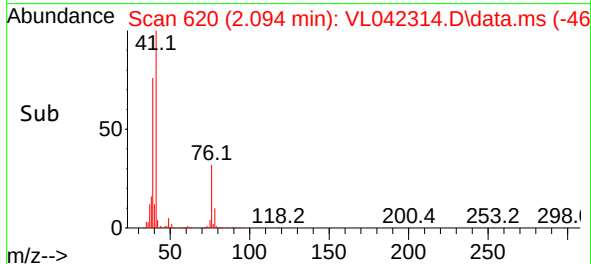
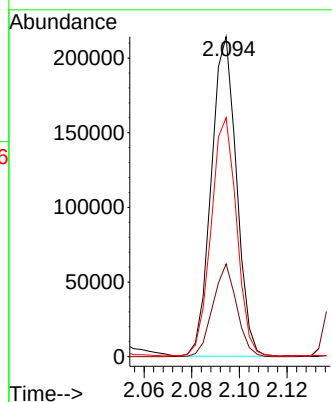
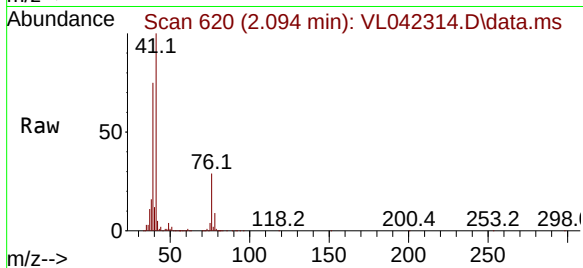
Tgt Ion: 41 Resp: 157261

Ion Ratio Lower Upper

41 100

76 27.5 24.1 36.1

39 75.1 61.1 91.7



#22

trans-1,2-Dichloroethene

Concen: 8.674 ppbv

RT: 2.337 min Scan# 695

Delta R.T. -0.000 min

Lab File: VL042314.D

Acq: 11 Apr 2025 11:23

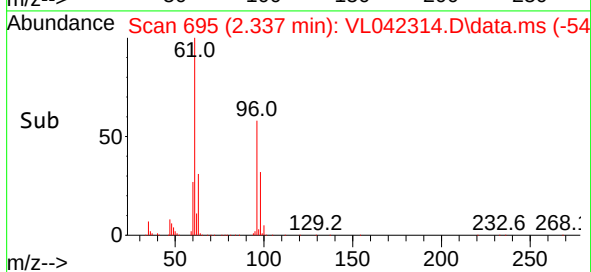
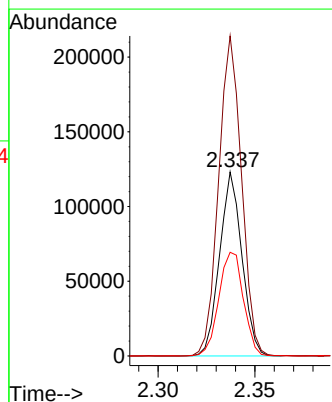
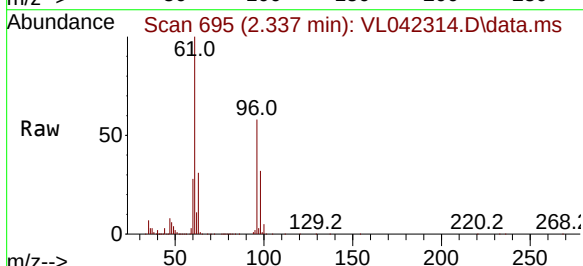
Tgt Ion: 96 Resp: 98769

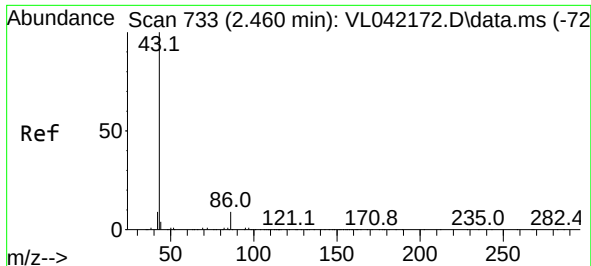
Ion Ratio Lower Upper

96 100

61 173.9 136.6 204.8

98 56.3 49.4 74.2

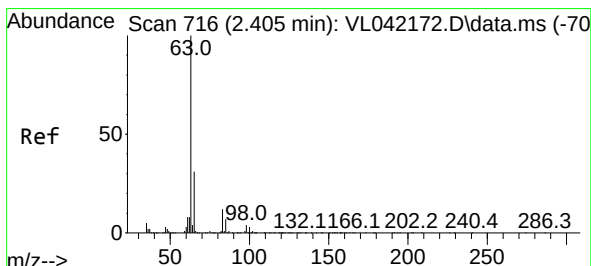
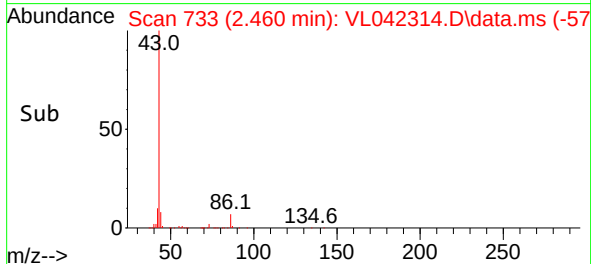
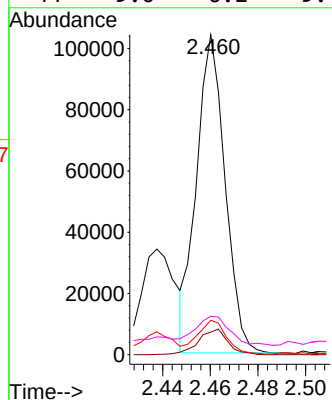
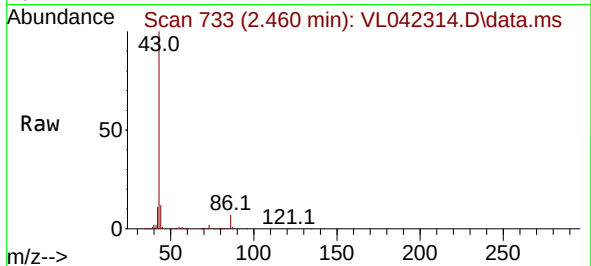




#23
 Vinyl Acetate
 Concen: 8.014 ppbv
 RT: 2.460 min Scan# 716
 Delta R.T. -0.000 min
 Lab File: VL042314.D
 Acq: 11 Apr 2025 11:23

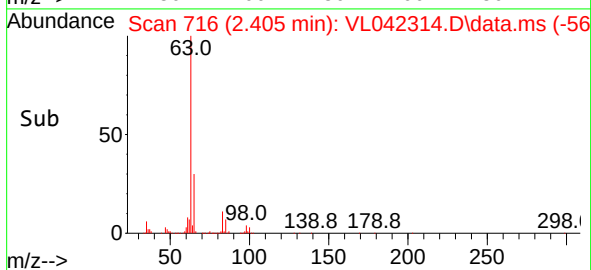
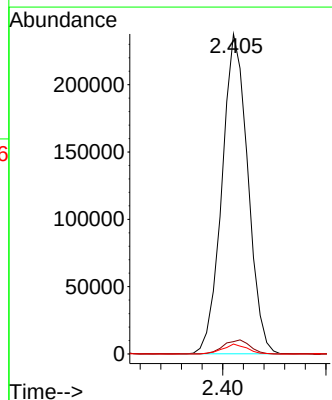
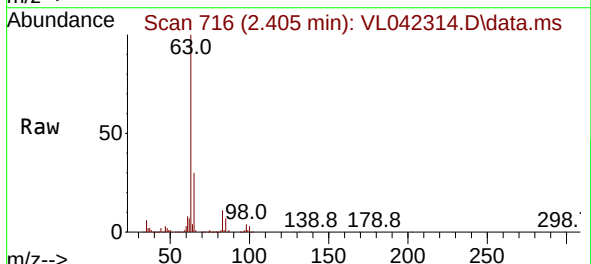
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0411ABS01

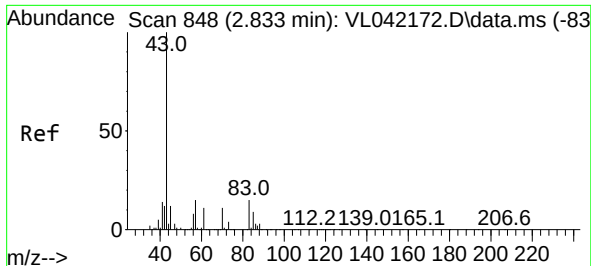
Tgt Ion:	43	Resp:	86563
Ion	Ratio	Lower	Upper
43	100		
86	7.1	5.5	8.3
42	9.9	8.6	13.0
44	9.0	6.2	9.4



#24
 1,1-Dichloroethane
 Concen: 9.800 ppbv
 RT: 2.405 min Scan# 716
 Delta R.T. -0.000 min
 Lab File: VL042314.D
 Acq: 11 Apr 2025 11:23

Tgt Ion:	63	Resp:	206840
Ion	Ratio	Lower	Upper
63	100		
98	3.8	2.3	6.8
100	3.1	1.6	4.7

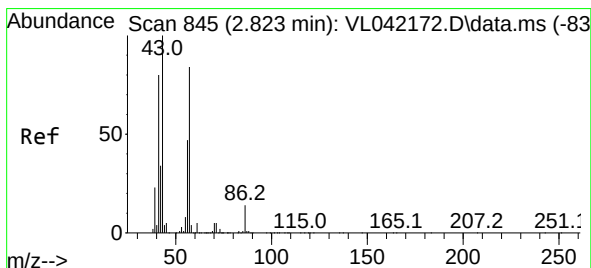
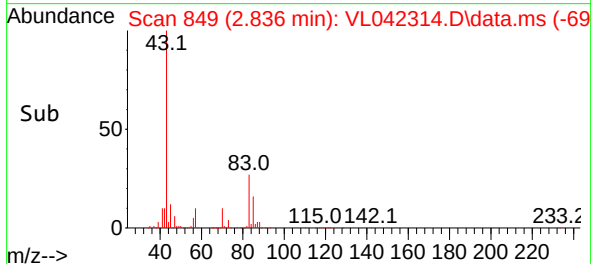
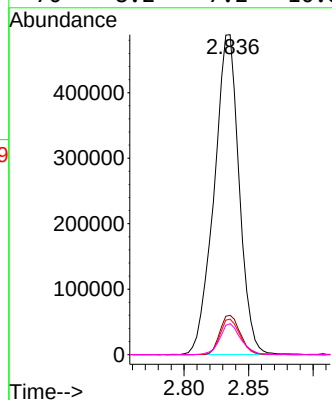
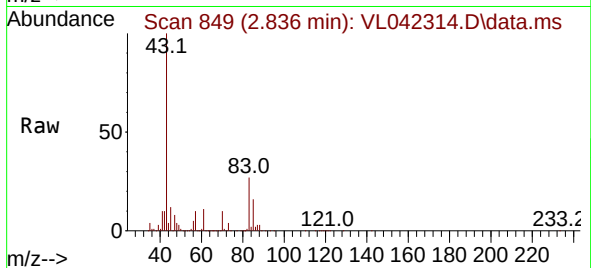




#25
Ethyl Acetate
Concen: 10.138 ppbv
RT: 2.836 min Scan# 84
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

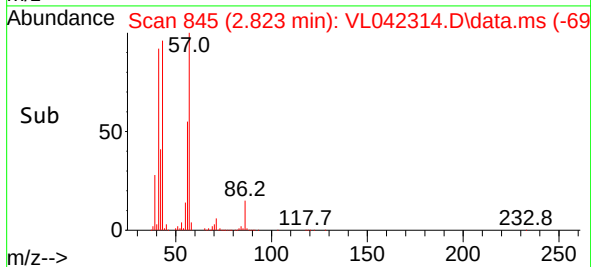
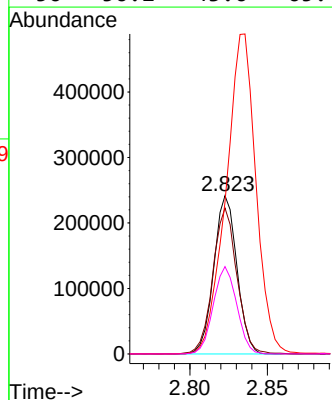
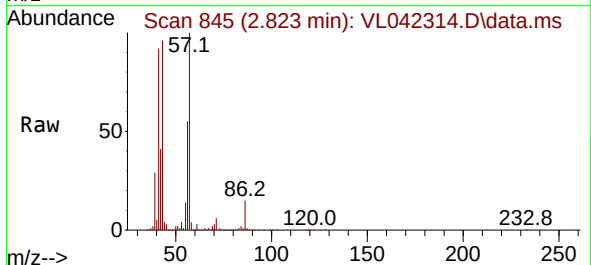
Instrument :
MSVOA_1
ClientSampleId :
VL0411ABS01

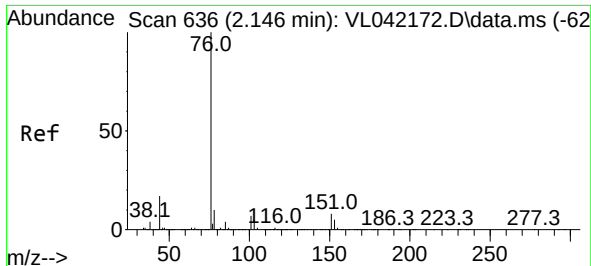
Tgt Ion: 43 Resp: 656719
Ion Ratio Lower Upper
43 100
45 10.2 8.2 12.2
61 9.0 7.3 10.9
70 8.2 7.2 10.8



#26
Hexane
Concen: 9.986 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 57 Resp: 249860
Ion Ratio Lower Upper
57 100
41 97.2 76.6 114.8
43 264.3 207.8 311.8
56 56.2 43.6 65.4

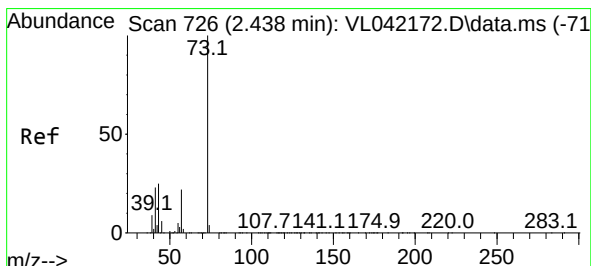
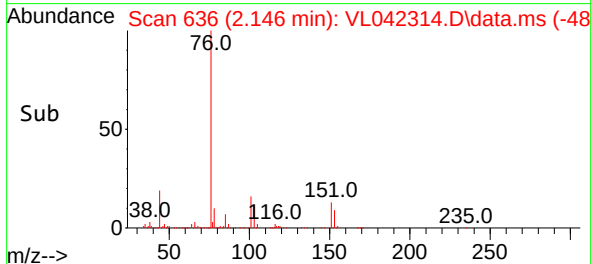
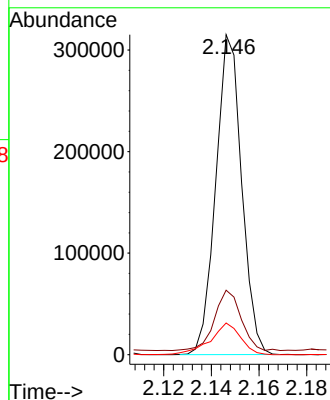
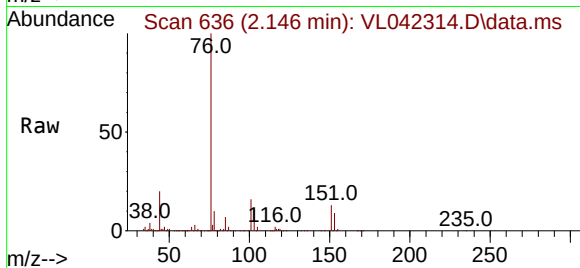




#27
Carbon Disulfide
Concen: 8.833 ppbv
RT: 2.146 min Scan# 61
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

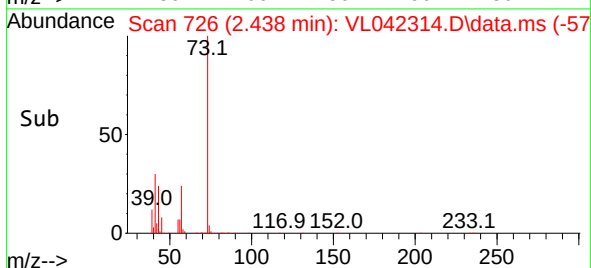
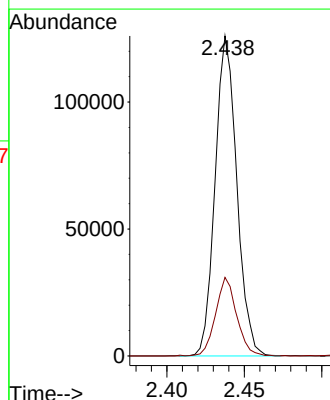
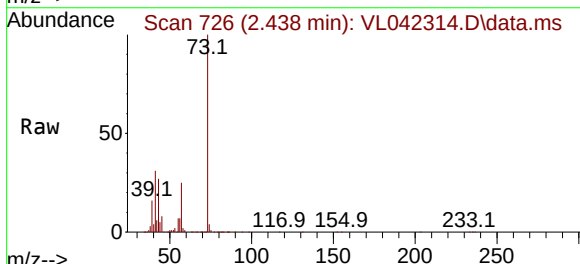
Instrument :
MSVOA_1
ClientSampleId :
VL0411ABS01

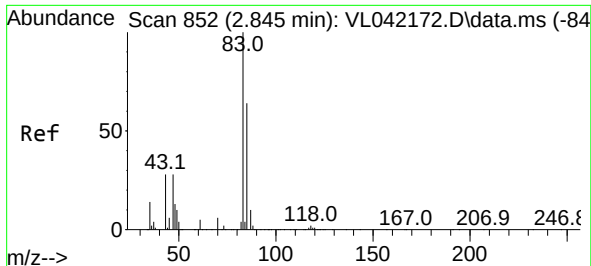
Tgt Ion: 76 Resp: 236998
Ion Ratio Lower Upper
76 100
44 19.3 14.7 22.1
78 11.6 9.3 13.9



#28
Methyl tert-Butyl Ether
Concen: 7.884 ppbv
RT: 2.438 min Scan# 726
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 73 Resp: 122818
Ion Ratio Lower Upper
73 100
57 23.9 20.5 30.7





#29

Chloroform

Concen: 10.506 ppbv

RT: 2.845 min Scan# 81

Delta R.T. -0.000 min

Lab File: VL042314.D

Acq: 11 Apr 2025 11:23

Instrument :

MSVOA_L

ClientSampleId :

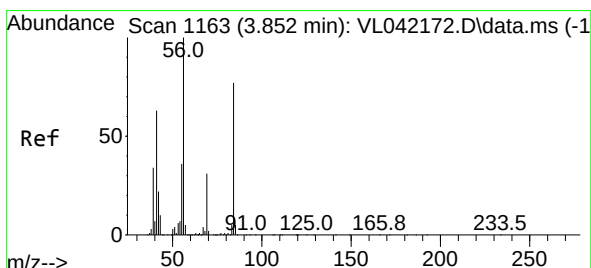
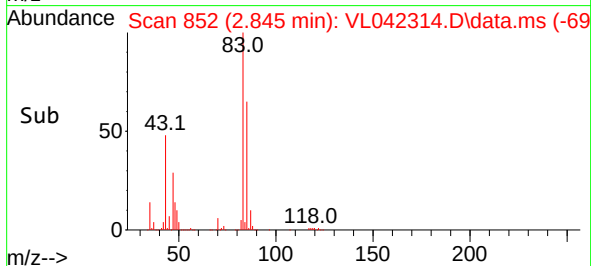
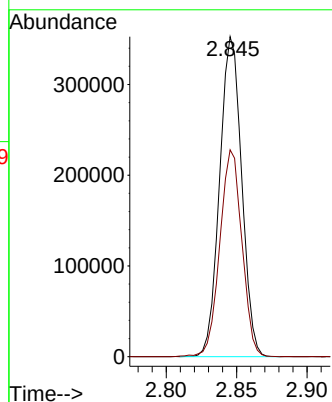
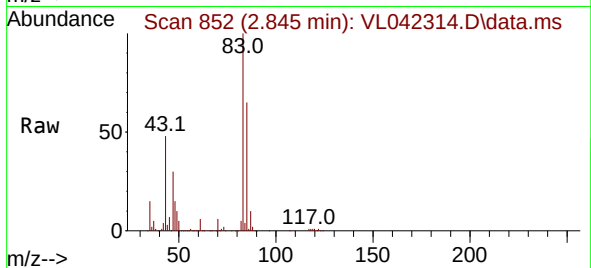
VL0411ABS01

Tgt Ion: 83 Resp: 384713

Ion Ratio Lower Upper

83 100

85 64.6 51.4 77.2



#30

Cyclohexane

Concen: 9.028 ppbv

RT: 3.852 min Scan# 1163

Delta R.T. -0.000 min

Lab File: VL042314.D

Acq: 11 Apr 2025 11:23

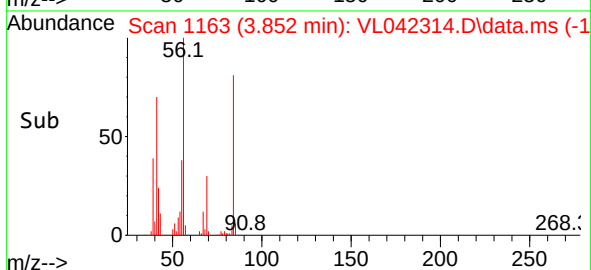
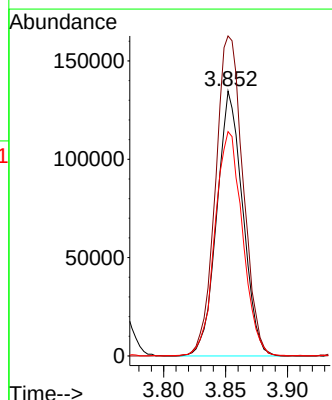
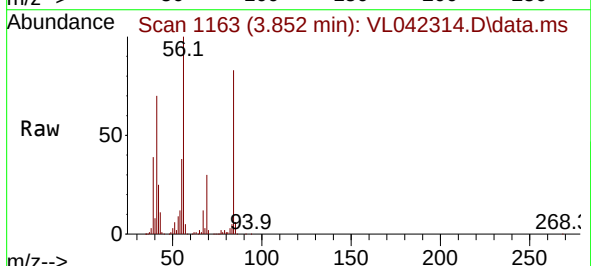
Tgt Ion: 84 Resp: 196133

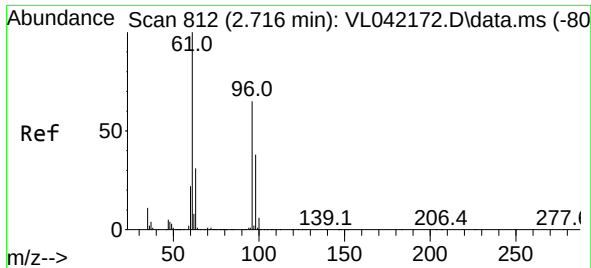
Ion Ratio Lower Upper

84 100

56 128.6 102.8 154.2

41 90.3 66.5 99.7

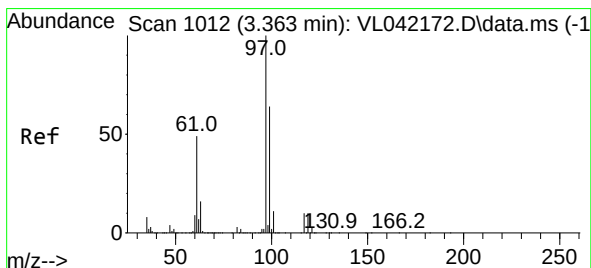
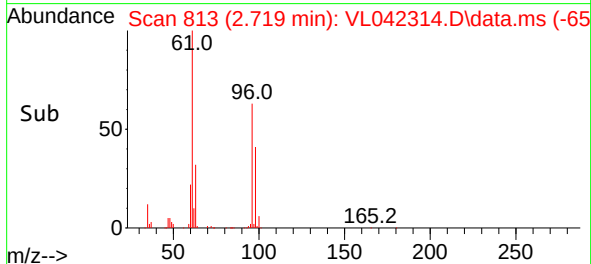
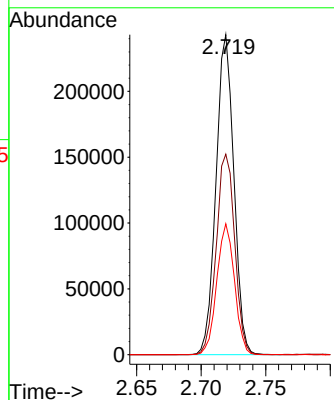
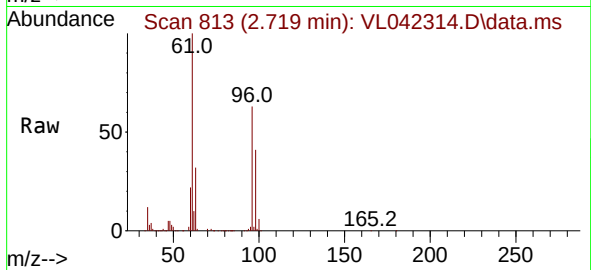




#31
cis-1,2-Dichloroethene
Concen: 9.187 ppbv
RT: 2.719 min Scan# 812
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

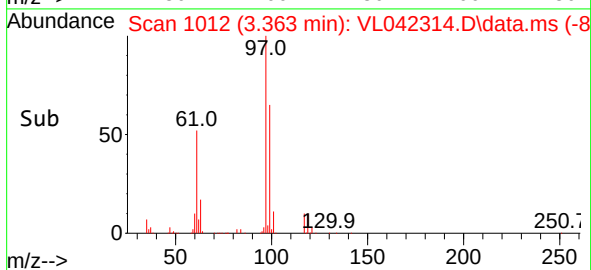
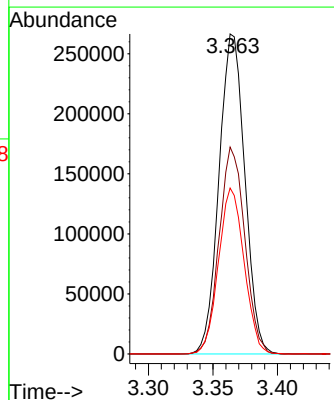
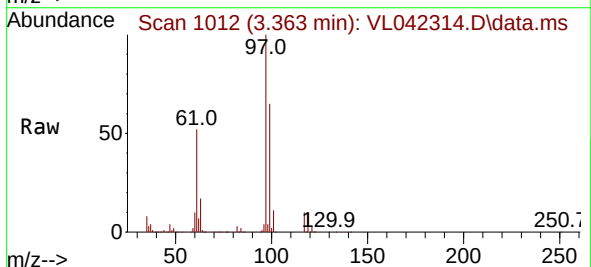
Instrument :
MSVOA_L
ClientSampleId :
VL0411ABS01

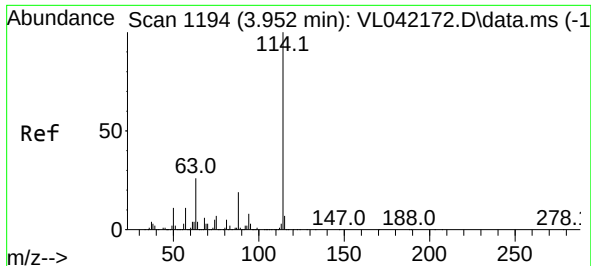
Tgt Ion: 61 Resp: 233371
Ion Ratio Lower Upper
61 100
96 62.7 51.8 77.8
98 40.9 30.6 46.0



#32
1,1,1-Trichloroethane
Concen: 8.836 ppbv
RT: 3.363 min Scan# 1012
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 97 Resp: 370405
Ion Ratio Lower Upper
97 100
99 64.3 51.5 77.3
61 51.5 38.7 58.1





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.955 min Scan# 1195

Delta R.T. 0.003 min

Lab File: VL042314.D

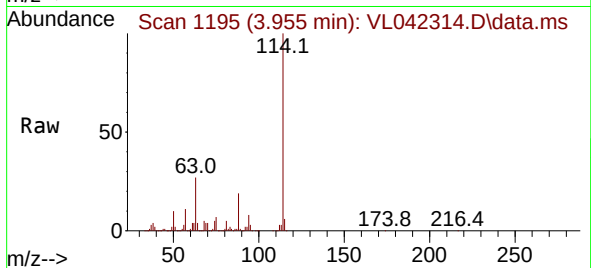
Acq: 11 Apr 2025 11:23

Instrument :

MSVOA_1

ClientSampleId :

VL0411ABS01



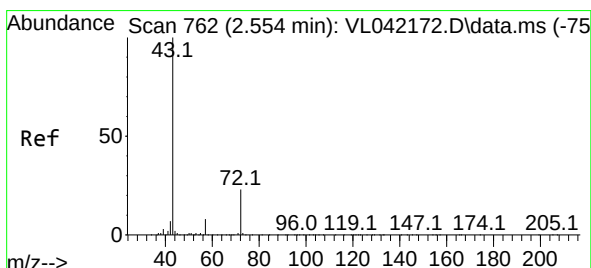
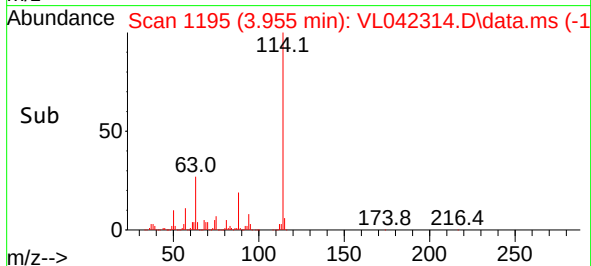
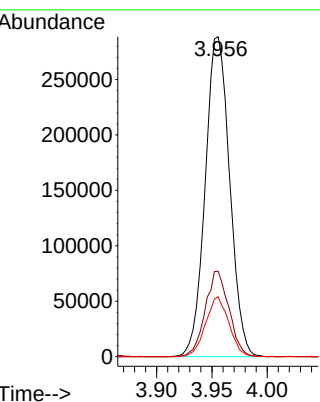
Tgt Ion:114 Resp: 444353

Ion Ratio Lower Upper

114 100

63 26.0 20.7 31.1

88 17.8 15.0 22.4



#34

2-Butanone

Concen: 11.254 ppbv

RT: 2.554 min Scan# 762

Delta R.T. -0.000 min

Lab File: VL042314.D

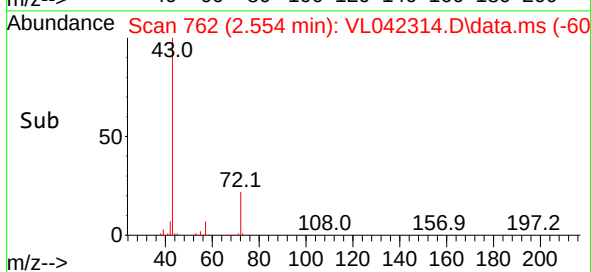
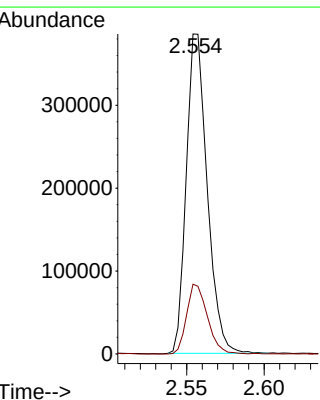
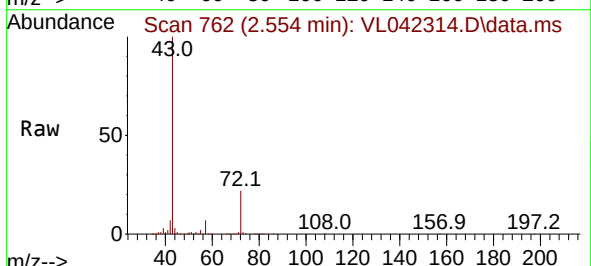
Acq: 11 Apr 2025 11:23

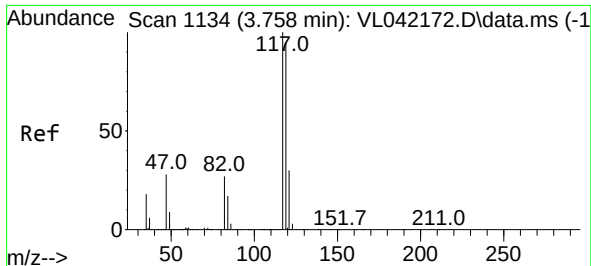
Tgt Ion: 43 Resp: 362633

Ion Ratio Lower Upper

43 100

72 21.8 18.2 27.2

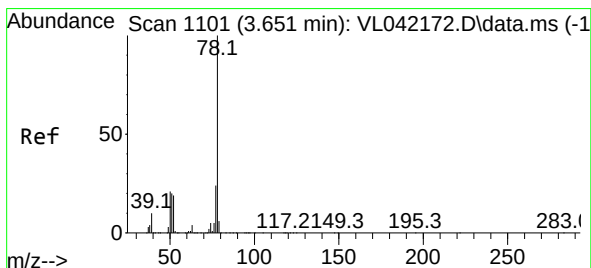
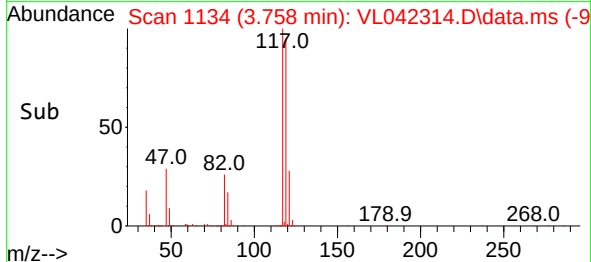
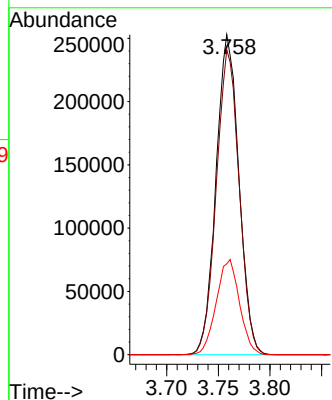
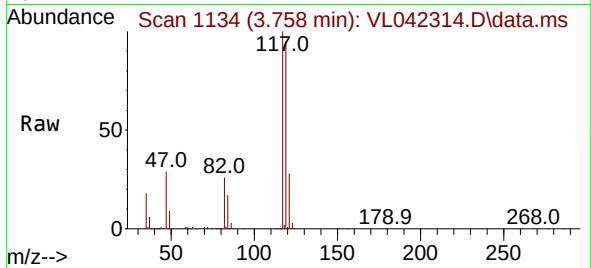




#35
Carbon Tetrachloride
Concen: 11.228 ppbv
RT: 3.758 min Scan# 1134
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

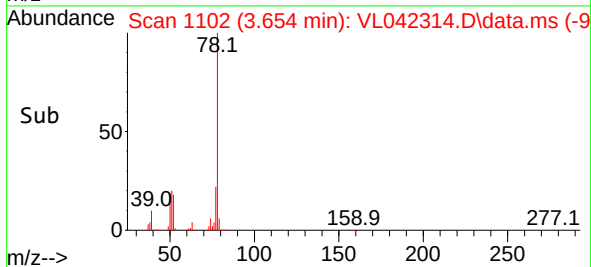
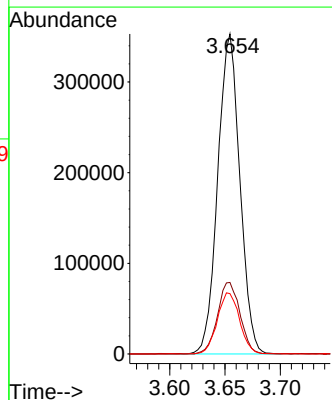
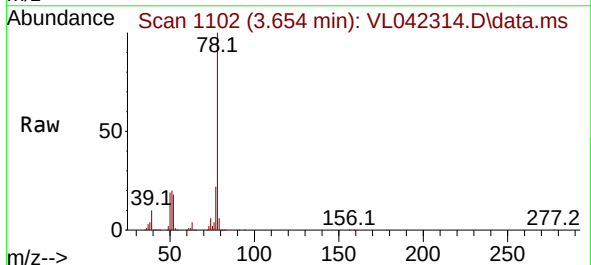
Instrument :
MSVOA_1
ClientSampleId :
VL0411ABS01

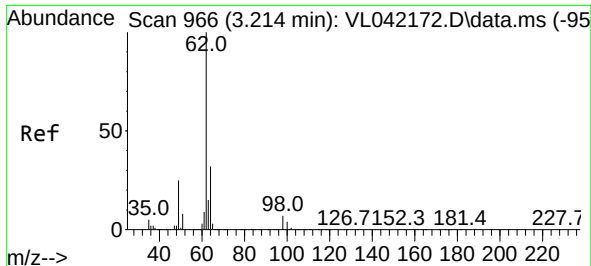
Tgt Ion:117 Resp: 389738
Ion Ratio Lower Upper
117 100
119 95.2 76.2 114.2
121 28.4 24.2 36.4



#36
Benzene
Concen: 11.131 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 78 Resp: 490339
Ion Ratio Lower Upper
78 100
77 22.3 19.1 28.7
50 18.8 16.6 24.8

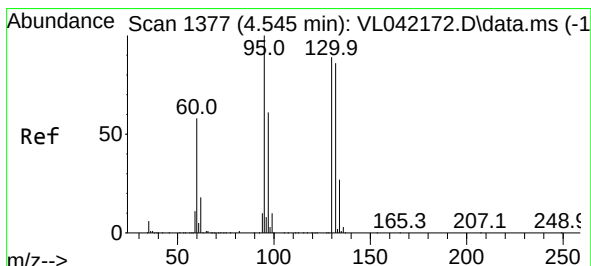
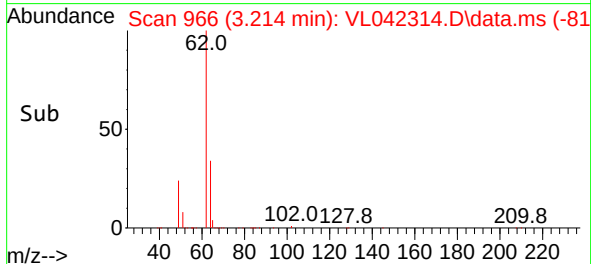
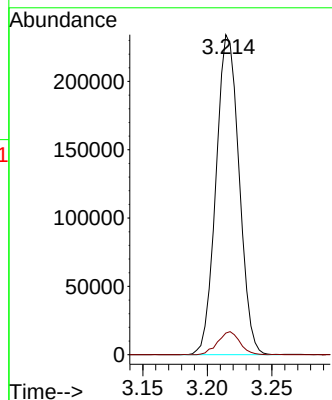
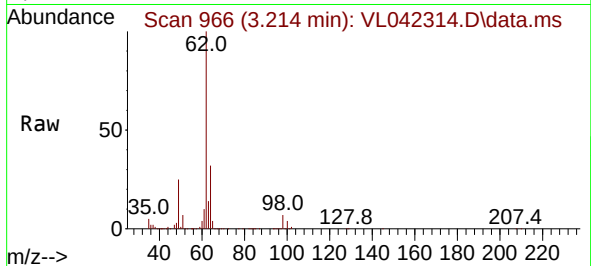




#37
1,2-Dichloroethane
Concen: 11.538 ppbv
RT: 3.214 min Scan# 90
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

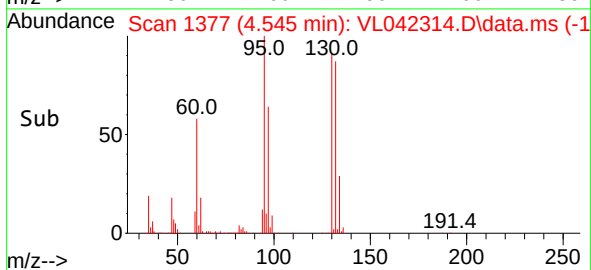
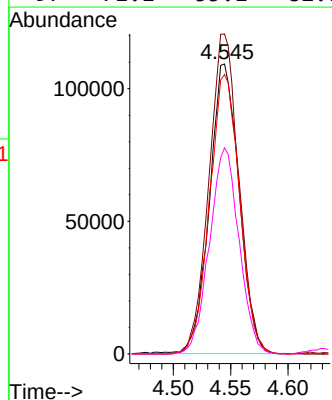
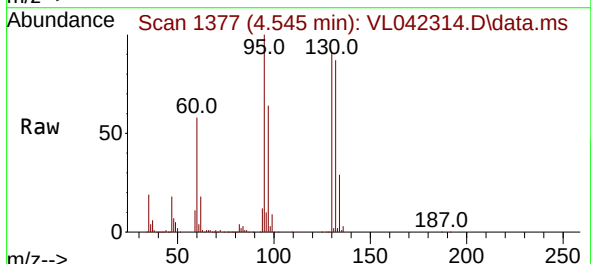
Instrument :
MSVOA_1
ClientSampleId :
VL0411ABS01

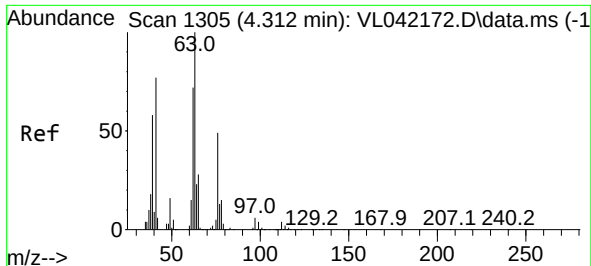
Tgt Ion: 62 Resp: 290983
Ion Ratio Lower Upper
62 100
98 6.9 5.4 8.2



#38
Trichloroethene
Concen: 10.645 ppbv
RT: 4.545 min Scan# 1377
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion:130 Resp: 195654
Ion Ratio Lower Upper
130 100
95 110.4 89.8 134.8
132 96.5 77.4 116.2
97 71.1 55.1 82.7





#39

1,2-Dichloropropane

Concen: 11.217 ppbv

RT: 4.312 min Scan# 11

Delta R.T. -0.000 min

Lab File: VL042314.D

Acq: 11 Apr 2025 11:23

Instrument :

MSVOA_1

ClientSampleId :

VL0411ABS01

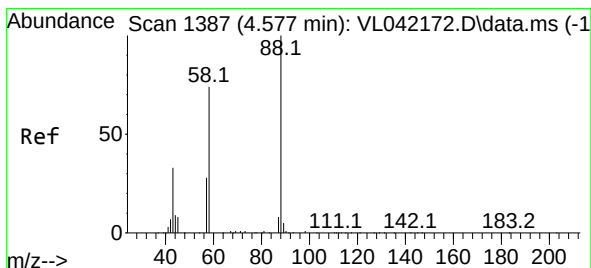
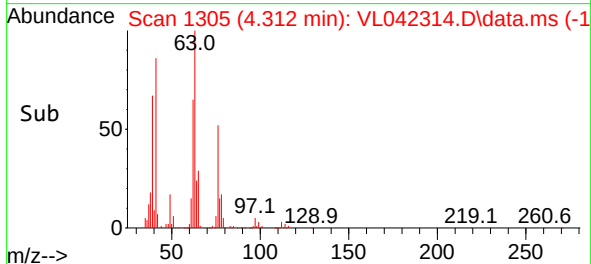
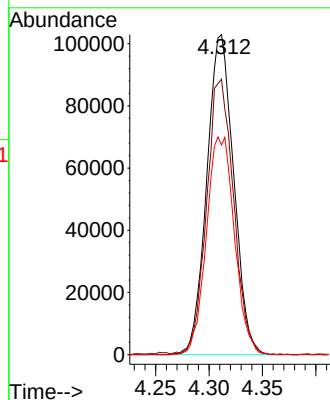
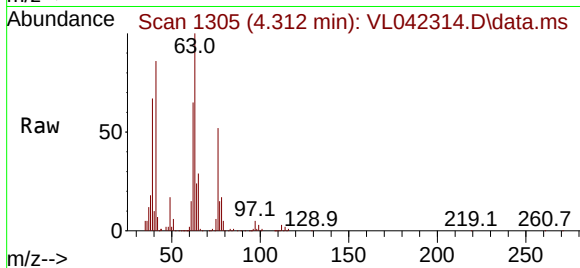
Tgt Ion: 63 Resp: 179954

Ion Ratio Lower Upper

63 100

41 85.9 61.7 92.5

62 65.3 57.6 86.4



#40

1,4-Dioxane

Concen: 9.408 ppbv

RT: 4.580 min Scan# 1388

Delta R.T. 0.003 min

Lab File: VL042314.D

Acq: 11 Apr 2025 11:23

Tgt Ion: 88 Resp: 80106

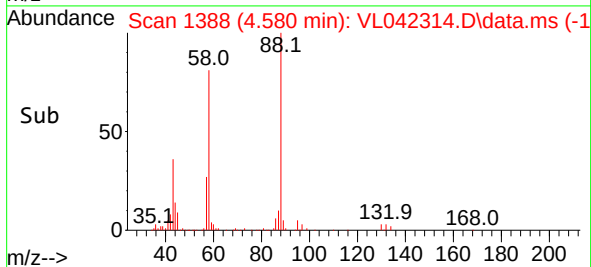
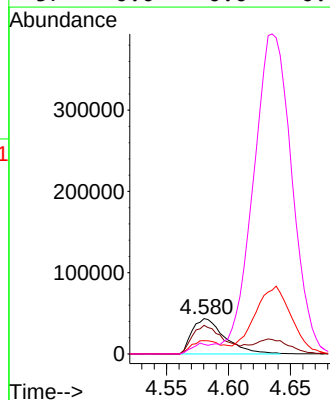
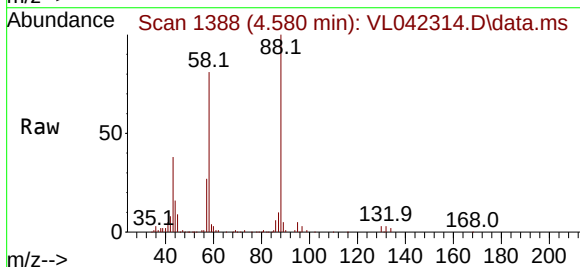
Ion Ratio Lower Upper

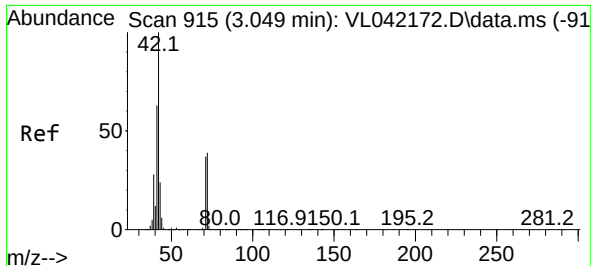
88 100

58 81.4 62.7 94.1

43 0.0 23.0 34.4#

57 0.0 0.0 0.0

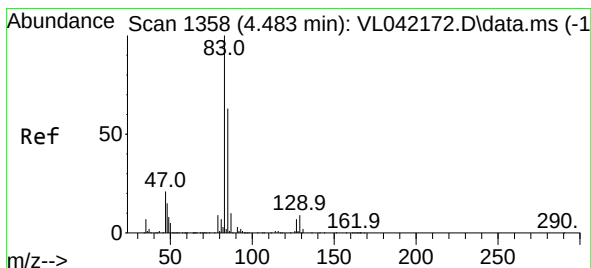
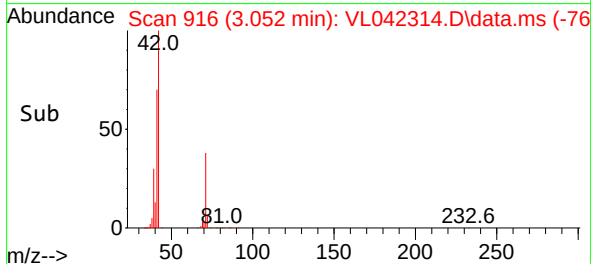
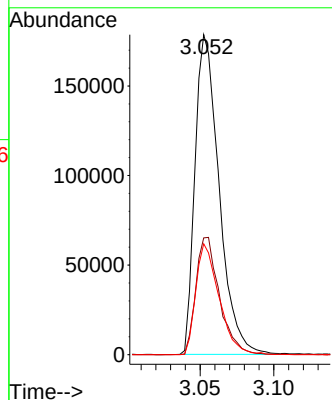
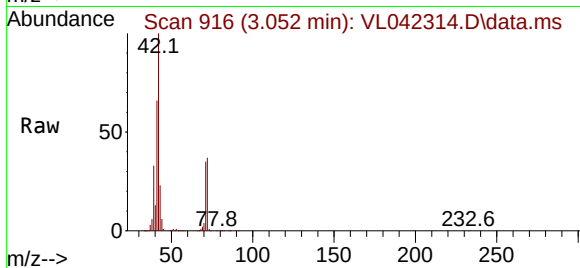




#41
Tetrahydrofuran
Concen: 10.930 ppbv
RT: 3.052 min Scan# 915
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

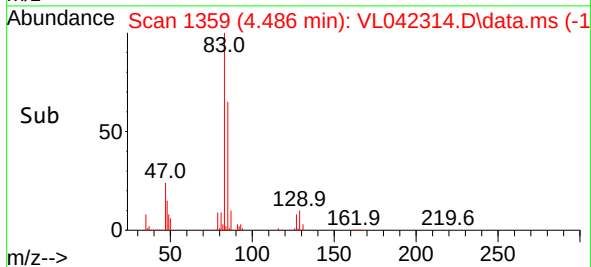
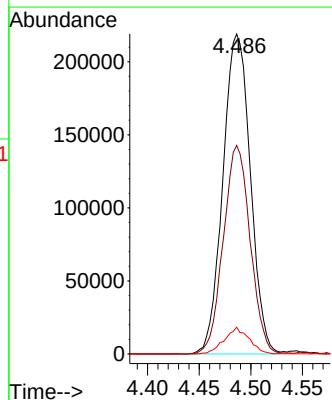
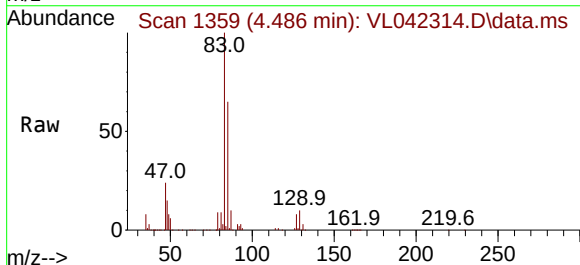
Instrument :
MSVOA_L
ClientSampleId :
VL0411ABS01

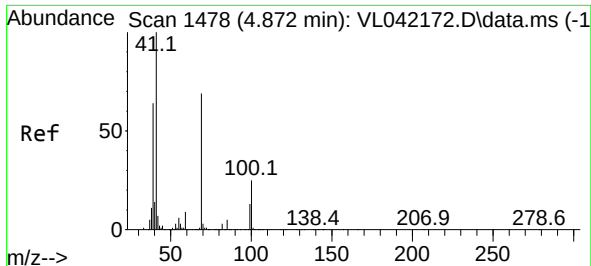
Tgt Ion: 42 Resp: 202793
Ion Ratio Lower Upper
42 100
72 36.0 31.4 47.0
71 33.5 30.2 45.4



#42
Bromodichloromethane
Concen: 11.669 ppbv
RT: 4.486 min Scan# 1359
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 83 Resp: 405729
Ion Ratio Lower Upper
83 100
85 65.2 50.5 75.7
127 8.4 5.9 8.9

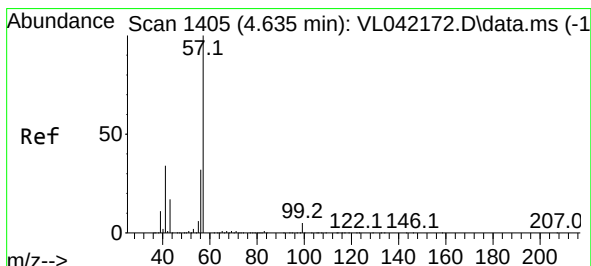
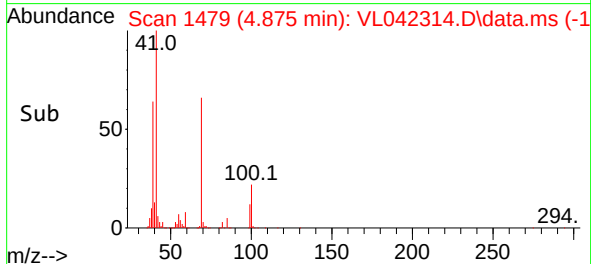
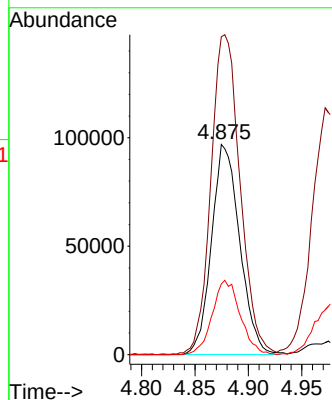
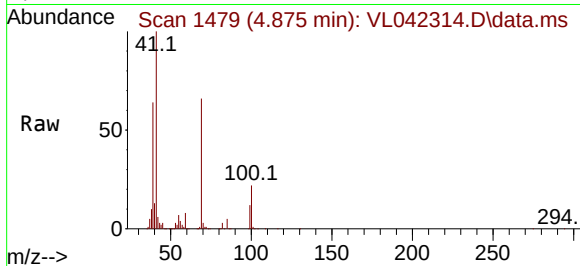




#43
Methyl Methacrylate
Concen: 9.514 ppbv
RT: 4.875 min Scan# 1478
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

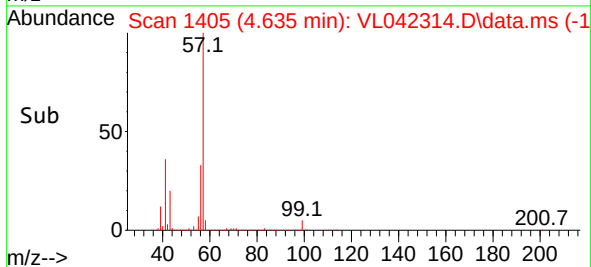
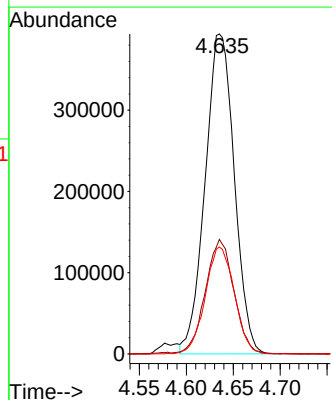
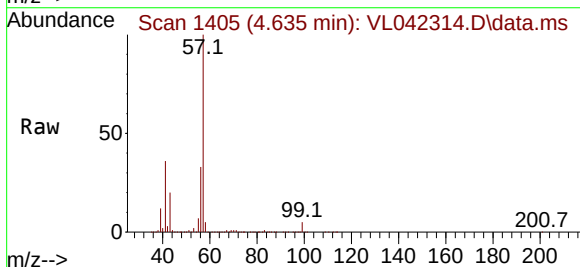
Instrument :
MSVOA_1
ClientSampleId :
VL0411ABS01

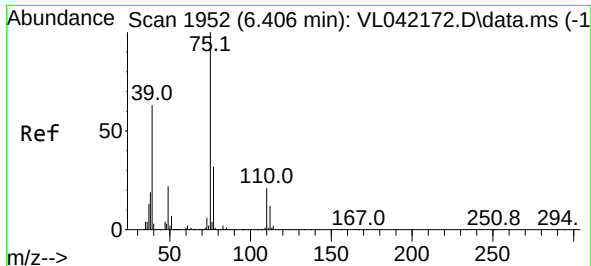
Tgt Ion: 69 Resp: 177423
Ion Ratio Lower Upper
69 100
41 158.3 123.8 185.6
100 35.3 28.4 42.6



#44
2,2,4-Trimethylpentane
Concen: 11.431 ppbv
RT: 4.635 min Scan# 1405
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 57 Resp: 850971
Ion Ratio Lower Upper
57 100
41 35.3 26.8 40.2
56 33.4 25.6 38.4

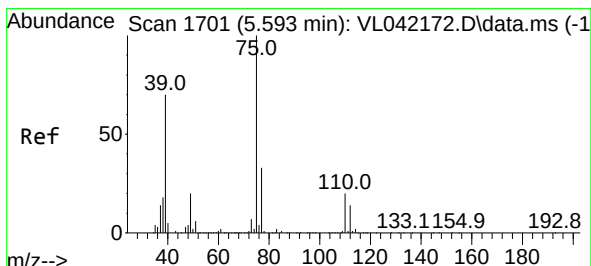
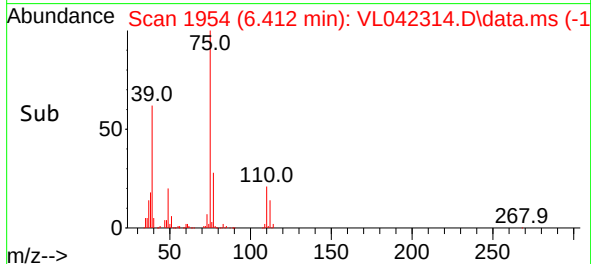
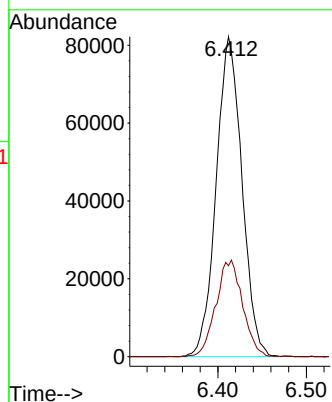
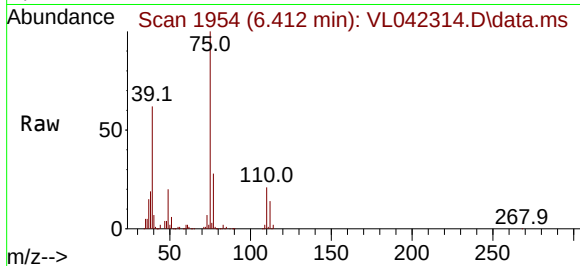




#45
 t-1,3-Dichloropropene
 Concen: 8.309 ppbv
 RT: 6.412 min Scan# 1952
 Delta R.T. 0.006 min
 Lab File: VL042314.D
 Acq: 11 Apr 2025 11:23

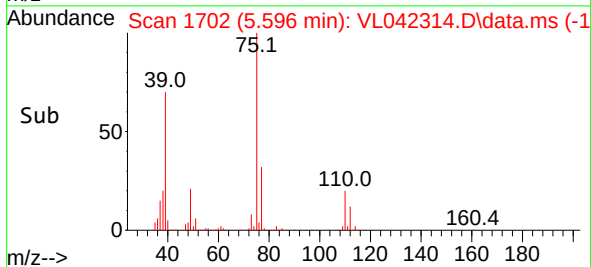
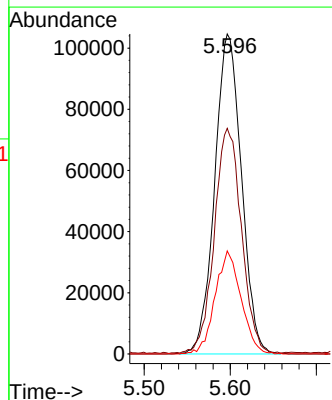
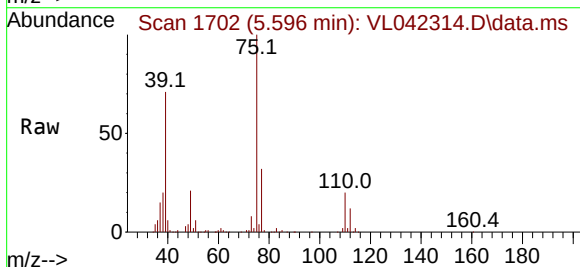
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0411ABS01

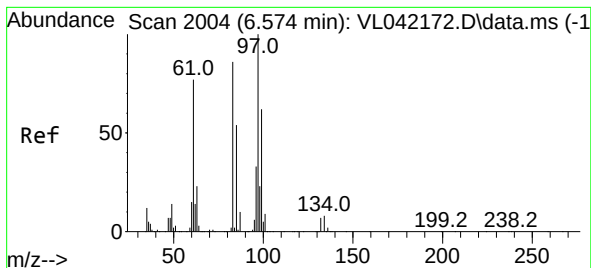
Tgt Ion: 75 Resp: 166246
 Ion Ratio Lower Upper
 75 100
 77 28.4 26.0 39.0



#46
 cis-1,3-Dichloropropene
 Concen: 9.213 ppbv
 RT: 5.596 min Scan# 1702
 Delta R.T. 0.003 min
 Lab File: VL042314.D
 Acq: 11 Apr 2025 11:23

Tgt Ion: 75 Resp: 225952
 Ion Ratio Lower Upper
 75 100
 39 70.2 55.8 83.6
 77 32.1 26.0 39.0





#47

1,1,2-Trichloroethane

Concen: 11.720 ppbv

RT: 6.580 min Scan# 2006

Delta R.T. 0.006 min

Lab File: VL042314.D

Acq: 11 Apr 2025 11:23

Instrument :

MSVOA_1

ClientSampleId :

VL0411ABS01

Tgt Ion: 97 Resp: 198762

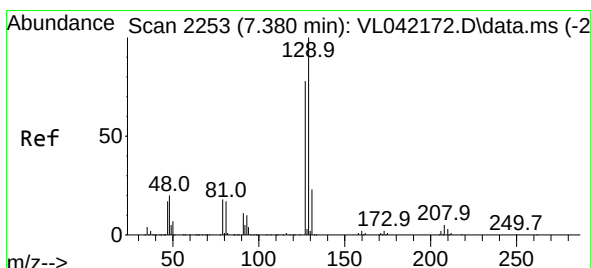
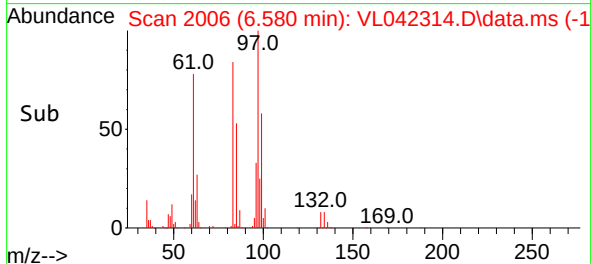
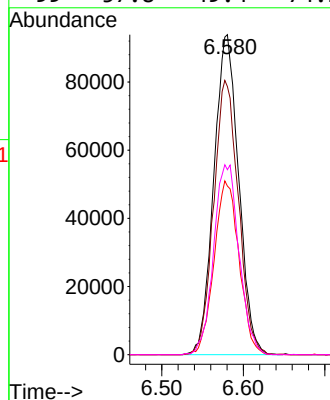
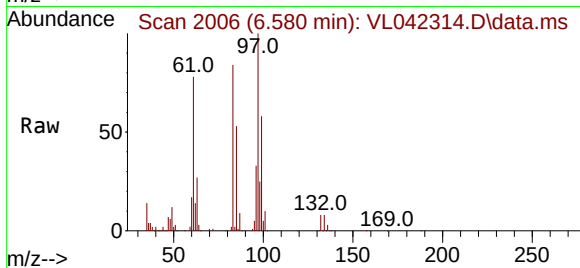
Ion Ratio Lower Upper

97 100

83 83.8 69.2 103.8

85 52.7 43.1 64.7

99 57.8 49.4 74.2



#48

Dibromochloromethane

Concen: 11.181 ppbv

RT: 7.383 min Scan# 2254

Delta R.T. 0.003 min

Lab File: VL042314.D

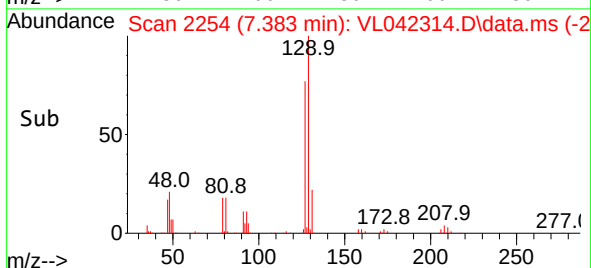
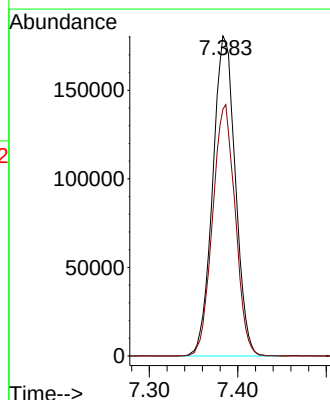
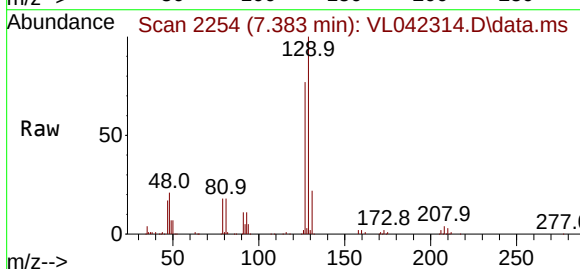
Acq: 11 Apr 2025 11:23

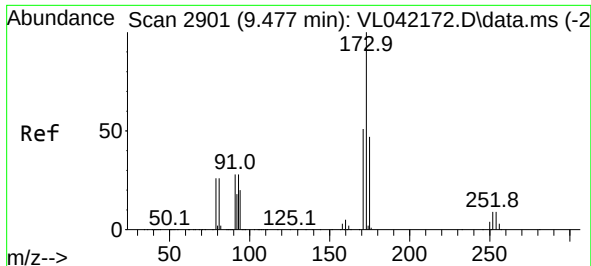
Tgt Ion: 129 Resp: 321370

Ion Ratio Lower Upper

129 100

127 78.4 39.1 117.2

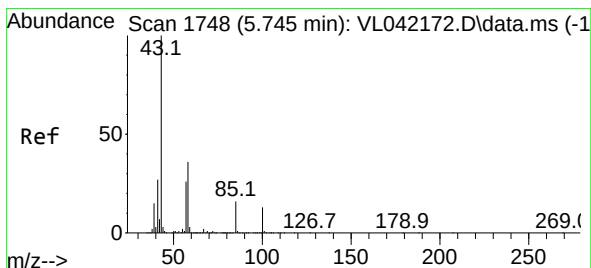
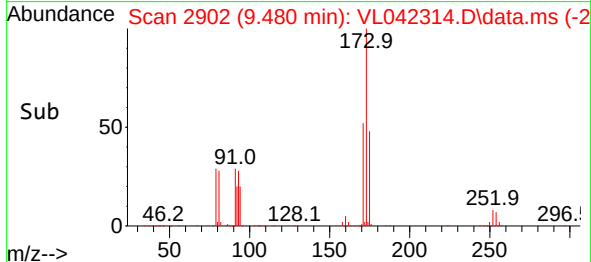
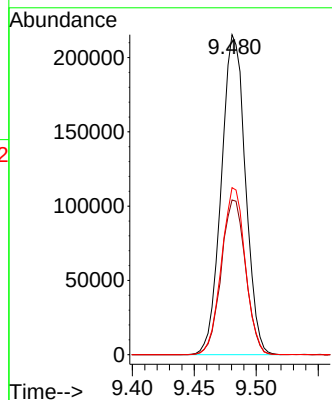
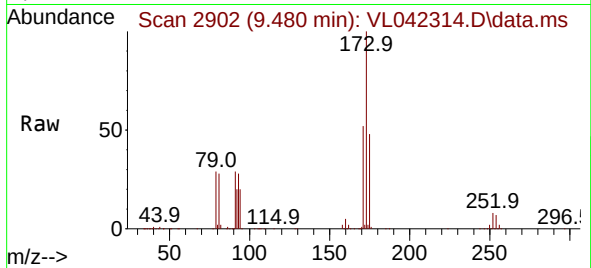




#49
Bromoform
Concen: 11.313 ppbv
RT: 9.480 min Scan# 2901
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

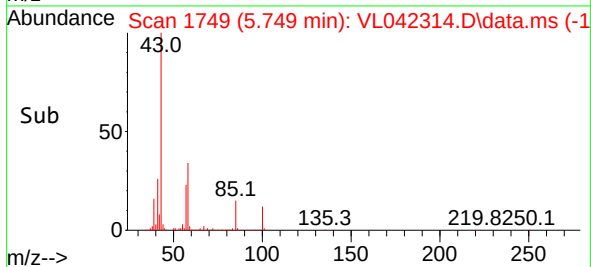
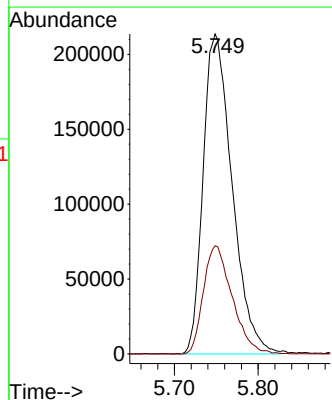
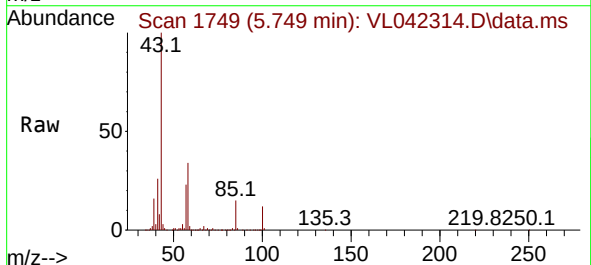
Instrument :
MSVOA_1
ClientSampleId :
VL0411ABS01

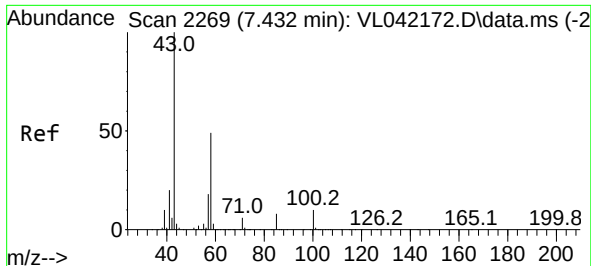
Tgt Ion:173 Resp: 291905
Ion Ratio Lower Upper
173 100
175 49.1 38.6 57.8
171 51.7 41.8 62.6



#50
4-Methyl-2-Pentanone
Concen: 10.084 ppbv
RT: 5.749 min Scan# 1749
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 43 Resp: 514910
Ion Ratio Lower Upper
43 100
58 33.6 29.0 43.6

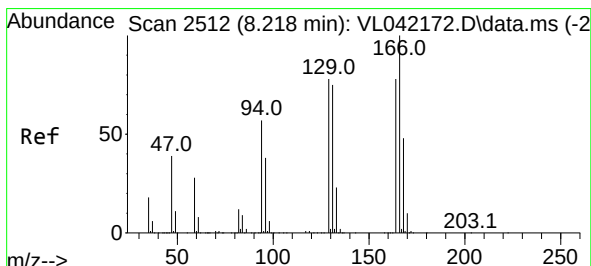
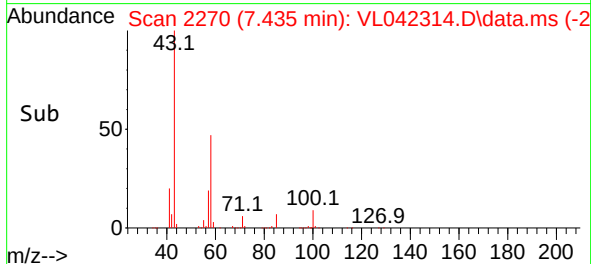
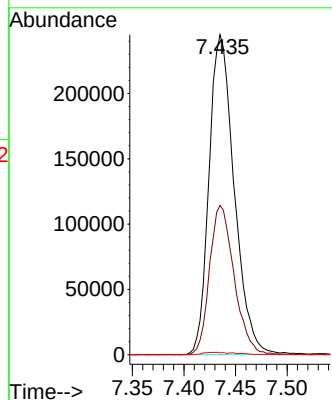
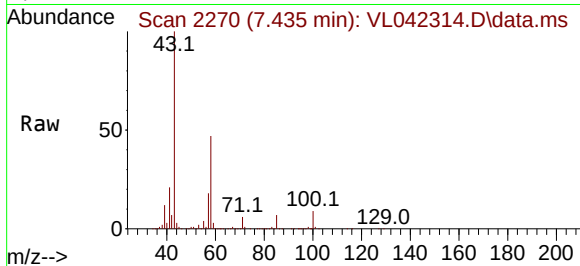




#51
2-Hexanone
Concen: 9.889 ppbv
RT: 7.435 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

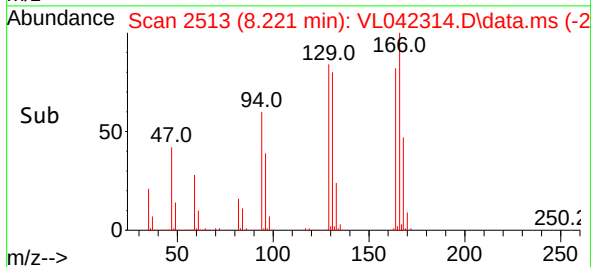
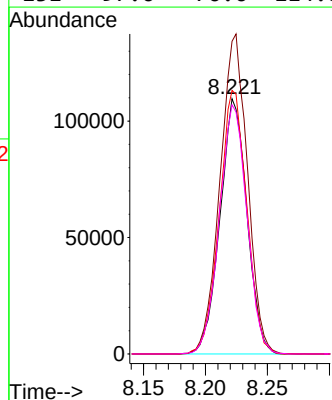
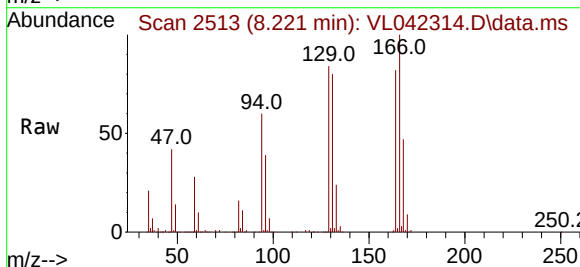
Instrument :
MSVOA_1
ClientSampleId :
VL0411ABS01

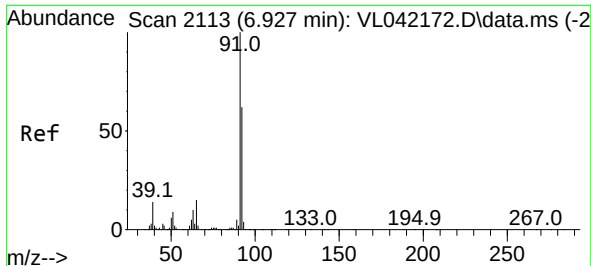
Tgt Ion: 43 Resp: 414681
Ion Ratio Lower Upper
43 100
58 45.6 39.7 59.5
98 1.0 0.1 0.1#



#52
Tetrachloroethene
Concen: 9.483 ppbv
RT: 8.221 min Scan# 2513
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 164 Resp: 165666
Ion Ratio Lower Upper
164 100
166 122.5 102.5 153.7
129 103.2 79.8 119.8
131 97.6 76.6 114.8

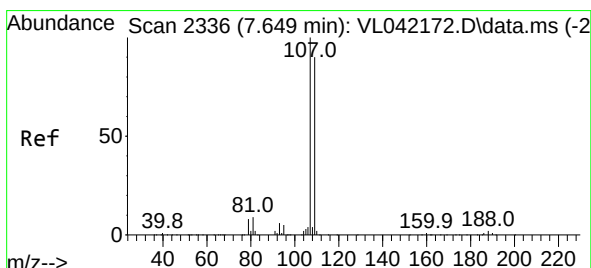
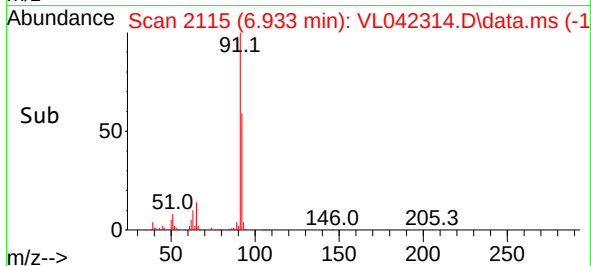
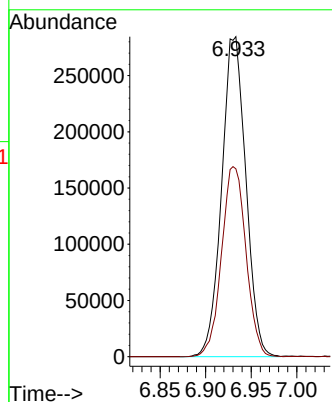
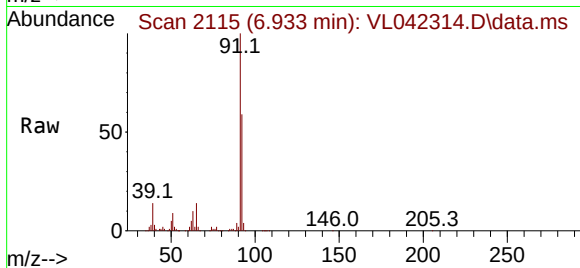




#53
Toluene
Concen: 10.079 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. 0.006 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

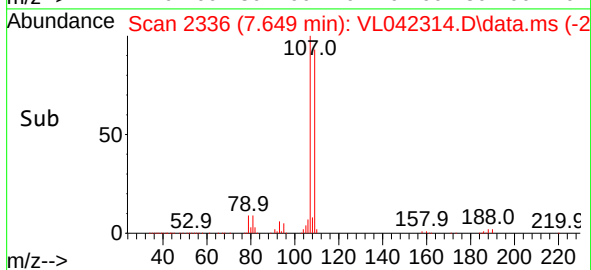
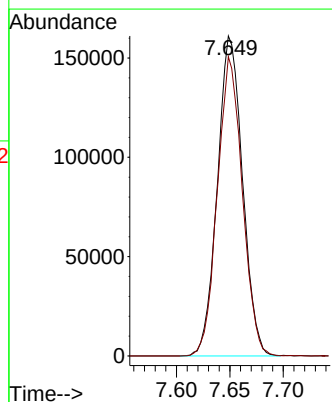
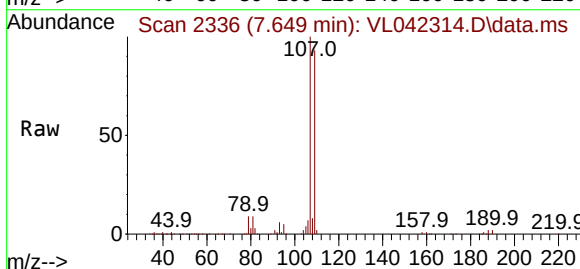
Instrument :
MSVOA_L
ClientSampleId :
VL0411ABS01

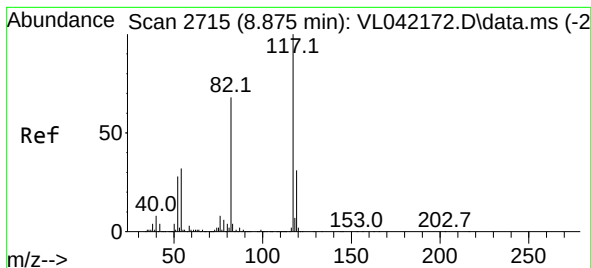
Tgt Ion: 91 Resp: 526341
Ion Ratio Lower Upper
91 100
92 59.9 48.4 72.6



#54
1,2-Dibromoethane
Concen: 11.172 ppbv
RT: 7.649 min Scan# 2336
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 107 Resp: 264126
Ion Ratio Lower Upper
107 100
109 93.5 72.2 108.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.878 min Scan# 21

Delta R.T. 0.003 min

Lab File: VL042314.D

Acq: 11 Apr 2025 11:23

Instrument :

MSVOA_1

ClientSampleId :

VL0411ABS01

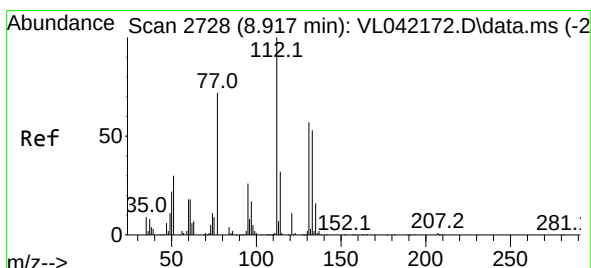
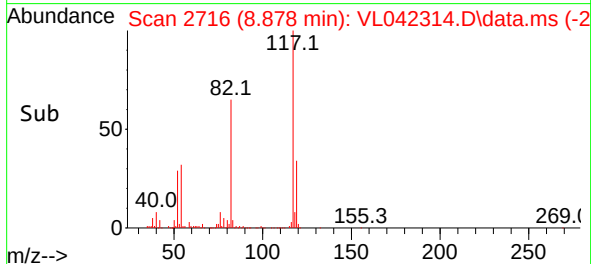
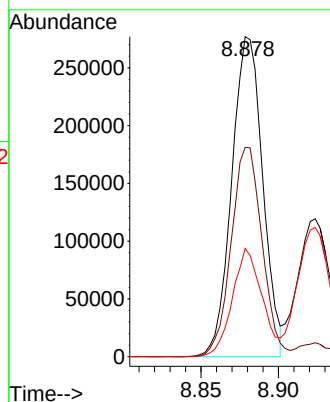
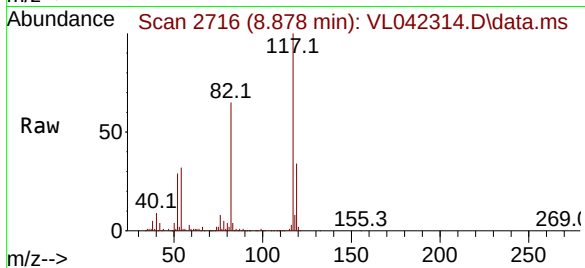
Tgt Ion:117 Resp: 386060

Ion Ratio Lower Upper

117 100

82 69.5 55.8 83.6

119 31.8 25.5 38.3



#56

1,1,1,2-Tetrachloroethane

Concen: 12.755 ppbv

RT: 8.924 min Scan# 2730

Delta R.T. 0.006 min

Lab File: VL042314.D

Acq: 11 Apr 2025 11:23

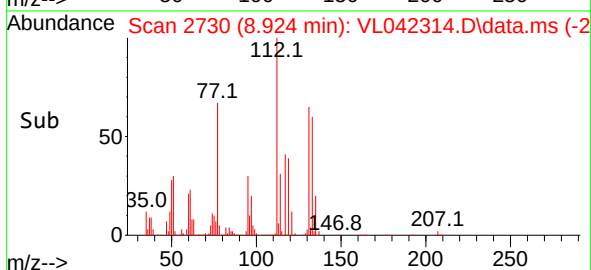
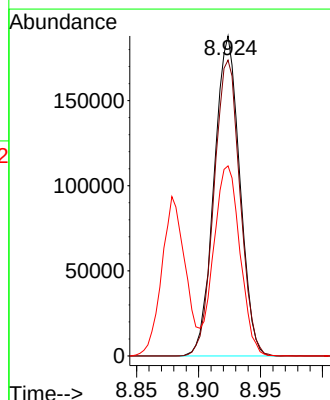
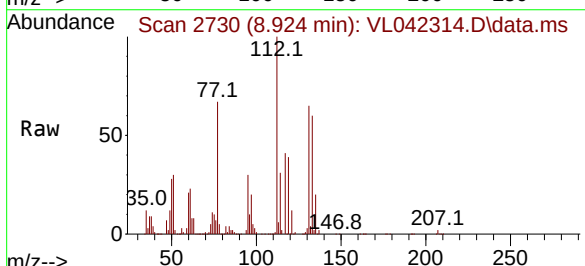
Tgt Ion:131 Resp: 271061

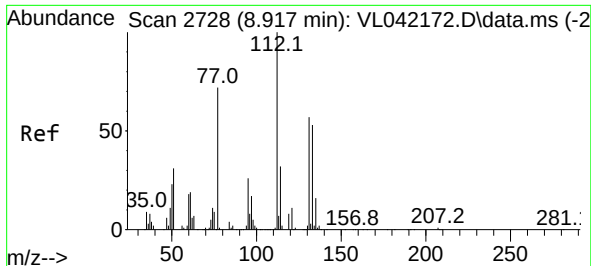
Ion Ratio Lower Upper

131 100

133 93.8 76.6 114.8

119 59.2 49.8 74.6

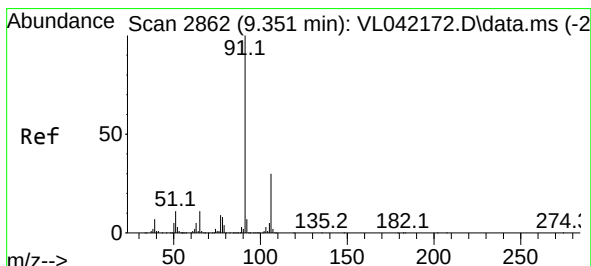
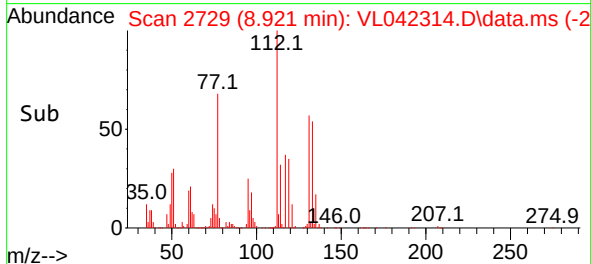
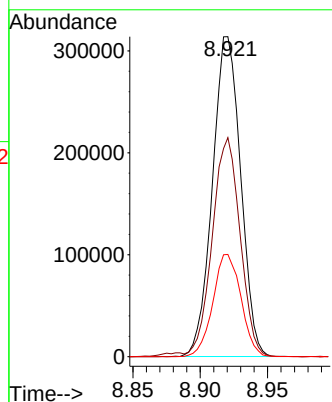
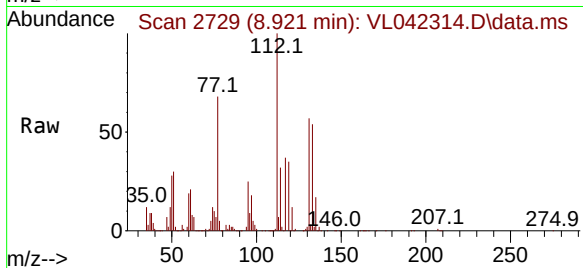




#57
Chlorobenzene
Concen: 12.486 ppbv
RT: 8.921 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

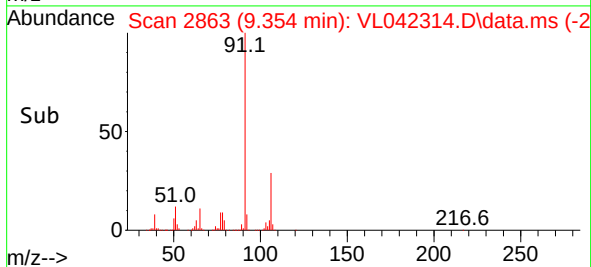
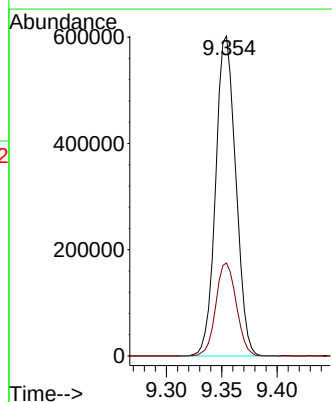
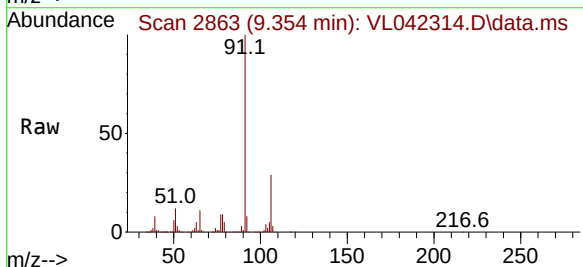
Instrument :
MSVOA_1
ClientSampleId :
VL0411ABS01

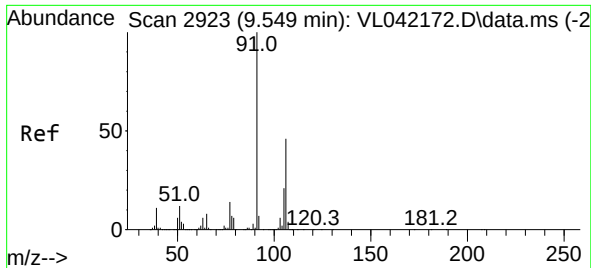
Tgt Ion:112 Resp: 457204
Ion Ratio Lower Upper
112 100
77 68.4 58.2 87.2
114 31.9 29.1 35.5



#58
Ethyl Benzene
Concen: 11.105 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 91 Resp: 761549
Ion Ratio Lower Upper
91 100
106 29.1 24.2 36.2

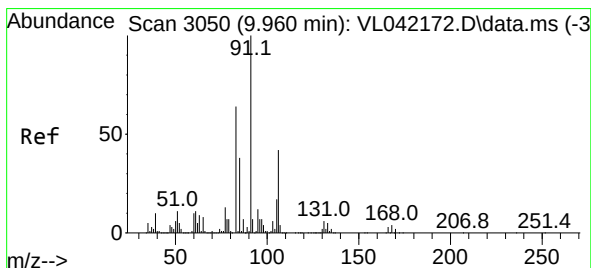
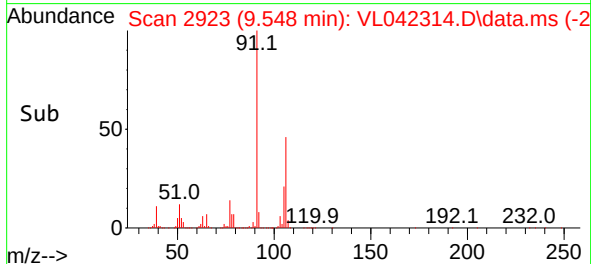
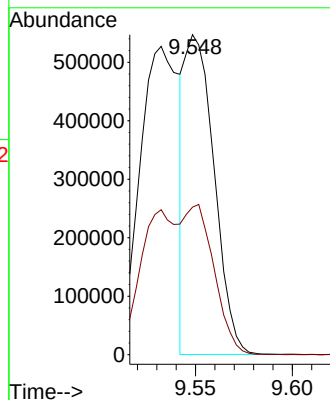
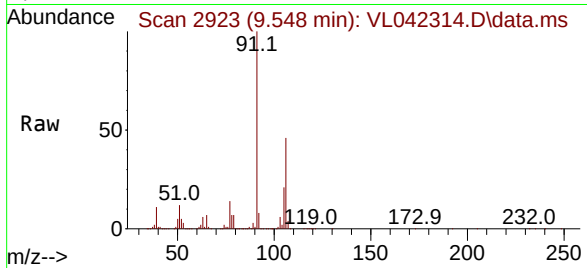




#59
m/p-Xylene
Concen: 10.514 ppbv
RT: 9.548 min Scan# 2923
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

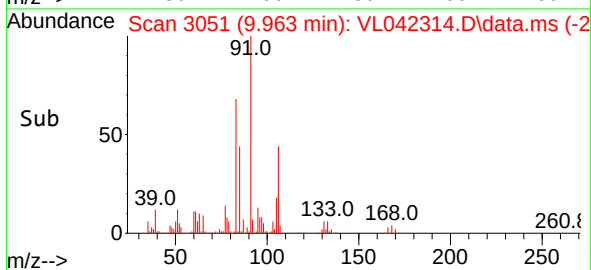
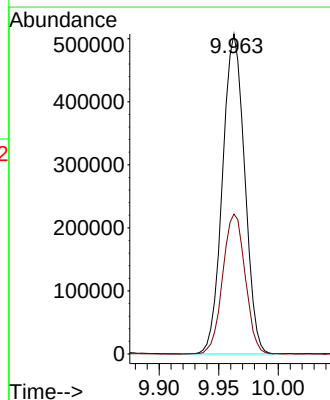
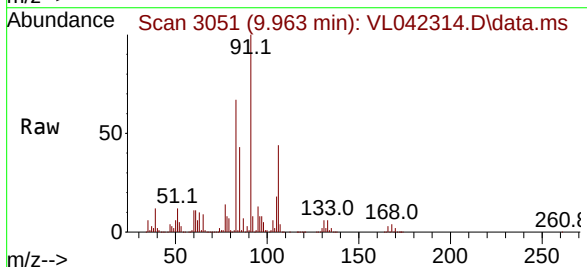
Instrument :
MSVOA_1
ClientSampleId :
VL0411ABS01

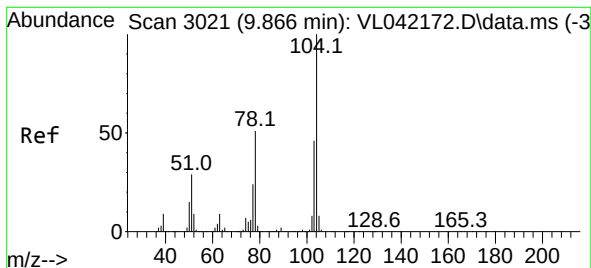
Tgt Ion: 91 Resp: 575744
Ion Ratio Lower Upper
91 100
106 107.0 36.4 54.6#



#60
o-Xylene
Concen: 11.929 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 91 Resp: 654791
Ion Ratio Lower Upper
91 100
106 44.4 20.8 62.5





#61

Styrene

Concen: 10.470 ppbv

RT: 9.869 min Scan# 3021

Delta R.T. 0.003 min

Lab File: VL042314.D

Acq: 11 Apr 2025 11:23

Instrument :

MSVOA_1

ClientSampleId :

VL0411ABS01

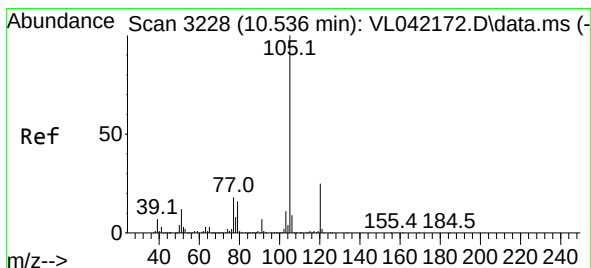
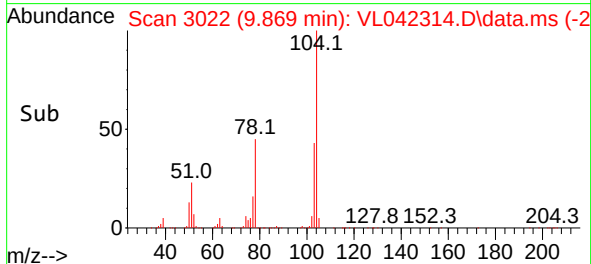
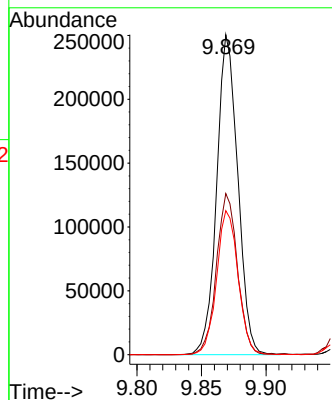
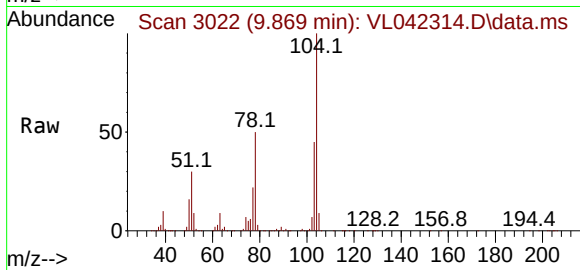
Tgt Ion:104 Resp: 284318

Ion Ratio Lower Upper

104 100

78 50.5 41.8 62.6

103 45.9 37.0 55.4



#62

Isopropylbenzene

Concen: 11.887 ppbv

RT: 10.539 min Scan# 3229

Delta R.T. 0.003 min

Lab File: VL042314.D

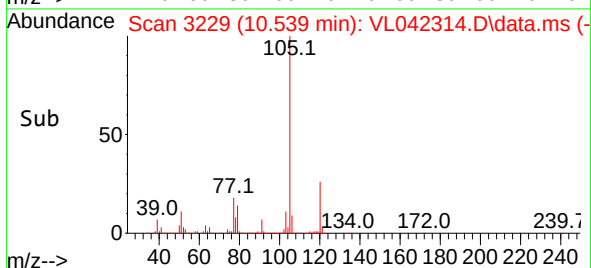
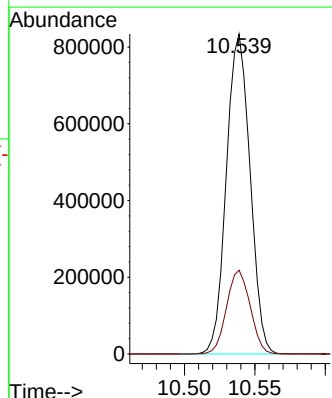
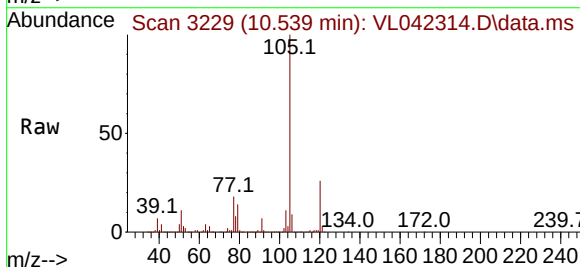
Acq: 11 Apr 2025 11:23

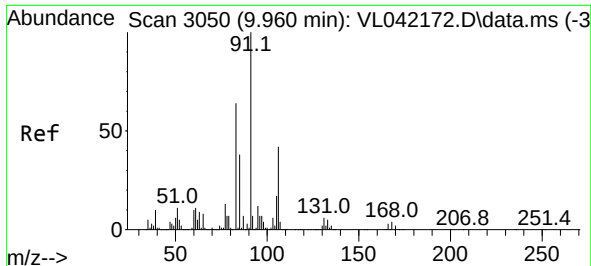
Tgt Ion:105 Resp: 975799

Ion Ratio Lower Upper

105 100

120 26.1 19.9 29.9

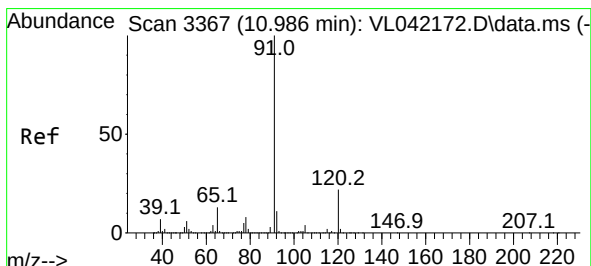
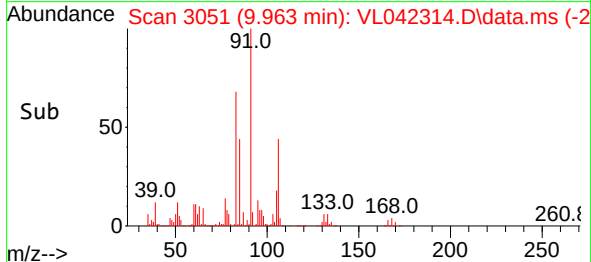
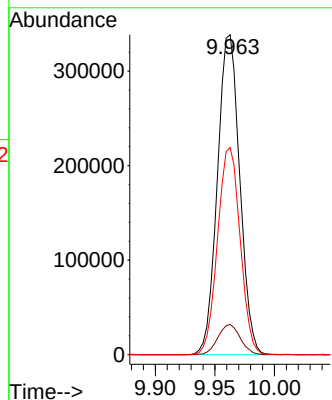
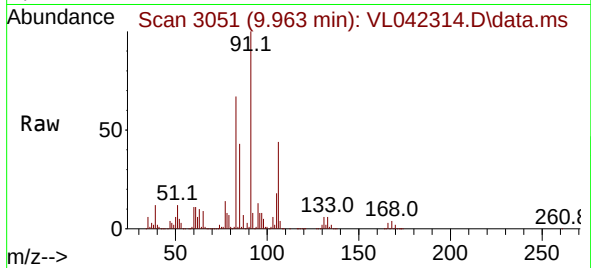




#63
1,1,2,2-Tetrachloroethane
Concen: 13.222 ppbv
RT: 9.963 min Scan# 3050
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

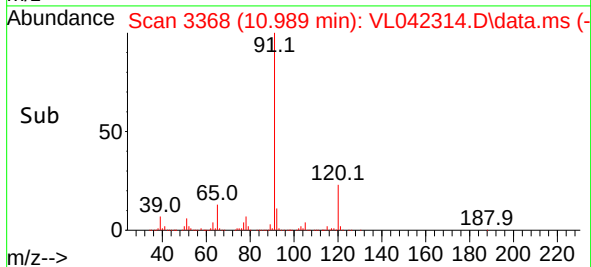
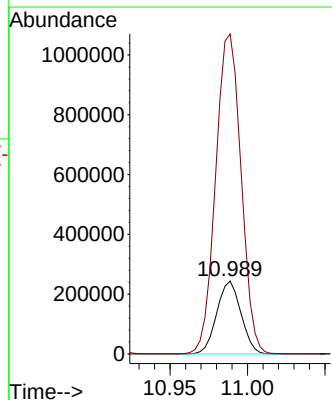
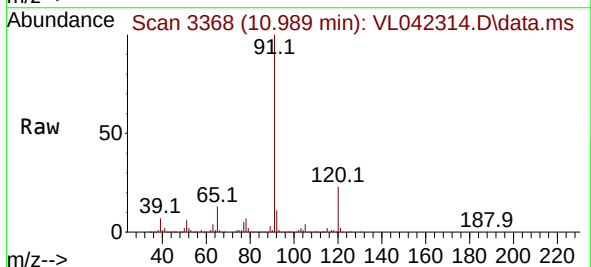
Instrument :
MSVOA_1
ClientSampleId :
VL0411ABS01

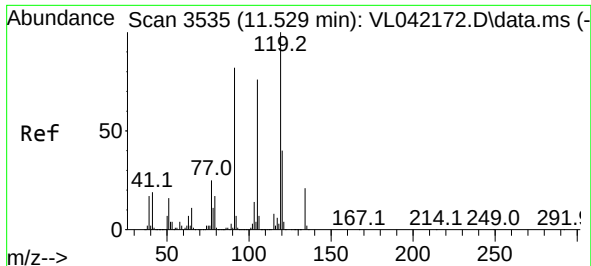
Tgt Ion: 83 Resp: 440972
Ion Ratio Lower Upper
83 100
131 9.5 4.8 14.4
85 65.3 32.5 97.5



#64
n-propylbenzene
Concen: 12.518 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 120 Resp: 264518
Ion Ratio Lower Upper
120 100
91 461.4 376.9 565.3

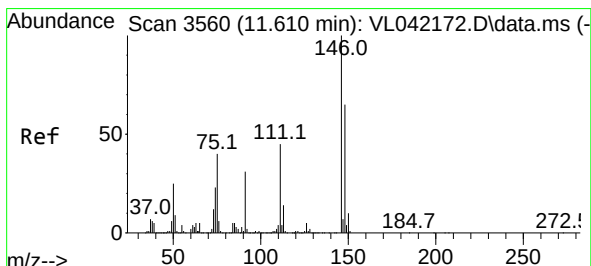
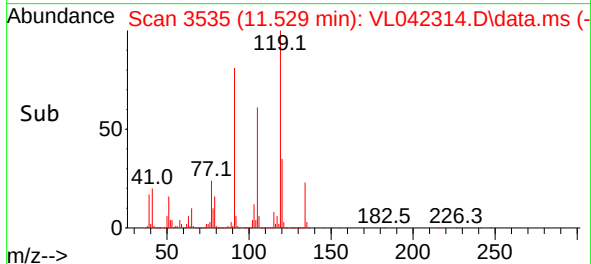
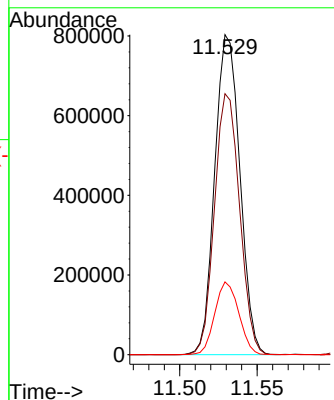
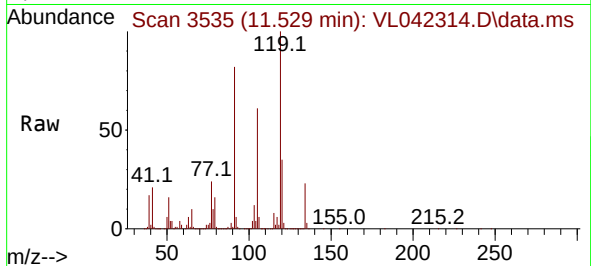




#65
tert-Butylbenzene
Concen: 11.973 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

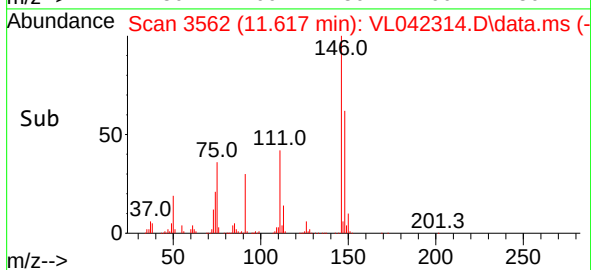
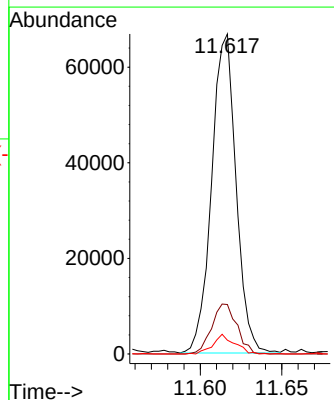
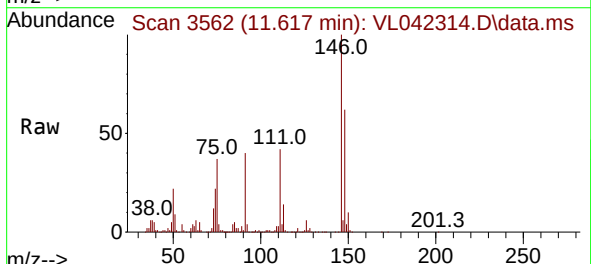
Instrument :
MSVOA_1
ClientSampleId :
VL0411ABS01

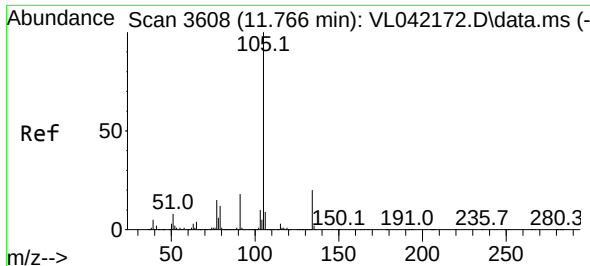
Tgt Ion:119 Resp: 908946
Ion Ratio Lower Upper
119 100
91 81.4 66.0 99.0
134 21.7 16.7 25.1



#66
Benzyl Chloride
Concen: 8.634 ppbv
RT: 11.617 min Scan# 3562
Delta R.T. 0.006 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 91 Resp: 69548
Ion Ratio Lower Upper
91 100
126 16.1 13.8 20.6
128 5.5 4.5 6.7

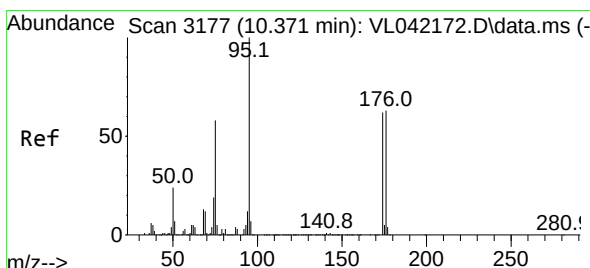
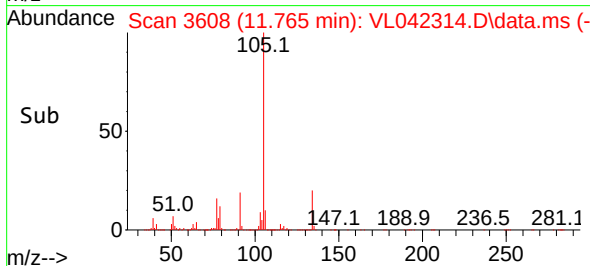
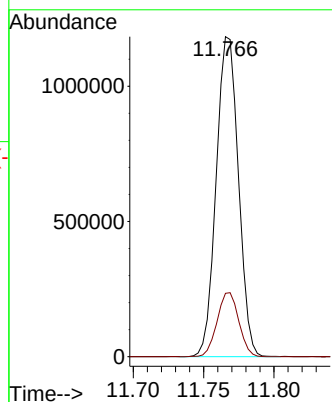
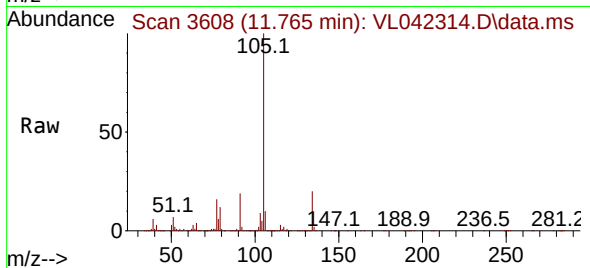




#67
 sec-Butylbenzene
 Concen: 12.320 ppbv
 RT: 11.765 min Scan# 3178
 Delta R.T. -0.000 min
 Lab File: VL042314.D
 Acq: 11 Apr 2025 11:23

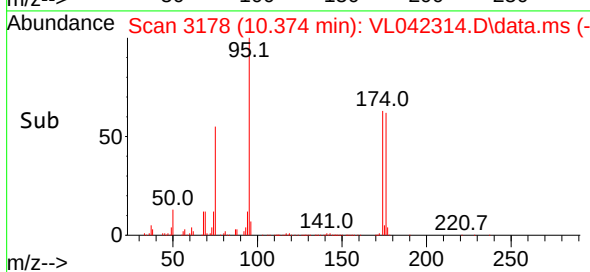
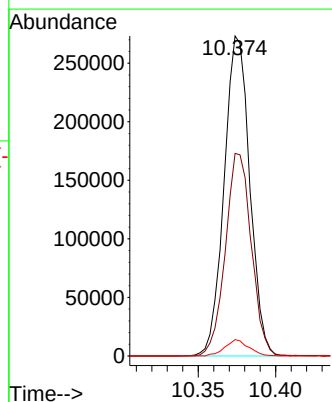
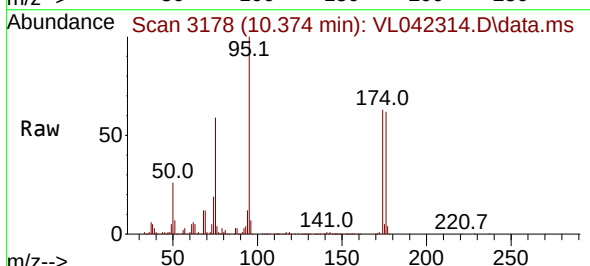
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0411ABS01

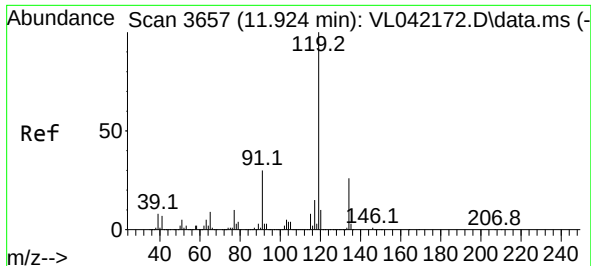
Tgt Ion:105 Resp: 1300090
 Ion Ratio Lower Upper
 105 100
 134 19.6 15.5 23.3



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.910 ppbv
 RT: 10.374 min Scan# 3178
 Delta R.T. 0.003 min
 Lab File: VL042314.D
 Acq: 11 Apr 2025 11:23

Tgt Ion: 95 Resp: 314180
 Ion Ratio Lower Upper
 95 100
 174 64.2 50.6 76.0
 175 4.7 3.8 5.6

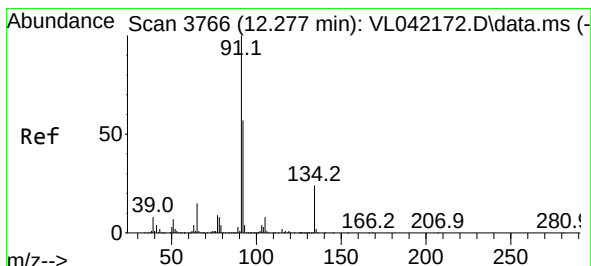
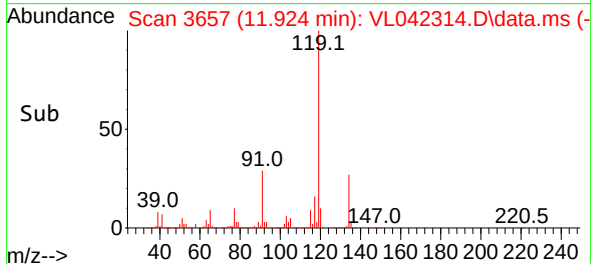
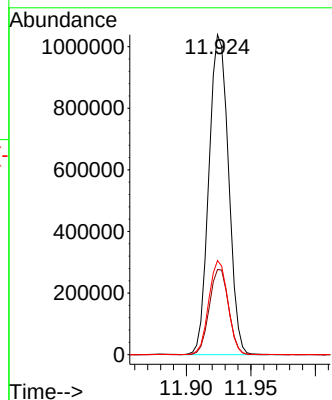
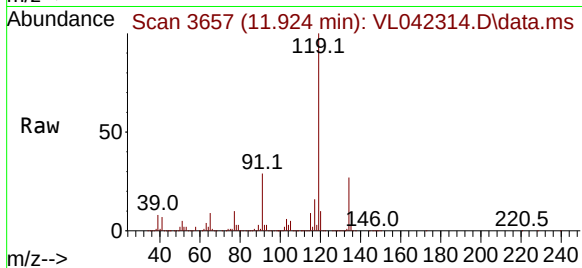




#69
p-Isopropyltoluene
Concen: 12.051 ppbv
RT: 11.924 min Scan# 3657
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

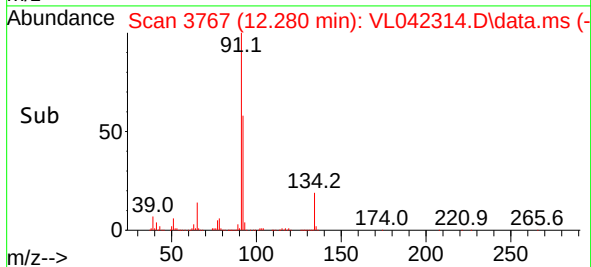
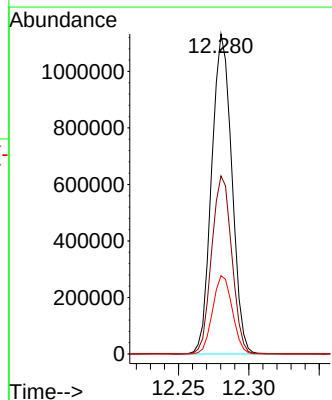
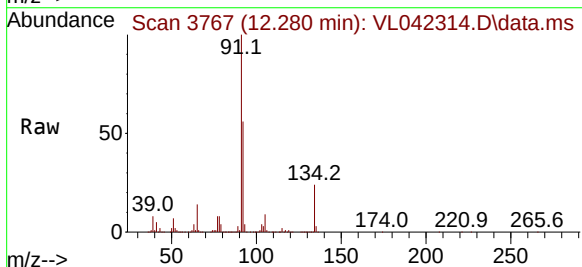
Instrument :
MSVOA_1
ClientSampleId :
VL0411ABS01

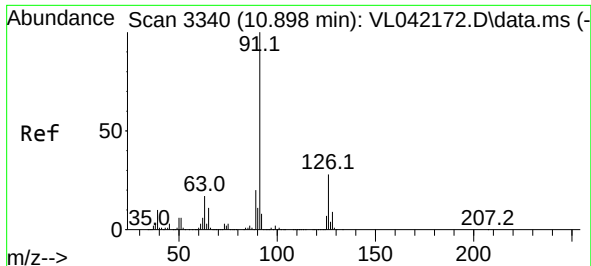
Tgt Ion:119 Resp: 1095041
Ion Ratio Lower Upper
119 100
134 26.3 20.4 30.6
91 28.5 23.7 35.5



#70
n-Butylbenzene
Concen: 12.159 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 91 Resp: 1129853
Ion Ratio Lower Upper
91 100
92 55.7 44.9 67.3
134 23.9 19.2 28.8

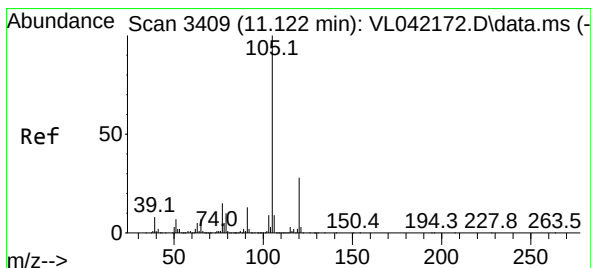
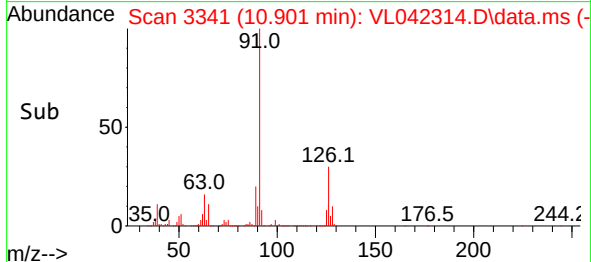
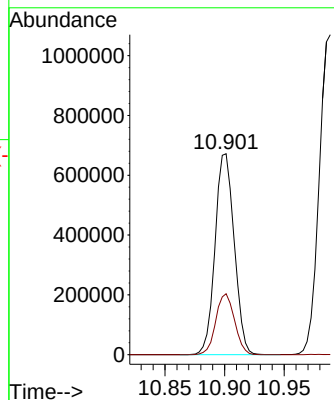
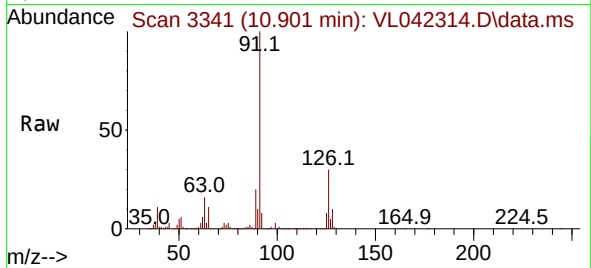




#71
2-Chlorotoluene
Concen: 11.768 ppbv
RT: 10.901 min Scan# 31
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

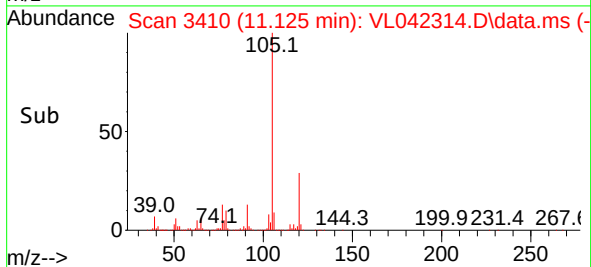
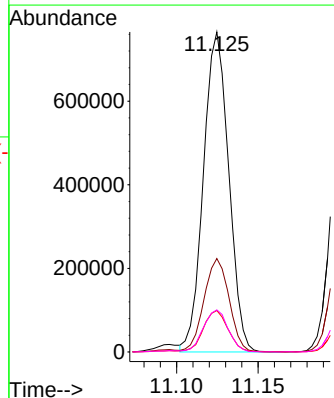
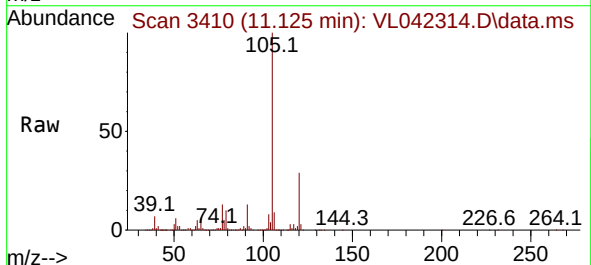
Instrument :
MSVOA_L
ClientSampleId :
VL0411ABS01

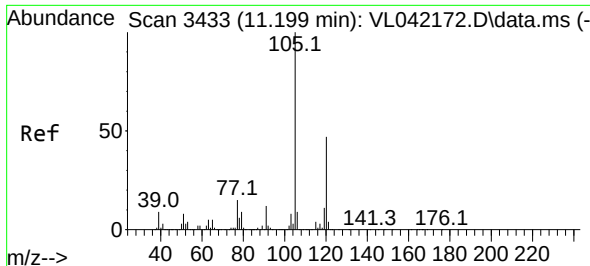
Tgt Ion: 91 Resp: 749737
Ion Ratio Lower Upper
91 100
126 29.7 11.6 46.4



#72
4-Ethyltoluene
Concen: 12.071 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 105 Resp: 825037
Ion Ratio Lower Upper
105 100
120 29.7 23.4 35.0
91 13.0 10.3 15.5
77 13.3 11.4 17.2

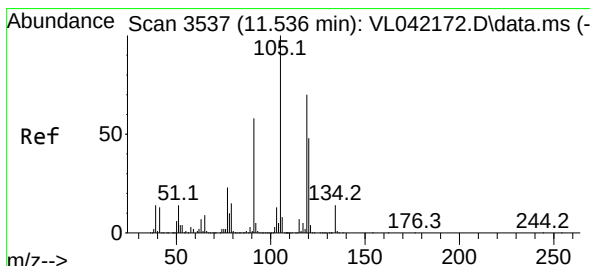
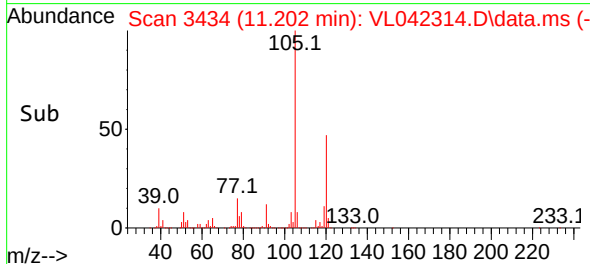
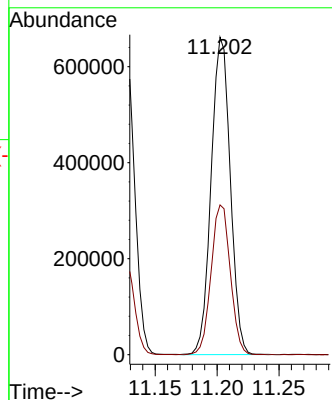
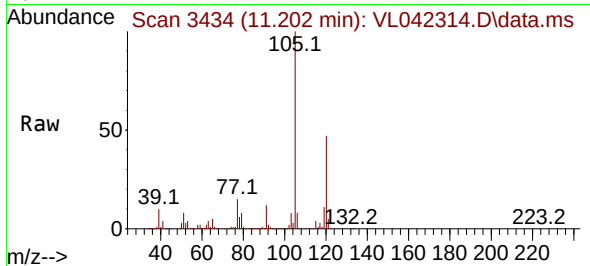




#73
1,3,5-Trimethylbenzene
Concen: 11.914 ppbv
RT: 11.202 min Scan# 3434
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

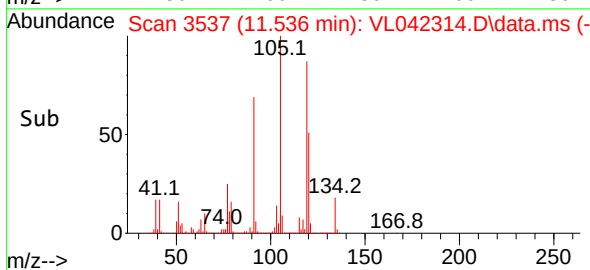
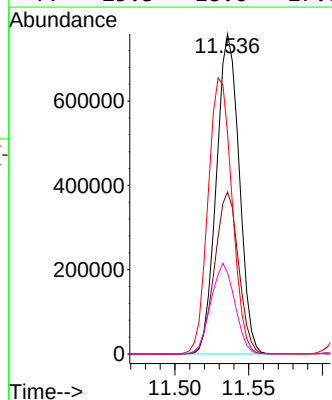
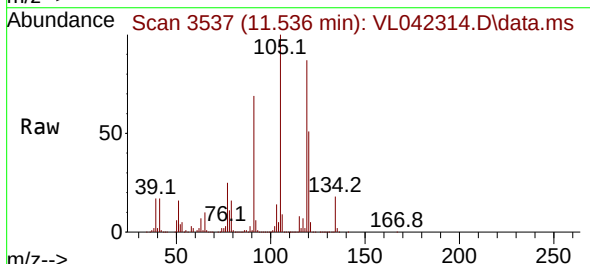
Instrument :
MSVOA_1
ClientSampleId :
VL0411ABS01

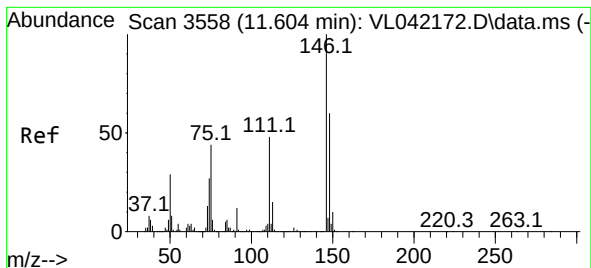
Tgt Ion:105 Resp: 711175
Ion Ratio Lower Upper
105 100
120 47.2 37.4 56.0



#74
1,2,4-Trimethylbenzene
Concen: 11.873 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion:105 Resp: 816505
Ion Ratio Lower Upper
105 100
120 50.6 38.6 58.0
91 68.8 46.2 69.2
77 25.3 18.6 27.8





#75

1,3-Dichlorobenzene

Concen: 12.835 ppbv

RT: 11.607 min Scan# 3558

Delta R.T. 0.003 min

Lab File: VL042314.D

Acq: 11 Apr 2025 11:23

Instrument :

MSVOA_1

ClientSampleId :

VL0411ABS01

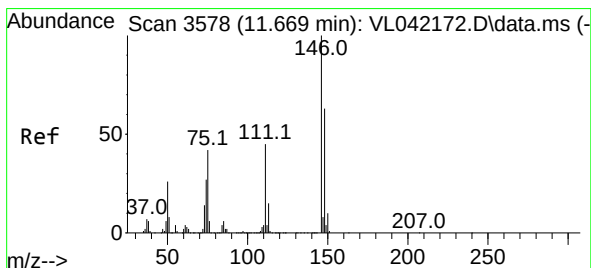
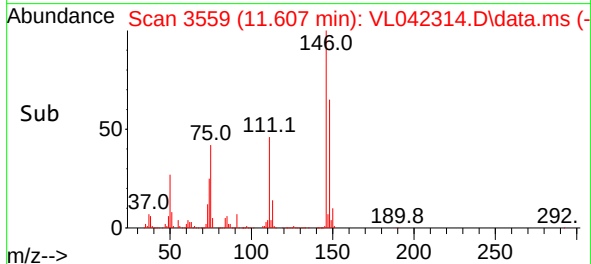
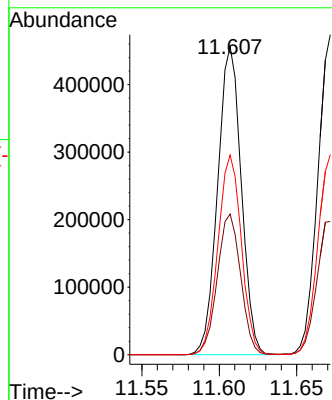
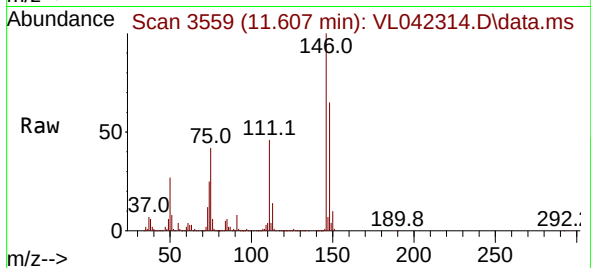
Tgt Ion:146 Resp: 484099

Ion Ratio Lower Upper

146 100

111 45.2 23.8 71.2

148 64.3 31.9 95.9



#76

1,4-Dichlorobenzene

Concen: 12.933 ppbv

RT: 11.672 min Scan# 3579

Delta R.T. 0.003 min

Lab File: VL042314.D

Acq: 11 Apr 2025 11:23

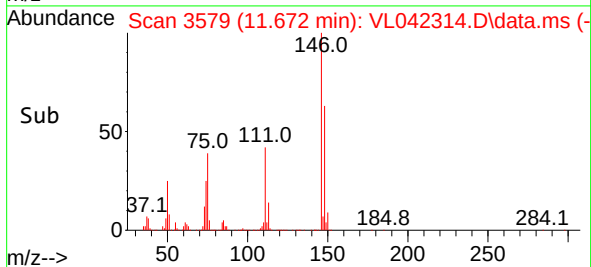
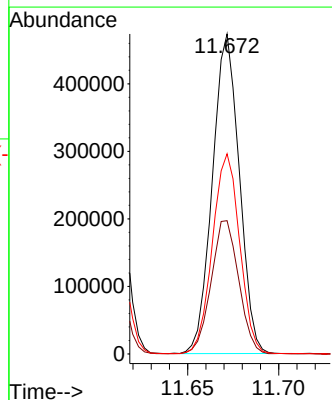
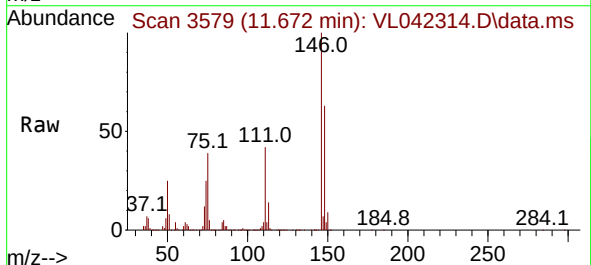
Tgt Ion:146 Resp: 485460

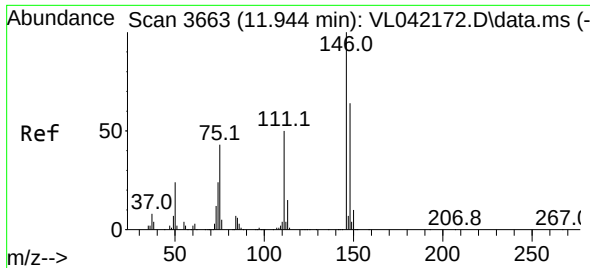
Ion Ratio Lower Upper

146 100

111 43.1 23.0 69.0

148 63.7 31.9 95.7

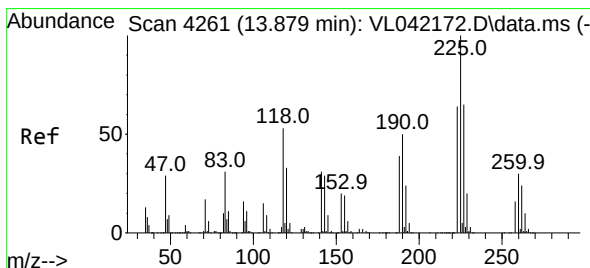
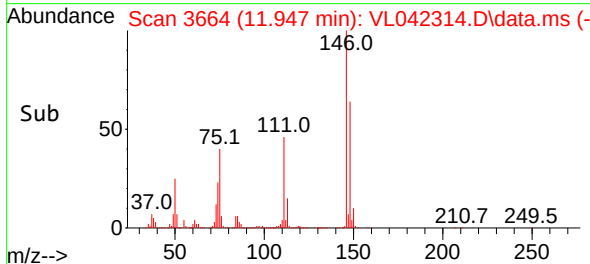
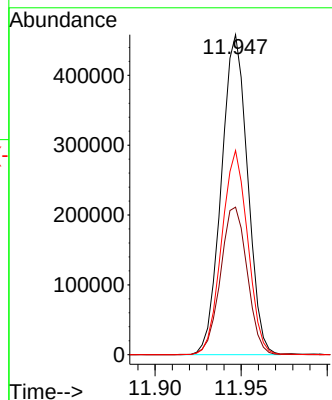
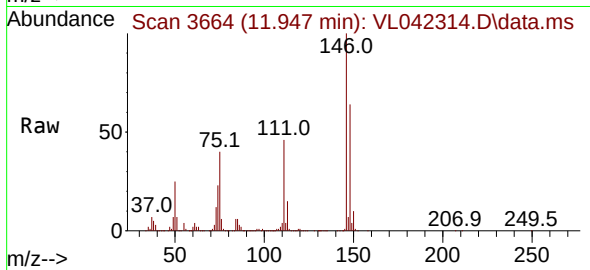




#77
1,2-Dichlorobenzene
Concen: 13.218 ppbv
RT: 11.947 min Scan# 3663
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

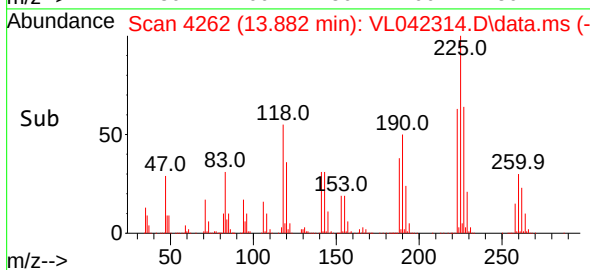
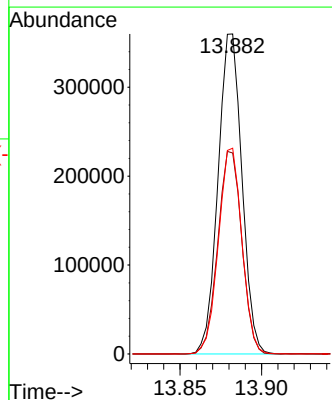
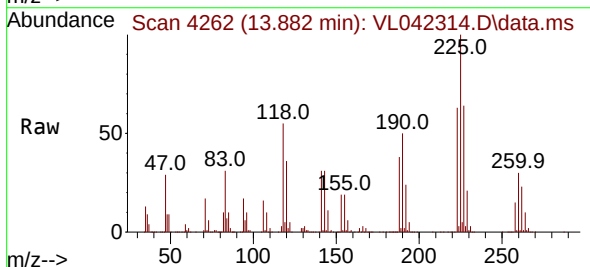
Instrument :
MSVOA_1
ClientSampleId :
VL0411ABS01

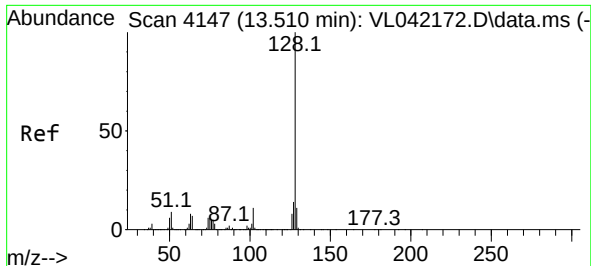
Tgt Ion:146 Resp: 485421
Ion Ratio Lower Upper
146 100
111 47.1 24.8 74.3
148 63.5 31.6 94.8



#78
Hexachloro-1,3-Butadiene
Concen: 9.814 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion:225 Resp: 366850
Ion Ratio Lower Upper
225 100
223 63.5 50.6 76.0
227 63.2 51.2 76.8

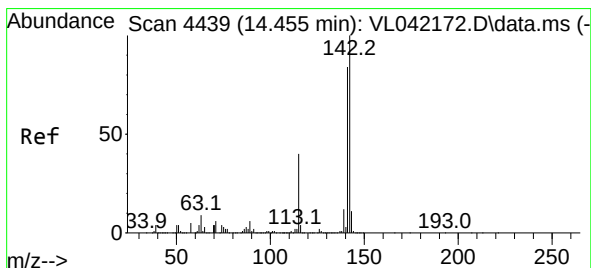
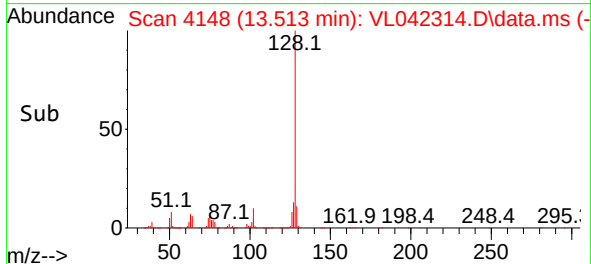
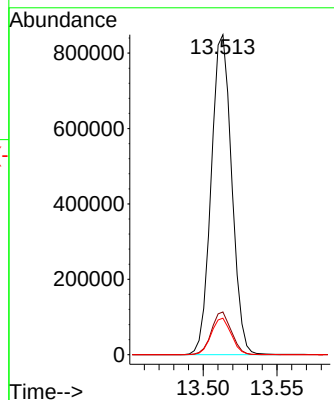
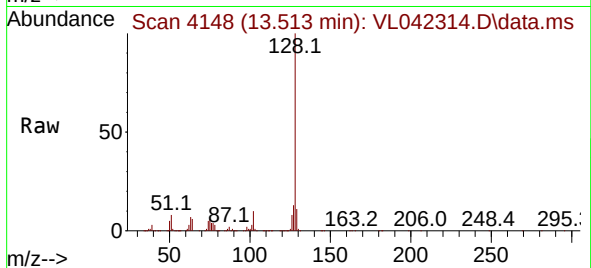




#79
Naphthalene
Concen: 10.904 ppbv
RT: 13.513 min Scan# 4148
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

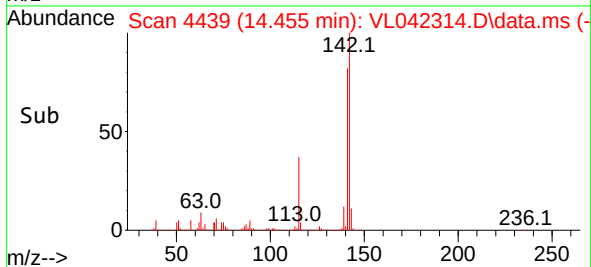
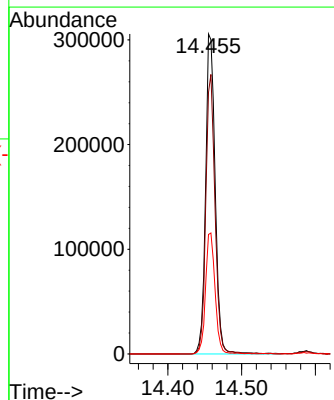
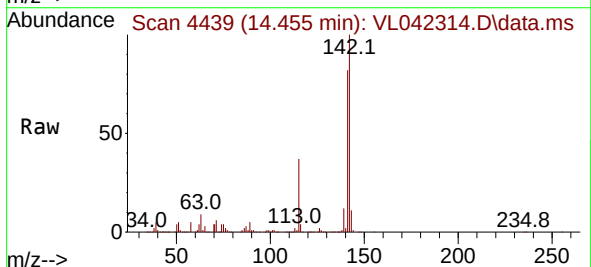
Instrument :
MSVOA_1
ClientSampleId :
VL0411ABS01

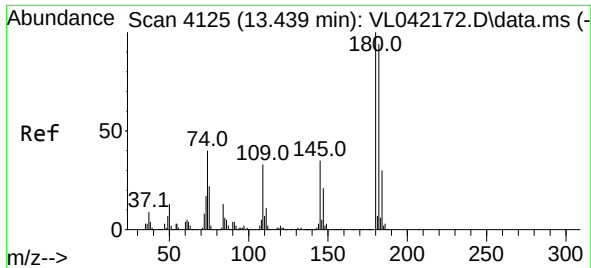
Tgt Ion:128 Resp: 820200
Ion Ratio Lower Upper
128 100
127 13.3 10.8 16.2
129 11.4 9.0 13.4



#80
Naphthalene,2-methyl-
Concen: 7.434 ppbv
RT: 14.455 min Scan# 4439
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

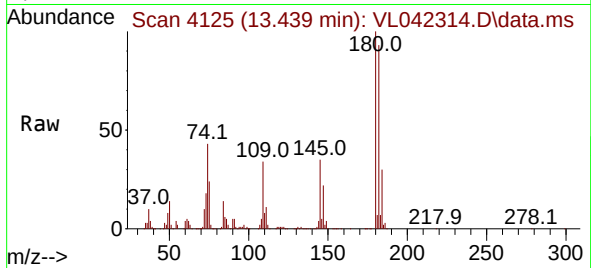
Tgt Ion:142 Resp: 274227
Ion Ratio Lower Upper
142 100
141 84.7 66.3 99.5
115 37.9 31.6 47.4



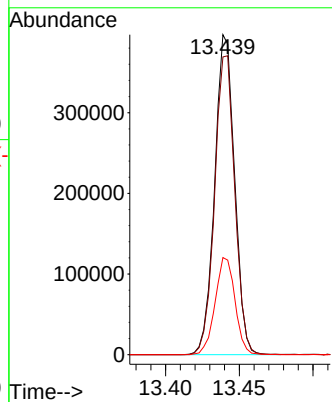
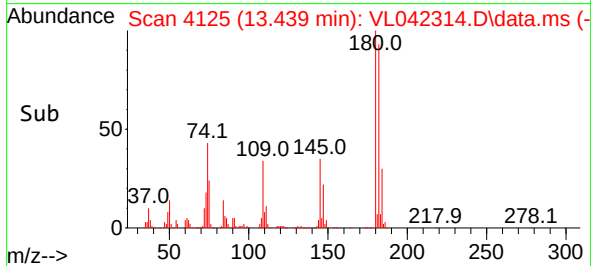


#81
 1,2,4-Trichlorobenzene
 Concen: 10.762 ppbv
 RT: 13.439 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VL042314.D
 Acq: 11 Apr 2025 11:23

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0411ABS01



Tgt Ion:180 Resp: 373404
 Ion Ratio Lower Upper
 180 100
 182 94.7 75.1 112.7
 184 30.3 24.4 36.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
 Data File : VL042317.D
 Acq On : 11 Apr 2025 13:15
 Operator : SY/MD
 Sample : Q1665-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B10-2-3242025

Quant Time: Apr 11 22:59:23 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

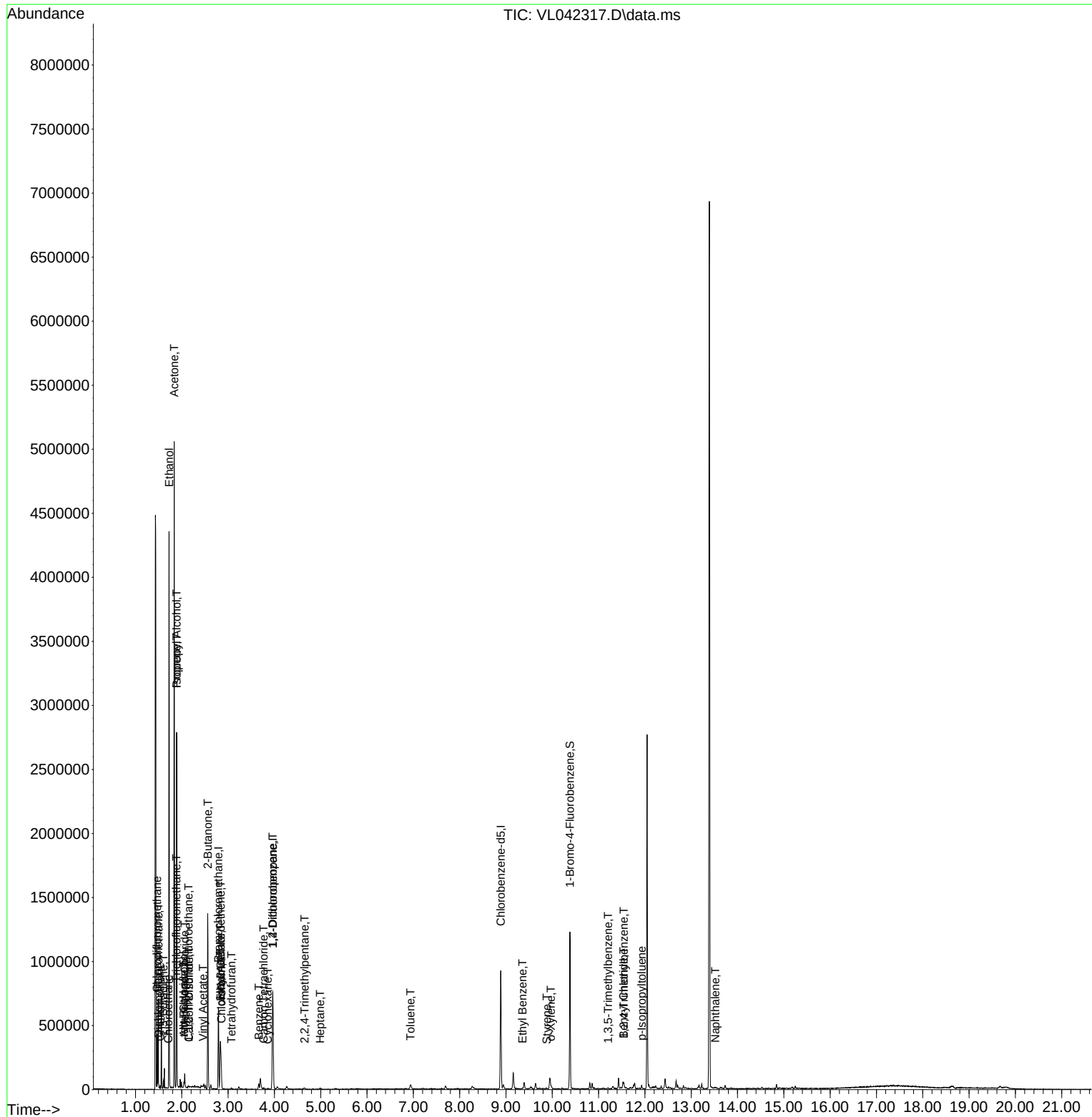
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.790	49	179309	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	422807	10.000	ppbv	0.01
55) Chlorobenzene-d5	8.888	117	360993	10.000	ppbv	0.01
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	291371	9.829	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.300%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	10578	0.400	ppbv	98
3) Chlorodifluoromethane	1.466	51	93929	3.473	ppbv #	62
4) Chloromethane	1.531	50	6409	0.592	ppbv	93
7) Chloroethane	1.706	64	240	0.055	ppbv	93
9) Propene	1.887	41	119548	9.644	ppbv	88
10) Heptane	4.988	43	1233	0.037	ppbv #	28
11) Trichlorofluoromethane	1.881	101	5509	0.214	ppbv	86
12) 1,1,2-Trichlorotrifluo...	2.143	101	1509	0.071	ppbv	100
13) Ethanol	1.725	45	1540169	1314.265	ppbv	93
15) Acetone	1.835	43	2074699	82.732	ppbv #	78
16) 1,3-Butadiene	1.602	39	6866	0.561	ppbv #	34
17) tert-Butyl alcohol	2.046	59	14565	0.466	ppbv	97
19) Isopropyl Alcohol	1.887	45	1147205	81.079	ppbv #	58
20) Methylene Chloride	2.065	84	14725	1.577	ppbv	90
21) Allyl Chloride	2.046	41	5543	0.313	ppbv #	32
23) Vinyl Acetate	2.457	43	13063	1.204	ppbv #	96
25) Ethyl Acetate	2.839	43	166820	2.563	ppbv	98
26) Hexane	2.829	57	64050	2.548	ppbv	93
27) Carbon Disulfide	2.152	76	1240	0.046	ppbv #	58
29) Chloroform	2.855	83	50104	1.362	ppbv	95
30) Cyclohexane	3.855	84	856	0.039	ppbv #	1
31) cis-1,2-Dichloroethene	2.842	61	14803	0.580	ppbv #	25
34) 2-Butanone	2.560	43	822701	26.834	ppbv	98
35) Carbon Tetrachloride	3.768	117	2524	0.076	ppbv #	88
36) Benzene	3.664	78	25066	0.598	ppbv #	90
39) 1,2-Dichloropropane	3.962	63	108598	7.114	ppbv #	23
41) Tetrahydrofuran	3.072	42	2277	0.129	ppbv #	67
44) 2,2,4-Trimethylpentane	4.651	57	5375	0.076	ppbv #	33
53) Toluene	6.939	91	24232	0.488	ppbv	99
58) Ethyl Benzene	9.357	91	4399	0.069	ppbv	91
60) o-Xylene	9.969	91	5940	0.116	ppbv	89
61) Styrene	9.878	104	838	0.033	ppbv #	1
66) Benzyl Chloride	11.539	91	1109	0.147	ppbv #	70
69) p-Isopropyltoluene	11.930	119	7802	0.092	ppbv #	68
73) 1,3,5-Trimethylbenzene	11.205	105	1875	0.034	ppbv	96
74) 1,2,4-Trimethylbenzene	11.542	105	7764	0.121	ppbv #	72
79) Naphthalene	13.520	128	3811	0.054	ppbv	98

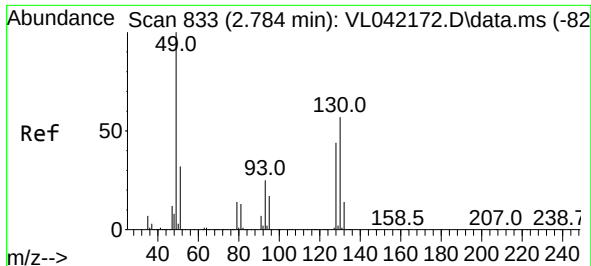
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : VL042317.D
Acq On : 11 Apr 2025 13:15
Operator : SY/MD
Sample : Q1665-03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B10-2-3242025

Quant Time: Apr 11 22:59:23 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

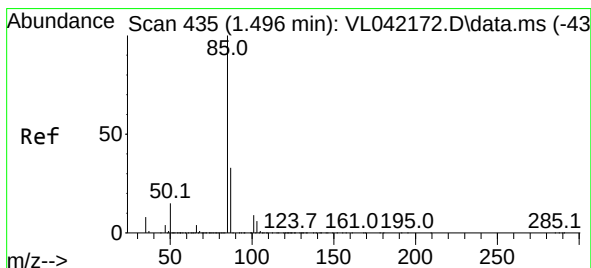
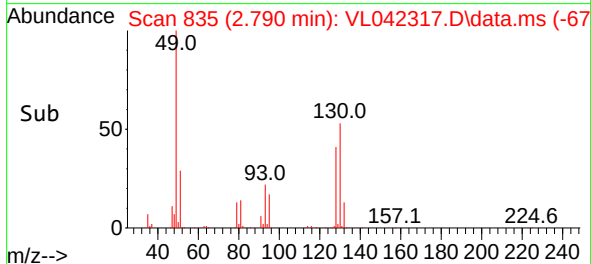
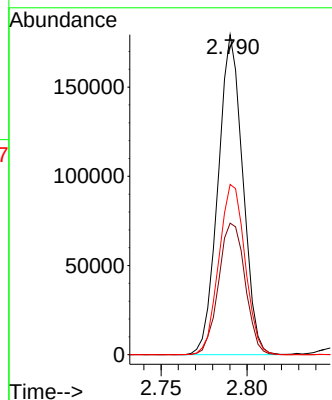
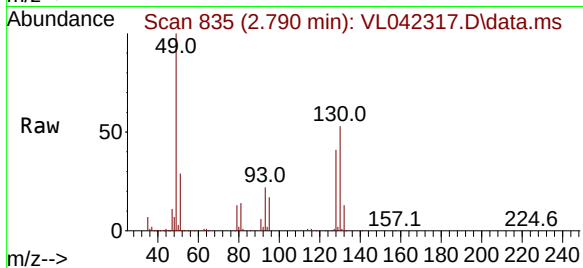




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 81
Delta R.T. 0.006 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

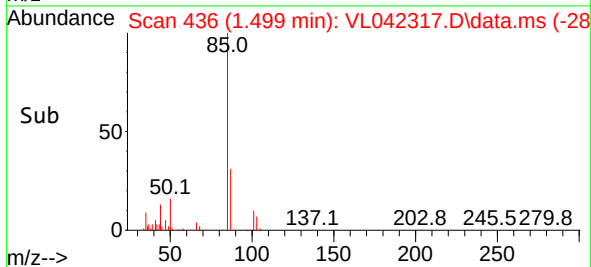
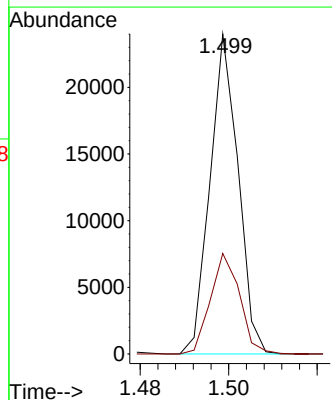
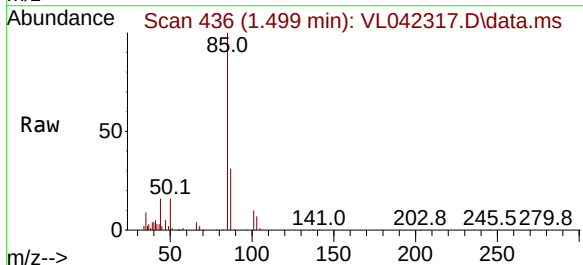
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-2-3242025

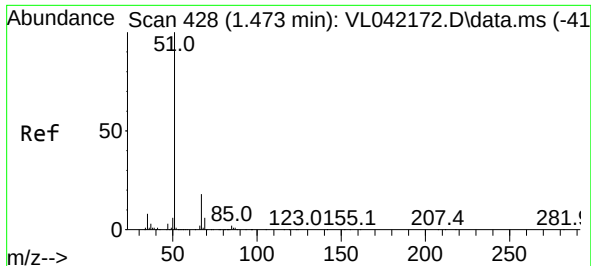
Tgt Ion: 49 Resp: 179309
Ion Ratio Lower Upper
49 100
128 44.1 22.9 68.5
130 56.5 28.8 86.4



#2
Dichlorodifluoromethane
Concen: 0.400 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

Tgt Ion: 85 Resp: 10578
Ion Ratio Lower Upper
85 100
87 31.4 26.1 39.1

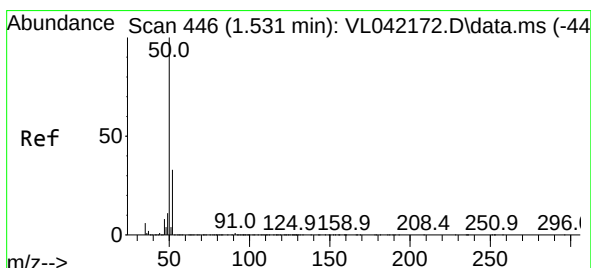
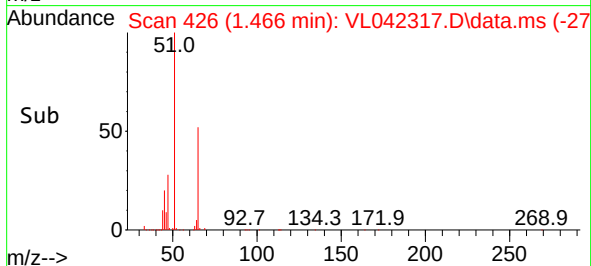
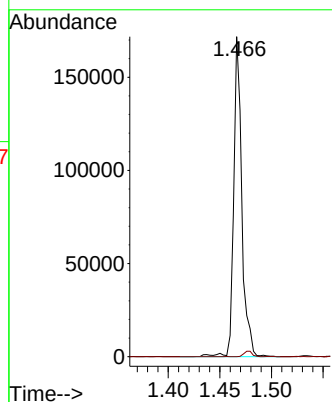
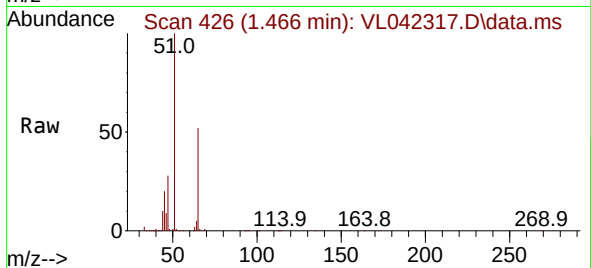




#3
Chlorodifluoromethane
Concen: 3.473 ppbv
RT: 1.466 min Scan# 41
Delta R.T. -0.007 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

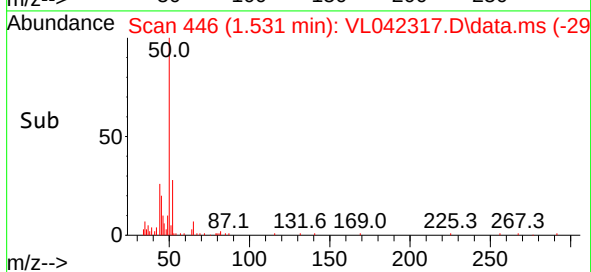
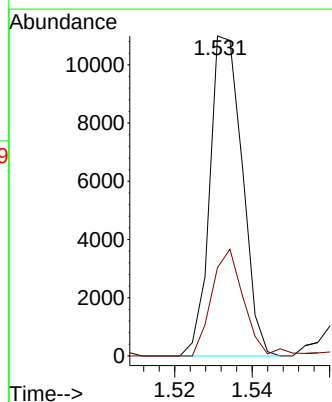
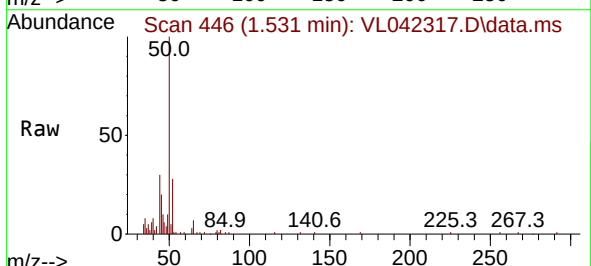
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-2-3242025

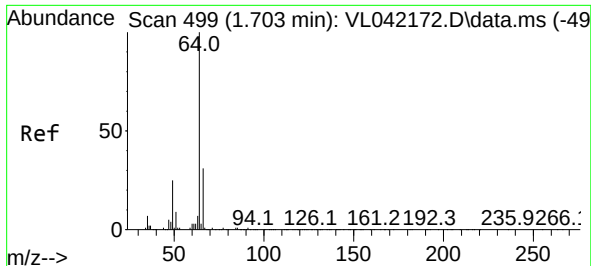
Tgt Ion: 51 Resp: 93929
Ion Ratio Lower Upper
51 100
67 1.8 15.0 22.6#



#4
Chloromethane
Concen: 0.592 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

Tgt Ion: 50 Resp: 6409
Ion Ratio Lower Upper
50 100
52 28.9 26.1 39.1

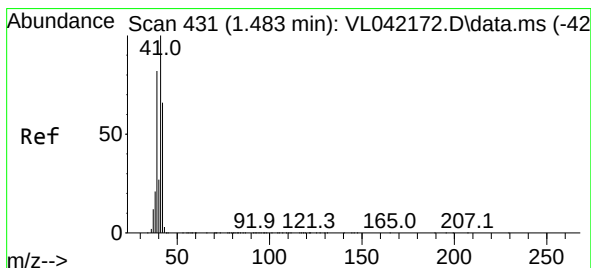
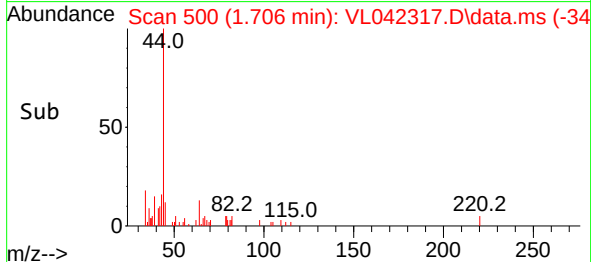
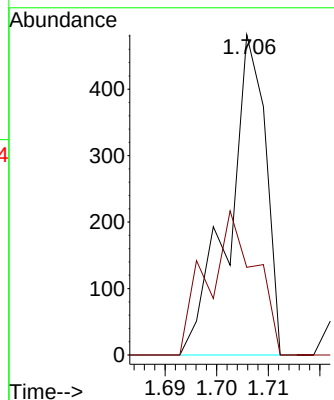
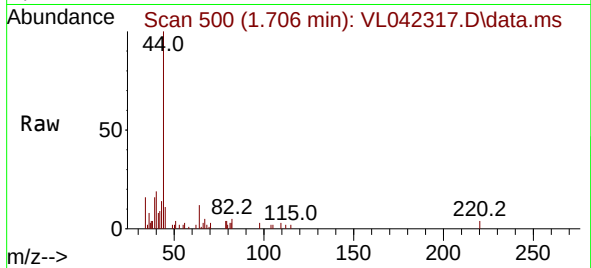




#7
Chloroethane
Concen: 0.055 ppbv
RT: 1.706 min Scan# 50
Delta R.T. 0.003 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

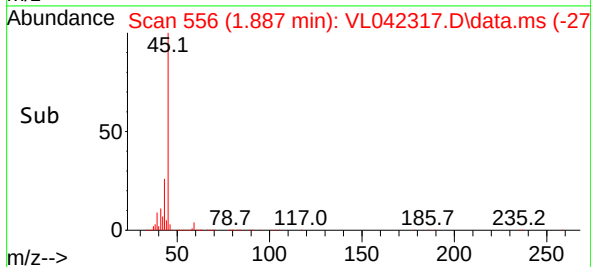
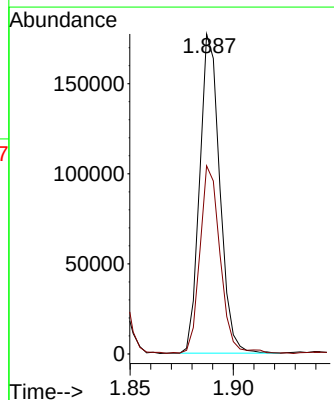
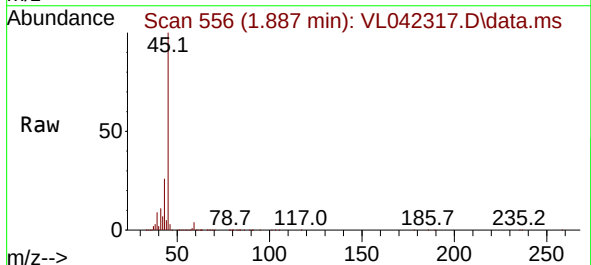
Instrument :
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ClientSampleId :
IA-B10-2-3242025

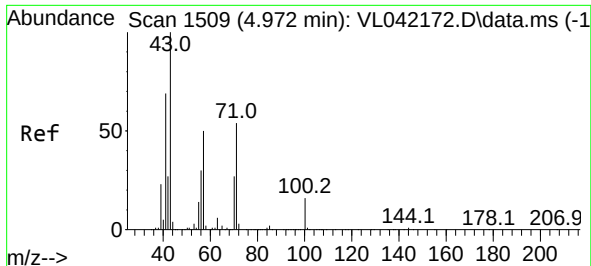
Tgt Ion: 64 Resp: 240
Ion Ratio Lower Upper
64 100
66 27.4 25.2 37.8



#9
Propene
Concen: 9.644 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.404 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

Tgt Ion: 41 Resp: 119548
Ion Ratio Lower Upper
41 100
42 59.2 55.4 83.2

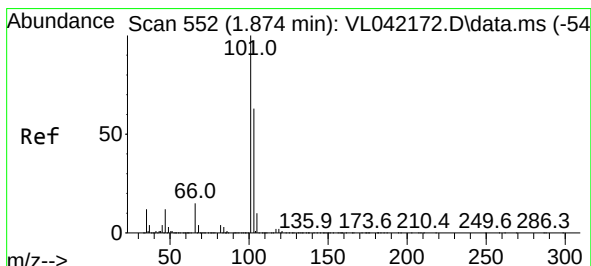
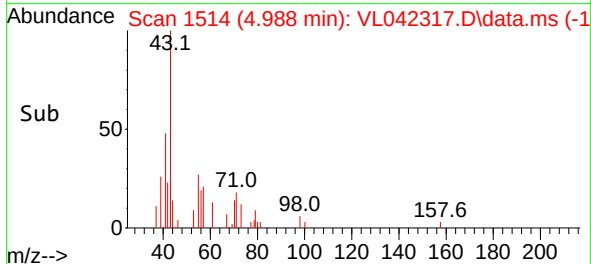
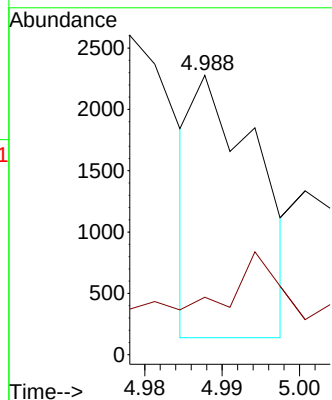
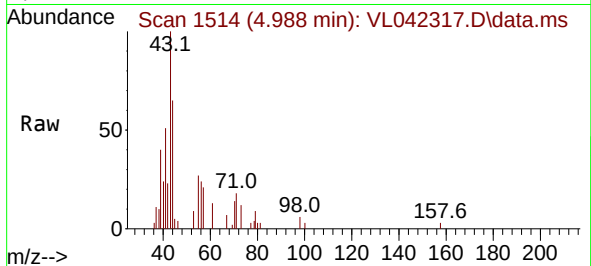




#10
Heptane
Concen: 0.037 ppbv
RT: 4.988 min Scan# 11
Delta R.T. 0.016 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

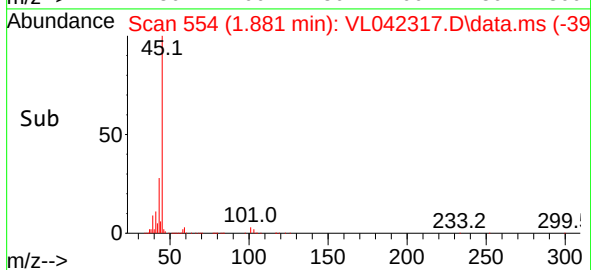
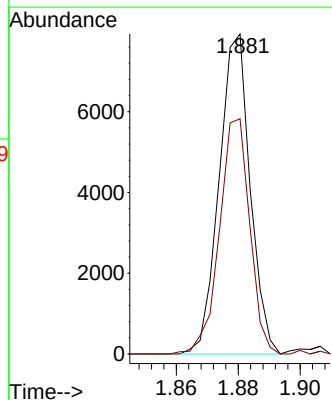
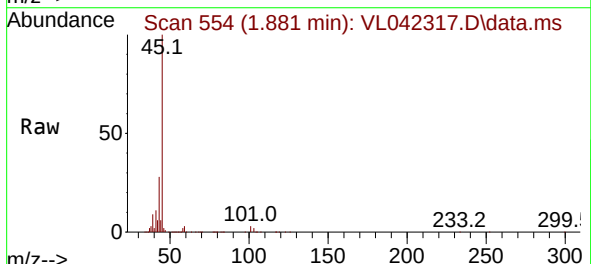
Instrument :
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ClientSampleId :
IA-B10-2-3242025

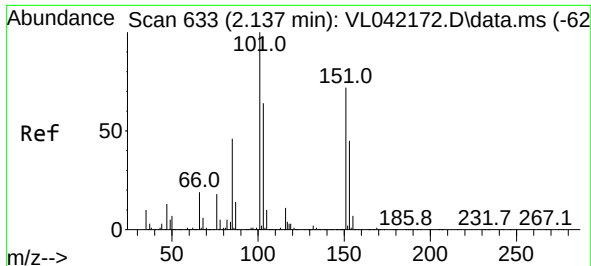
Tgt Ion: 43 Resp: 1233
Ion Ratio Lower Upper
43 100
57 0.0 39.4 59.2#



#11
Trichlorofluoromethane
Concen: 0.214 ppbv
RT: 1.881 min Scan# 554
Delta R.T. 0.006 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

Tgt Ion: 101 Resp: 5509
Ion Ratio Lower Upper
101 100
103 73.5 50.2 75.2

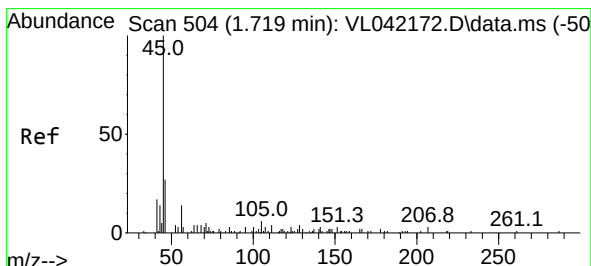
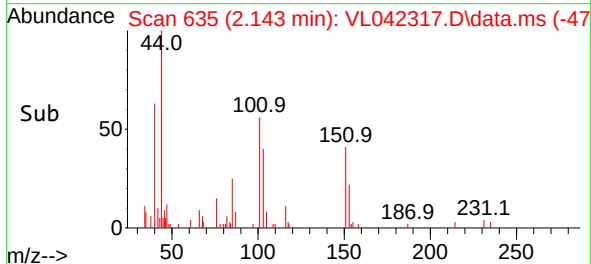
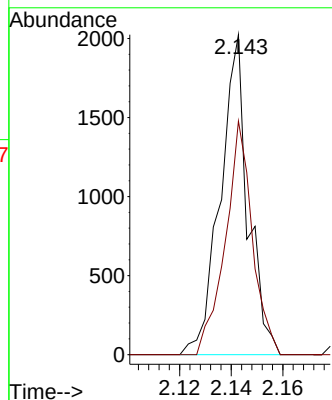
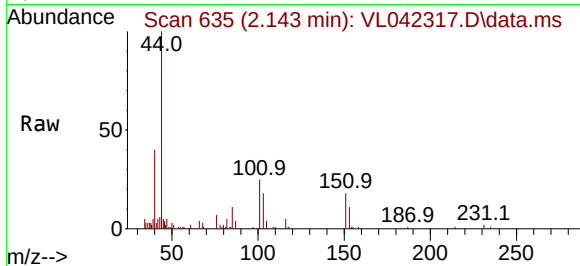




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.071 ppbv
RT: 2.143 min Scan# 61
Delta R.T. 0.006 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

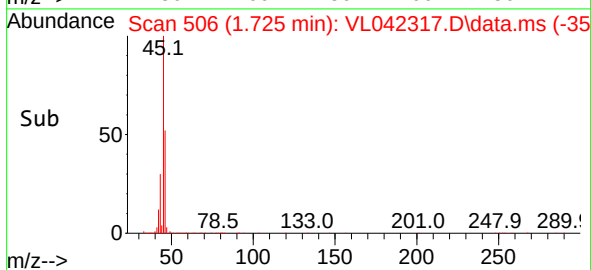
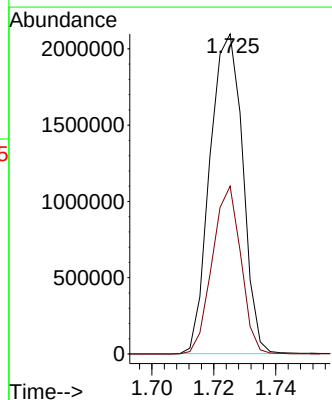
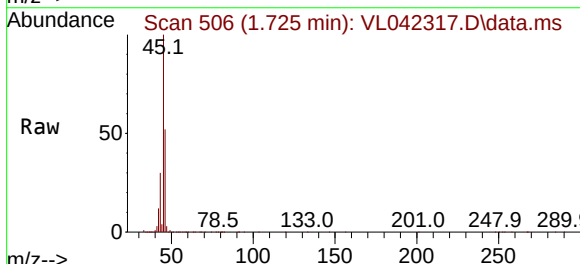
Instrument :
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ClientSampleId :
IA-B10-2-3242025

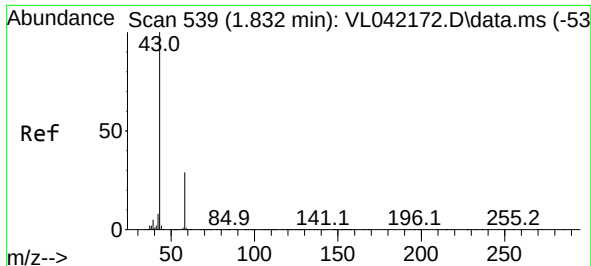
Tgt Ion:101 Resp: 1509
Ion Ratio Lower Upper
101 100
151 71.1 57.1 85.7



#13
Ethanol
Concen: 1314.265 ppbv
RT: 1.725 min Scan# 506
Delta R.T. 0.006 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

Tgt Ion: 45 Resp: 1540169
Ion Ratio Lower Upper
45 100
46 45.9 20.2 80.8

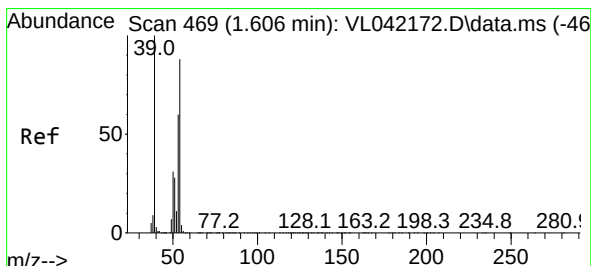
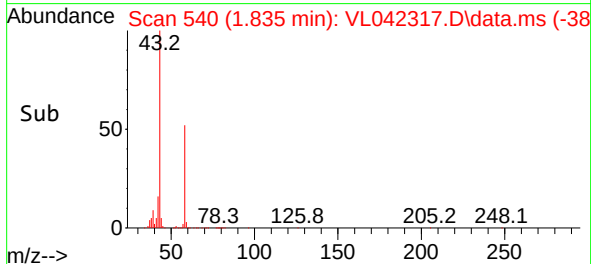
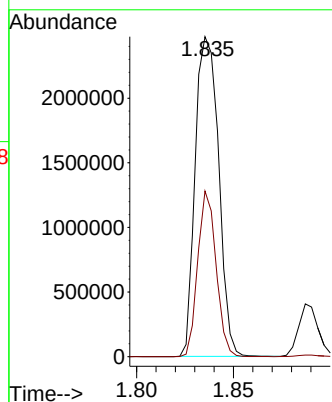
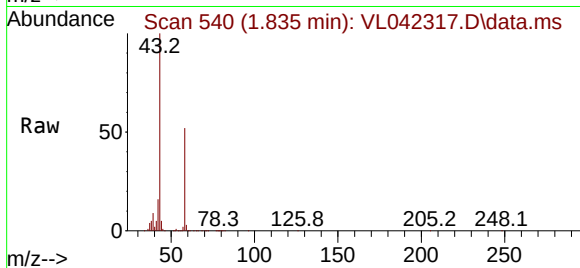




#15
Acetone
Concen: 82.732 ppbv
RT: 1.835 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

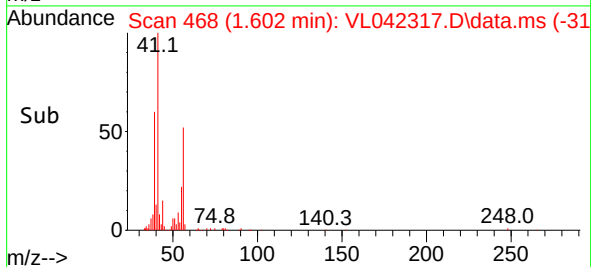
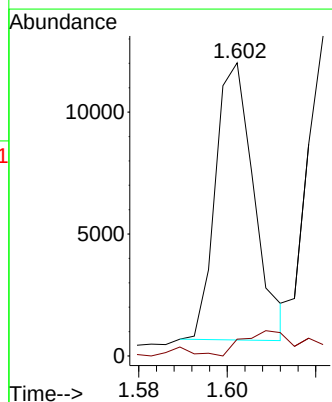
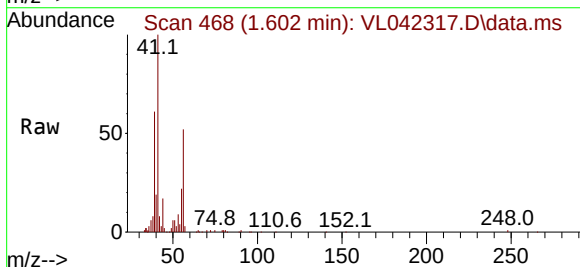
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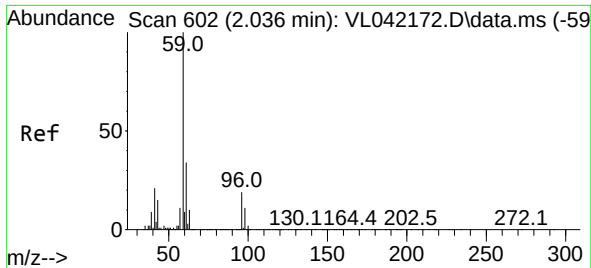
Tgt Ion: 43 Resp: 2074699
Ion Ratio Lower Upper
43 100
58 40.8 23.2 34.8#



#16
1,3-Butadiene
Concen: 0.561 ppbv
RT: 1.602 min Scan# 468
Delta R.T. -0.004 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

Tgt Ion: 39 Resp: 6866
Ion Ratio Lower Upper
39 100
54 19.3 60.7 91.1#

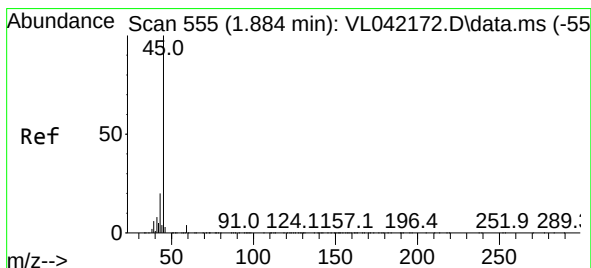
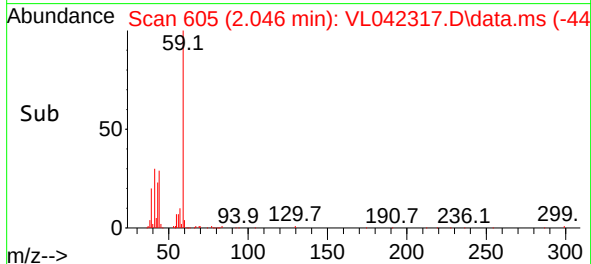
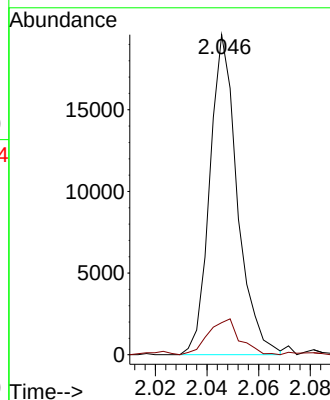
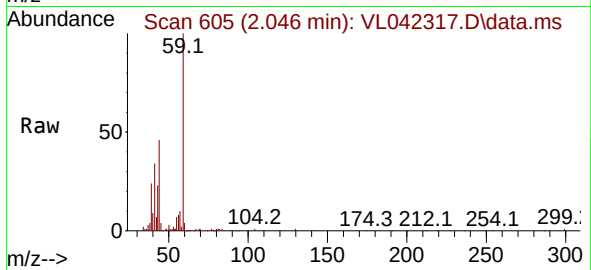




#17
tert-Butyl alcohol
Concen: 0.466 ppbv
RT: 2.046 min Scan# 602
Delta R.T. 0.009 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

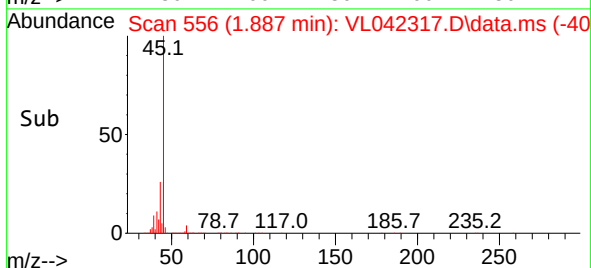
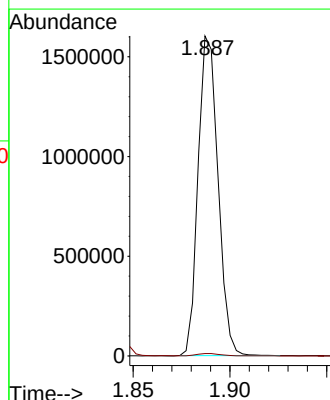
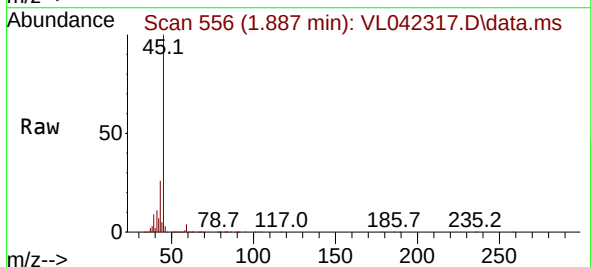
Instrument :
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ClientSampleId :
IA-B10-2-3242025

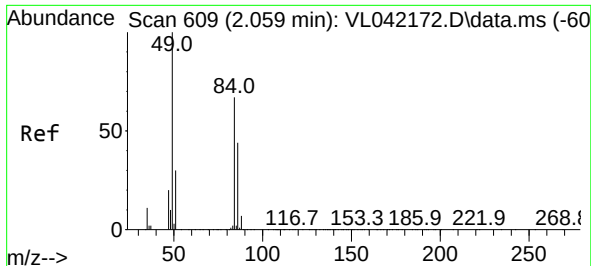
Tgt Ion: 59 Resp: 14565
Ion Ratio Lower Upper
59 100
57 12.2 8.9 13.3



#19
Isopropyl Alcohol
Concen: 81.079 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.003 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

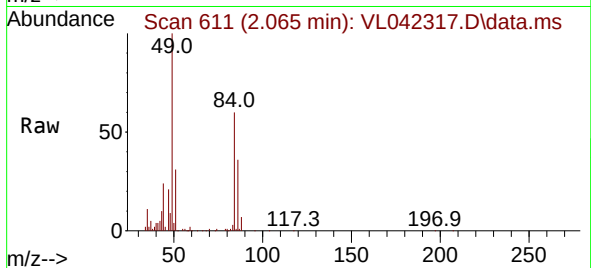
Tgt Ion: 45 Resp: 1147205
Ion Ratio Lower Upper
45 100
58 73.9 36.9 55.3#





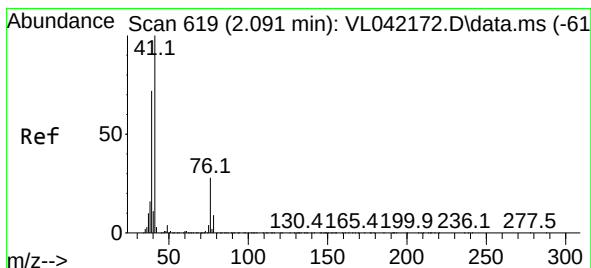
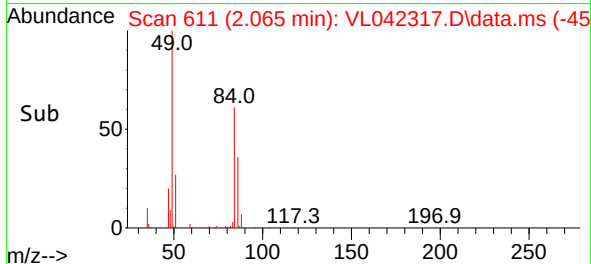
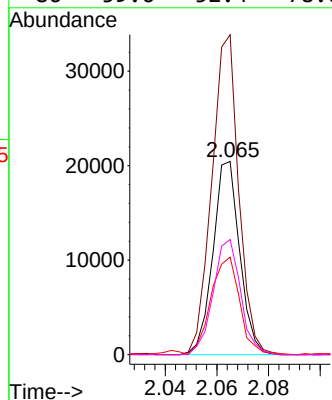
#20
Methylene Chloride
Concen: 1.577 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.006 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

Instrument :
MSVOA_1
ClientSampleId :
IA-B10-2-3242025



Tgt Ion: 84 Resp: 14725

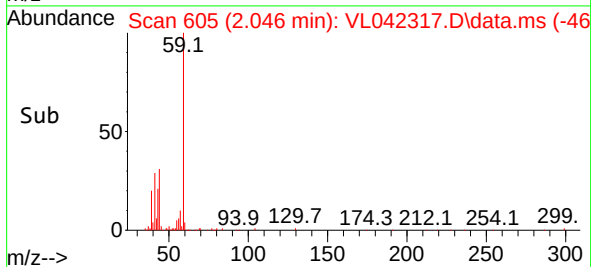
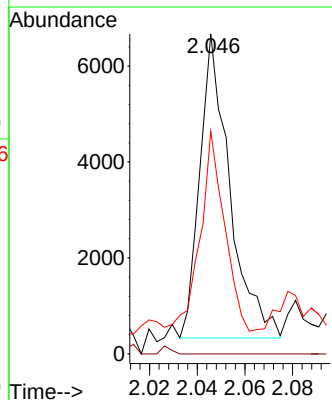
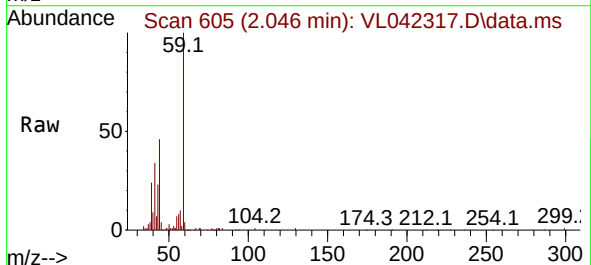
Ion	Ratio	Lower	Upper
84	100		
49	165.6	120.2	180.4
51	49.9	37.4	56.0
86	59.6	52.4	78.6

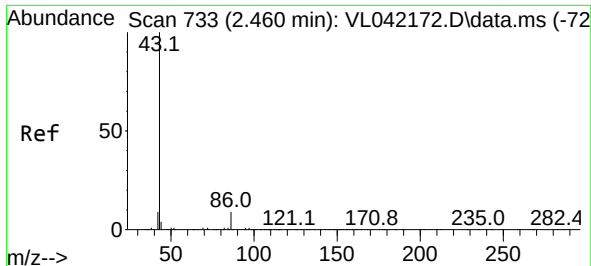


#21
Allyl Chloride
Concen: 0.313 ppbv
RT: 2.046 min Scan# 605
Delta R.T. -0.046 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

Tgt Ion: 41 Resp: 5543

Ion	Ratio	Lower	Upper
41	100		
76	22.6	24.1	36.1#
39	0.0	61.1	91.7#

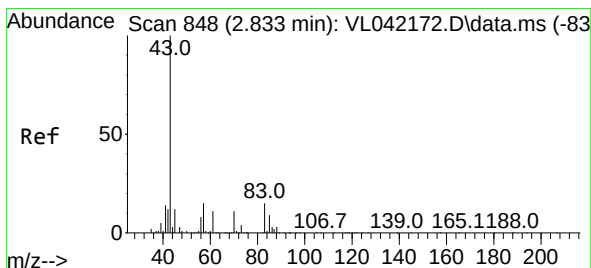
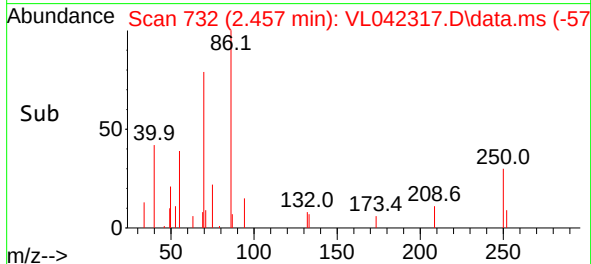
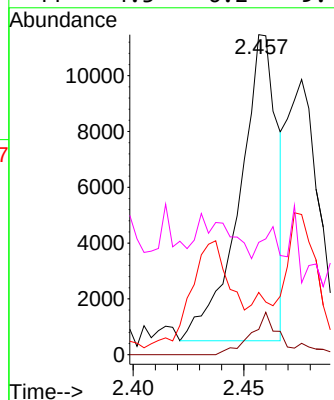
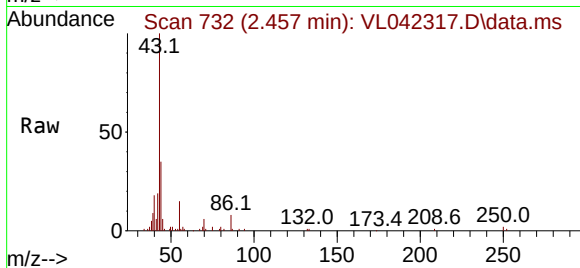




#23
Vinyl Acetate
Concen: 1.204 ppbv
RT: 2.457 min Scan# 71
Delta R.T. -0.004 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

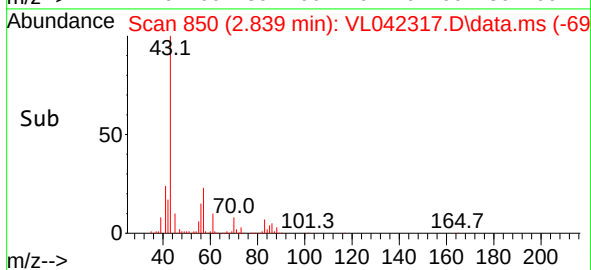
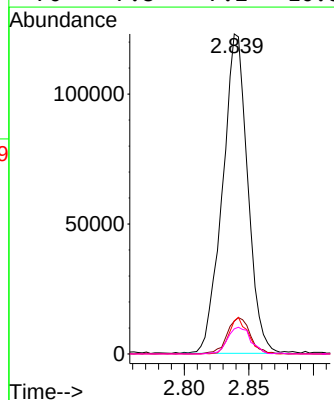
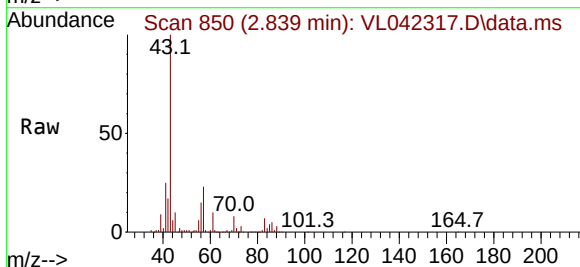
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-2-3242025

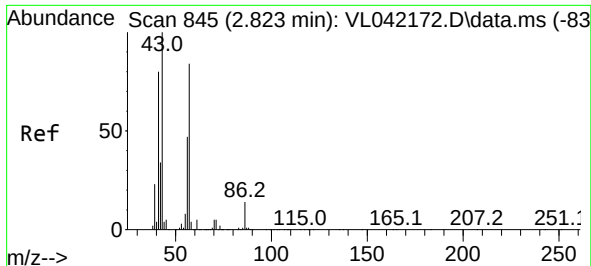
Tgt Ion:	43	Resp:	13063
Ion	Ratio	Lower	Upper
43	100		
86	8.3	5.5	8.3
42	10.8	8.6	13.0
44	4.3	6.2	9.4



#25
Ethyl Acetate
Concen: 2.563 ppbv
RT: 2.839 min Scan# 850
Delta R.T. 0.006 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

Tgt Ion:	43	Resp:	166820
Ion	Ratio	Lower	Upper
43	100		
45	10.6	8.2	12.2
61	8.9	7.3	10.9
70	7.8	7.2	10.8

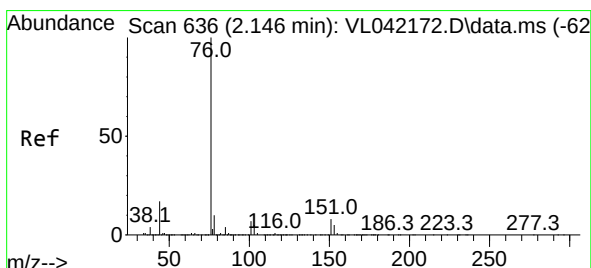
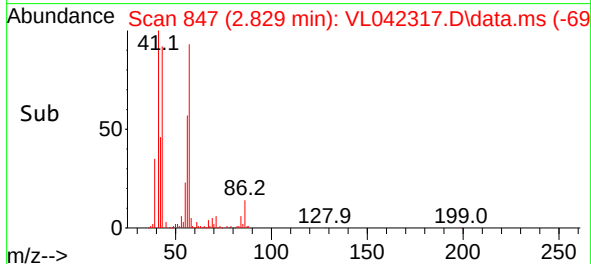
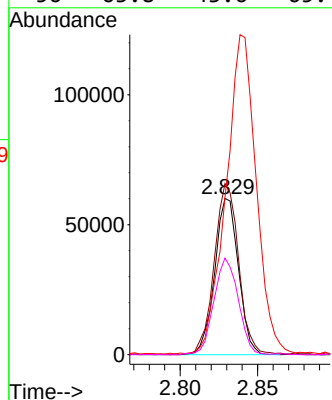
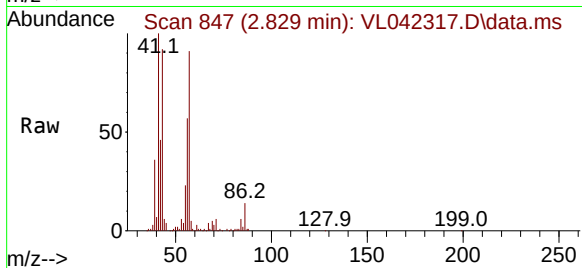




#26
Hexane
Concen: 2.548 ppbv
RT: 2.829 min Scan# 845
Delta R.T. 0.006 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

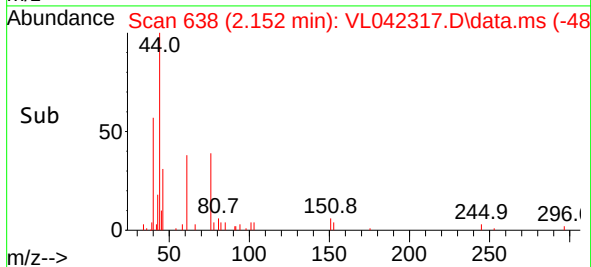
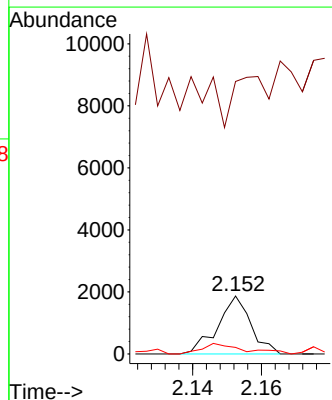
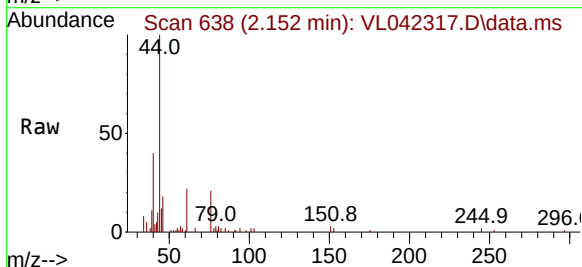
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-2-3242025

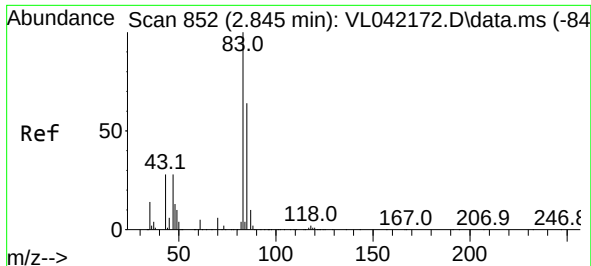
Tgt Ion: 57 Resp: 64050
Ion Ratio Lower Upper
57 100
41 113.9 76.6 114.8
43 263.8 207.8 311.8
56 63.8 43.6 65.4



#27
Carbon Disulfide
Concen: 0.046 ppbv
RT: 2.152 min Scan# 638
Delta R.T. 0.006 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

Tgt Ion: 76 Resp: 1240
Ion Ratio Lower Upper
76 100
44 0.0 14.7 22.1#
78 27.7 9.3 13.9#





#29

Chloroform

Concen: 1.362 ppbv

RT: 2.855 min Scan# 855

Delta R.T. 0.009 min

Lab File: VL042317.D

Acq: 11 Apr 2025 13:15

Instrument :

MSVOA_L

ClientSampleId :

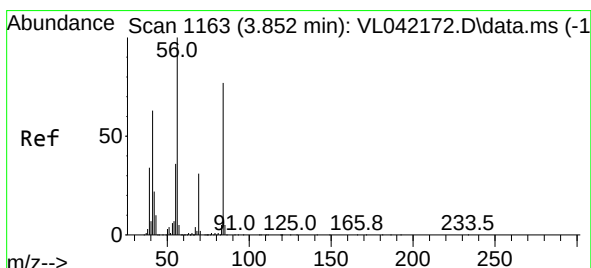
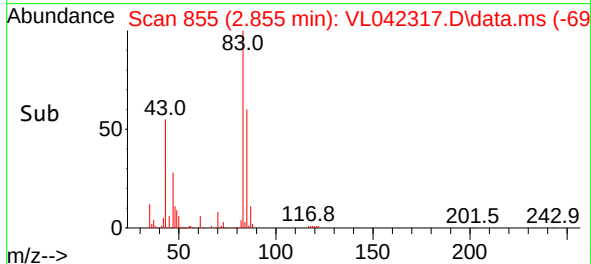
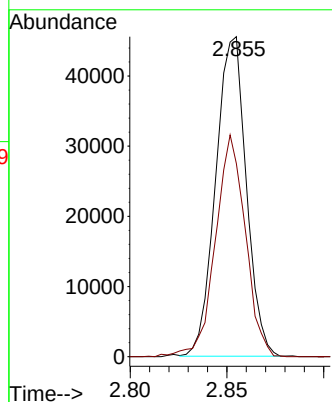
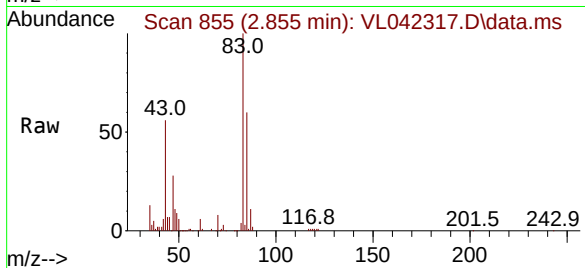
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Tgt Ion: 83 Resp: 50104

Ion Ratio Lower Upper

83 100

85 60.2 51.4 77.2



#30

Cyclohexane

Concen: 0.039 ppbv

RT: 3.855 min Scan# 1164

Delta R.T. 0.003 min

Lab File: VL042317.D

Acq: 11 Apr 2025 13:15

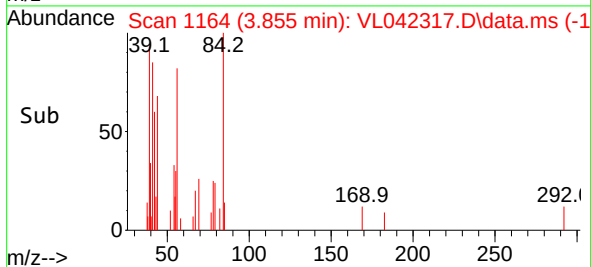
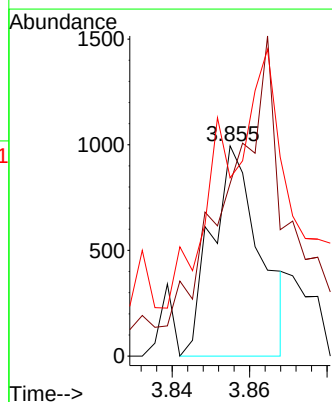
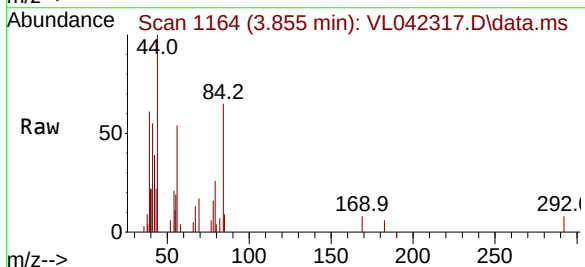
Tgt Ion: 84 Resp: 856

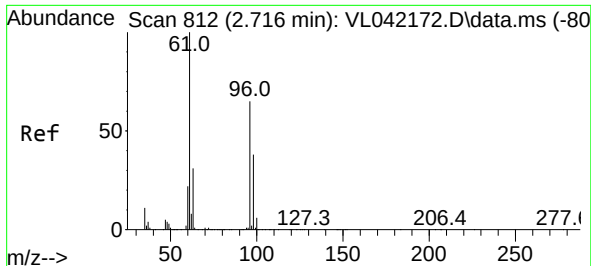
Ion Ratio Lower Upper

84 100

56 233.3 102.8 154.2#

41 244.7 66.5 99.7#

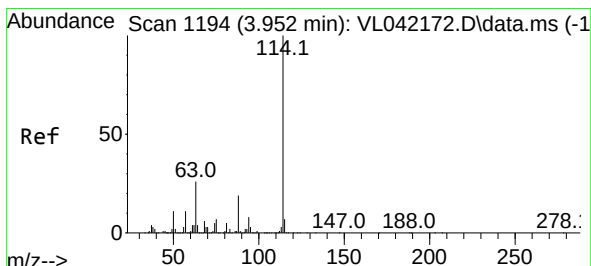
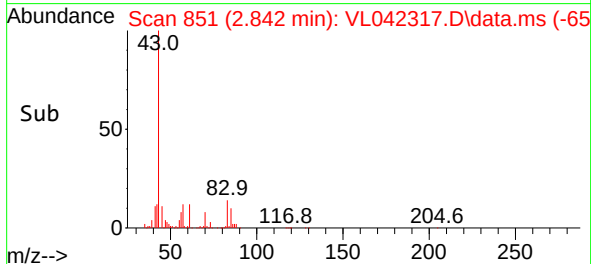
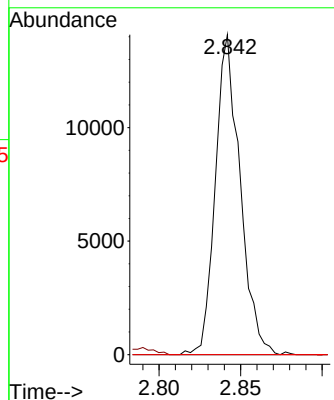
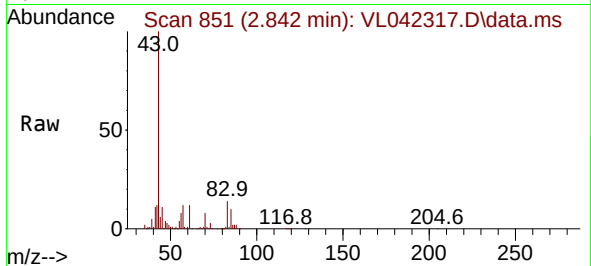




#31
cis-1,2-Dichloroethene
Concen: 0.580 ppbv
RT: 2.842 min Scan# 812
Delta R.T. 0.126 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

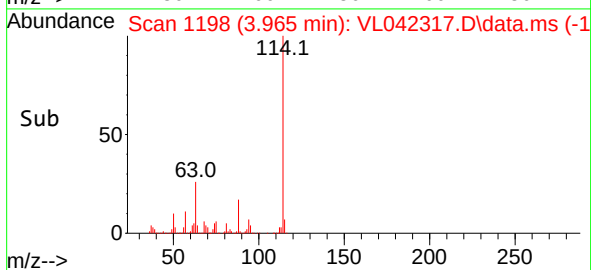
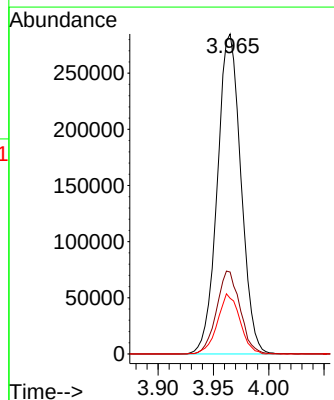
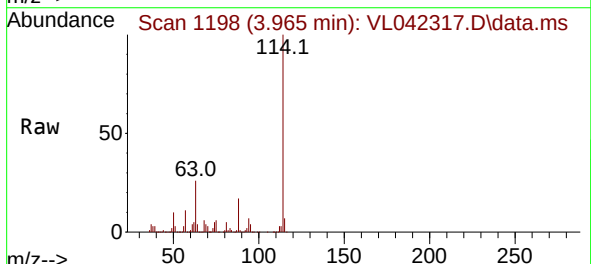
Instrument :
MSVOA_L
ClientSampleId :
LA-B10-2-3242025

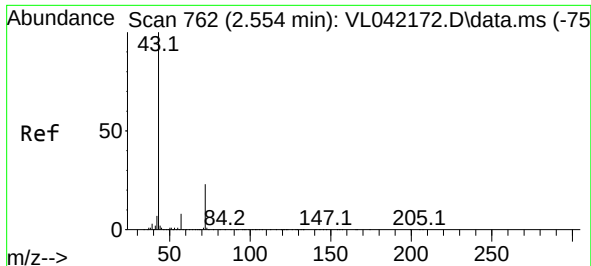
Tgt Ion: 61 Resp: 14803
Ion Ratio Lower Upper
61 100
96 0.0 51.8 77.8#
98 0.0 30.6 46.0#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 1198
Delta R.T. 0.013 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

Tgt Ion: 114 Resp: 422807
Ion Ratio Lower Upper
114 100
63 25.8 20.7 31.1
88 17.9 15.0 22.4

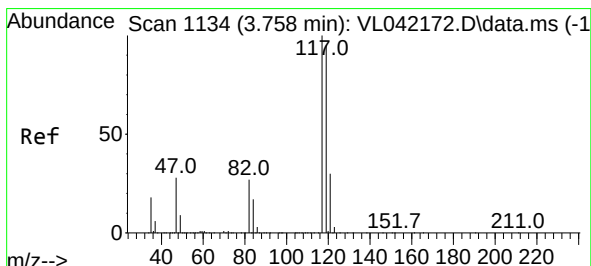
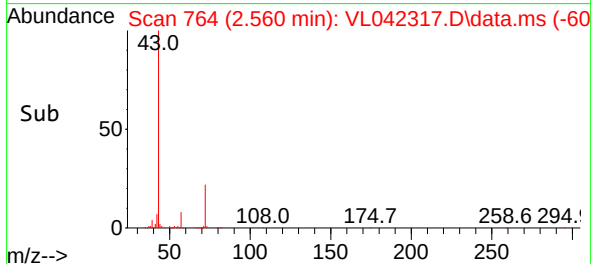
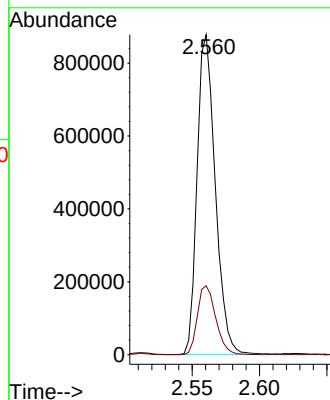
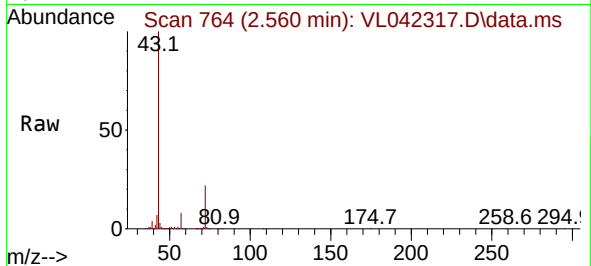




#34
2-Butanone
Concen: 26.834 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.006 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

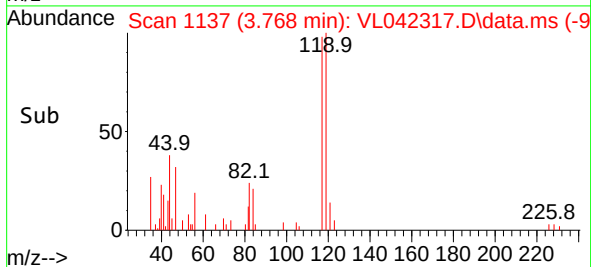
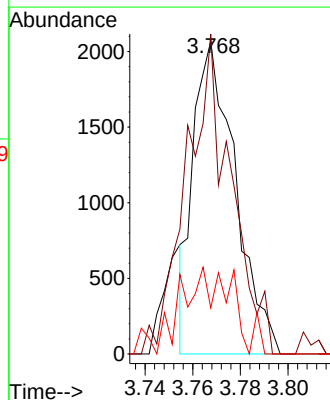
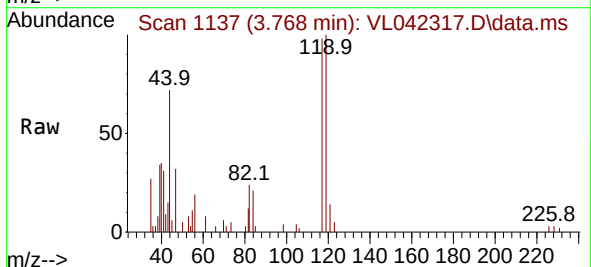
Instrument :
MSVOA_L
ClientSampleId :
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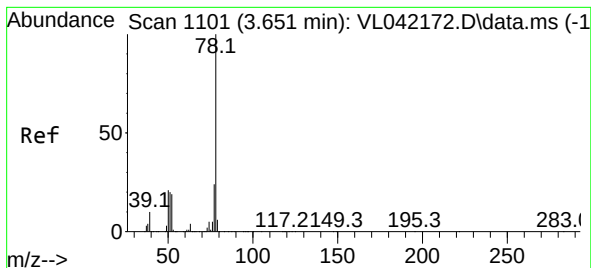
Tgt Ion: 43 Resp: 822701
Ion Ratio Lower Upper
43 100
72 21.9 18.2 27.2



#35
Carbon Tetrachloride
Concen: 0.076 ppbv
RT: 3.768 min Scan# 1137
Delta R.T. 0.009 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

Tgt Ion: 117 Resp: 2524
Ion Ratio Lower Upper
117 100
119 102.2 76.2 114.2
121 14.7 24.2 36.4#





#36

Benzene

Concen: 0.598 ppbv

RT: 3.664 min Scan# 1105

Delta R.T. 0.013 min

Lab File: VL042317.D

Acq: 11 Apr 2025 13:15

Instrument :

MSVOA_L

ClientSampleId :

IA-B10-2-3242025

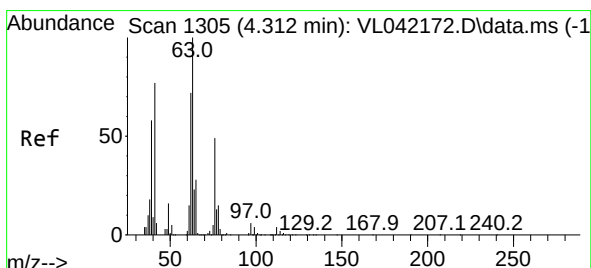
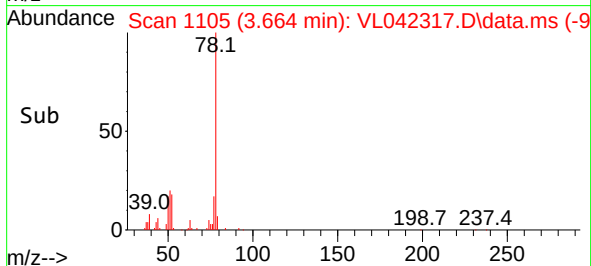
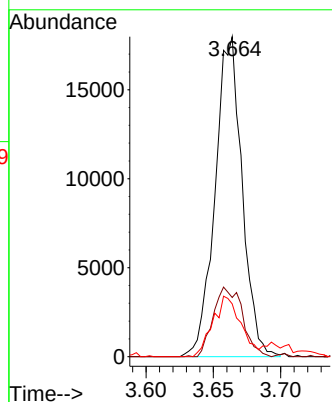
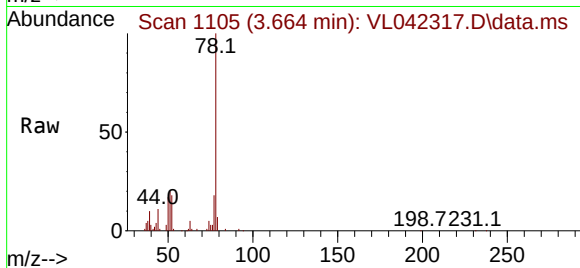
Tgt Ion: 78 Resp: 25066

Ion Ratio Lower Upper

78 100

77 18.5 19.1 28.7#

50 16.5 16.6 24.8#



#39

1,2-Dichloropropane

Concen: 7.114 ppbv

RT: 3.962 min Scan# 1197

Delta R.T. -0.350 min

Lab File: VL042317.D

Acq: 11 Apr 2025 13:15

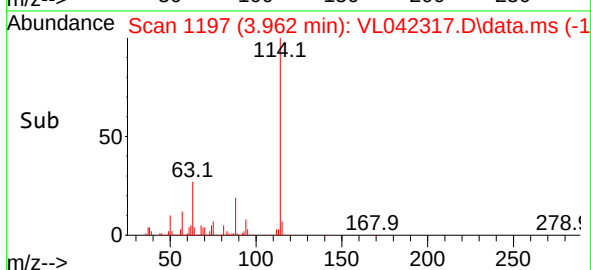
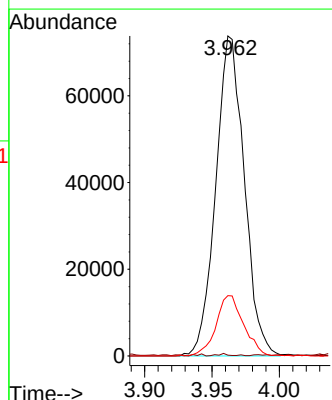
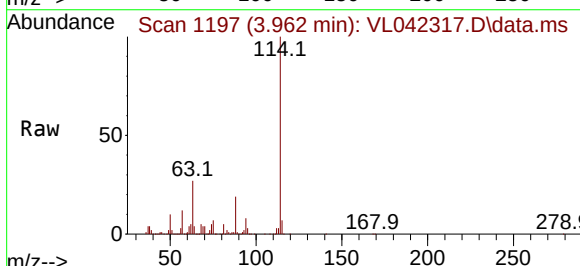
Tgt Ion: 63 Resp: 108598

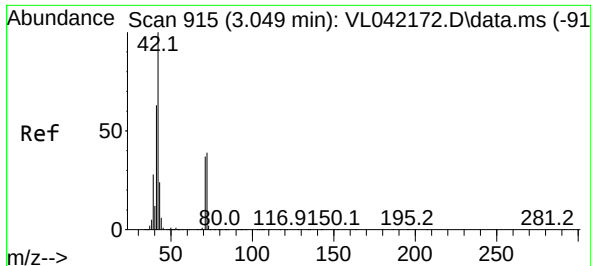
Ion Ratio Lower Upper

63 100

41 0.0 61.7 92.5#

62 18.5 57.6 86.4#

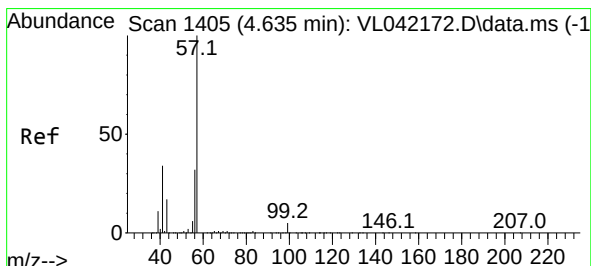
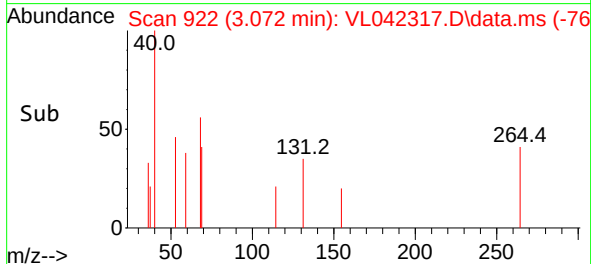
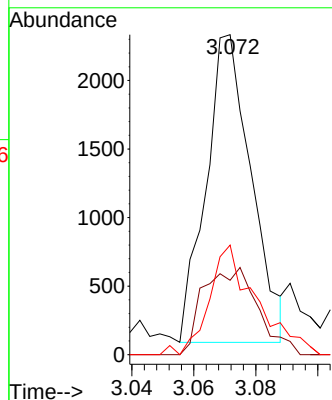
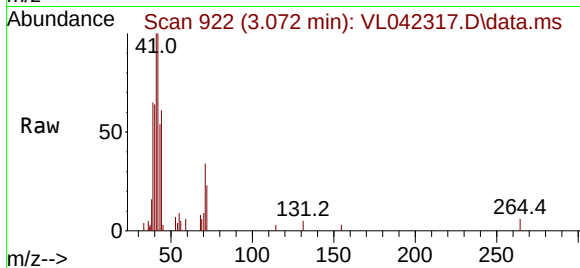




#41
Tetrahydrofuran
Concen: 0.129 ppbv
RT: 3.072 min Scan# 91
Delta R.T. 0.022 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

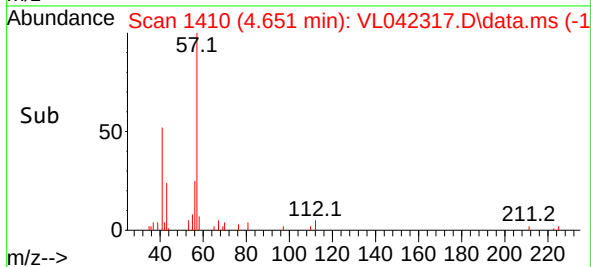
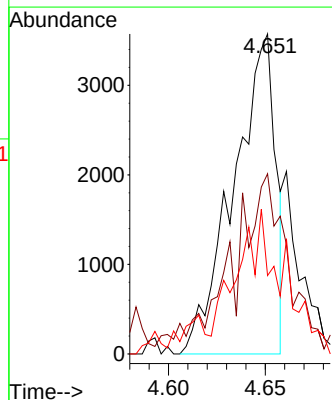
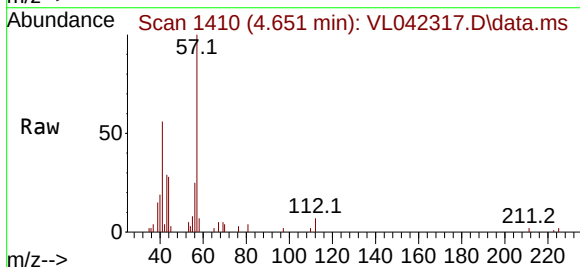
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-2-3242025

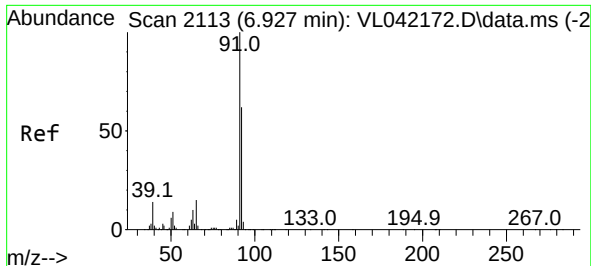
Tgt Ion: 42 Resp: 2277
Ion Ratio Lower Upper
42 100
72 0.0 31.4 47.0#
71 37.4 30.2 45.4



#44
2,2,4-Trimethylpentane
Concen: 0.076 ppbv
RT: 4.651 min Scan# 1410
Delta R.T. 0.016 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

Tgt Ion: 57 Resp: 5375
Ion Ratio Lower Upper
57 100
41 81.3 26.8 40.2#
56 59.6 25.6 38.4#

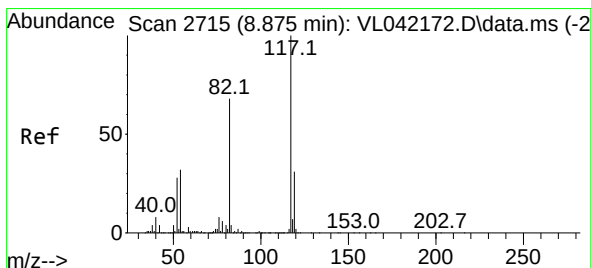
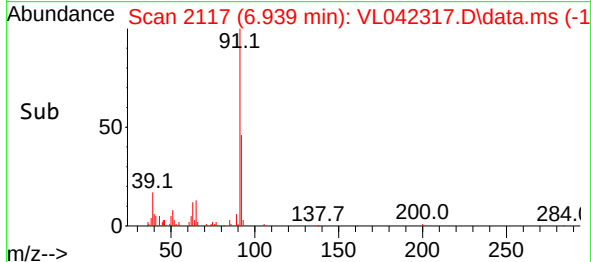
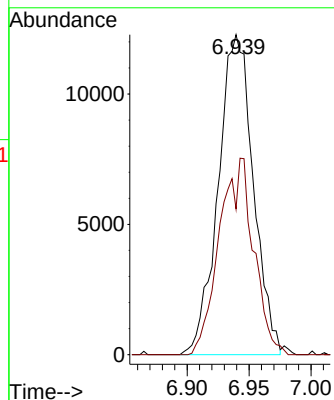
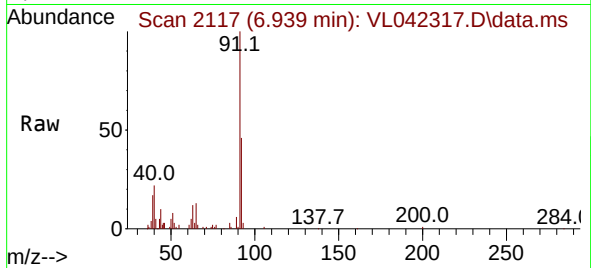




#53
Toluene
Concen: 0.488 ppbv
RT: 6.939 min Scan# 2113
Delta R.T. 0.013 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

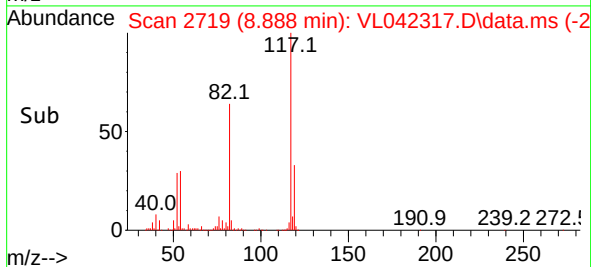
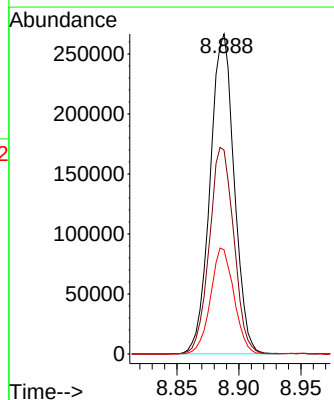
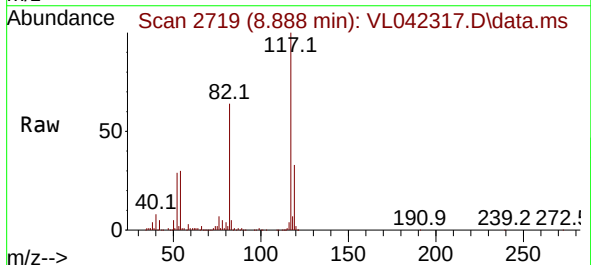
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-2-3242025

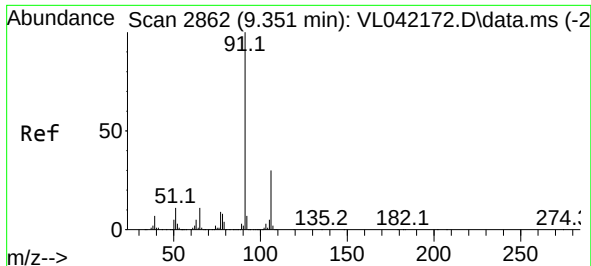
Tgt Ion: 91 Resp: 24232
Ion Ratio Lower Upper
91 100
92 60.1 48.4 72.6



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2719
Delta R.T. 0.013 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

Tgt Ion: 117 Resp: 360993
Ion Ratio Lower Upper
117 100
82 65.8 55.8 83.6
119 32.5 25.5 38.3

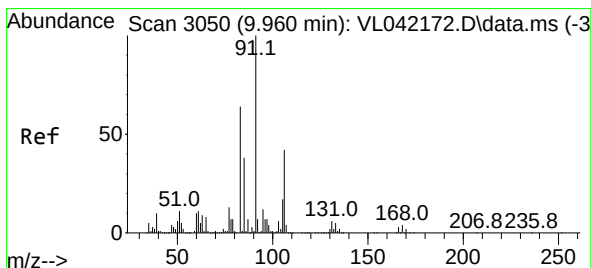
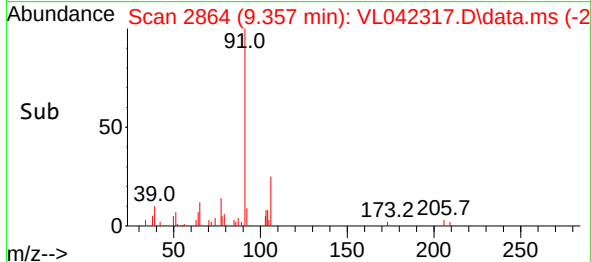
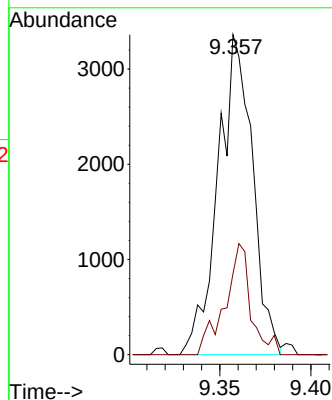
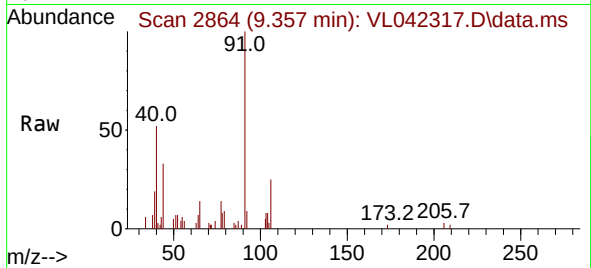




#58
Ethyl Benzene
Concen: 0.069 ppbv
RT: 9.357 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

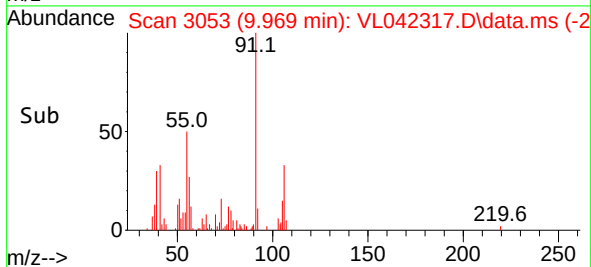
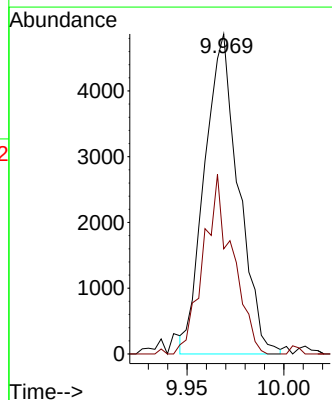
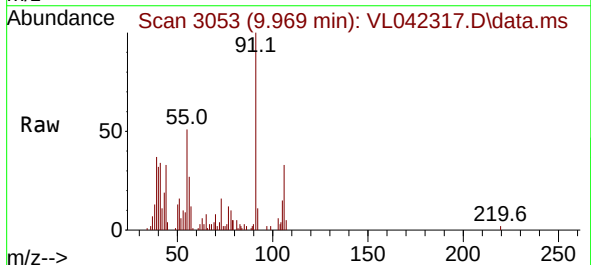
Instrument :
MSVOA_1
ClientSampleId :
IA-B10-2-3242025

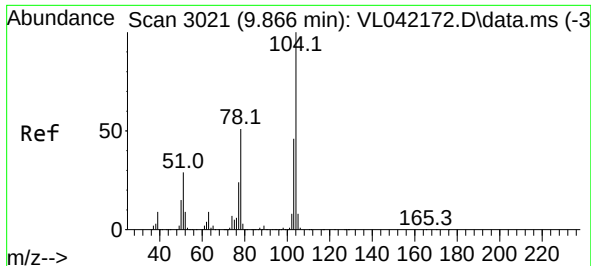
Tgt Ion: 91 Resp: 4399
Ion Ratio Lower Upper
91 100
106 25.4 24.2 36.2



#60
o-Xylene
Concen: 0.116 ppbv
RT: 9.969 min Scan# 3053
Delta R.T. 0.009 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

Tgt Ion: 91 Resp: 5940
Ion Ratio Lower Upper
91 100
106 48.4 20.8 62.5





#61

Styrene

Concen: 0.033 ppbv

RT: 9.878 min Scan# 3021

Delta R.T. 0.013 min

Lab File: VL042317.D

Acq: 11 Apr 2025 13:15

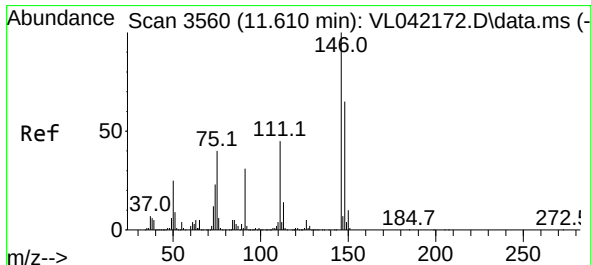
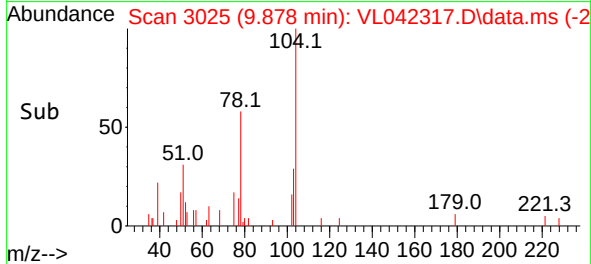
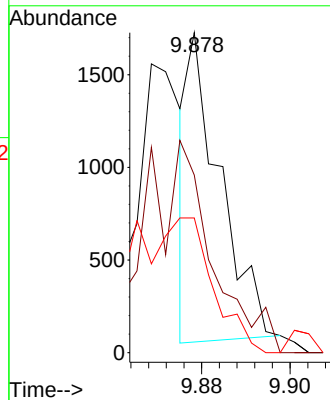
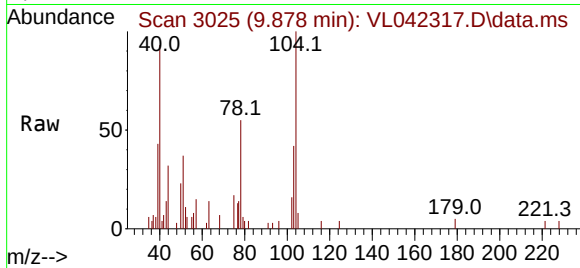
Instrument :

MSVOA_1

ClientSampleId :

IA-B10-2-3242025

Tgt Ion:	104	Resp:	838
Ion Ratio	Lower	Upper	
104	100		
78	157.9	41.8	62.6#
103	121.6	37.0	55.4#



#66

Benzyl Chloride

Concen: 0.147 ppbv

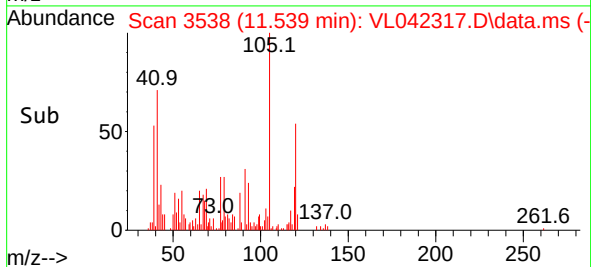
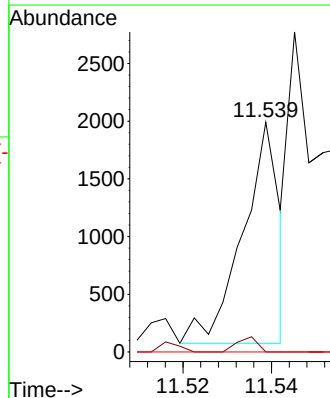
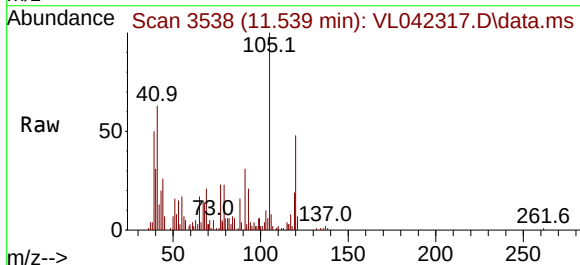
RT: 11.539 min Scan# 3538

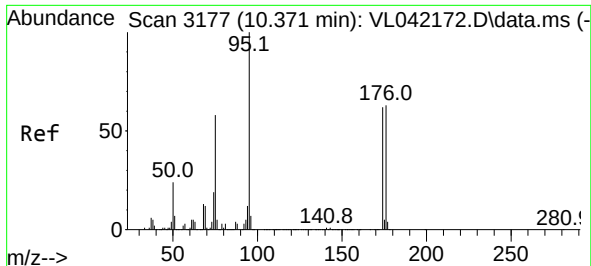
Delta R.T. -0.072 min

Lab File: VL042317.D

Acq: 11 Apr 2025 13:15

Tgt Ion:	91	Resp:	1109
Ion Ratio	Lower	Upper	
91	100		
126	0.0	13.8	20.6#
128	5.2	4.5	6.7

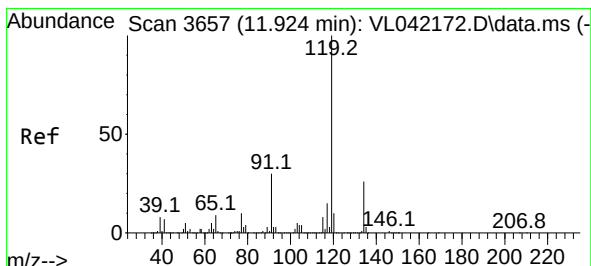
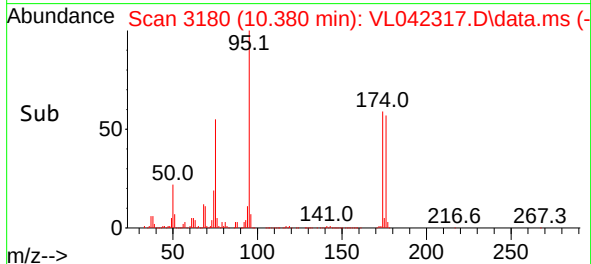
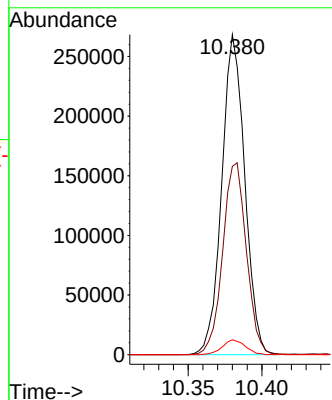
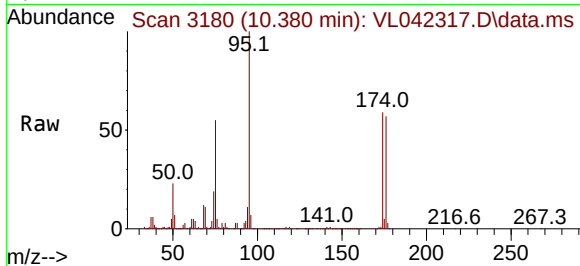




#68
1-Bromo-4-Fluorobenzene
Concen: 9.829 ppbv
RT: 10.380 min Scan# 3177
Delta R.T. 0.009 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

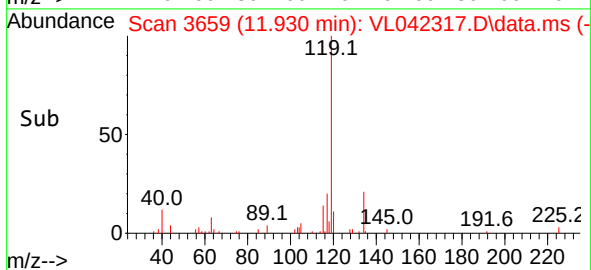
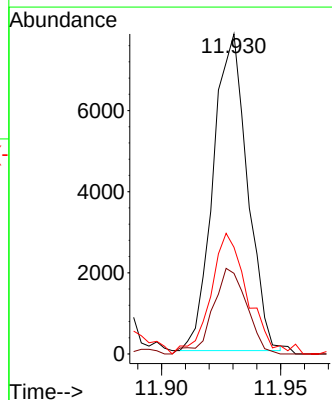
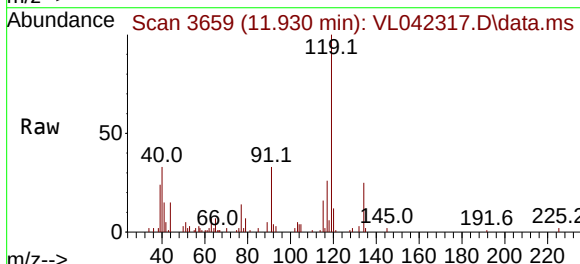
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-2-3242025

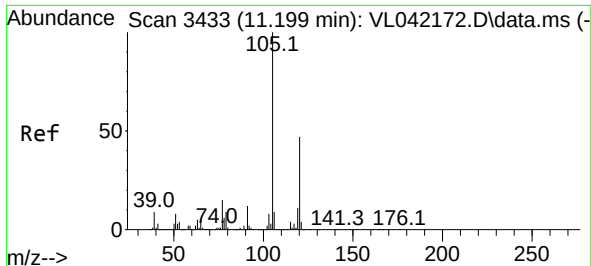
Tgt Ion: 95 Resp: 291371
Ion Ratio Lower Upper
95 100
174 62.0 50.6 76.0
175 4.7 3.8 5.6



#69
p-Isopropyltoluene
Concen: 0.092 ppbv
RT: 11.930 min Scan# 3659
Delta R.T. 0.006 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

Tgt Ion: 119 Resp: 7802
Ion Ratio Lower Upper
119 100
134 28.6 20.4 30.6
91 0.0 23.7 35.5#

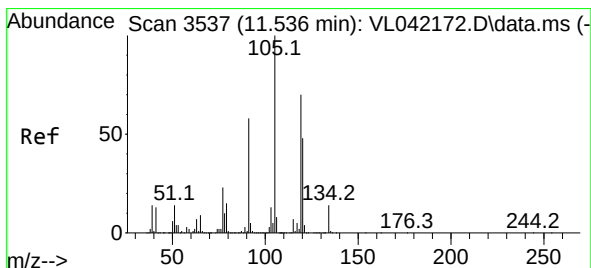
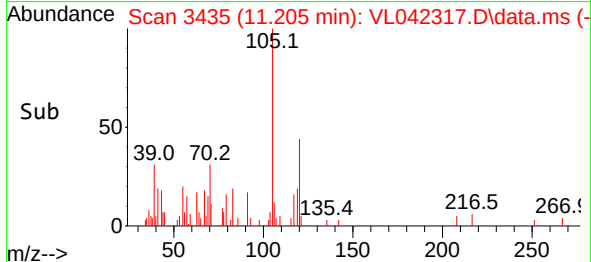
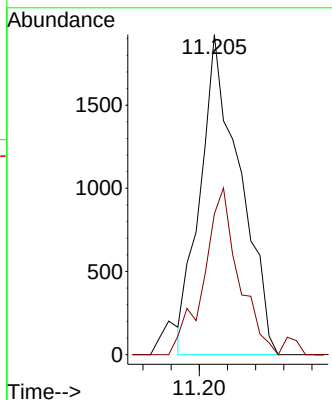
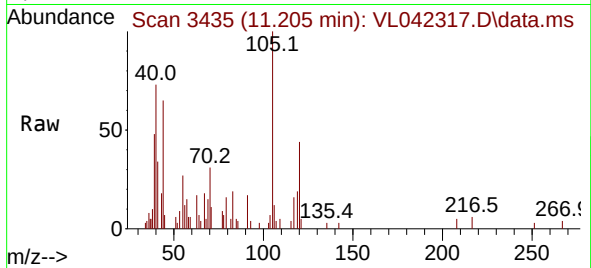




#73
 1,3,5-Trimethylbenzene
 Concen: 0.034 ppbv
 RT: 11.205 min Scan# 3435
 Delta R.T. 0.006 min
 Lab File: VL042317.D
 Acq: 11 Apr 2025 13:15

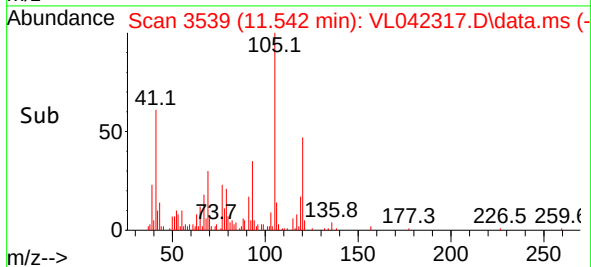
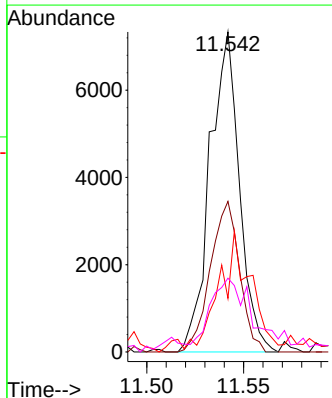
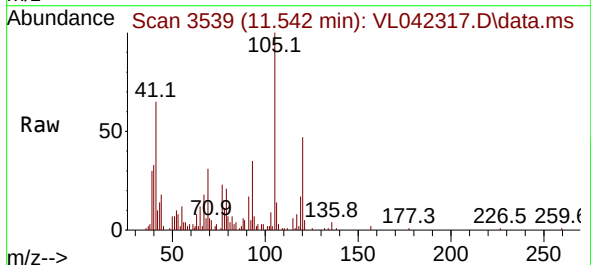
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B10-2-3242025

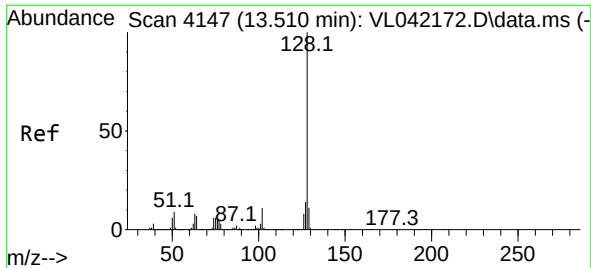
Tgt Ion:105 Resp: 1875
 Ion Ratio Lower Upper
 105 100
 120 44.0 37.4 56.0



#74
 1,2,4-Trimethylbenzene
 Concen: 0.121 ppbv
 RT: 11.542 min Scan# 3539
 Delta R.T. 0.006 min
 Lab File: VL042317.D
 Acq: 11 Apr 2025 13:15

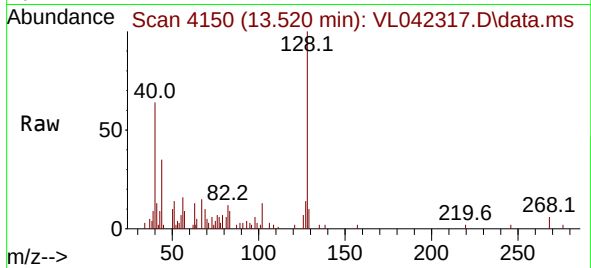
Tgt Ion:105 Resp: 7764
 Ion Ratio Lower Upper
 105 100
 120 47.1 38.6 58.0
 91 14.6 46.2 69.2#
 77 19.3 18.6 27.8



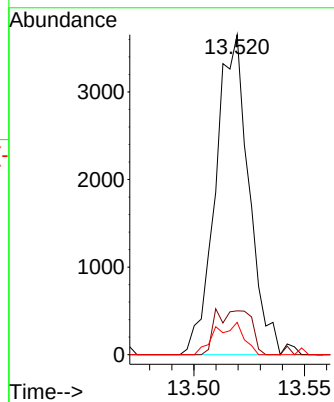
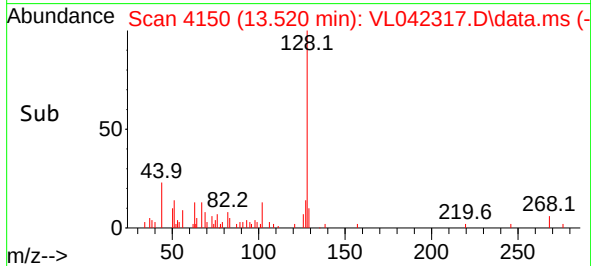


#79
Naphthalene
Concen: 0.054 ppbv
RT: 13.520 min Scan# 41
Delta R.T. 0.009 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

Instrument :
MSVOA_L
ClientSampleId :
IA-B10-2-3242025



Tgt Ion:	128	Resp:	3811
Ion	Ratio	Lower	Upper
128	100		
127	13.7	10.8	16.2
129	10.1	9.0	13.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
 Data File : VL042319.D
 Acq On : 11 Apr 2025 14:27
 Operator : SY/MD
 Sample : Q1665-10
 Misc : 400mL/MSVOA_L
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B10-4-3242025

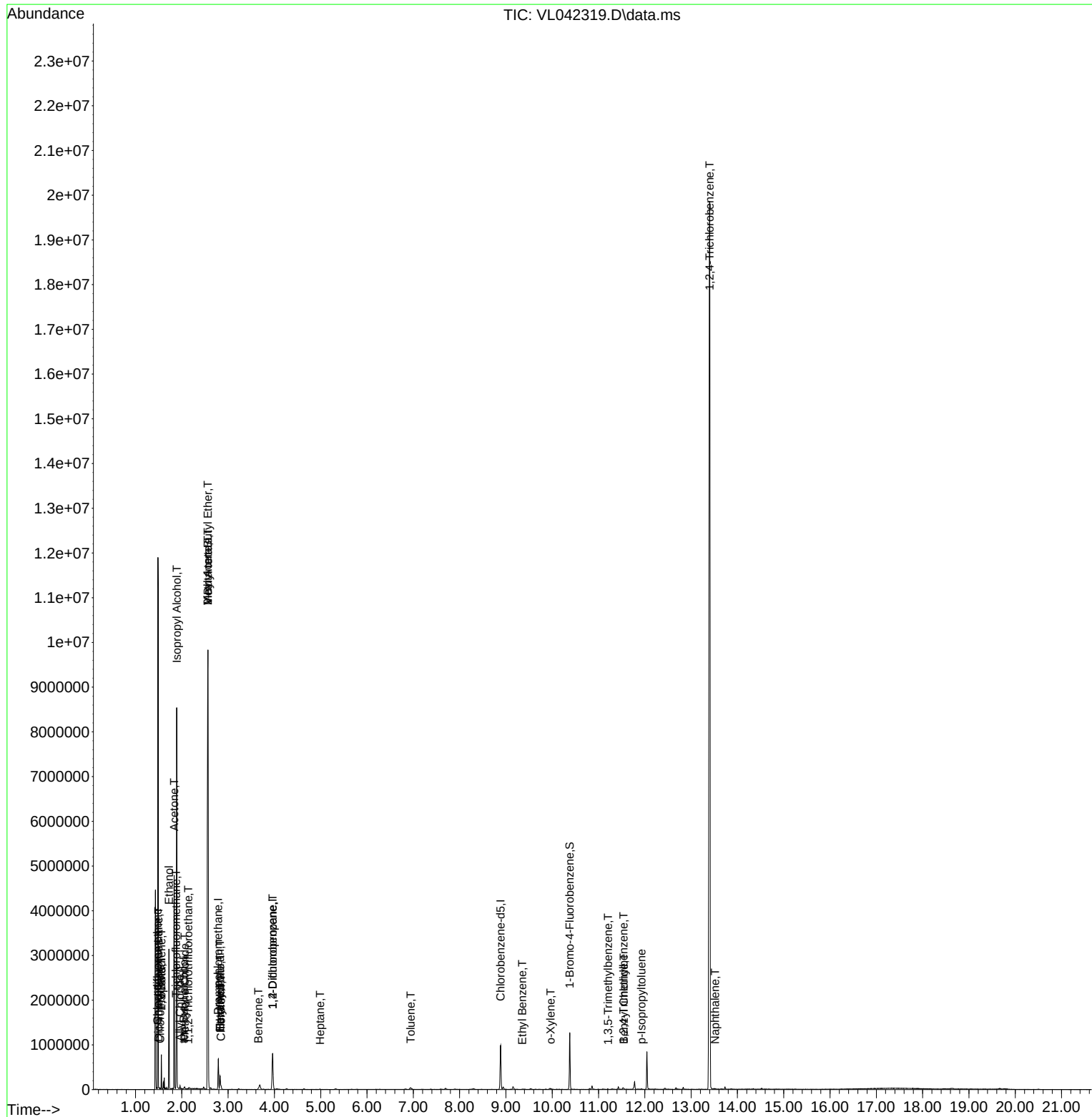
Quant Time: Apr 11 23:00:29 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 02:00:52 2025
 Response via : Initial Calibration

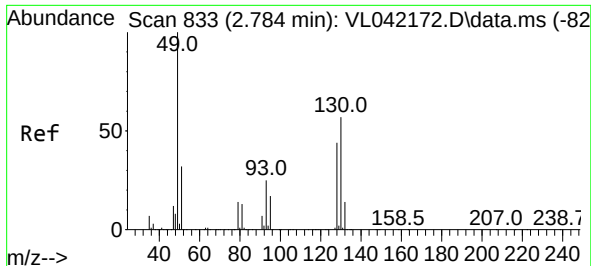
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.787	49	190778	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	461210	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	383940	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	301822	9.573	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.700%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	10940	0.388	ppbv	100
3) Chlorodifluoromethane	1.476	51	18717	0.650	ppbv #	84
4) Chloromethane	1.531	50	6976	0.606	ppbv	98
9) Propene	1.561	41	78643	5.962	ppbv	90
10) Heptane	4.985	43	2838	0.081	ppbv	98
11) Trichlorofluoromethane	1.878	101	5102	0.186	ppbv	87
12) 1,1,2-Trichlorotrifluo...	2.140	101	1629	0.072	ppbv	98
13) Ethanol	1.722	45	1088476	872.986	ppbv	86
15) Acetone	1.836	43	2047600	76.743	ppbv #	79
16) 1,3-Butadiene	1.561	39	34457	2.644	ppbv #	13
17) tert-Butyl alcohol	2.046	59	6995	0.210	ppbv #	37
19) Isopropyl Alcohol	1.891	45	3151010	209.311	ppbv #	32
20) Methylene Chloride	2.062	84	5890	0.593	ppbv	86
21) Allyl Chloride	1.962	41	8745	0.465	ppbv #	21
23) Vinyl Acetate	2.564	43	5516146	477.676	ppbv #	72
25) Ethyl Acetate	2.829	43	65016	0.939	ppbv #	89
26) Hexane	2.826	57	60038	2.245	ppbv #	4
28) Methyl tert-Butyl Ether	2.564	73	206262	12.386	ppbv #	1
29) Chloroform	2.849	83	22740	0.581	ppbv	100
34) 2-Butanone	2.564	43	5516146	164.939	ppbv #	36
36) Benzene	3.655	78	21386	0.468	ppbv #	93
39) 1,2-Dichloropropane	3.962	63	118114	7.093	ppbv #	24
41) Tetrahydrofuran	2.826	42	29308	1.522	ppbv #	49
53) Toluene	6.946	91	6234	0.115	ppbv #	20
58) Ethyl Benzene	9.354	91	3931	0.058	ppbv	95
60) o-Xylene	9.966	91	4483	0.082	ppbv	93
66) Benzyl Chloride	11.546	91	609	0.076	ppbv #	69
69) p-Isopropyltoluene	11.927	119	3908	0.043	ppbv #	87
73) 1,3,5-Trimethylbenzene	11.206	105	2285	0.038	ppbv	89
74) 1,2,4-Trimethylbenzene	11.539	105	7147	0.105	ppbv #	67
79) Naphthalene	13.517	128	5078	0.068	ppbv #	94
81) 1,2,4-Trichlorobenzene	13.400	180	82529	2.392	ppbv #	19

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

Instrument :
MSVOA_L
ClientSampleId :
IA-B10-4-3242025

Quant Time: Apr 11 23:00:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

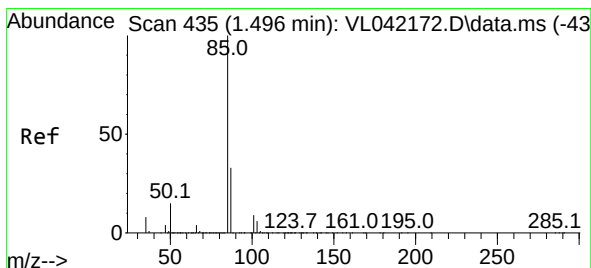
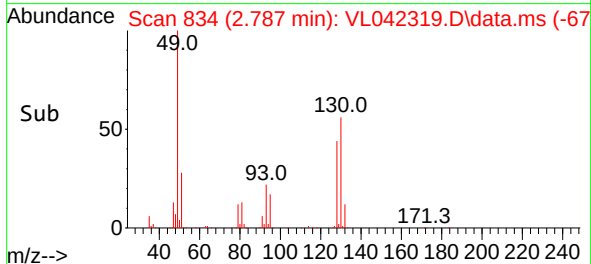
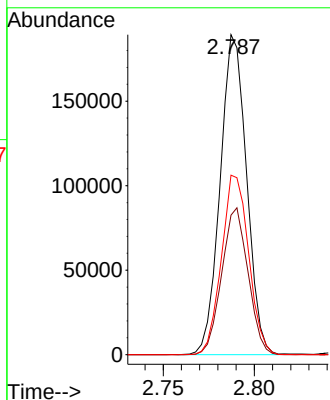
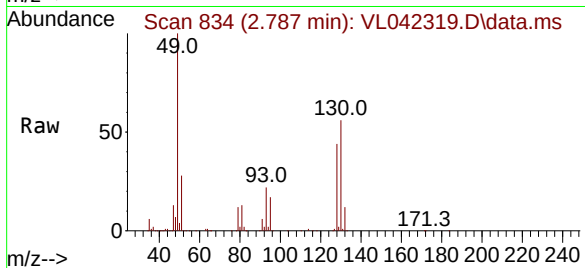




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

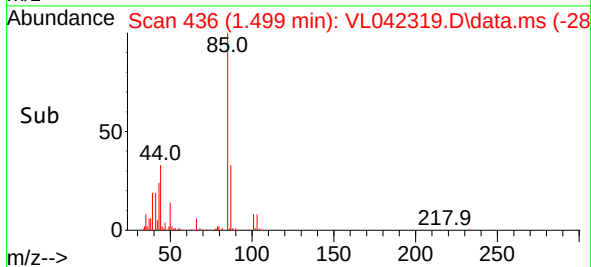
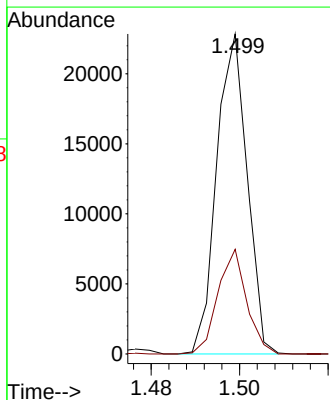
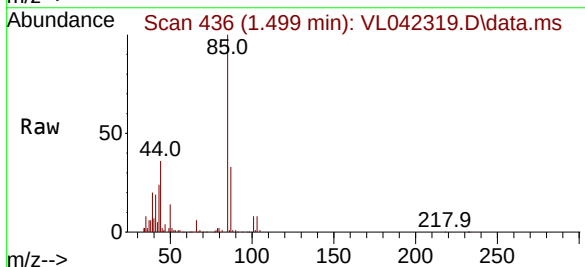
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-4-3242025

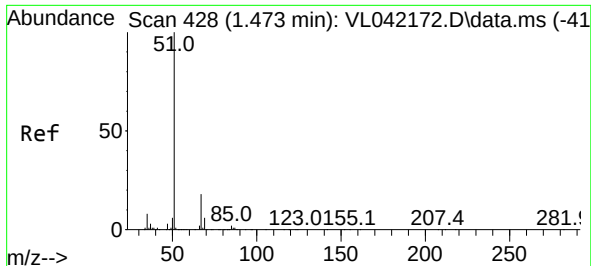
Tgt Ion: 49 Resp: 190778
Ion Ratio Lower Upper
49 100
128 45.7 22.9 68.5
130 57.8 28.8 86.4



#2
Dichlorodifluoromethane
Concen: 0.388 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

Tgt Ion: 85 Resp: 10940
Ion Ratio Lower Upper
85 100
87 32.7 26.1 39.1

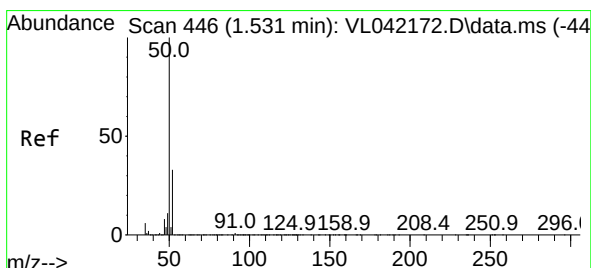
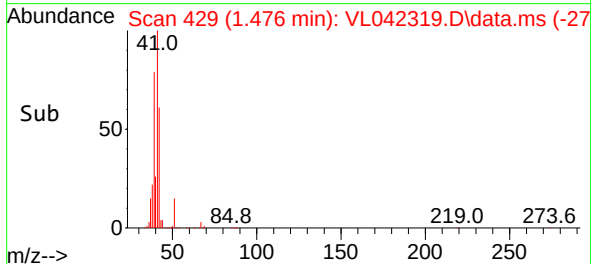
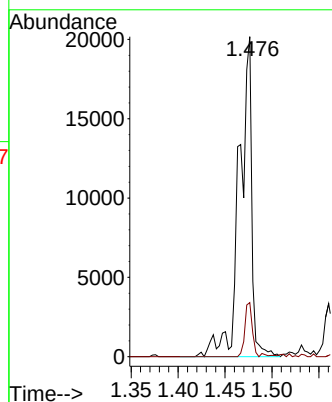
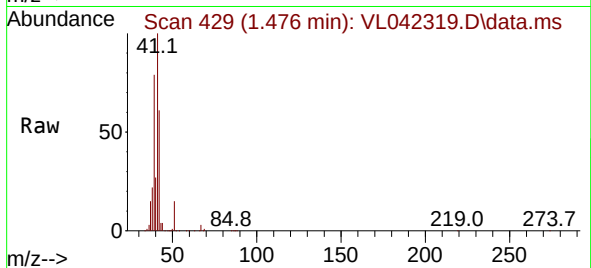




#3
Chlorodifluoromethane
Concen: 0.650 ppbv
RT: 1.476 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

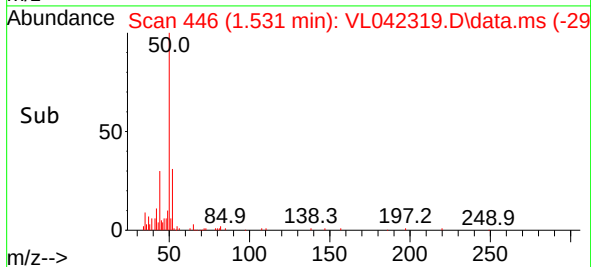
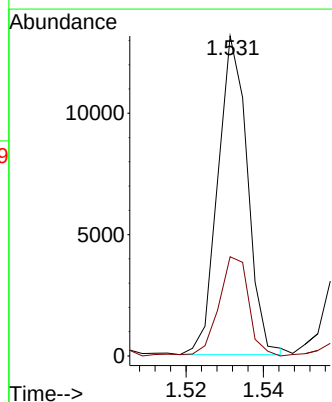
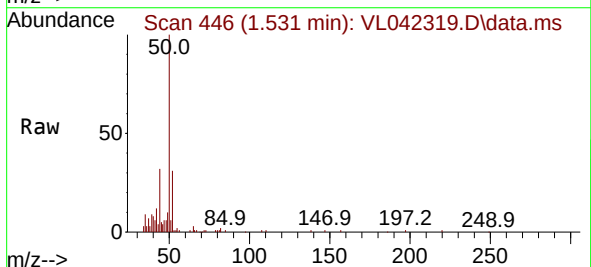
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-4-3242025

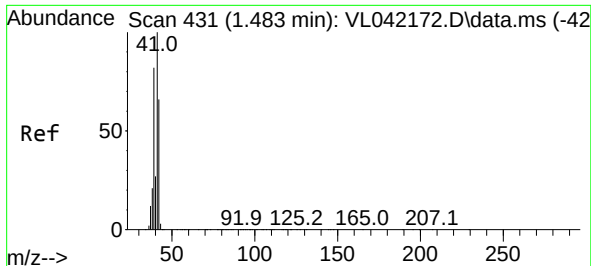
Tgt Ion: 51 Resp: 18717
Ion Ratio Lower Upper
51 100
67 11.4 15.0 22.6#



#4
Chloromethane
Concen: 0.606 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

Tgt Ion: 50 Resp: 6976
Ion Ratio Lower Upper
50 100
52 31.5 26.1 39.1

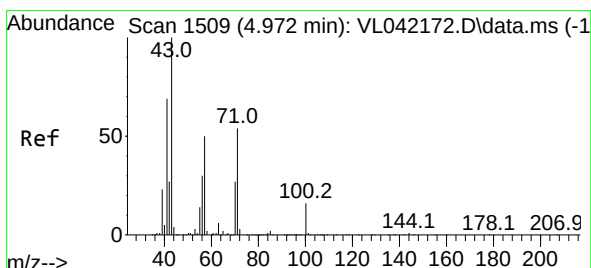
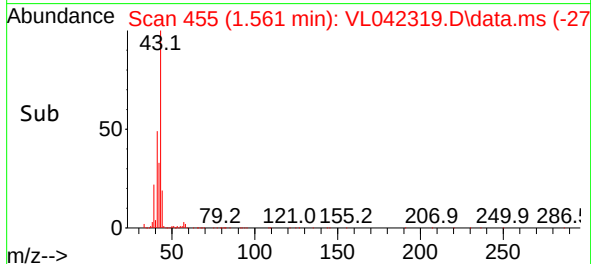
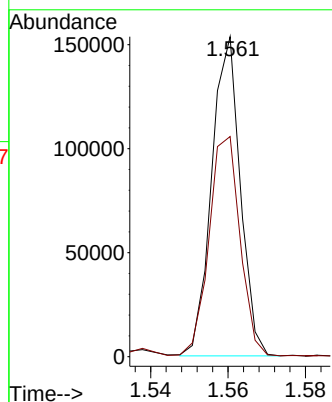
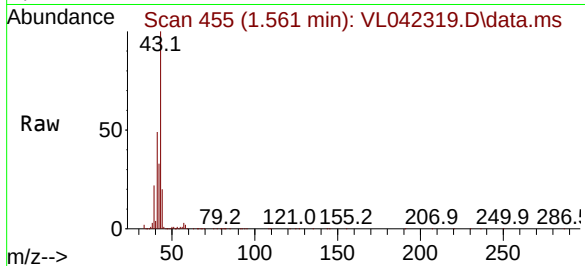




#9
Propene
Concen: 5.962 ppbv
RT: 1.561 min Scan# 41
Delta R.T. 0.078 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

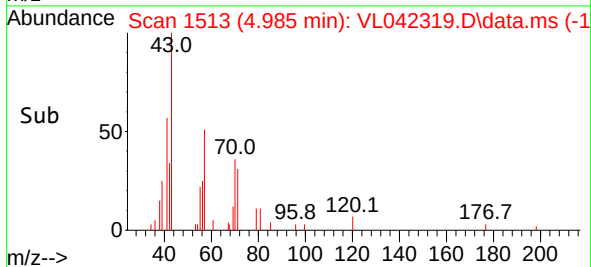
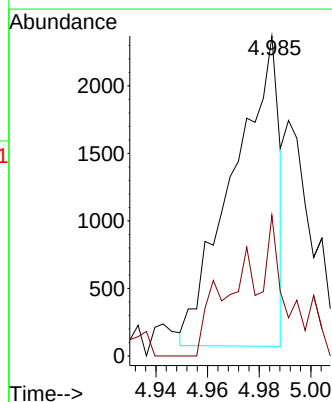
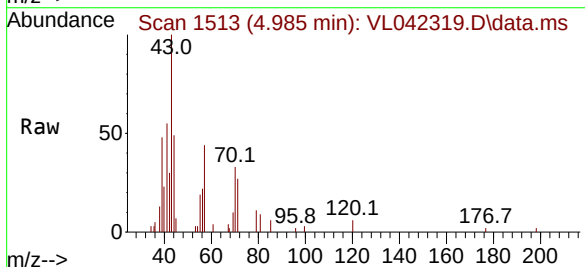
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-4-3242025

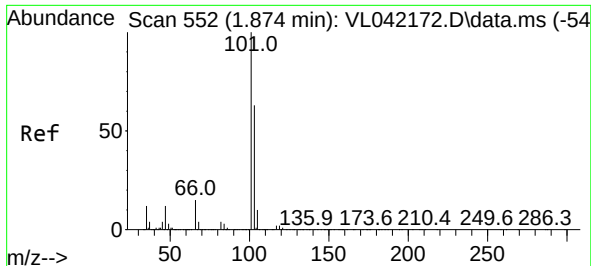
Tgt Ion: 41 Resp: 78643
Ion Ratio Lower Upper
41 100
42 77.3 55.4 83.2



#10
Heptane
Concen: 0.081 ppbv
RT: 4.985 min Scan# 1513
Delta R.T. 0.013 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

Tgt Ion: 43 Resp: 2838
Ion Ratio Lower Upper
43 100
57 48.2 39.4 59.2

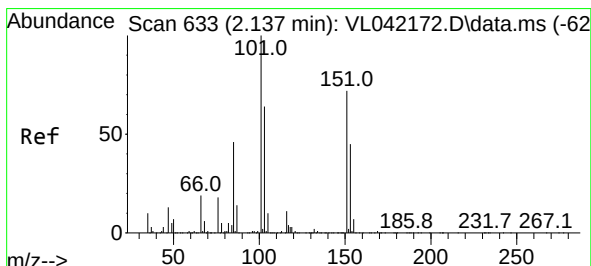
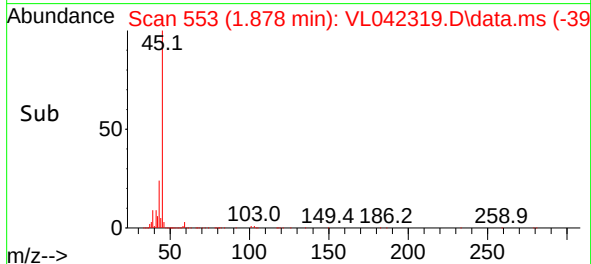
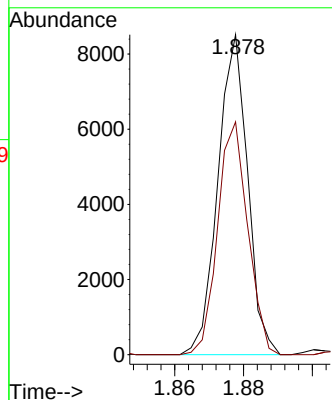
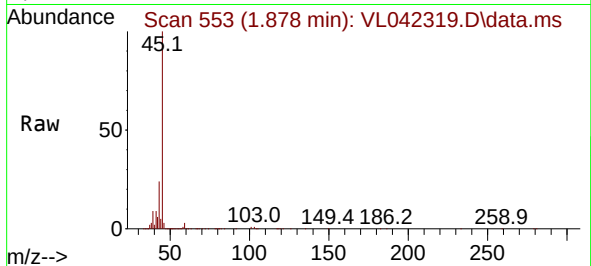




#11
Trichlorofluoromethane
Concen: 0.186 ppbv
RT: 1.878 min Scan# 511
Delta R.T. 0.003 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

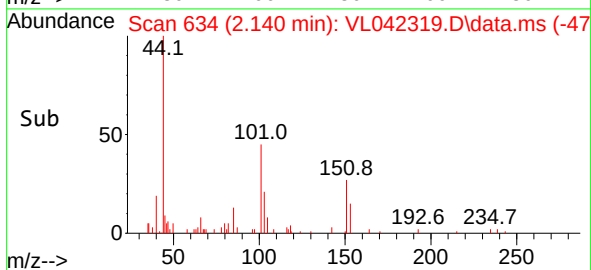
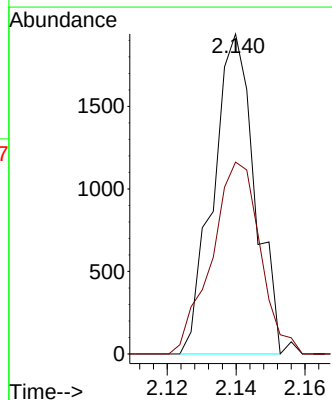
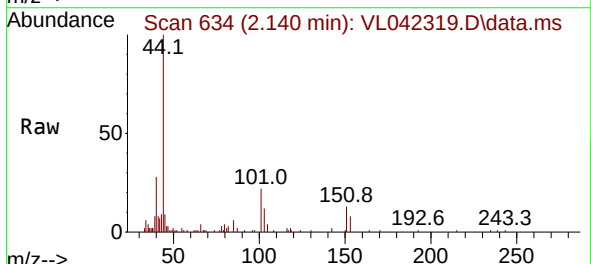
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-4-3242025

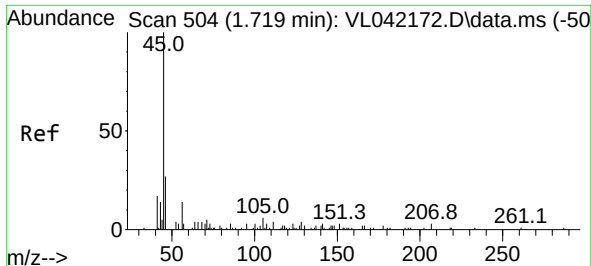
Tgt Ion:101 Resp: 5102
Ion Ratio Lower Upper
101 100
103 72.7 50.2 75.2



#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.072 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.003 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

Tgt Ion:101 Resp: 1629
Ion Ratio Lower Upper
101 100
151 70.0 57.1 85.7

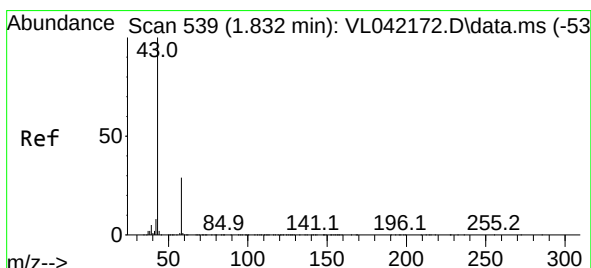
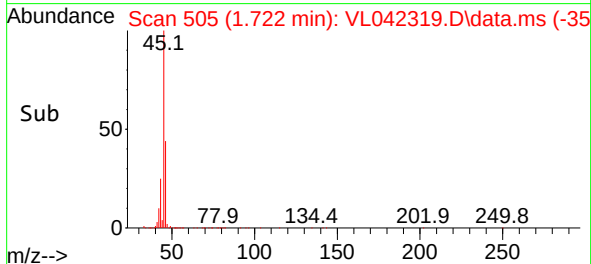
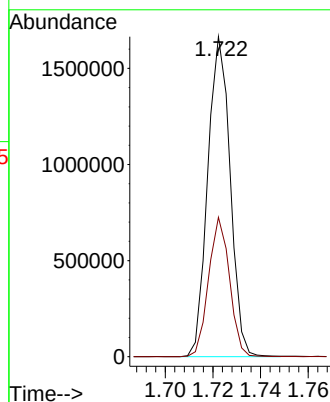
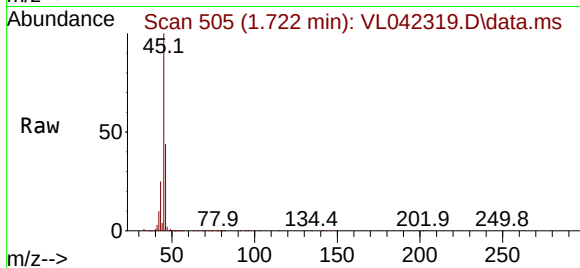




#13
Ethanol
Concen: 872.986 ppbv
RT: 1.722 min Scan# 50
Delta R.T. 0.003 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

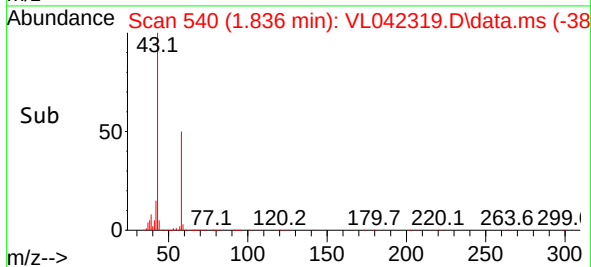
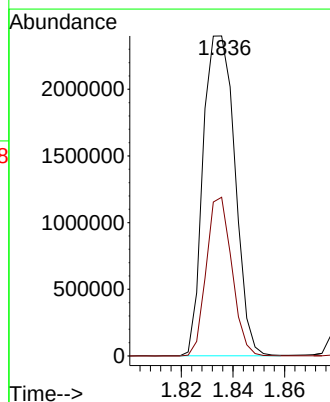
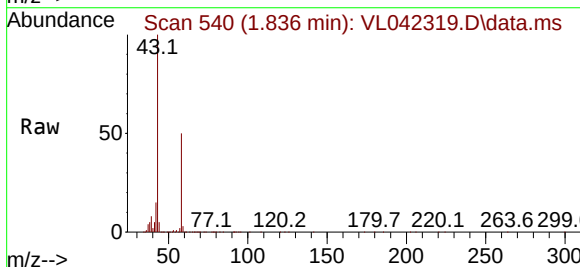
Instrument :
MSVOA_1
ClientSampleId :
IA-B10-4-3242025

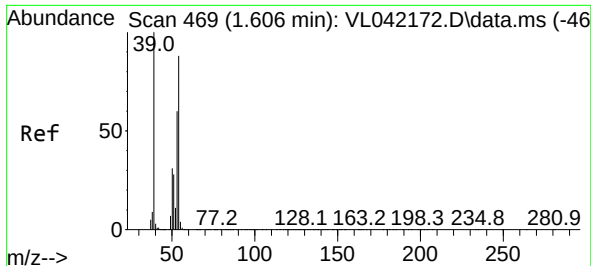
Tgt Ion: 45 Resp: 1088476
Ion Ratio Lower Upper
45 100
46 40.7 20.2 80.8



#15
Acetone
Concen: 76.743 ppbv
RT: 1.836 min Scan# 540
Delta R.T. 0.003 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

Tgt Ion: 43 Resp: 2047600
Ion Ratio Lower Upper
43 100
58 40.0 23.2 34.8#

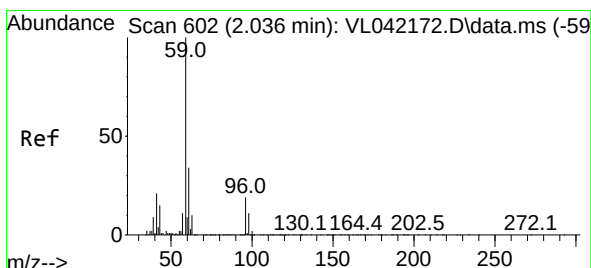
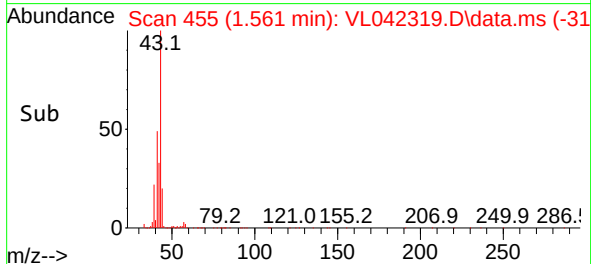
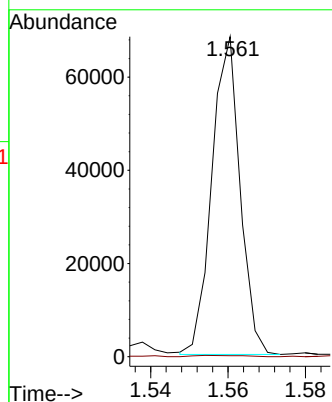
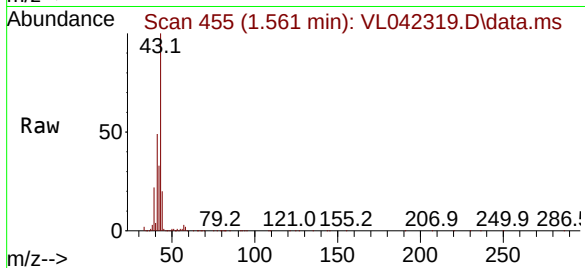




#16
1,3-Butadiene
Concen: 2.644 ppbv
RT: 1.561 min Scan# 411
Delta R.T. -0.045 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

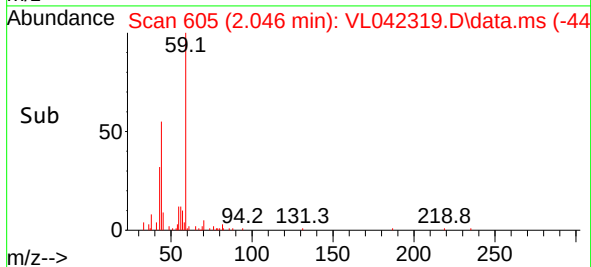
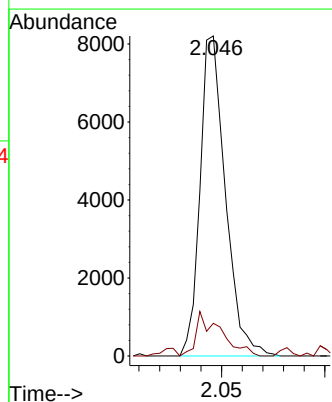
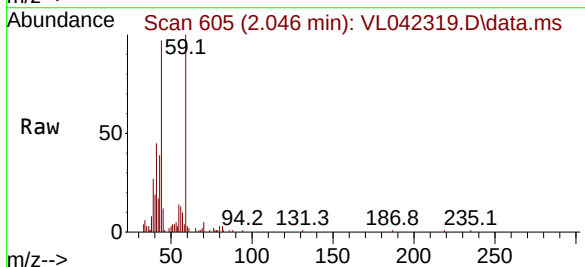
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-4-3242025

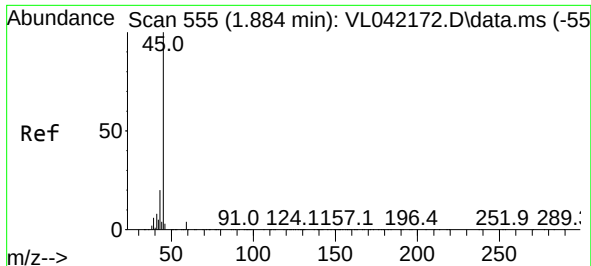
Tgt Ion: 39 Resp: 34457
Ion Ratio Lower Upper
39 100
54 0.9 60.7 91.1#



#17
tert-Butyl alcohol
Concen: 0.210 ppbv
RT: 2.046 min Scan# 605
Delta R.T. 0.010 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

Tgt Ion: 59 Resp: 6995
Ion Ratio Lower Upper
59 100
57 35.0 8.9 13.3#

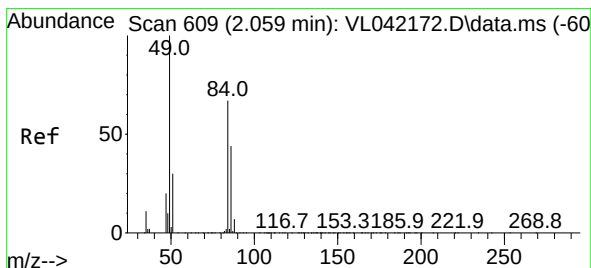
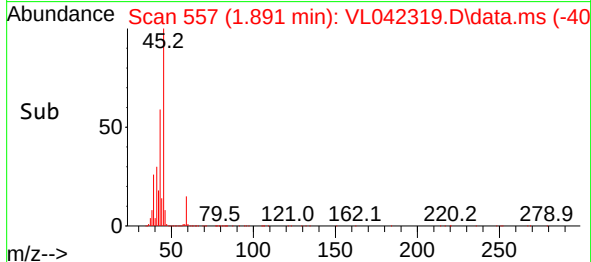
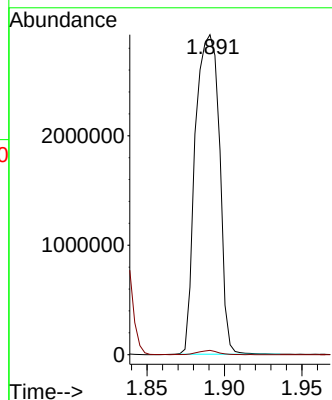
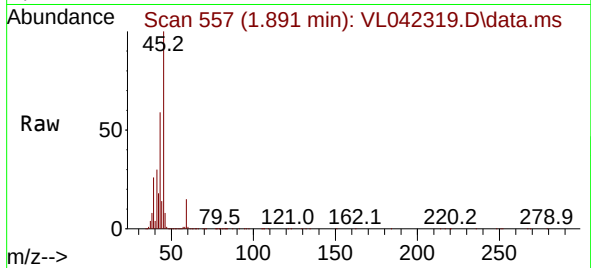




#19
Isopropyl Alcohol
Concen: 209.311 ppbv
RT: 1.891 min Scan# 51
Delta R.T. 0.006 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

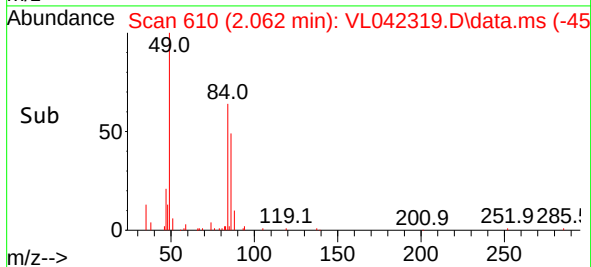
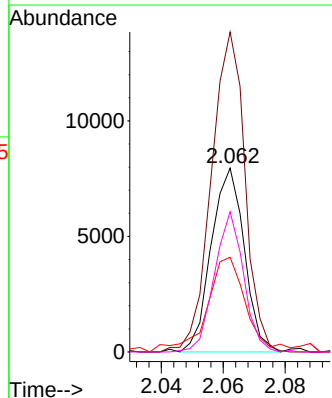
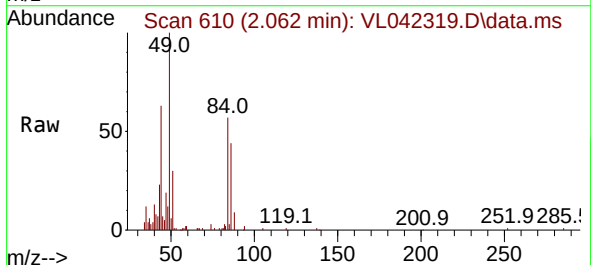
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-4-3242025

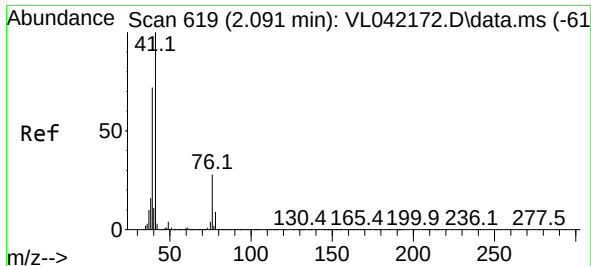
Tgt Ion: 45 Resp: 3151010
Ion Ratio Lower Upper
45 100
58 1.1 36.9 55.3#



#20
Methylene Chloride
Concen: 0.593 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

Tgt Ion: 84 Resp: 5890
Ion Ratio Lower Upper
84 100
49 173.3 120.2 180.4
51 47.2 37.4 56.0
86 76.2 52.4 78.6

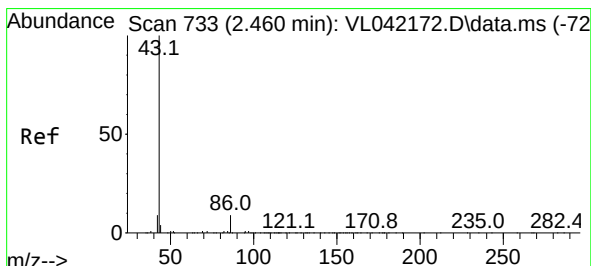
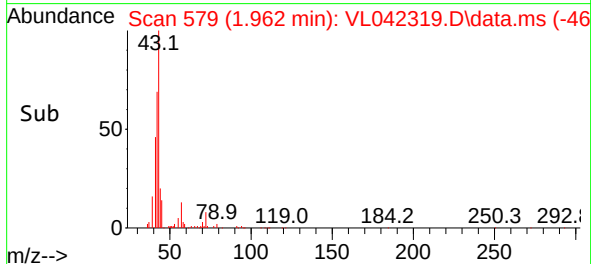
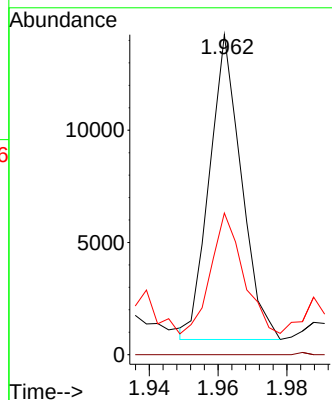
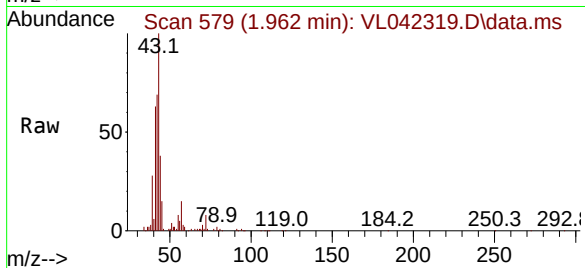




#21
 Allyl Chloride
 Concen: 0.465 ppbv
 RT: 1.962 min Scan# 51
 Delta R.T. -0.129 min
 Lab File: VL042319.D
 Acq: 11 Apr 2025 14:27

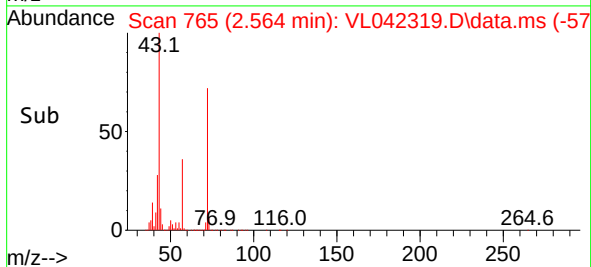
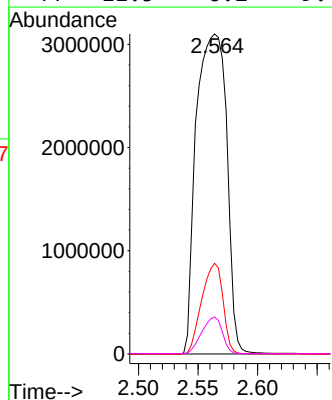
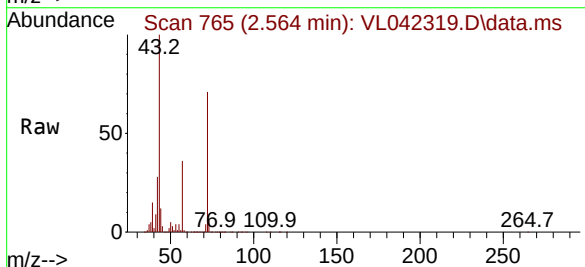
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B10-4-3242025

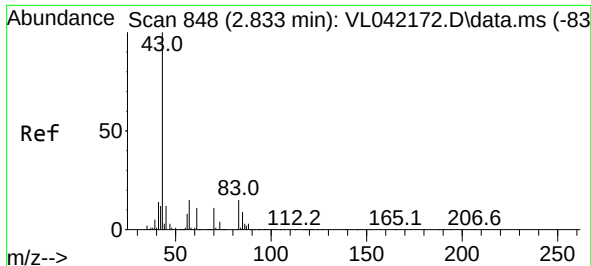
Tgt Ion: 41 Resp: 8745
 Ion Ratio Lower Upper
 41 100
 76 1.4 24.1 36.1#
 39 0.0 61.1 91.7#



#23
 Vinyl Acetate
 Concen: 477.676 ppbv
 RT: 2.564 min Scan# 765
 Delta R.T. 0.104 min
 Lab File: VL042319.D
 Acq: 11 Apr 2025 14:27

Tgt Ion: 43 Resp: 5516146
 Ion Ratio Lower Upper
 43 100
 86 0.0 5.5 8.3#
 42 28.3 8.6 13.0#
 44 11.5 6.2 9.4#

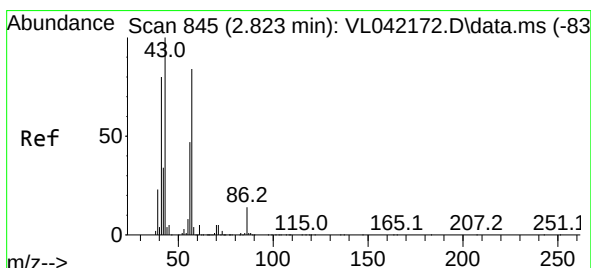
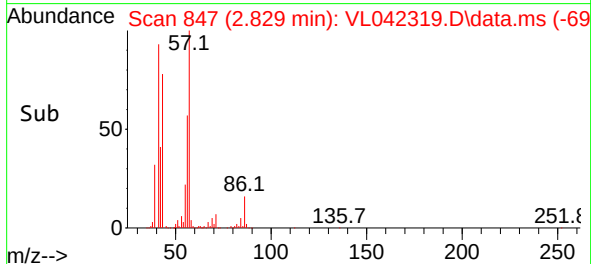
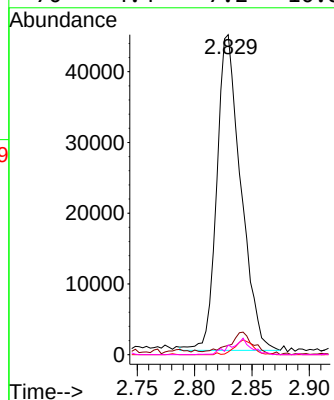
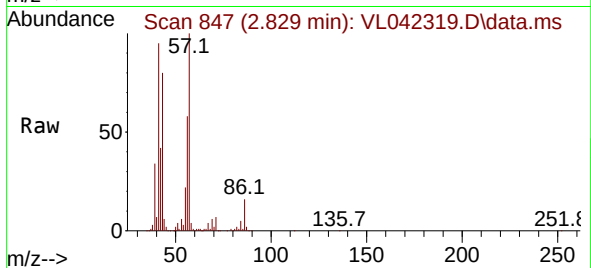




#25
Ethyl Acetate
Concen: 0.939 ppbv
RT: 2.829 min Scan# 84
Delta R.T. -0.003 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

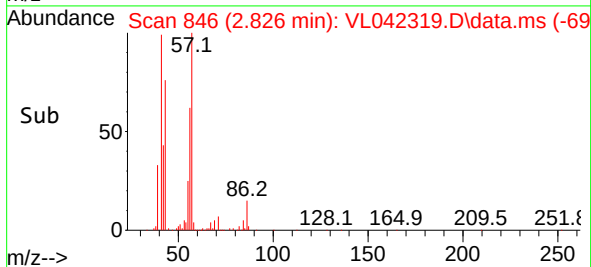
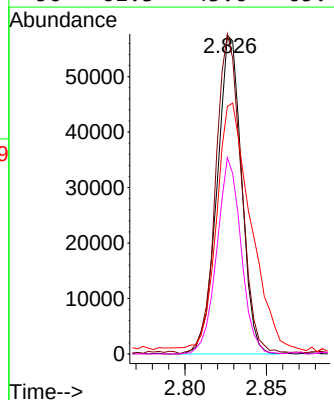
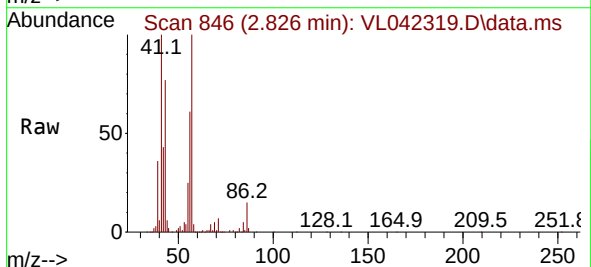
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-4-3242025

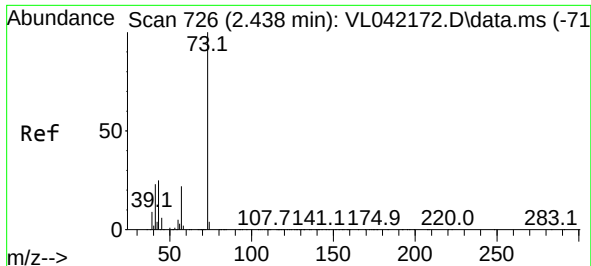
Tgt Ion:	43	Resp:	65016
Ion Ratio	Lower	Upper	
43	100		
45	8.3	8.2	12.2
61	3.6	7.3	10.9#
70	4.4	7.2	10.8#



#26
Hexane
Concen: 2.245 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.003 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

Tgt Ion:	57	Resp:	60038
Ion Ratio	Lower	Upper	
57	100		
41	106.2	76.6	114.8
43	0.0	207.8	311.8#
56	61.3	43.6	65.4

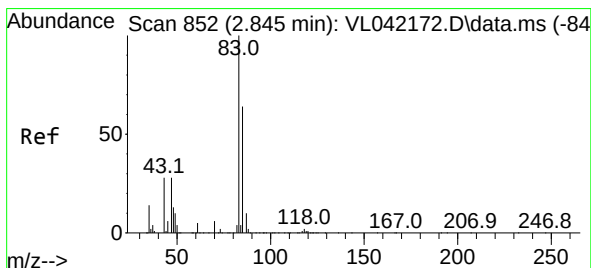
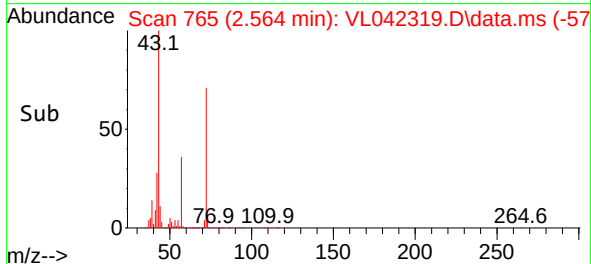
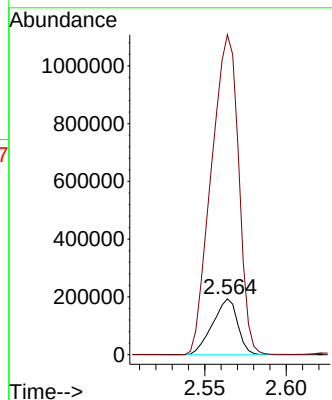
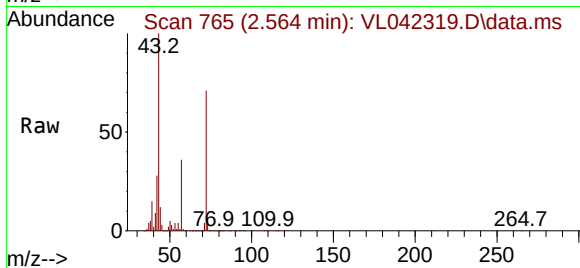




#28
Methyl tert-Butyl Ether
Concen: 12.386 ppbv
RT: 2.564 min Scan# 70
Delta R.T. 0.126 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

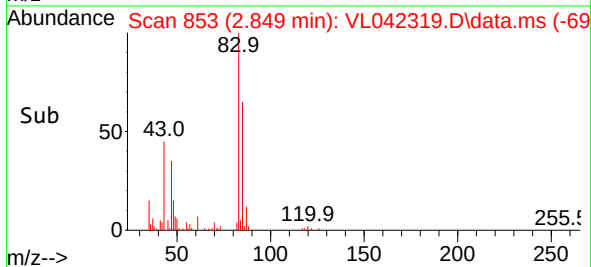
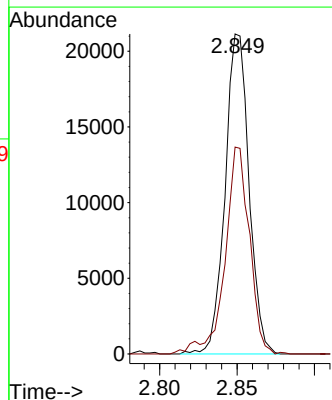
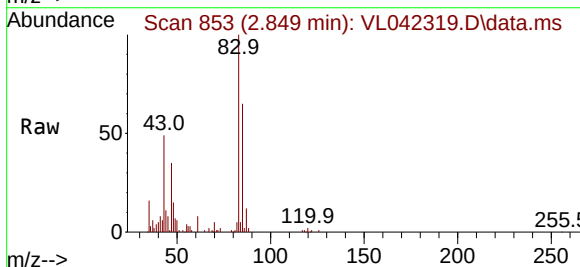
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-4-3242025

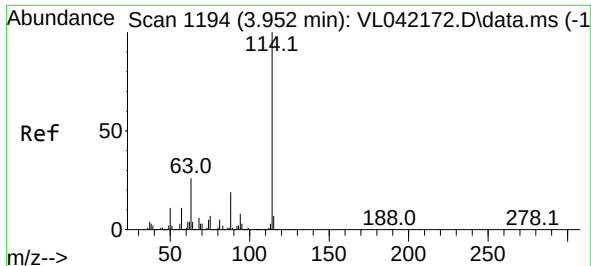
Tgt Ion: 73 Resp: 206262
Ion Ratio Lower Upper
73 100
57 627.1 20.5 30.7#



#29
Chloroform
Concen: 0.581 ppbv
RT: 2.849 min Scan# 853
Delta R.T. 0.003 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

Tgt Ion: 83 Resp: 22740
Ion Ratio Lower Upper
83 100
85 64.2 51.4 77.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.962 min Scan# 1197

Delta R.T. 0.010 min

Lab File: VL042319.D

Acq: 11 Apr 2025 14:27

Instrument :

MSVOA_L

ClientSampleId :

IA-B10-4-3242025

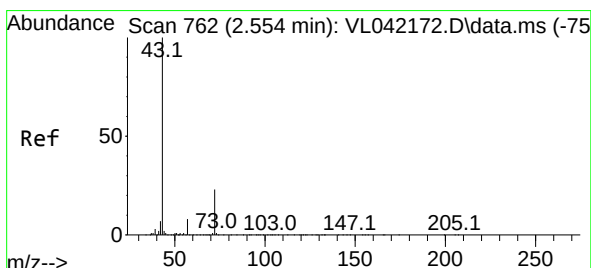
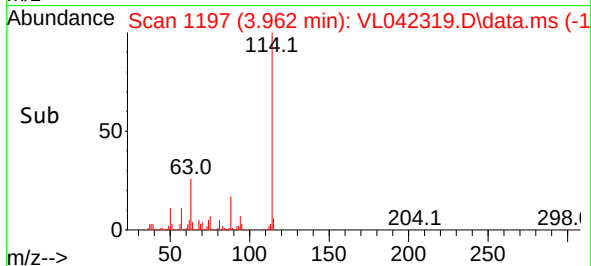
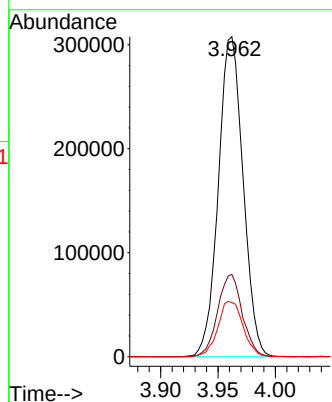
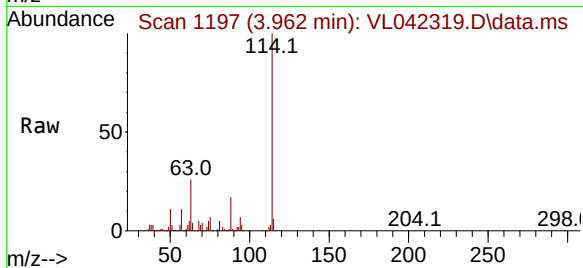
Tgt Ion:114 Resp: 461210

Ion Ratio Lower Upper

114 100

63 25.6 20.7 31.1

88 17.7 15.0 22.4



#34

2-Butanone

Concen: 164.939 ppbv

RT: 2.564 min Scan# 765

Delta R.T. 0.010 min

Lab File: VL042319.D

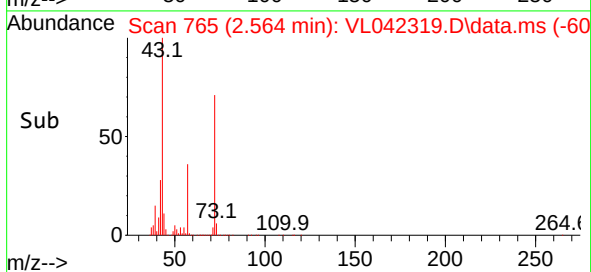
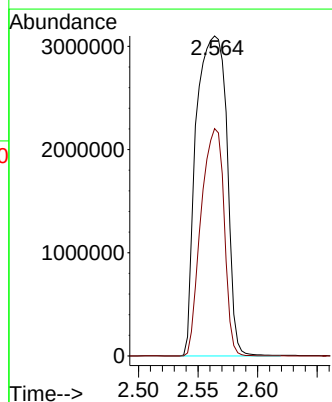
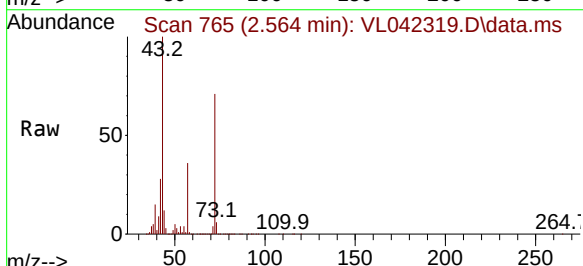
Acq: 11 Apr 2025 14:27

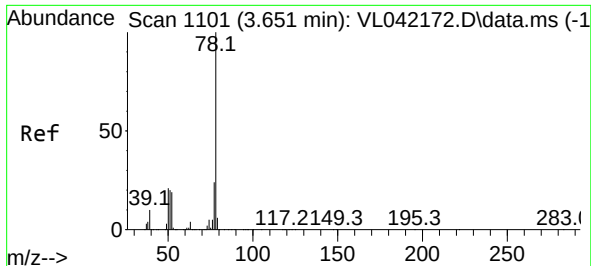
Tgt Ion: 43 Resp: 5516146

Ion Ratio Lower Upper

43 100

72 53.8 18.2 27.2#

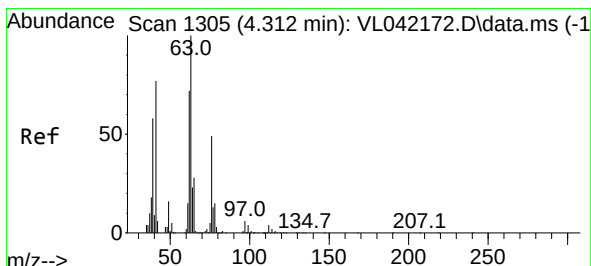
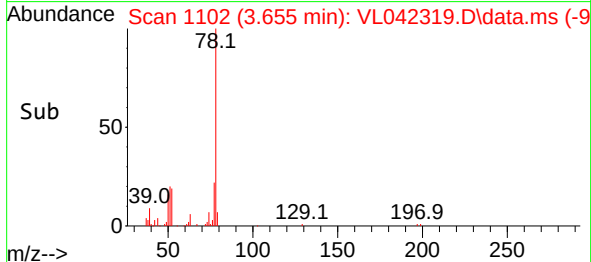
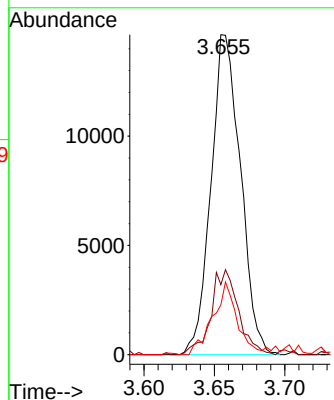
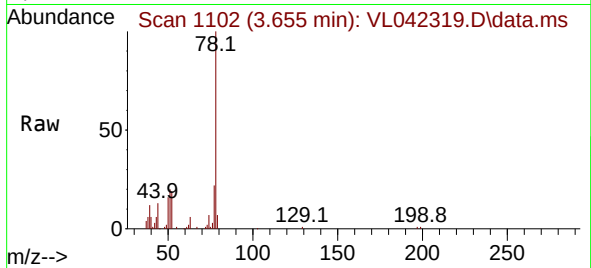




#36
Benzene
Concen: 0.468 ppbv
RT: 3.655 min Scan# 1101
Delta R.T. 0.003 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

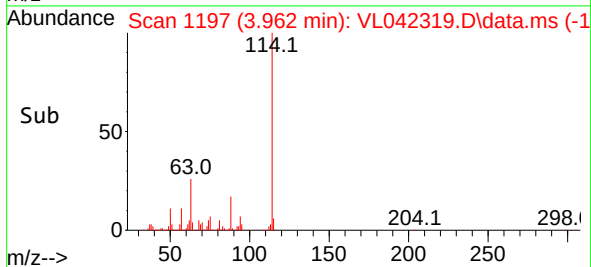
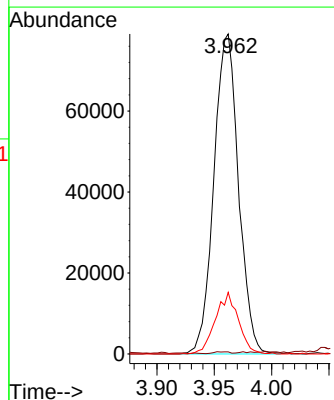
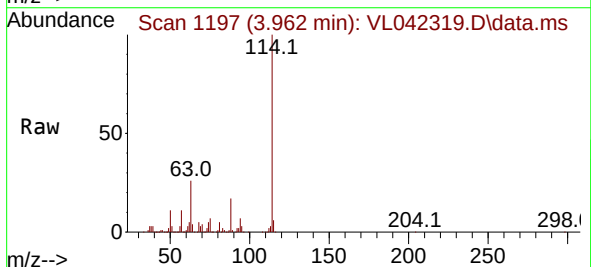
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-4-3242025

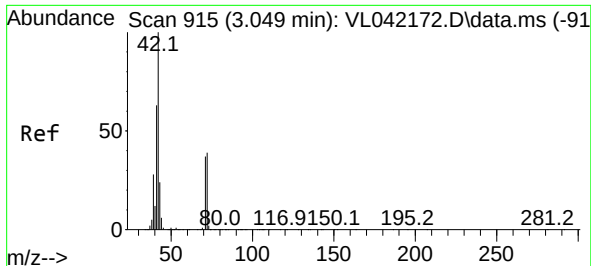
Tgt Ion	78	77	50
Resp	21386		
Ratio	100	21.9	15.6
Lower		19.1	16.6
Upper		28.7	24.8



#39
1,2-Dichloropropane
Concen: 7.093 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. -0.350 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

Tgt Ion	63	41	62
Resp	118114		
Ratio	100	0.3	19.2
Lower		61.7	57.6
Upper		92.5	86.4

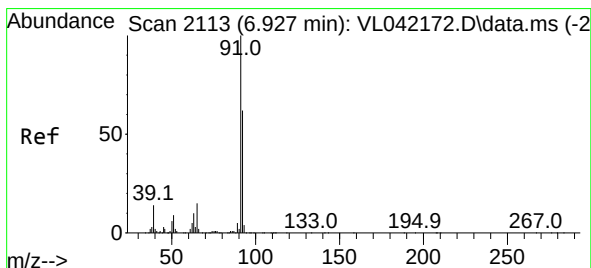
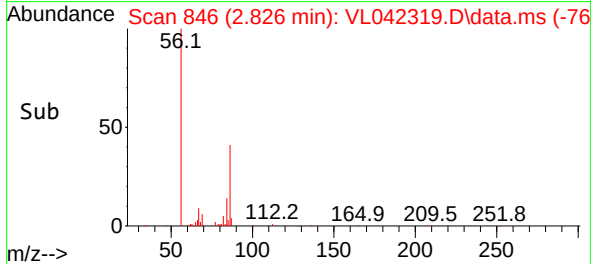
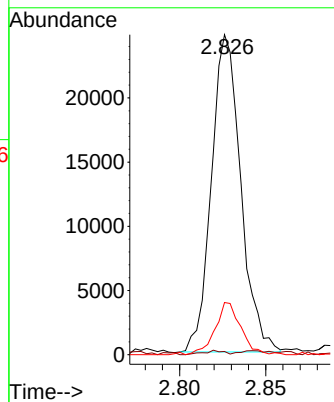
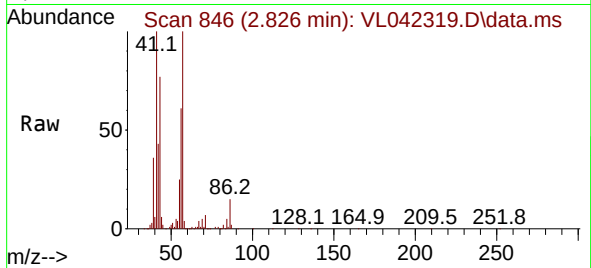




#41
Tetrahydrofuran
Concen: 1.522 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.223 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

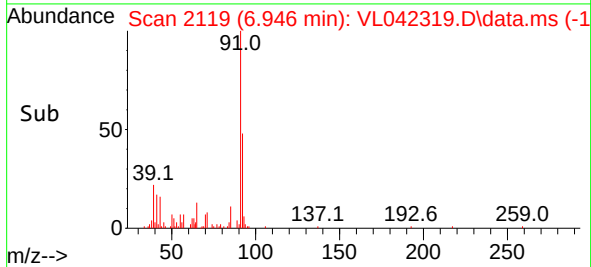
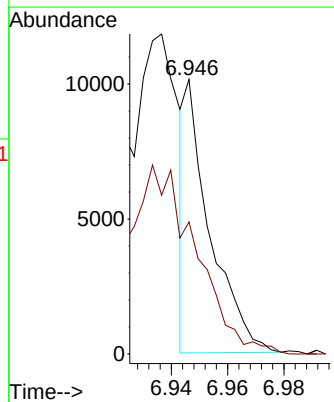
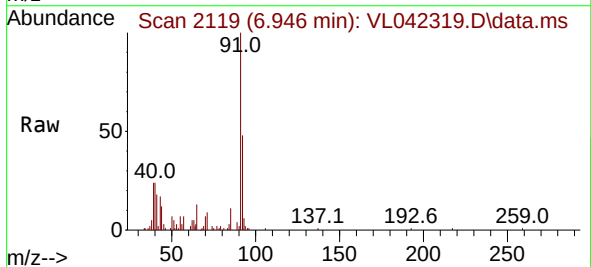
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-4-3242025

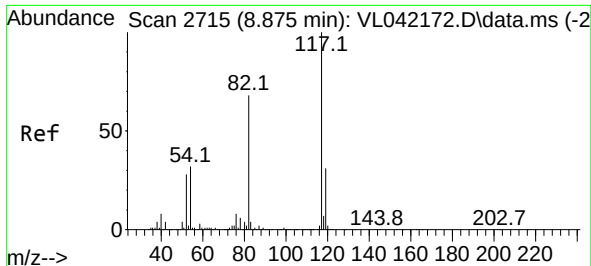
Tgt Ion: 42 Resp: 29308
Ion Ratio Lower Upper
42 100
72 0.0 31.4 47.0#
71 14.7 30.2 45.4#



#53
Toluene
Concen: 0.115 ppbv
RT: 6.946 min Scan# 2119
Delta R.T. 0.019 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

Tgt Ion: 91 Resp: 6234
Ion Ratio Lower Upper
91 100
92 0.0 48.4 72.6#

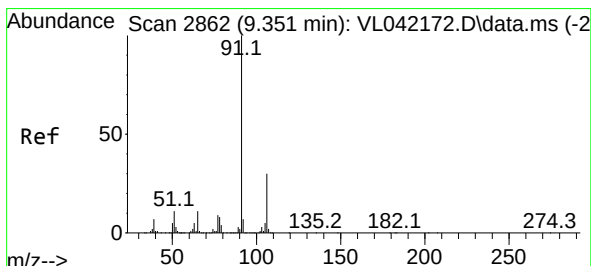
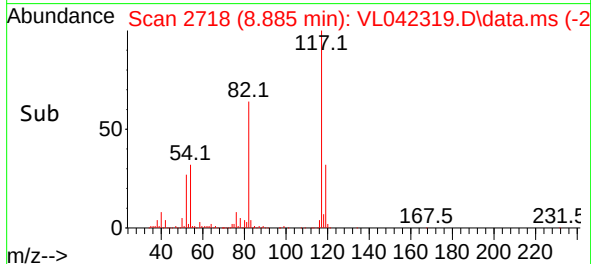
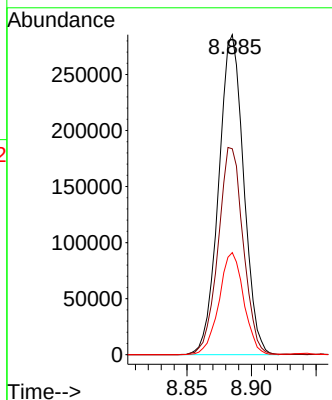
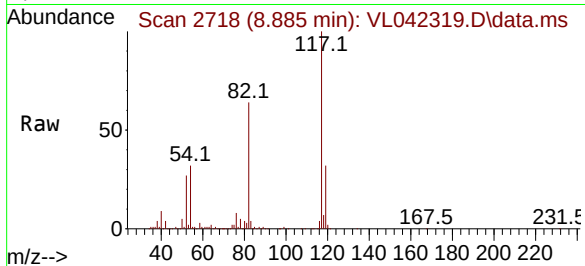




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

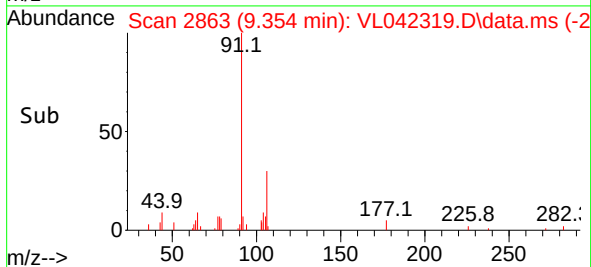
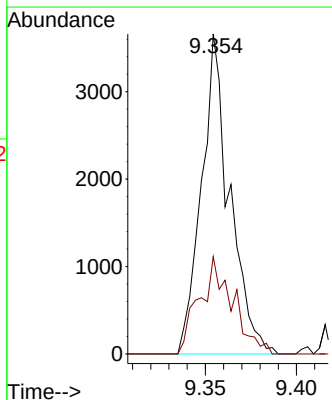
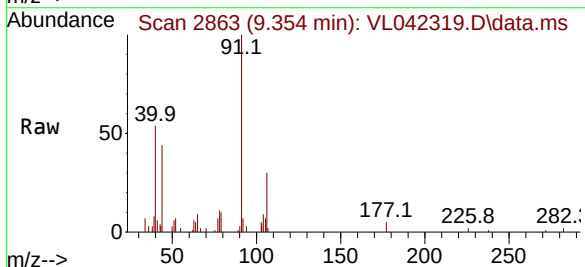
Instrument :
MSVOA_1
ClientSampleId :
IA-B10-4-3242025

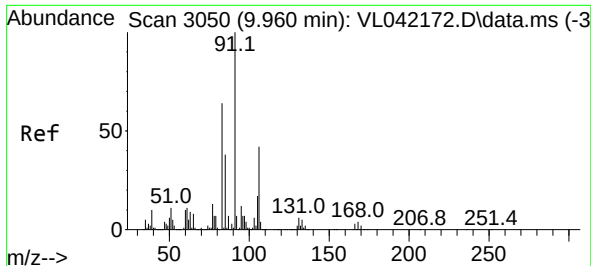
Tgt Ion	Ratio	Lower	Upper
117	100		
82	65.1	55.8	83.6
119	31.7	25.5	38.3



#58
Ethyl Benzene
Concen: 0.058 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.003 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

Tgt Ion	Ratio	Lower	Upper
91	100		
106	32.7	24.2	36.2

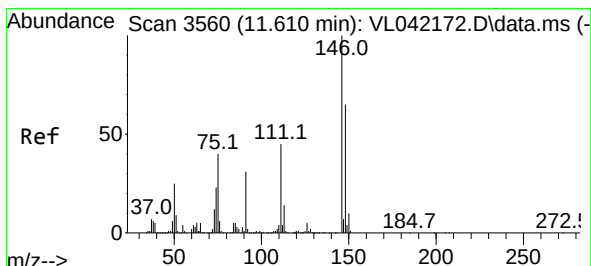
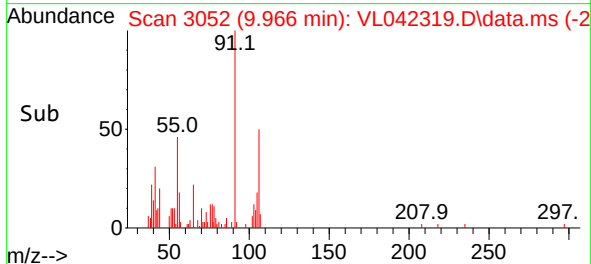
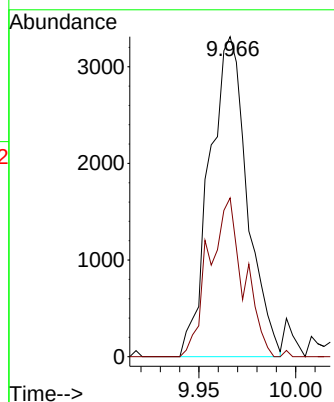
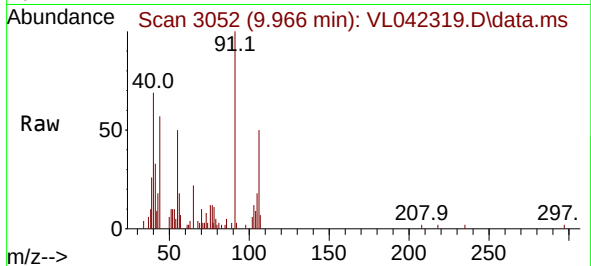




#60
o-Xylene
Concen: 0.082 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. 0.006 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

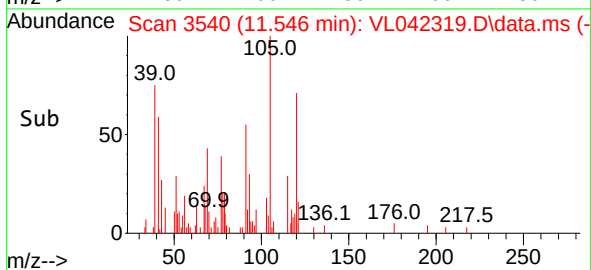
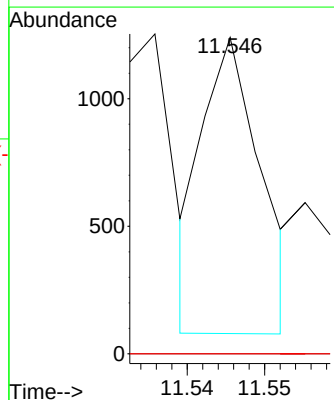
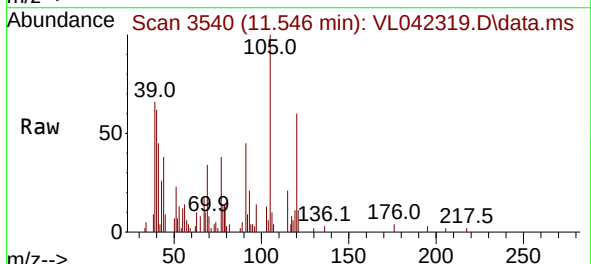
Instrument :
MSVOA_1
ClientSampleId :
IA-B10-4-3242025

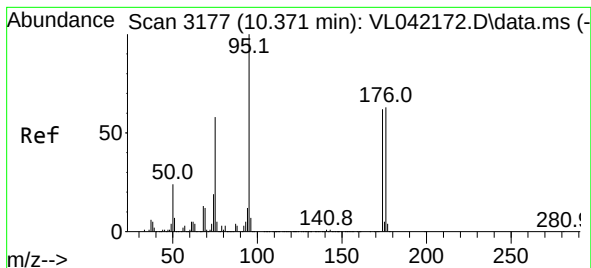
Tgt Ion: 91 Resp: 4483
Ion Ratio Lower Upper
91 100
106 46.1 20.8 62.5



#66
Benzyl Chloride
Concen: 0.076 ppbv
RT: 11.546 min Scan# 3540
Delta R.T. -0.065 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

Tgt Ion: 91 Resp: 609
Ion Ratio Lower Upper
91 100
126 0.0 13.8 20.6#
128 3.4 4.5 6.7#

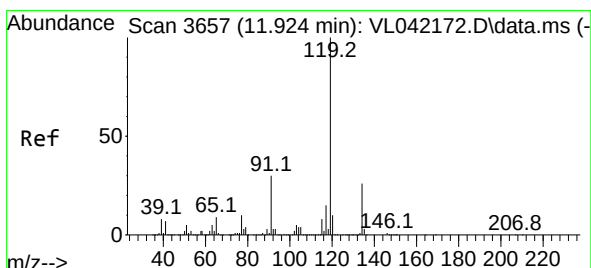
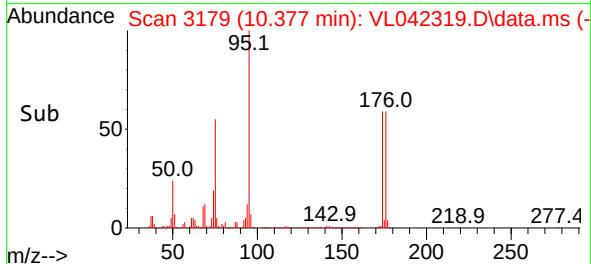
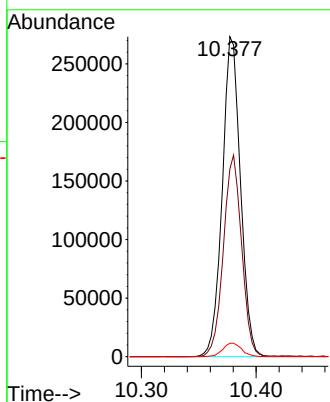
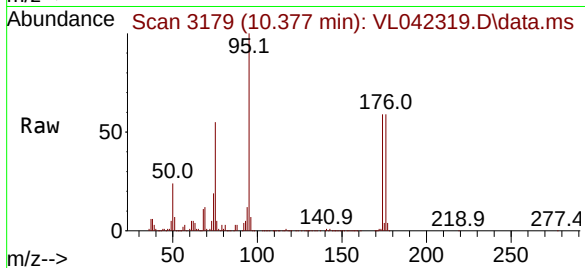




#68
1-Bromo-4-Fluorobenzene
Concen: 9.573 ppbv
RT: 10.377 min Scan# 3177
Delta R.T. 0.006 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

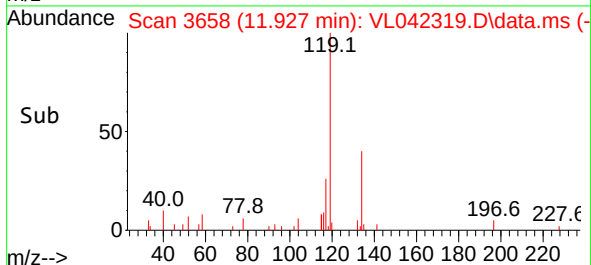
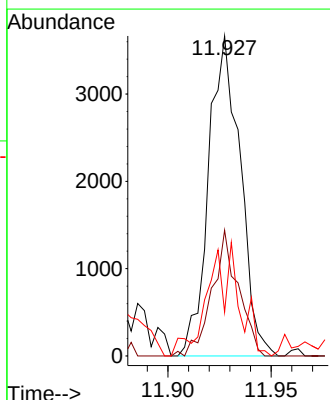
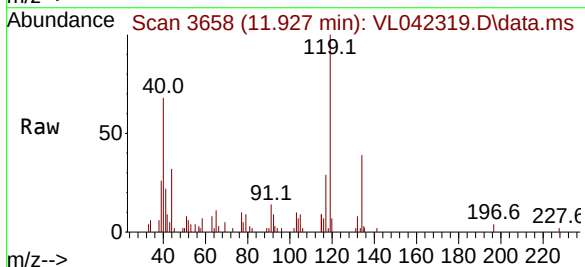
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-4-3242025

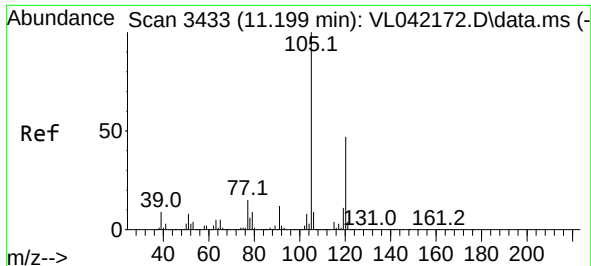
Tgt Ion: 95 Resp: 301822
Ion Ratio Lower Upper
95 100
174 63.1 50.6 76.0
175 4.4 3.8 5.6



#69
p-Isopropyltoluene
Concen: 0.043 ppbv
RT: 11.927 min Scan# 3658
Delta R.T. 0.003 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

Tgt Ion: 119 Resp: 3908
Ion Ratio Lower Upper
119 100
134 32.7 20.4 30.6#
91 36.4 23.7 35.5#

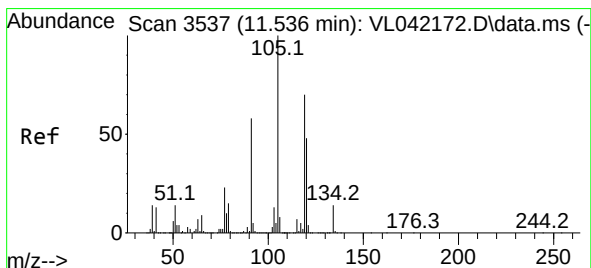
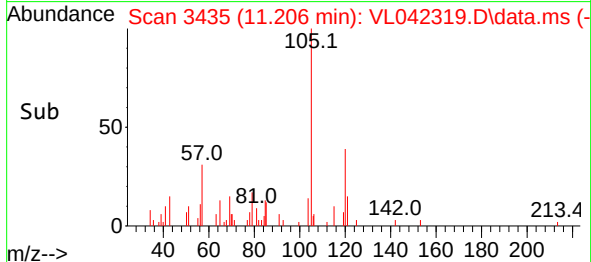
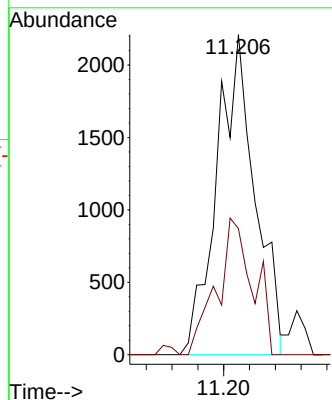
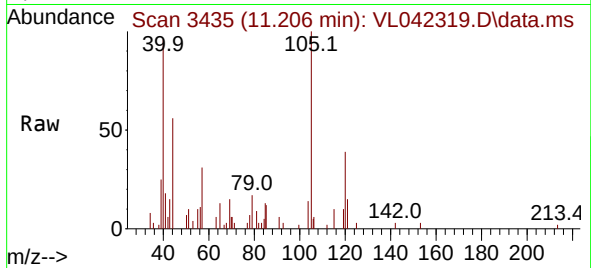




#73
1,3,5-Trimethylbenzene
Concen: 0.038 ppbv
RT: 11.206 min Scan# 3435
Delta R.T. 0.006 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

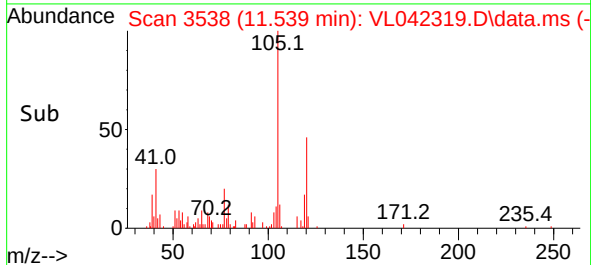
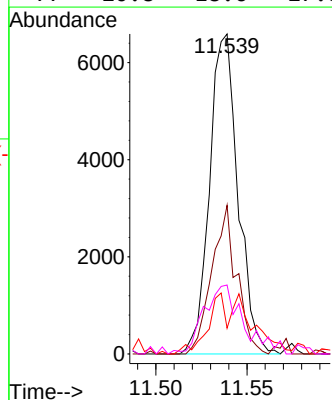
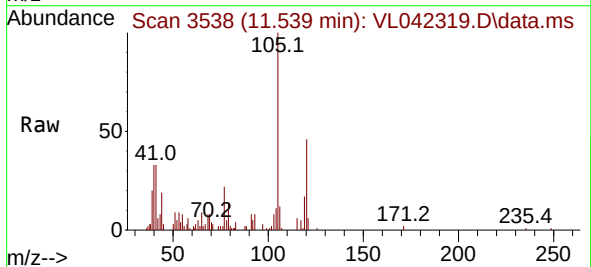
Instrument :
MSVOA_1
ClientSampleId :
IA-B10-4-3242025

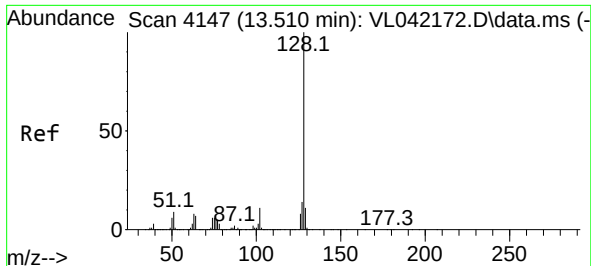
Tgt Ion:105 Resp: 2285
Ion Ratio Lower Upper
105 100
120 39.4 37.4 56.0



#74
1,2,4-Trimethylbenzene
Concen: 0.105 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.003 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

Tgt Ion:105 Resp: 7147
Ion Ratio Lower Upper
105 100
120 46.5 38.6 58.0
91 6.7 46.2 69.2#
77 20.8 18.6 27.8





#79

Naphthalene

Concen: 0.068 ppbv

RT: 13.517 min Scan# 4113

Delta R.T. 0.006 min

Lab File: VL042319.D

Acq: 11 Apr 2025 14:27

Instrument :

MSVOA_L

ClientSampleId :

IA-B10-4-3242025

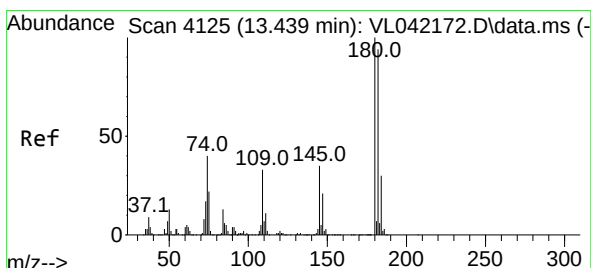
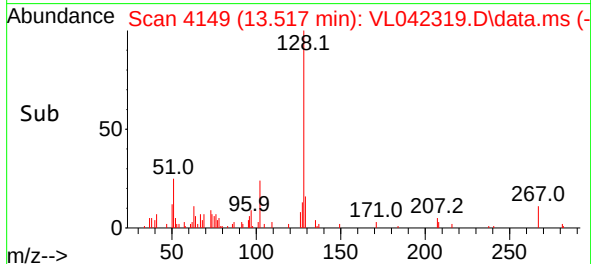
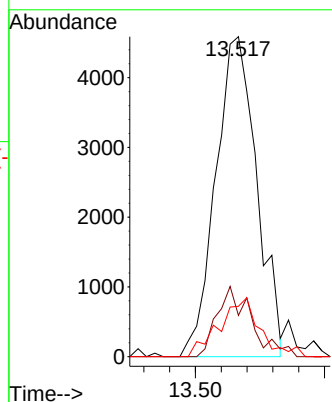
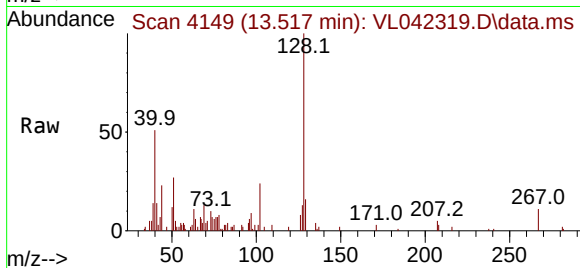
Tgt Ion:128 Resp: 5078

Ion Ratio Lower Upper

128 100

127 12.9 10.8 16.2

129 15.7 9.0 13.4#



#81

1,2,4-Trichlorobenzene

Concen: 2.392 ppbv

RT: 13.400 min Scan# 4113

Delta R.T. -0.039 min

Lab File: VL042319.D

Acq: 11 Apr 2025 14:27

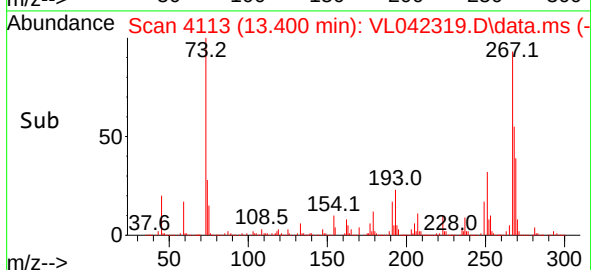
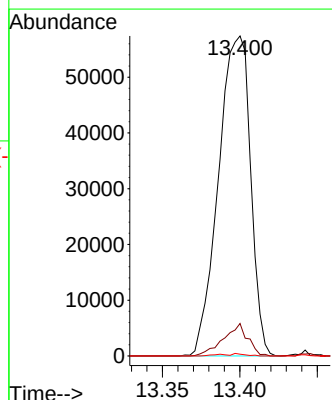
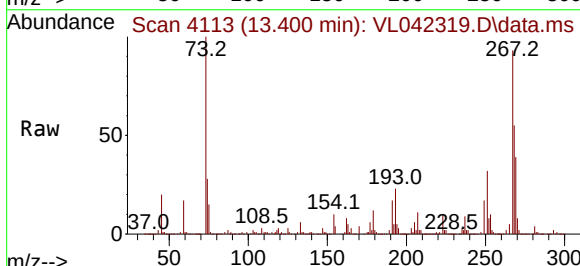
Tgt Ion:180 Resp: 82529

Ion Ratio Lower Upper

180 100

182 7.7 75.1 112.7#

184 0.5 24.4 36.6#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
 Data File : VL042320.D
 Acq On : 11 Apr 2025 15:01
 Operator : SY/MD
 Sample : Q1665-11
 Misc : 400mL/MSVOA_L
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B10-1-3242025

Quant Time: Apr 11 23:01:04 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	183875	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	460651	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	381290	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	314052	10.030	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.300%

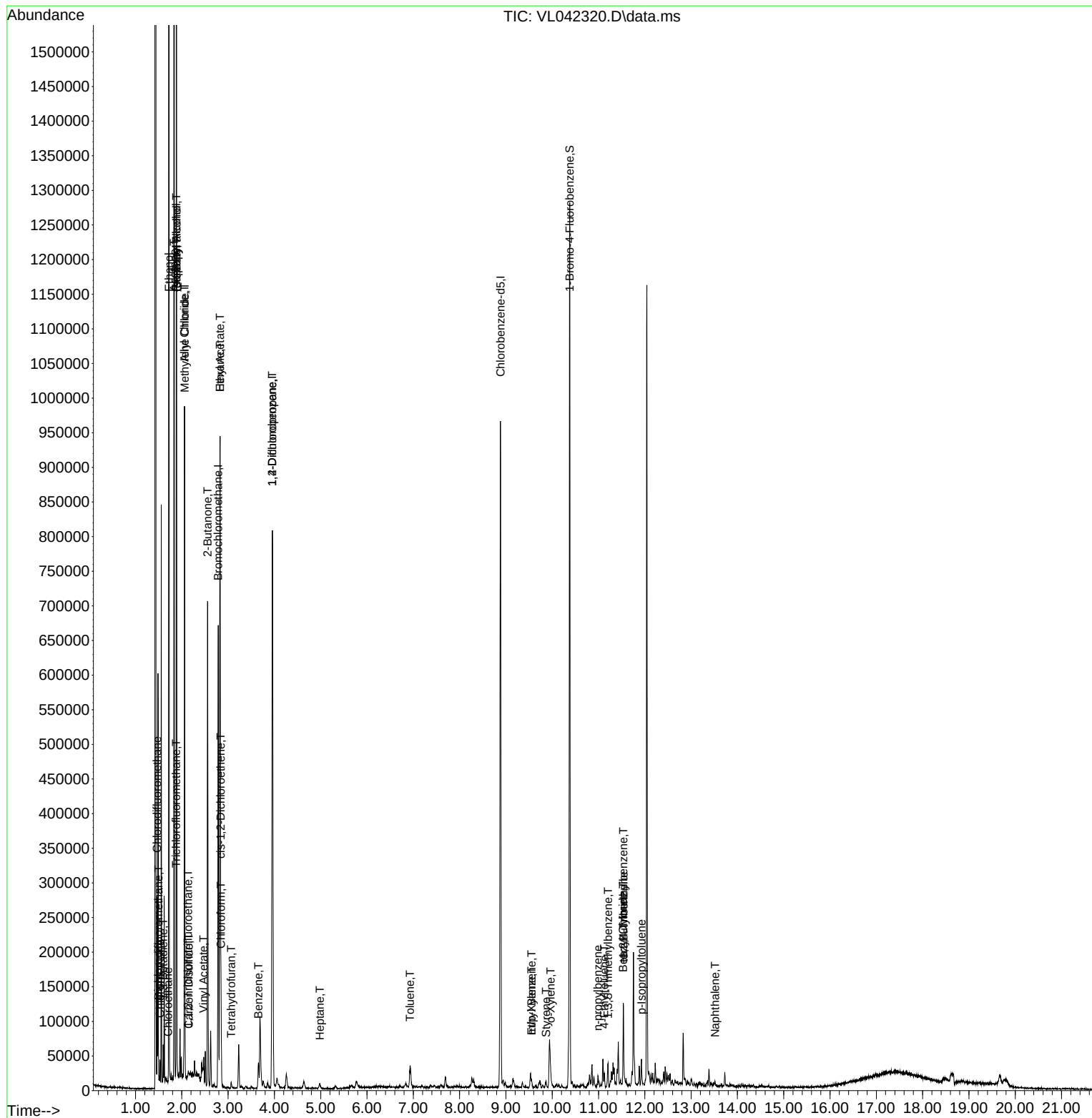
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.496	85	11636	0.429	ppbv	90
3) Chlorodifluoromethane	1.466	51	68850	2.482	ppbv #	64
4) Chloromethane	1.531	50	6489	0.585	ppbv #	86
7) Chloroethane	1.703	64	241	0.054	ppbv #	78
9) Propene	1.884	41	70001	5.507	ppbv	90
10) Heptane	4.981	43	1831	0.054	ppbv #	73
11) Trichlorofluoromethane	1.877	101	5866	0.222	ppbv	100
12) 1,1,2-Trichlorotrifluoro...	2.136	101	1596	0.074	ppbv	91
13) Ethanol	1.722	45	1300122	1081.877	ppbv	88
15) Acetone	1.832	43	2018088	78.476	ppbv #	79
16) 1,3-Butadiene	1.599	39	5944	0.473	ppbv #	38
17) tert-Butyl alcohol	1.887	59	28350	0.885	ppbv	96
19) Isopropyl Alcohol	1.884	45	743440	51.238	ppbv #	5
20) Methylene Chloride	2.062	84	141997	14.826	ppbv	96
21) Allyl Chloride	2.059	41	5466	0.301	ppbv #	21
23) Vinyl Acetate	2.470	43	9354	0.840	ppbv #	55
25) Ethyl Acetate	2.826	43	195625	2.931	ppbv #	85
26) Hexane	2.826	57	208675	8.094	ppbv #	41
27) Carbon Disulfide	2.149	76	1070	0.039	ppbv #	1
29) Chloroform	2.848	83	40045	1.061	ppbv	96
31) cis-1,2-Dichloroethene	2.839	61	6478	0.248	ppbv #	25
34) 2-Butanone	2.557	43	411404	12.316	ppbv	98
36) Benzene	3.654	78	21158	0.463	ppbv	98
39) 1,2-Dichloropropane	3.955	63	115727	6.958	ppbv #	22
41) Tetrahydrofuran	3.065	42	2565	0.133	ppbv #	59
53) Toluene	6.930	91	14263	0.263	ppbv #	59
58) Ethyl Benzene	9.552	91	2141	0.032	ppbv	95
59) m/p-Xylene	9.552	91	2141	0.040	ppbv #	31
60) o-Xylene	9.966	91	7975	0.147	ppbv	99
61) Styrene	9.869	104	1381	0.051	ppbv #	86
64) n-propylbenzene	10.985	120	1262	0.060	ppbv	77
65) tert-Butylbenzene	11.539	119	5633	0.075	ppbv #	71
66) Benzyl Chloride	11.532	91	5835	0.733	ppbv #	66
69) p-Isopropyltoluene	11.927	119	10393	0.116	ppbv #	90
72) 4-Ethyltoluene	11.125	105	7507	0.111	ppbv #	64
73) 1,3,5-Trimethylbenzene	11.205	105	9483	0.161	ppbv	96
74) 1,2,4-Trimethylbenzene	11.536	105	38801	0.571	ppbv #	68
79) Naphthalene	13.516	128	2510	0.034	ppbv #	88

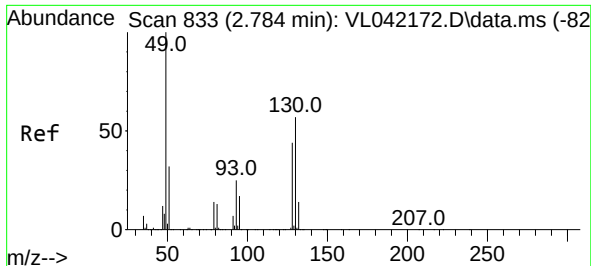
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : VL042320.D
Acq On : 11 Apr 2025 15:01
Operator : SY/MD
Sample : Q1665-11
Misc : 400mL/MSVOA_L
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B10-1-3242025

Quant Time: Apr 11 23:01:04 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

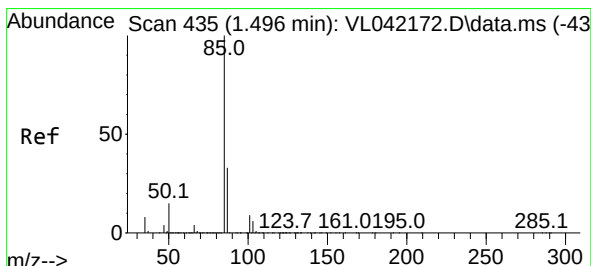
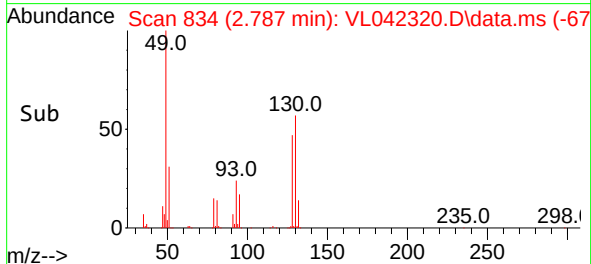
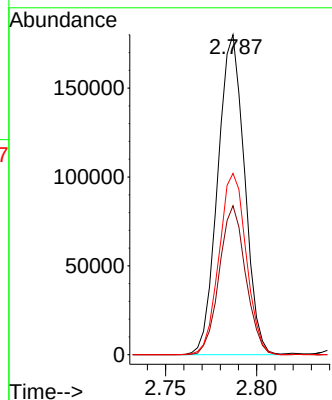
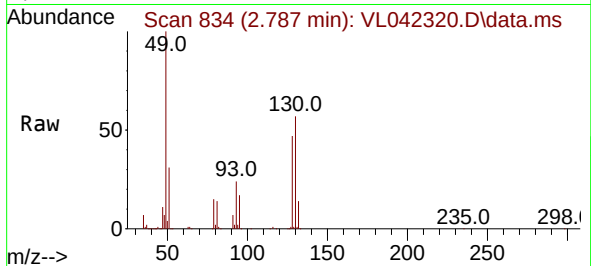




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

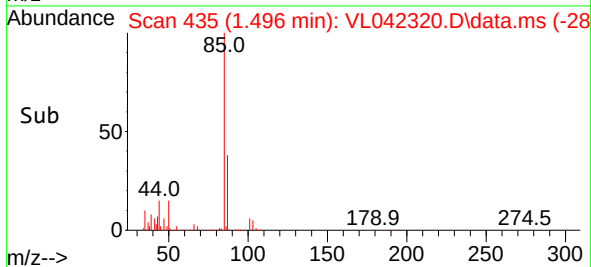
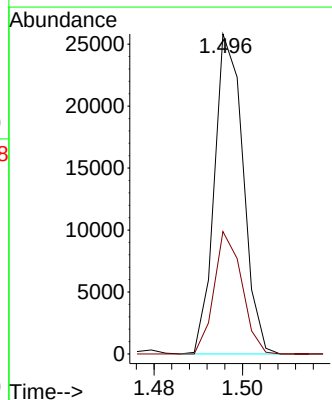
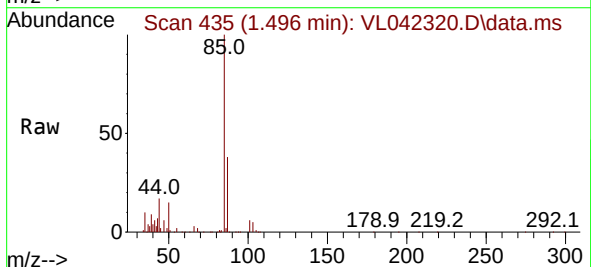
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-1-3242025

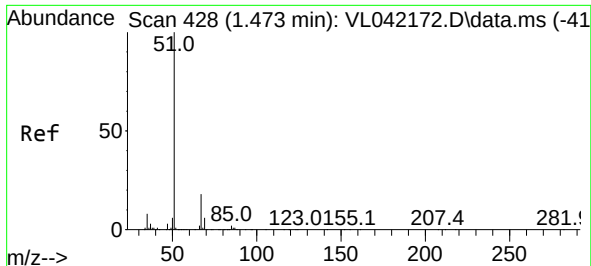
Tgt Ion: 49 Resp: 183875
Ion Ratio Lower Upper
49 100
128 45.7 22.9 68.5
130 57.5 28.8 86.4



#2
Dichlorodifluoromethane
Concen: 0.429 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

Tgt Ion: 85 Resp: 11636
Ion Ratio Lower Upper
85 100
87 38.2 26.1 39.1

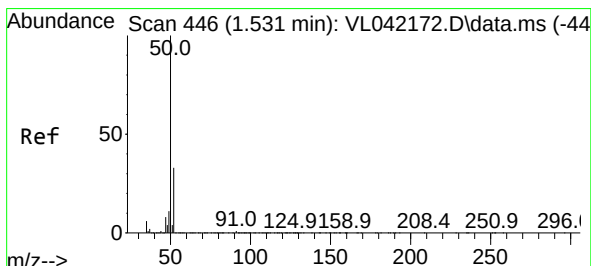
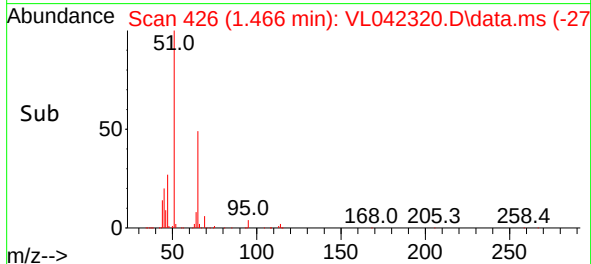
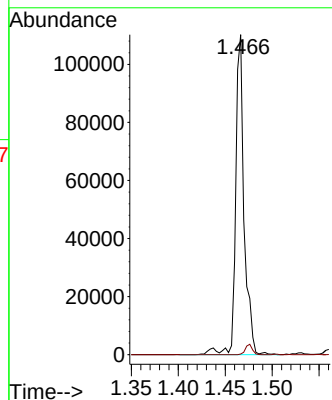
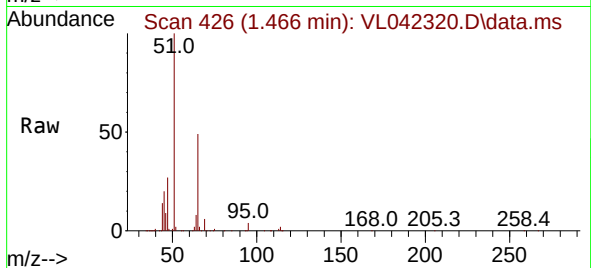




#3
Chlorodifluoromethane
Concen: 2.482 ppbv
RT: 1.466 min Scan# 41
Delta R.T. -0.007 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

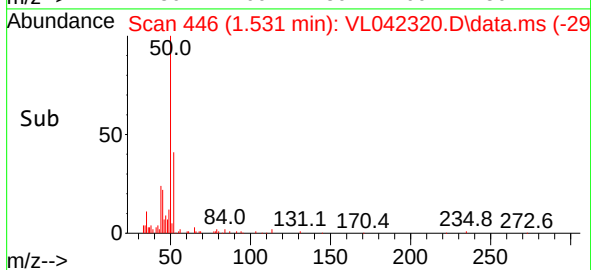
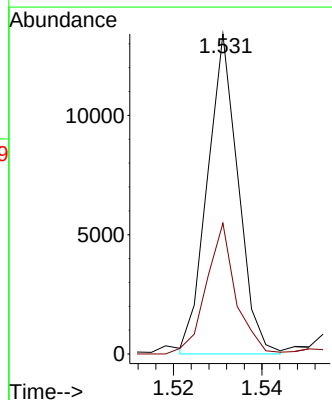
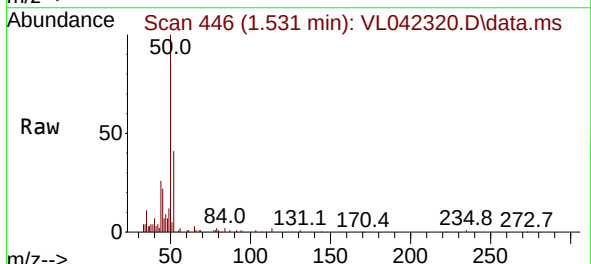
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-1-3242025

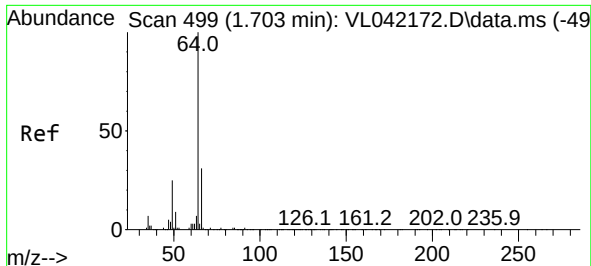
Tgt Ion: 51 Resp: 68850
Ion Ratio Lower Upper
51 100
67 2.7 15.0 22.6#



#4
Chloromethane
Concen: 0.585 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

Tgt Ion: 50 Resp: 6489
Ion Ratio Lower Upper
50 100
52 40.7 26.1 39.1#

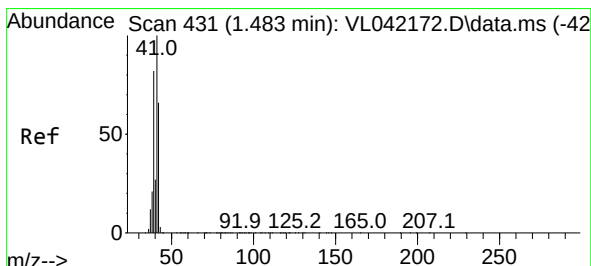
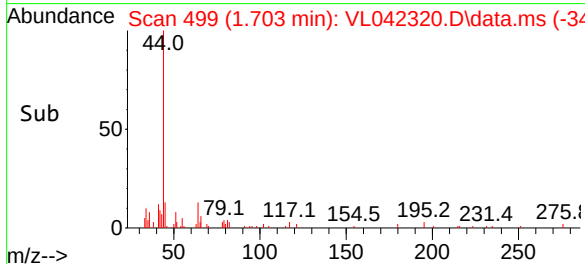
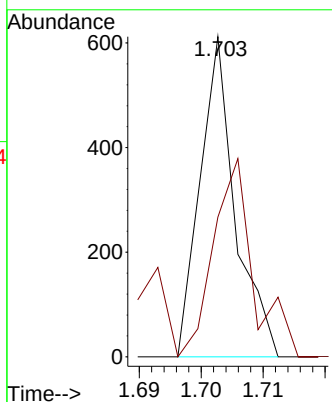
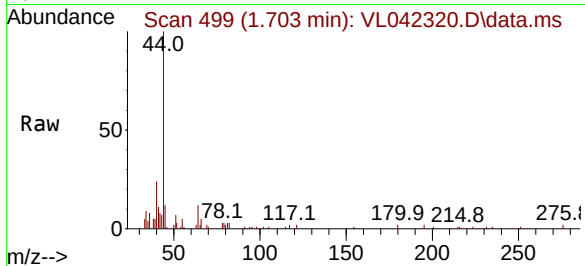




#7
Chloroethane
Concen: 0.054 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

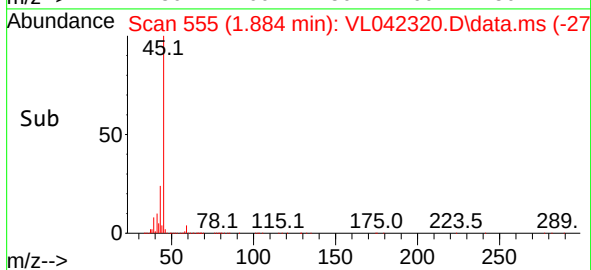
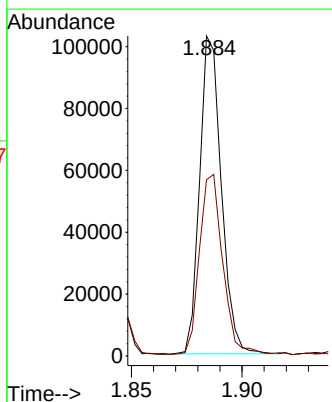
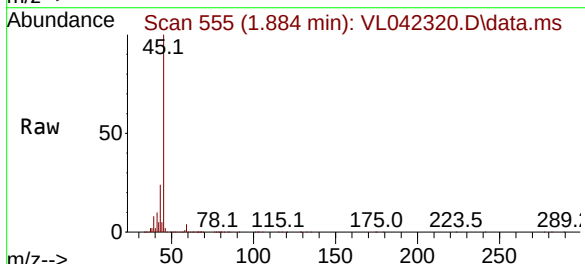
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-1-3242025

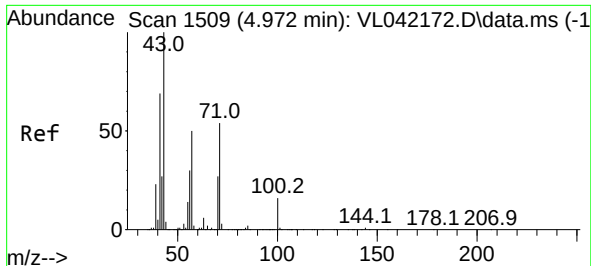
Tgt Ion: 64 Resp: 241
Ion Ratio Lower Upper
64 100
66 43.6 25.2 37.8#



#9
Propene
Concen: 5.507 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.401 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

Tgt Ion: 41 Resp: 70001
Ion Ratio Lower Upper
41 100
42 61.0 55.4 83.2

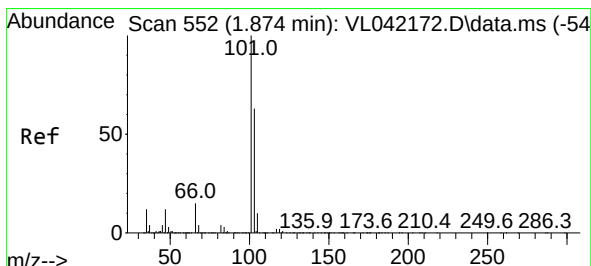
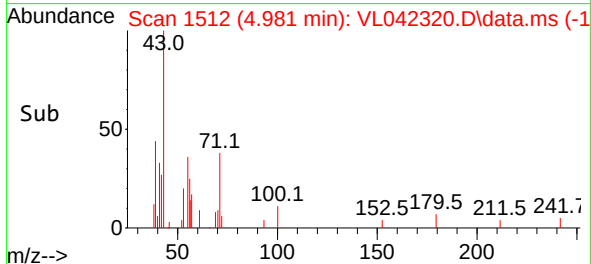
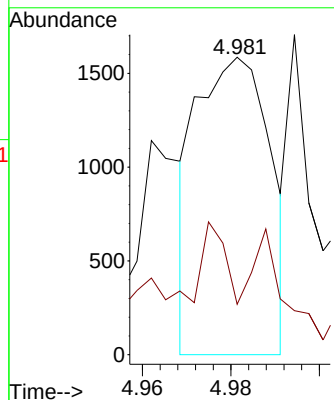
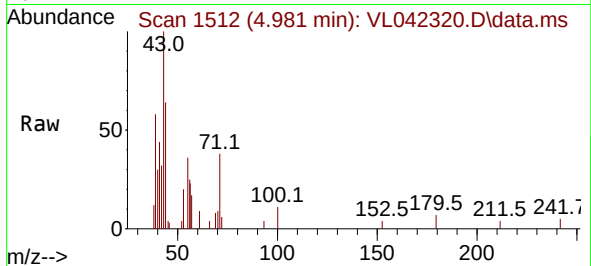




#10
Heptane
Concen: 0.054 ppbv
RT: 4.981 min Scan# 11
Delta R.T. 0.010 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

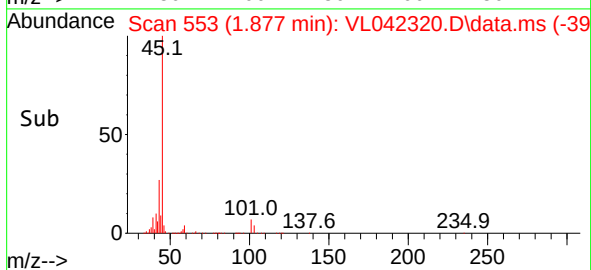
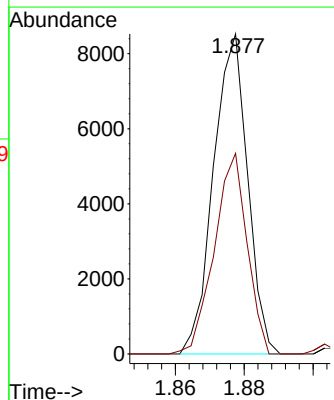
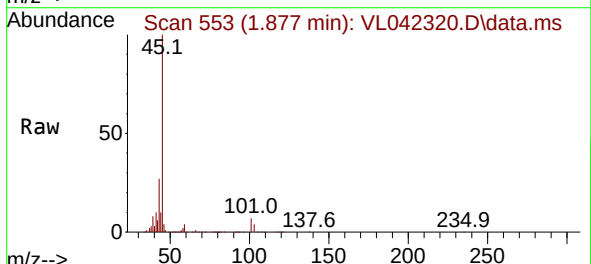
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-1-3242025

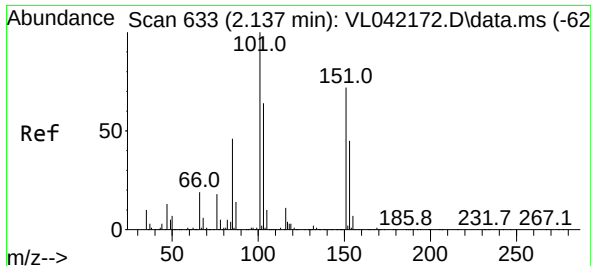
Tgt Ion: 43 Resp: 1831
Ion Ratio Lower Upper
43 100
57 67.6 39.4 59.2#



#11
Trichlorofluoromethane
Concen: 0.222 ppbv
RT: 1.877 min Scan# 553
Delta R.T. 0.003 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

Tgt Ion: 101 Resp: 5866
Ion Ratio Lower Upper
101 100
103 62.7 50.2 75.2

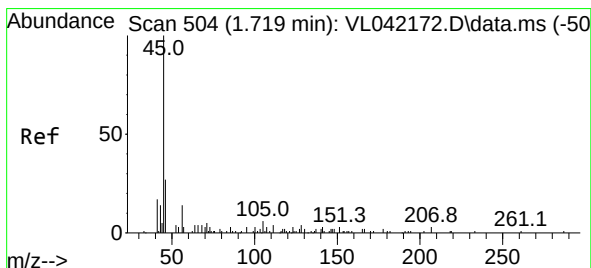
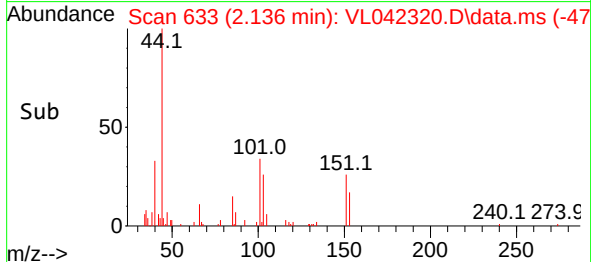
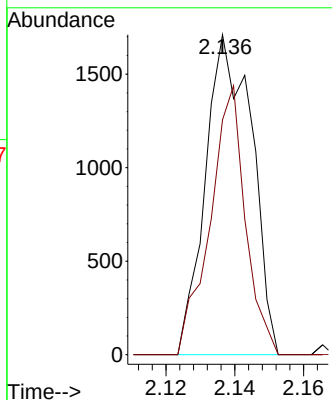
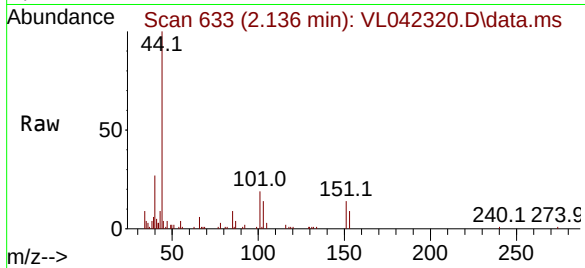




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.074 ppbv
RT: 2.136 min Scan# 611
Delta R.T. -0.000 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

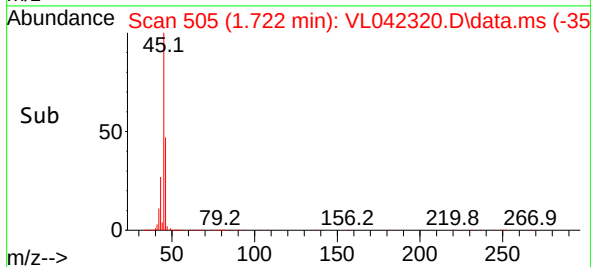
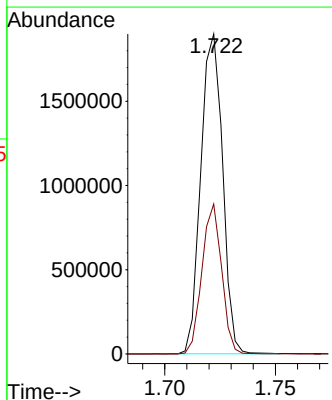
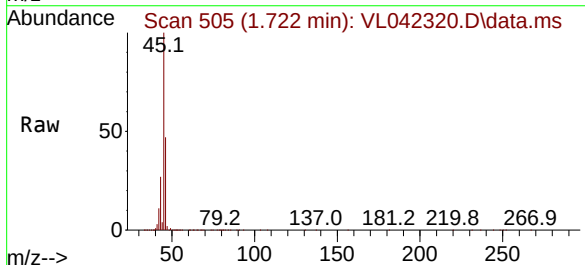
Instrument :
MSVOA_1
ClientSampleId :
IA-B10-1-3242025

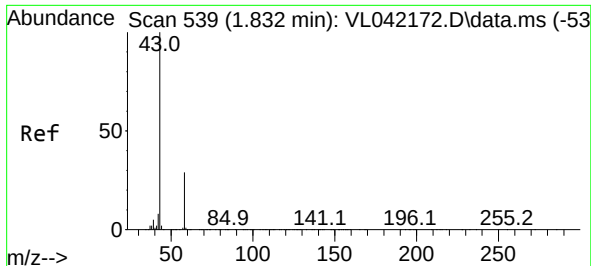
Tgt Ion:101 Resp: 1596
Ion Ratio Lower Upper
101 100
151 64.2 57.1 85.7



#13
Ethanol
Concen: 1081.877 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

Tgt Ion: 45 Resp: 1300122
Ion Ratio Lower Upper
45 100
46 42.5 20.2 80.8

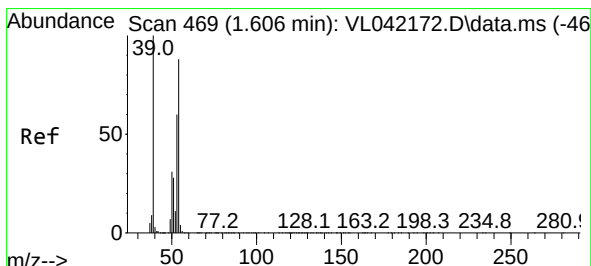
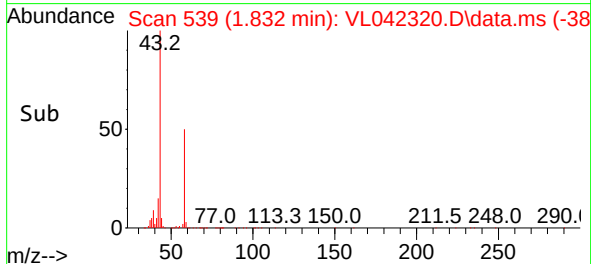
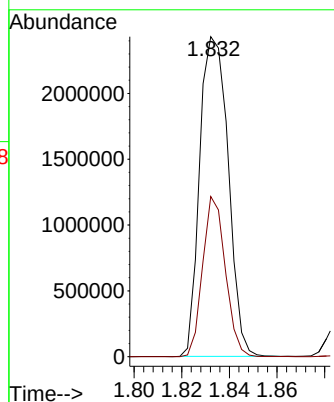
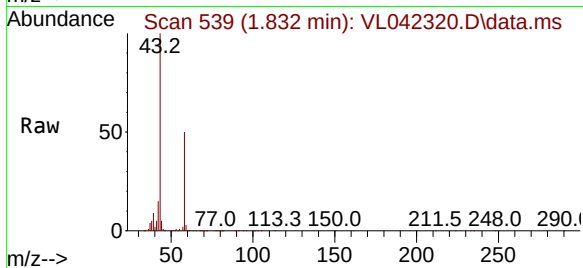




#15
Acetone
Concen: 78.476 ppbv
RT: 1.832 min Scan# 51
Delta R.T. -0.000 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

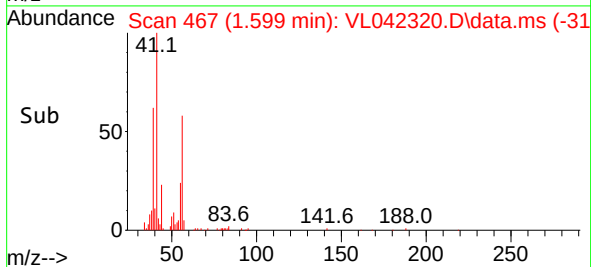
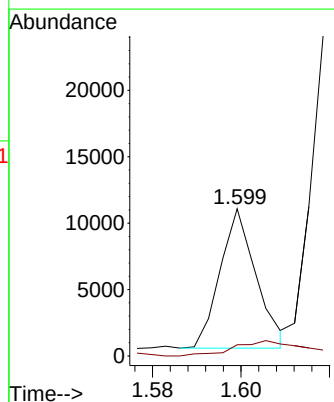
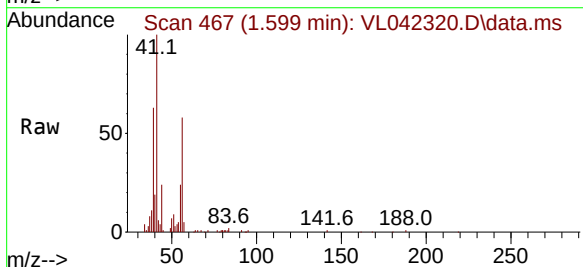
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-1-3242025

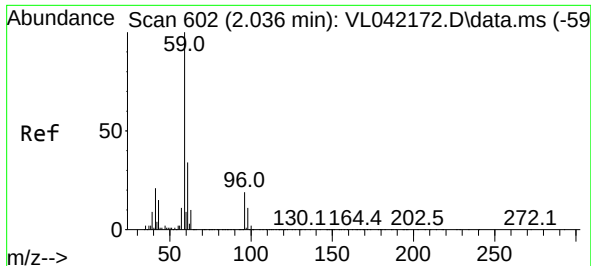
Tgt Ion: 43 Resp: 2018088
Ion Ratio Lower Upper
43 100
58 40.0 23.2 34.8#



#16
1,3-Butadiene
Concen: 0.473 ppbv
RT: 1.599 min Scan# 467
Delta R.T. -0.007 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

Tgt Ion: 39 Resp: 5944
Ion Ratio Lower Upper
39 100
54 22.6 60.7 91.1#

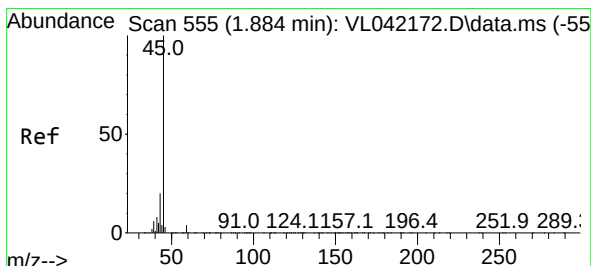
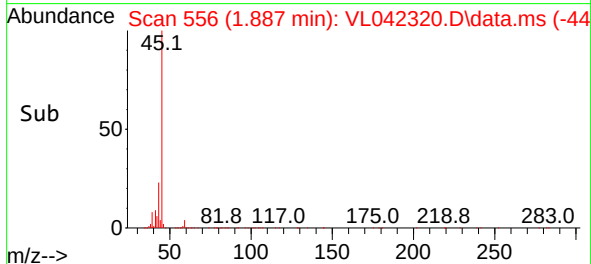
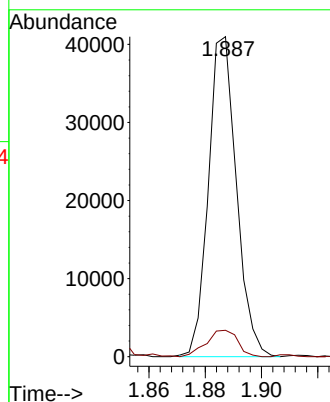
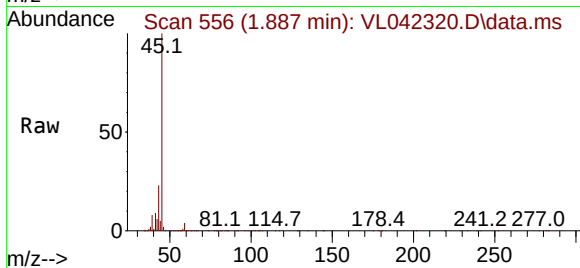




#17
tert-Butyl alcohol
Concen: 0.885 ppbv
RT: 1.887 min Scan# 51
Delta R.T. -0.149 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

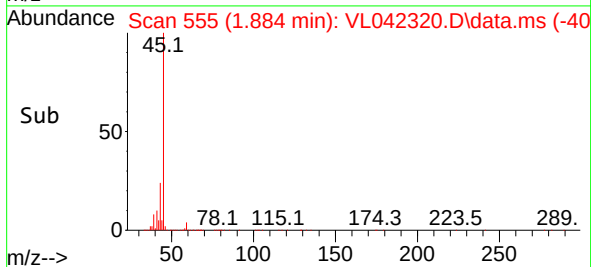
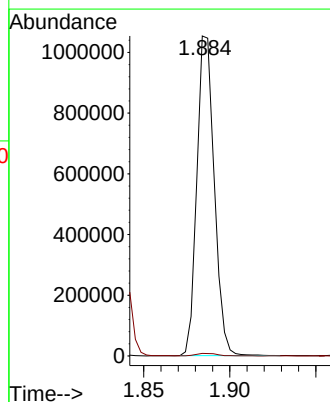
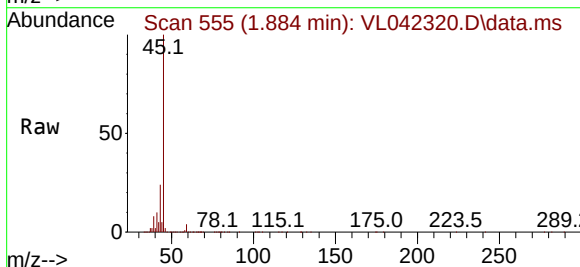
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-1-3242025

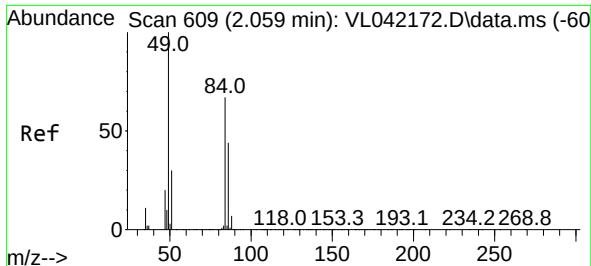
Tgt Ion: 59 Resp: 28350
Ion Ratio Lower Upper
59 100
57 9.6 8.9 13.3



#19
Isopropyl Alcohol
Concen: 51.238 ppbv
RT: 1.884 min Scan# 555
Delta R.T. -0.000 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

Tgt Ion: 45 Resp: 743440
Ion Ratio Lower Upper
45 100
58 108.7 36.9 55.3#





#20

Methylene Chloride

Concen: 14.826 ppbv

RT: 2.062 min Scan# 610

Delta R.T. 0.003 min

Lab File: VL042320.D

Acq: 11 Apr 2025 15:01

Instrument :

MSVOA_L

ClientSampleId :

IA-B10-1-3242025

Tgt Ion: 84 Resp: 141997

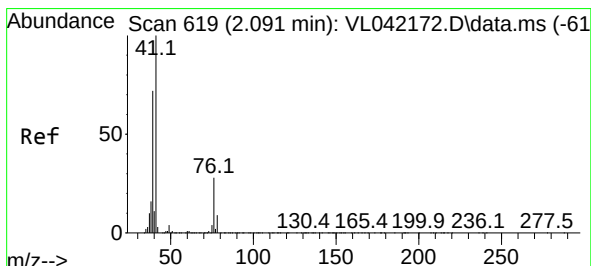
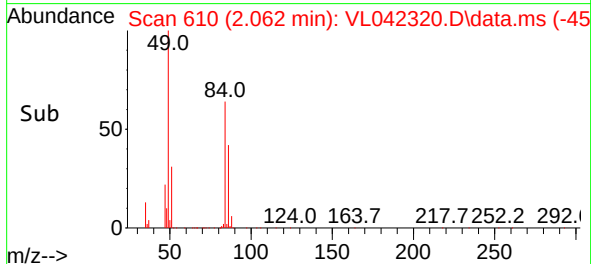
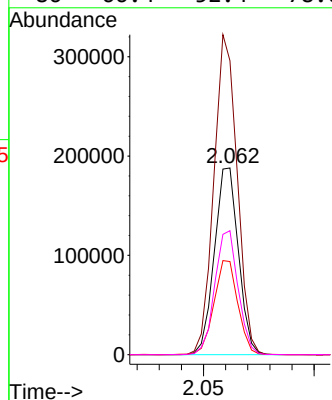
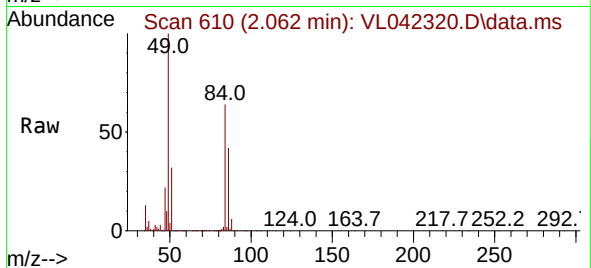
Ion Ratio Lower Upper

84 100

49 157.4 120.2 180.4

51 49.9 37.4 56.0

86 66.4 52.4 78.6



#21

Allyl Chloride

Concen: 0.301 ppbv

RT: 2.059 min Scan# 609

Delta R.T. -0.033 min

Lab File: VL042320.D

Acq: 11 Apr 2025 15:01

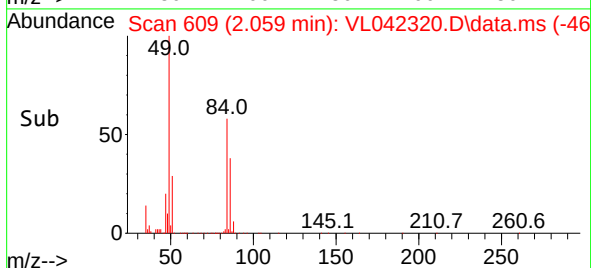
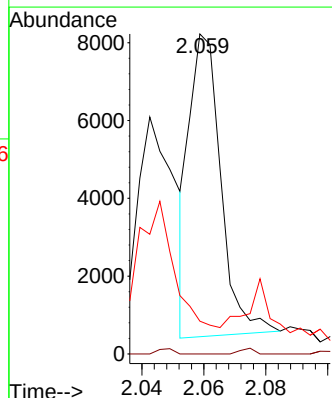
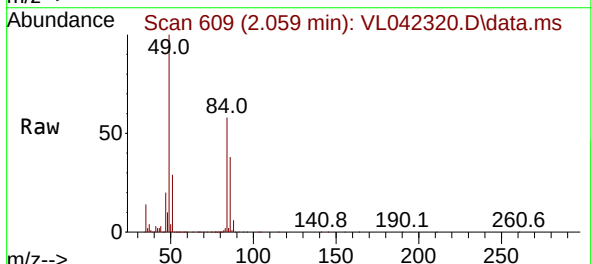
Tgt Ion: 41 Resp: 5466

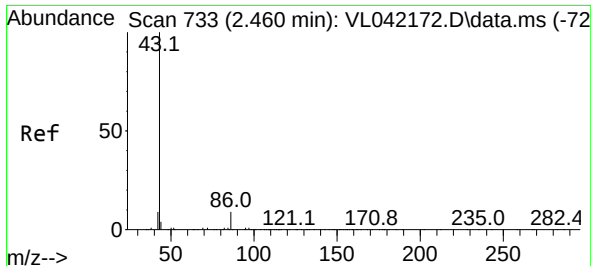
Ion Ratio Lower Upper

41 100

76 0.0 24.1 36.1#

39 0.0 61.1 91.7#

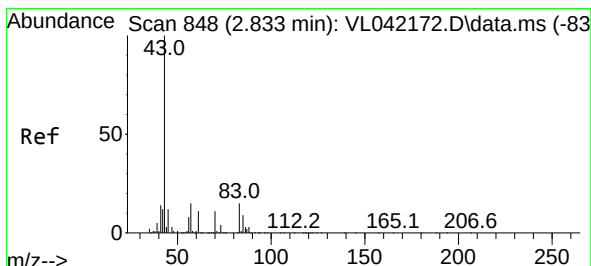
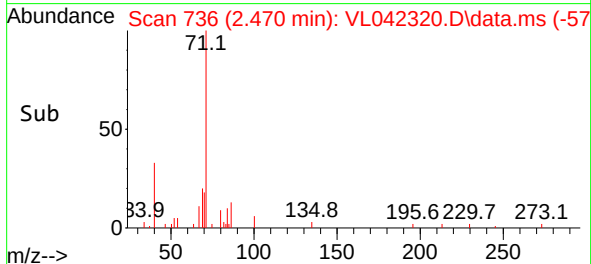
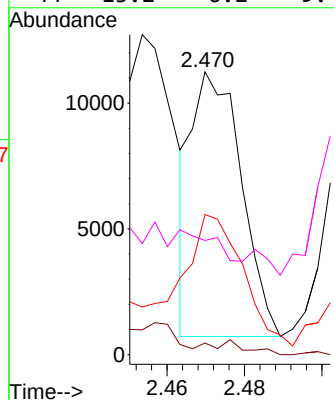
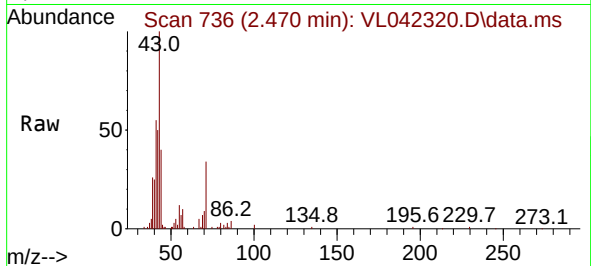




#23
Vinyl Acetate
Concen: 0.840 ppbv
RT: 2.470 min Scan# 71
Delta R.T. 0.010 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

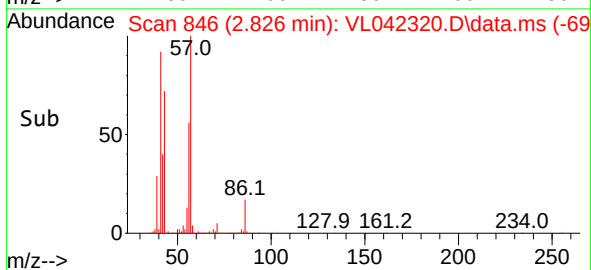
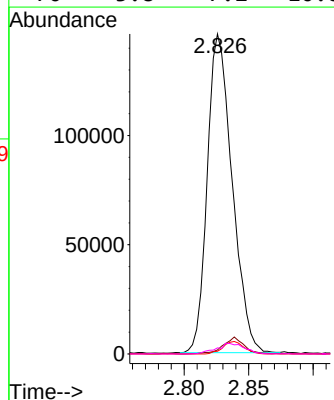
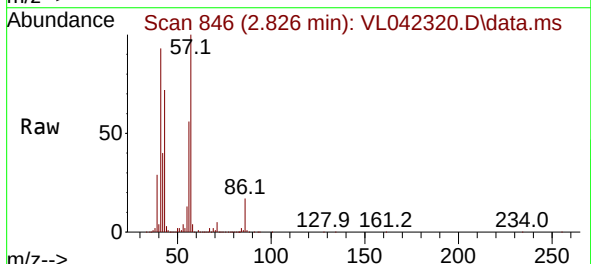
Instrument :
MSVOA_1
ClientSampleId :
IA-B10-1-3242025

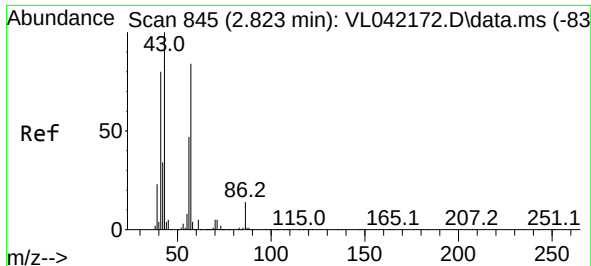
Tgt Ion:	43	Resp:	9354
Ion	Ratio	Lower	Upper
43	100		
86	4.4	5.5	8.3#
42	45.5	8.6	13.0#
44	13.2	6.2	9.4#



#25
Ethyl Acetate
Concen: 2.931 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.007 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

Tgt Ion:	43	Resp:	195625
Ion	Ratio	Lower	Upper
43	100		
45	4.7	8.2	12.2#
61	3.3	7.3	10.9#
70	3.8	7.2	10.8#

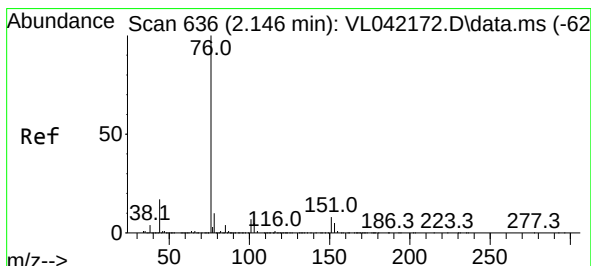
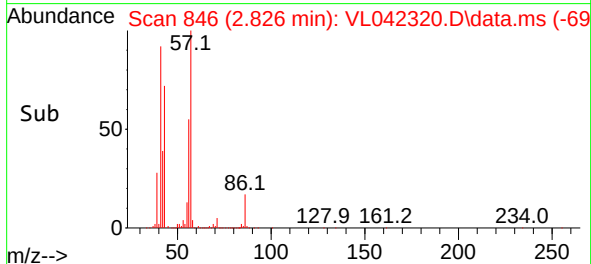
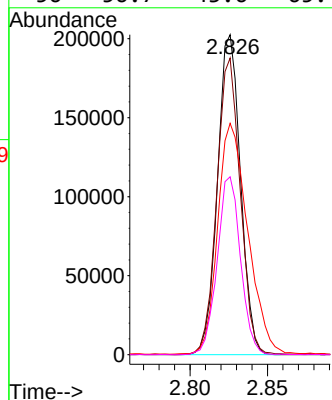
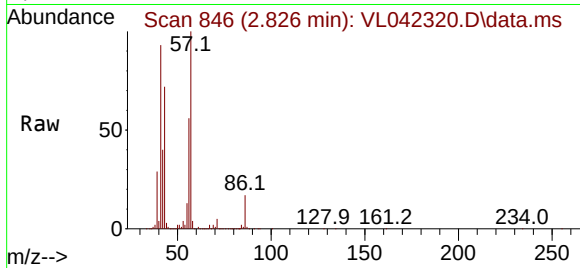




#26
Hexane
Concen: 8.094 ppbv
RT: 2.826 min Scan# 845
Delta R.T. 0.003 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

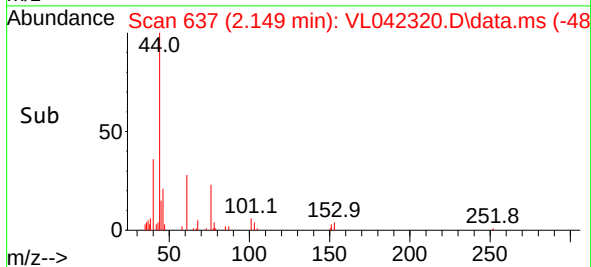
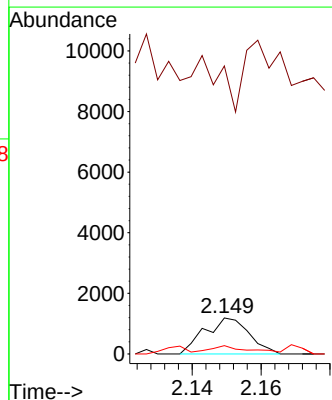
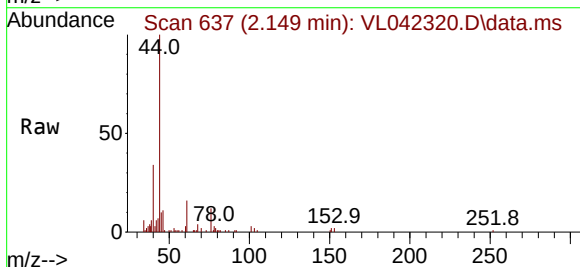
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-1-3242025

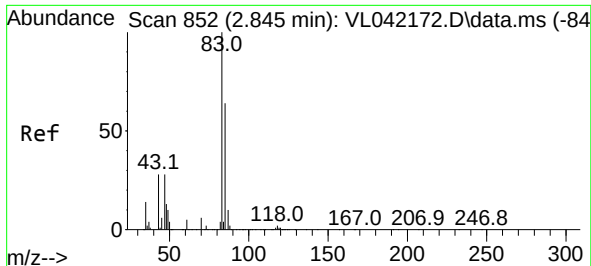
Tgt Ion: 57 Resp: 208675
Ion Ratio Lower Upper
57 100
41 94.9 76.6 114.8
43 94.7 207.8 311.8#
56 56.7 43.6 65.4



#27
Carbon Disulfide
Concen: 0.039 ppbv
RT: 2.149 min Scan# 637
Delta R.T. 0.003 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

Tgt Ion: 76 Resp: 1070
Ion Ratio Lower Upper
76 100
44 350.6 14.7 22.1#
78 31.0 9.3 13.9#





#29

Chloroform

Concen: 1.061 ppbv

RT: 2.848 min Scan# 81

Delta R.T. 0.003 min

Lab File: VL042320.D

Acq: 11 Apr 2025 15:01

Instrument :

MSVOA_L

ClientSampleId :

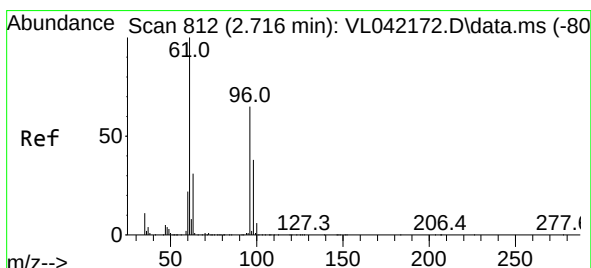
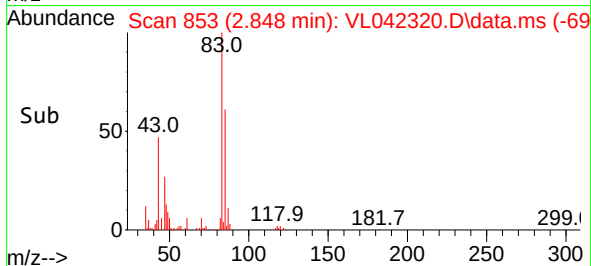
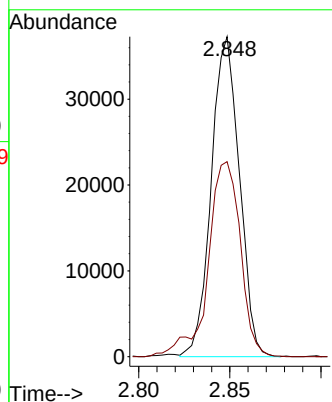
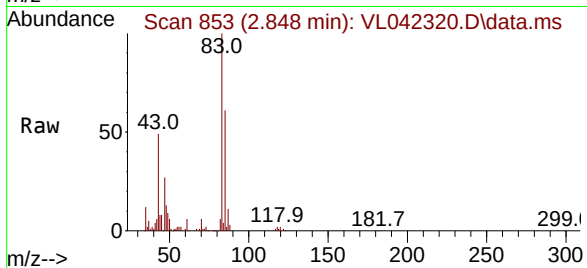
IA-B10-1-3242025

Tgt Ion: 83 Resp: 40045

Ion Ratio Lower Upper

83 100

85 60.9 51.4 77.2



#31

cis-1,2-Dichloroethene

Concen: 0.248 ppbv

RT: 2.839 min Scan# 850

Delta R.T. 0.123 min

Lab File: VL042320.D

Acq: 11 Apr 2025 15:01

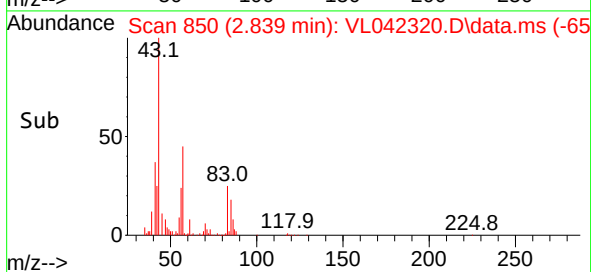
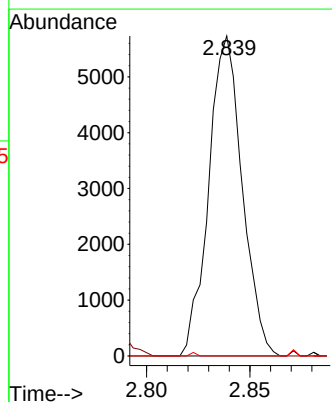
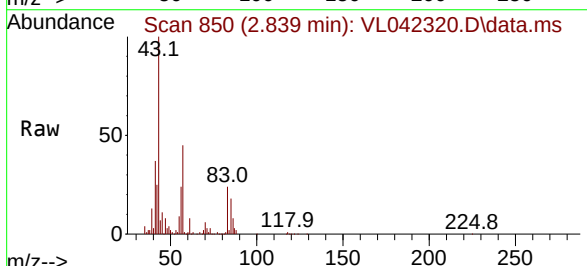
Tgt Ion: 61 Resp: 6478

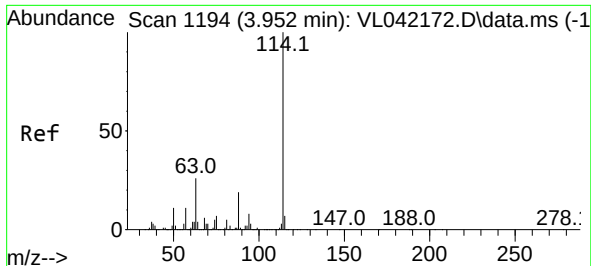
Ion Ratio Lower Upper

61 100

96 0.0 51.8 77.8#

98 0.0 30.6 46.0#

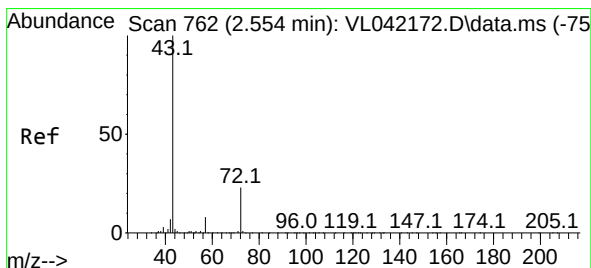
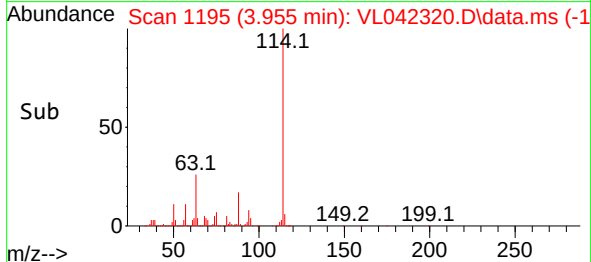
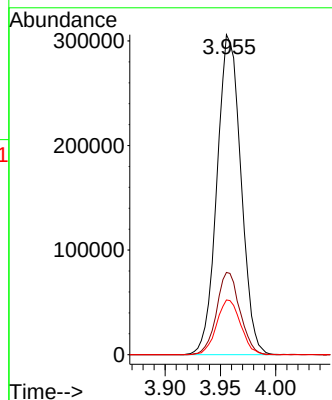
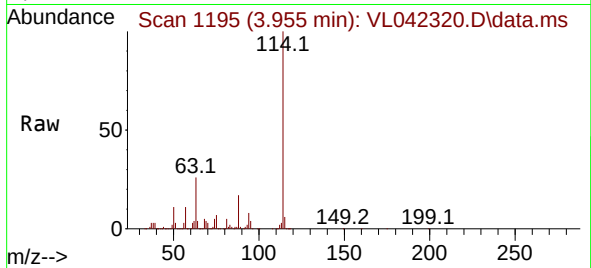




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.955 min Scan# 1195
 Delta R.T. 0.003 min
 Lab File: VL042320.D
 Acq: 11 Apr 2025 15:01

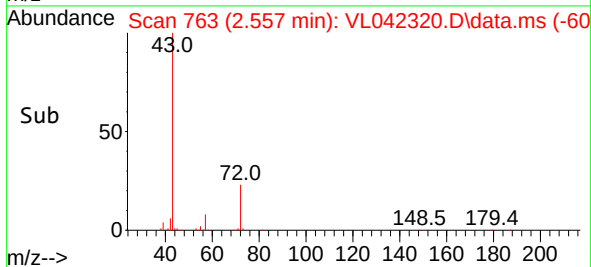
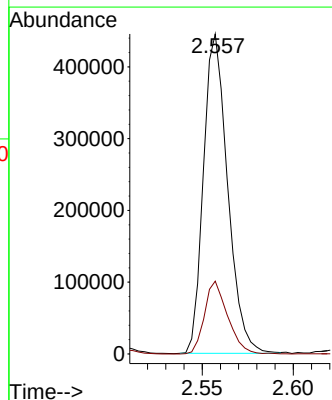
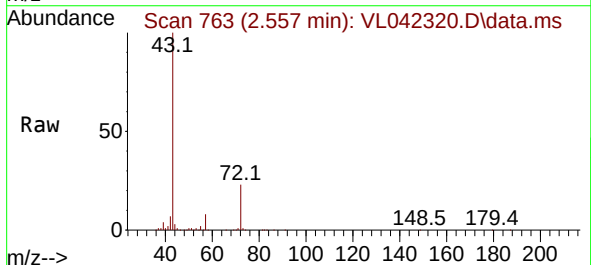
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B10-1-3242025

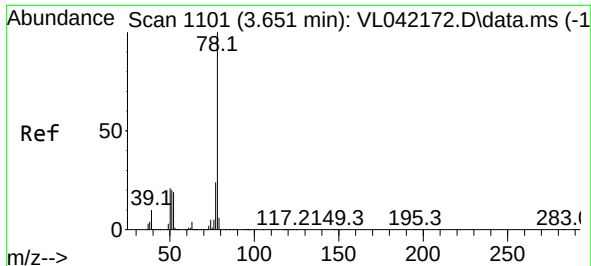
Tgt Ion:114 Resp: 460651
 Ion Ratio Lower Upper
 114 100
 63 25.2 20.7 31.1
 88 17.2 15.0 22.4



#34
 2-Butanone
 Concen: 12.316 ppbv
 RT: 2.557 min Scan# 763
 Delta R.T. 0.003 min
 Lab File: VL042320.D
 Acq: 11 Apr 2025 15:01

Tgt Ion: 43 Resp: 411404
 Ion Ratio Lower Upper
 43 100
 72 21.9 18.2 27.2

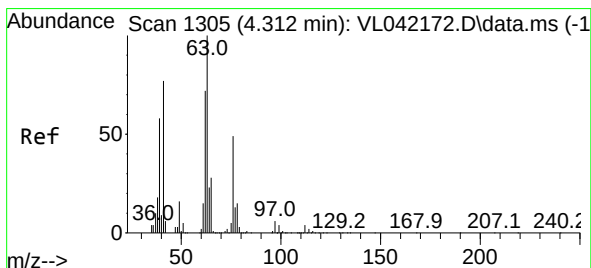
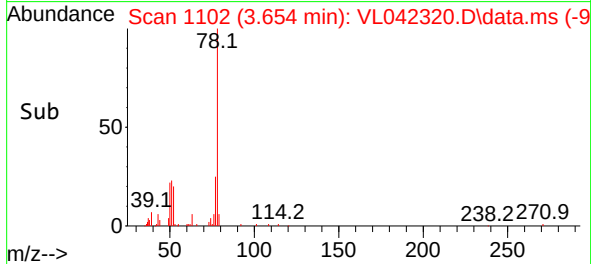
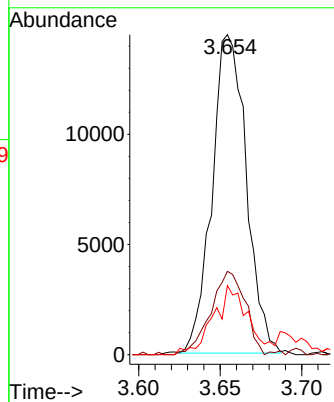
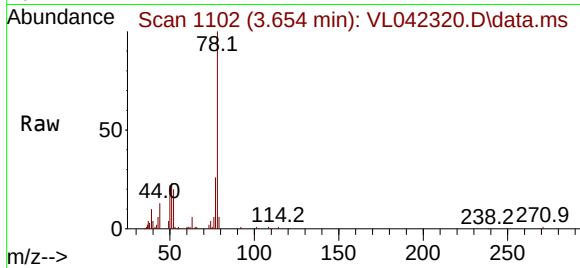




#36
Benzene
Concen: 0.463 ppbv
RT: 3.654 min Scan# 1101
Delta R.T. 0.003 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

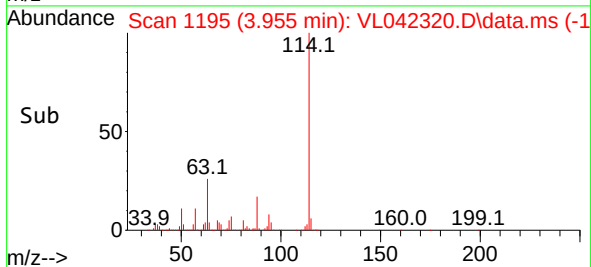
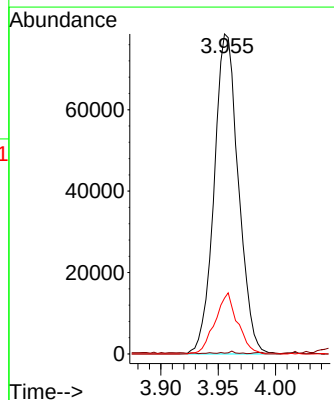
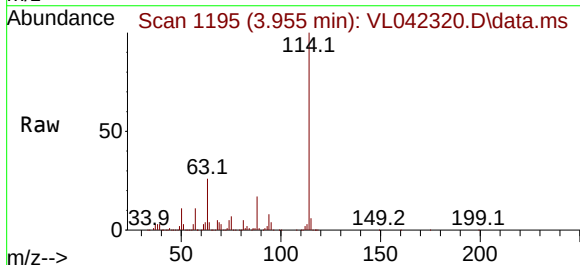
Instrument :
MSVOA_1
ClientSampleId :
IA-B10-1-3242025

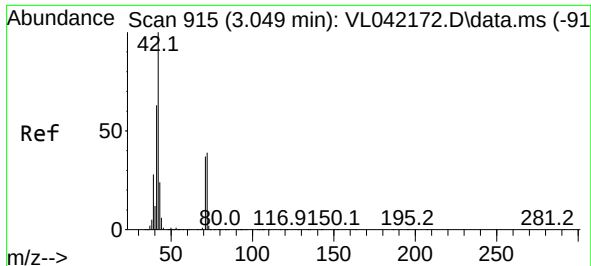
Tgt Ion:	78	Resp:	21158
Ion	Ratio	Lower	Upper
78	100		
77	25.2	19.1	28.7
50	19.8	16.6	24.8



#39
1,2-Dichloropropane
Concen: 6.958 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. -0.356 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

Tgt Ion:	63	Resp:	115727
Ion	Ratio	Lower	Upper
63	100		
41	0.2	61.7	92.5#
62	17.4	57.6	86.4#

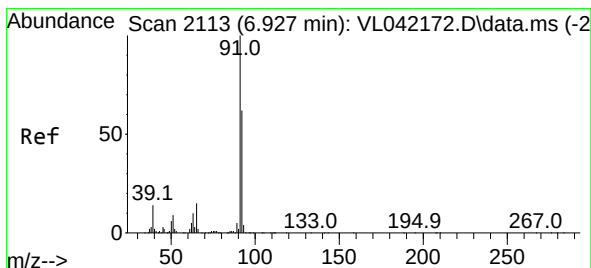
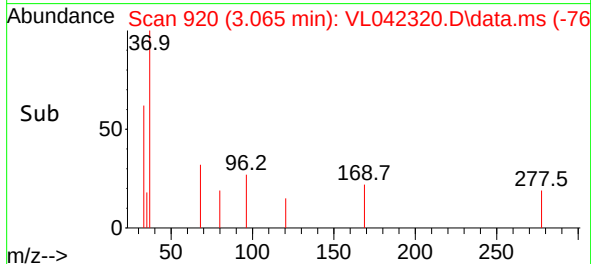
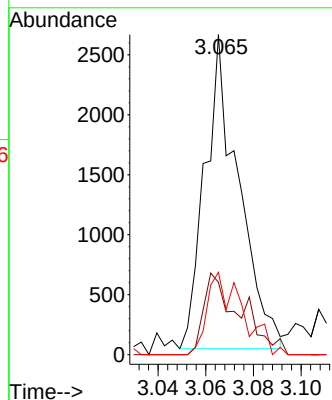
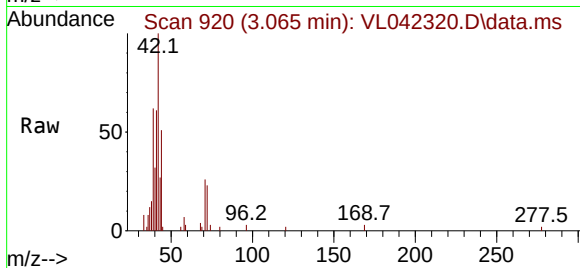




#41
Tetrahydrofuran
Concen: 0.133 ppbv
RT: 3.065 min Scan# 91
Delta R.T. 0.016 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

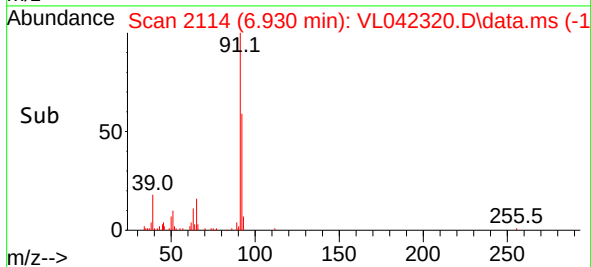
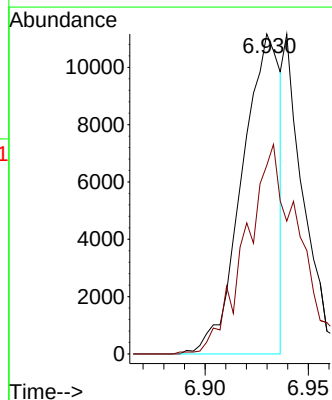
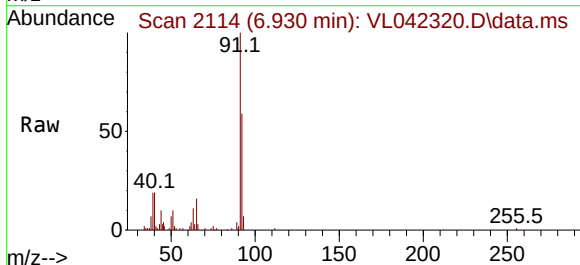
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-1-3242025

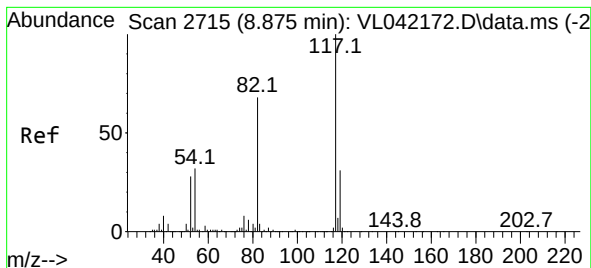
Tgt Ion: 42 Resp: 2565
Ion Ratio Lower Upper
42 100
72 0.0 31.4 47.0#
71 27.4 30.2 45.4#



#53
Toluene
Concen: 0.263 ppbv
RT: 6.930 min Scan# 2114
Delta R.T. 0.003 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

Tgt Ion: 91 Resp: 14263
Ion Ratio Lower Upper
91 100
92 91.7 48.4 72.6#





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.882 min Scan# 21

Delta R.T. 0.006 min

Lab File: VL042320.D

Acq: 11 Apr 2025 15:01

Instrument :

MSVOA_1

ClientSampleId :

IA-B10-1-3242025

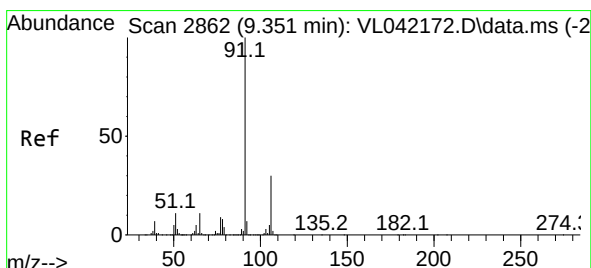
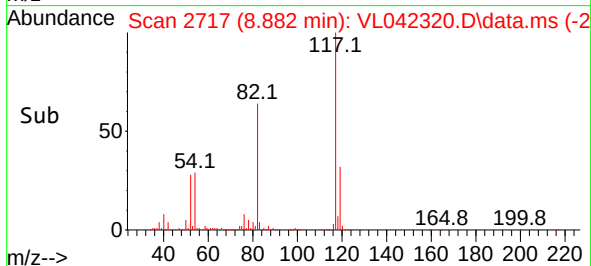
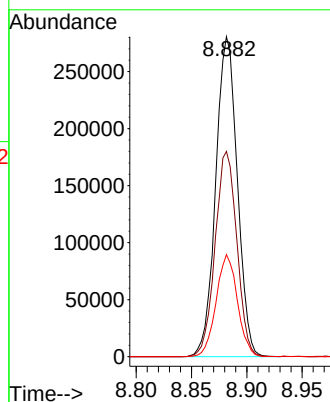
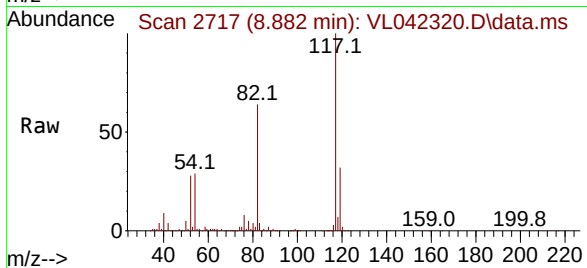
Tgt Ion:117 Resp: 381290

Ion Ratio Lower Upper

117 100

82 64.4 55.8 83.6

119 31.5 25.5 38.3



#58

Ethyl Benzene

Concen: 0.032 ppbv

RT: 9.552 min Scan# 2924

Delta R.T. 0.200 min

Lab File: VL042320.D

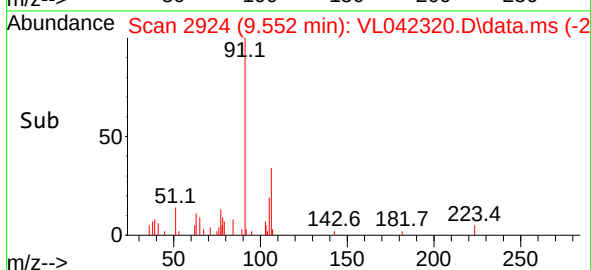
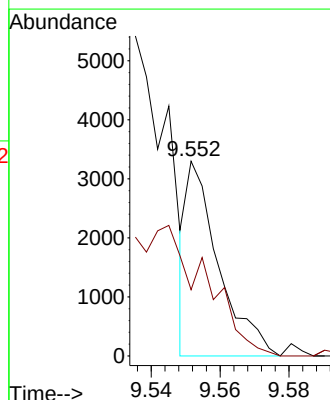
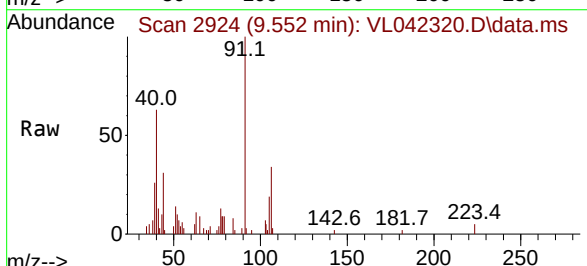
Acq: 11 Apr 2025 15:01

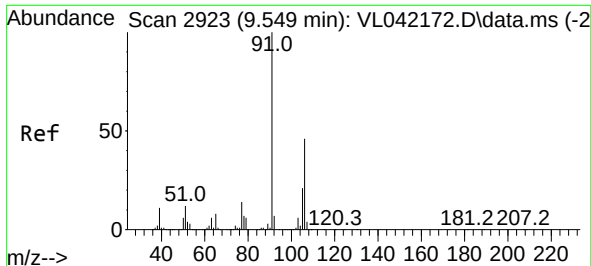
Tgt Ion: 91 Resp: 2141

Ion Ratio Lower Upper

91 100

106 32.9 24.2 36.2

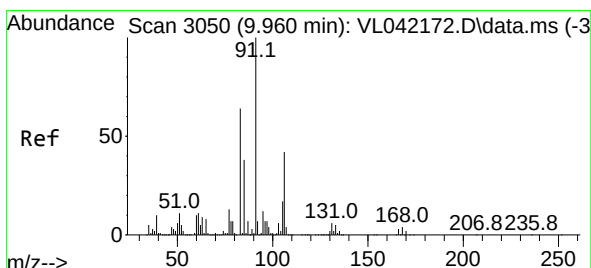
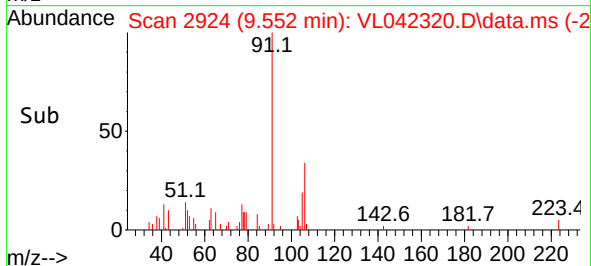
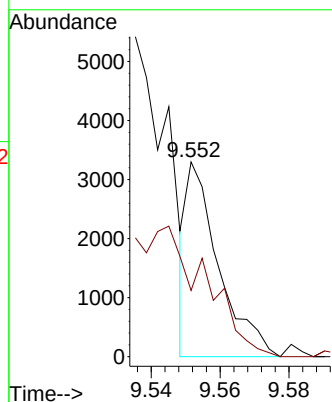
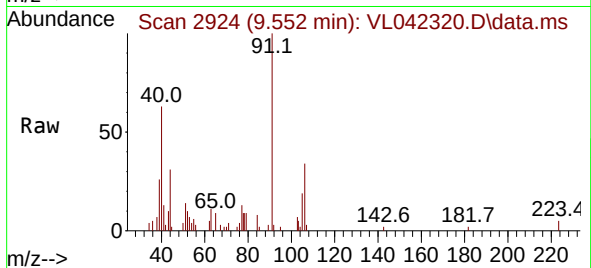




#59
m/p-Xylene
Concen: 0.040 ppbv
RT: 9.552 min Scan# 2924
Delta R.T. 0.003 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

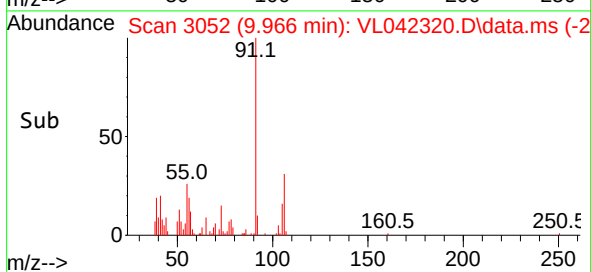
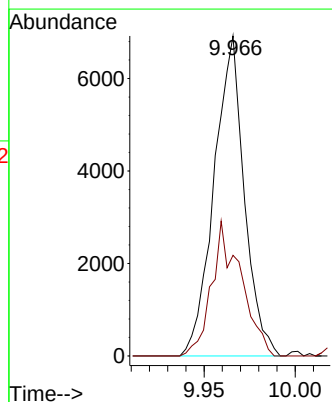
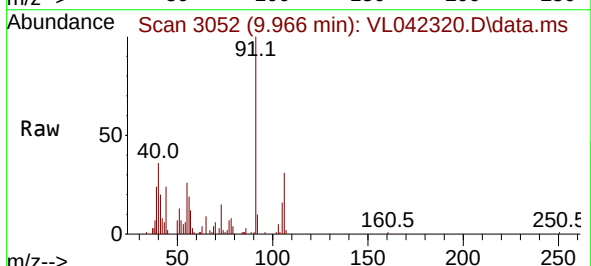
Instrument :
MSVOA_1
ClientSampleId :
IA-B10-1-3242025

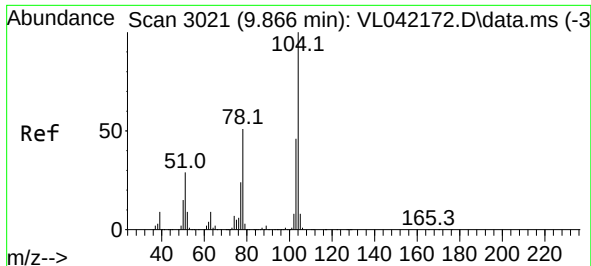
Tgt Ion: 91 Resp: 2141
Ion Ratio Lower Upper
91 100
106 0.0 36.4 54.6#



#60
o-Xylene
Concen: 0.147 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. 0.006 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

Tgt Ion: 91 Resp: 7975
Ion Ratio Lower Upper
91 100
106 41.2 20.8 62.5

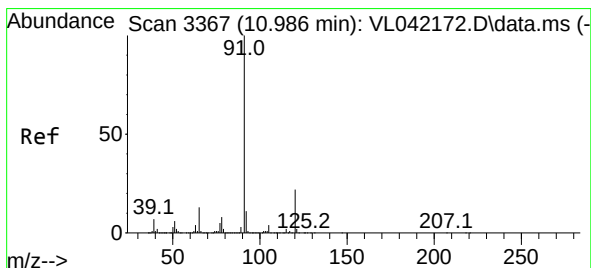
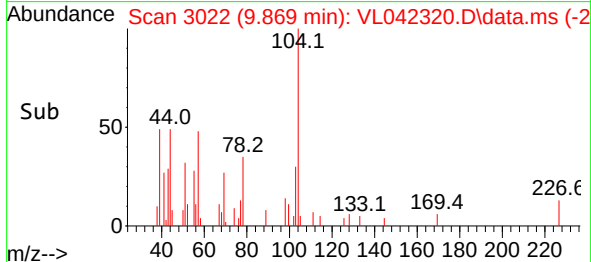
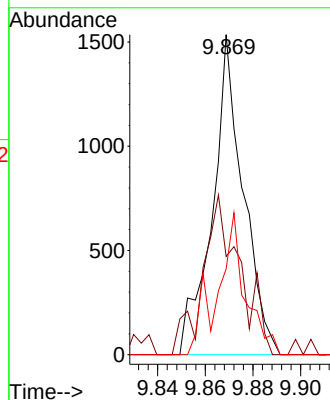
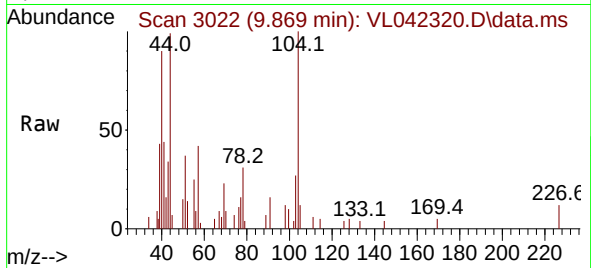




#61
Styrene
Concen: 0.051 ppbv
RT: 9.869 min Scan# 3021
Delta R.T. 0.003 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

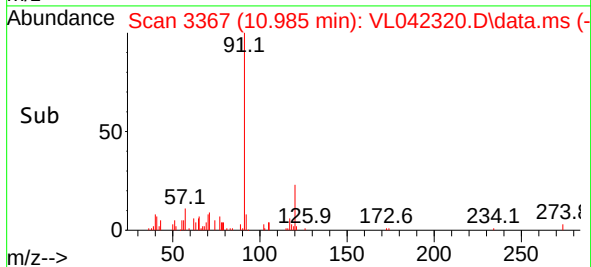
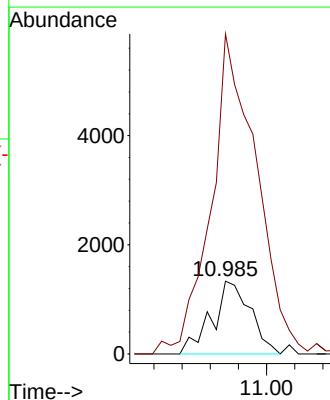
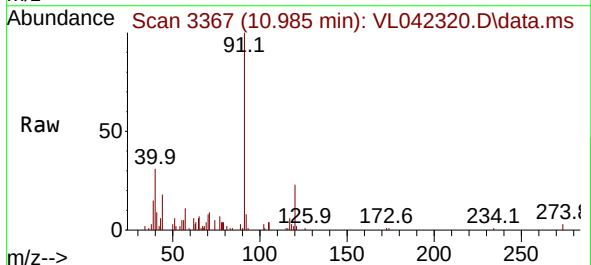
Instrument :
MSVOA_1
ClientSampleId :
IA-B10-1-3242025

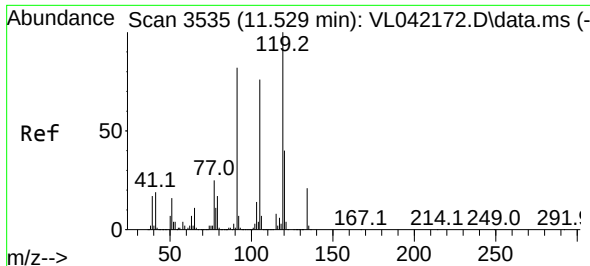
Tgt Ion:104 Resp: 1381
Ion Ratio Lower Upper
104 100
78 65.4 41.8 62.6#
103 40.7 37.0 55.4



#64
n-propylbenzene
Concen: 0.060 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. -0.000 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

Tgt Ion:120 Resp: 1262
Ion Ratio Lower Upper
120 100
91 530.8 376.9 565.3

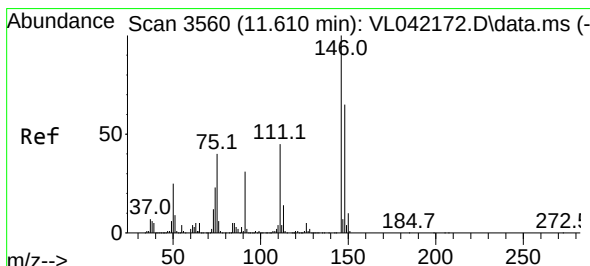
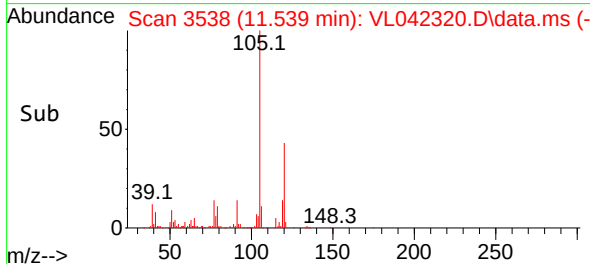
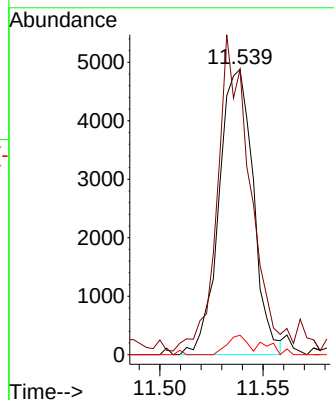
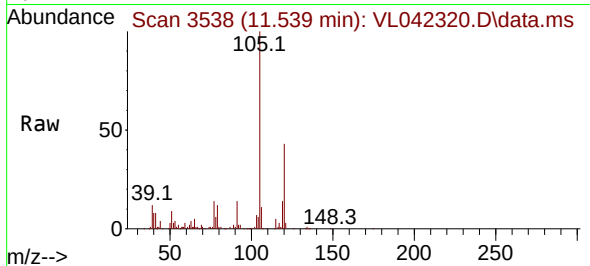




#65
tert-Butylbenzene
Concen: 0.075 ppbv
RT: 11.539 min Scan# 3535
Delta R.T. 0.009 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

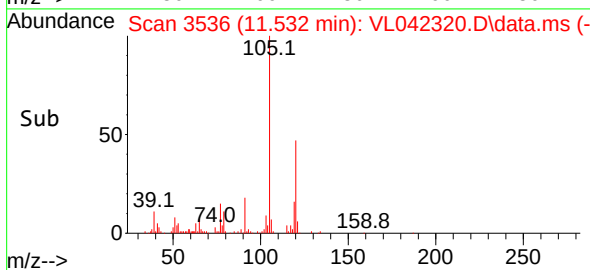
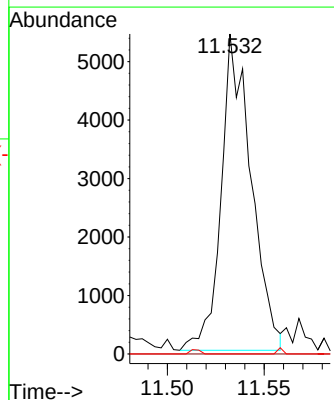
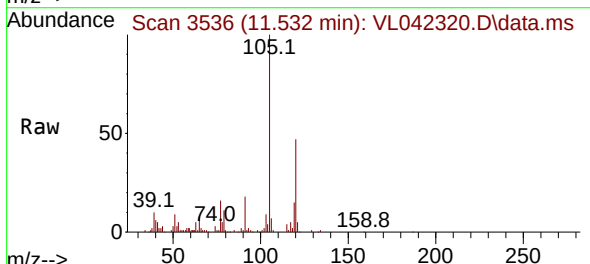
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-1-3242025

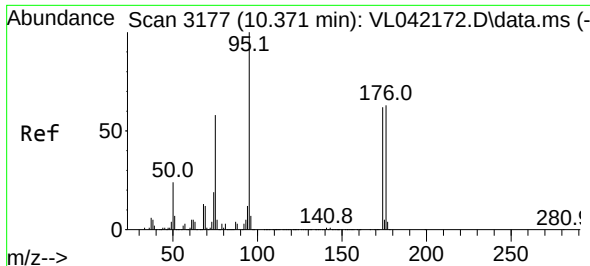
Tgt Ion	Ratio	Lower	Upper
119	100		
91	108.4	66.0	99.0#
134	6.2	16.7	25.1#



#66
Benzyl Chloride
Concen: 0.733 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. -0.078 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

Tgt Ion	Ratio	Lower	Upper
91	100		
126	0.0	13.8	20.6#
128	0.5	4.5	6.7#

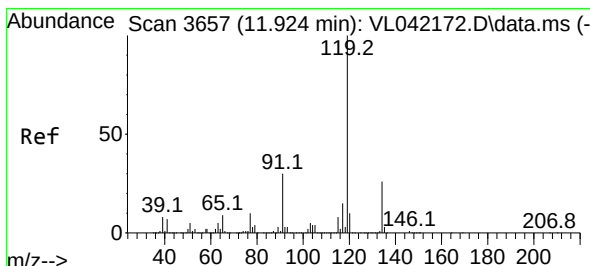
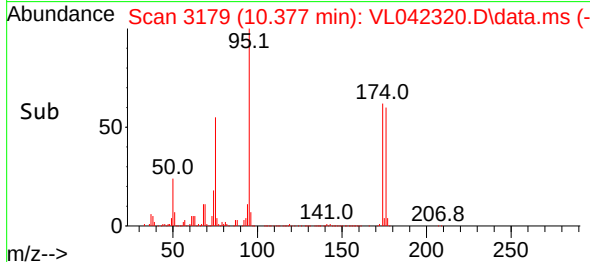
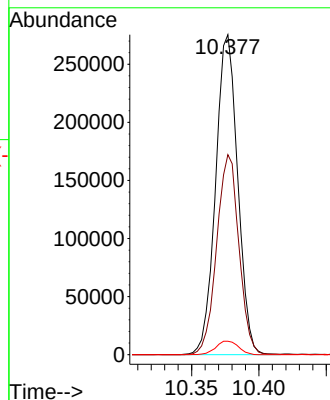
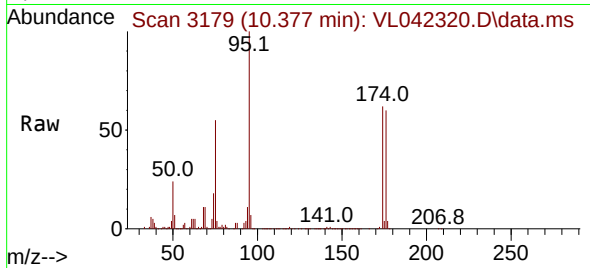




#68
1-Bromo-4-Fluorobenzene
Concen: 10.030 ppbv
RT: 10.377 min Scan# 3177
Delta R.T. 0.006 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

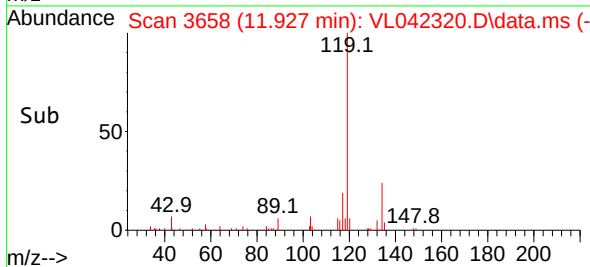
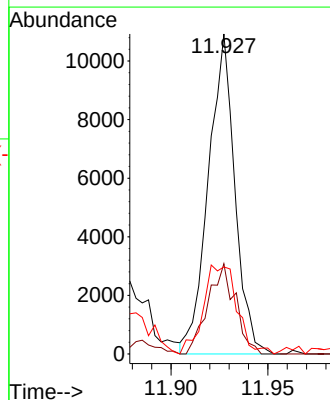
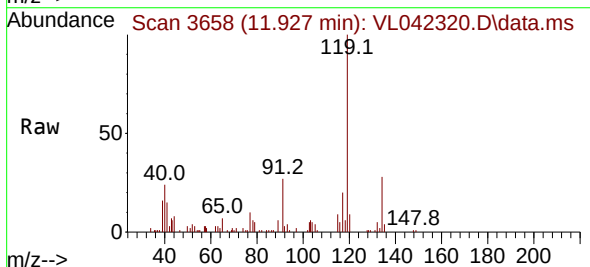
Instrument :
MSVOA_1
ClientSampleId :
IA-B10-1-3242025

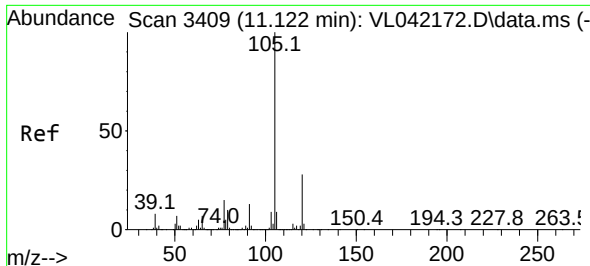
Tgt Ion: 95 Resp: 314052
Ion Ratio Lower Upper
95 100
174 63.2 50.6 76.0
175 4.3 3.8 5.6



#69
p-Isopropyltoluene
Concen: 0.116 ppbv
RT: 11.927 min Scan# 3658
Delta R.T. 0.003 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

Tgt Ion: 119 Resp: 10393
Ion Ratio Lower Upper
119 100
134 33.8 20.4 30.6#
91 32.3 23.7 35.5

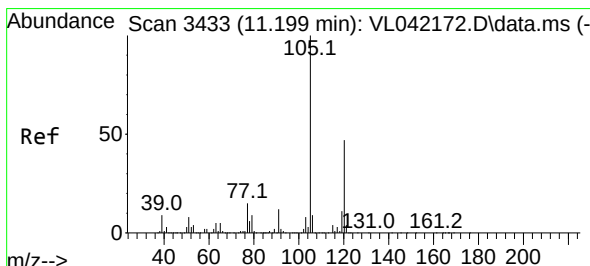
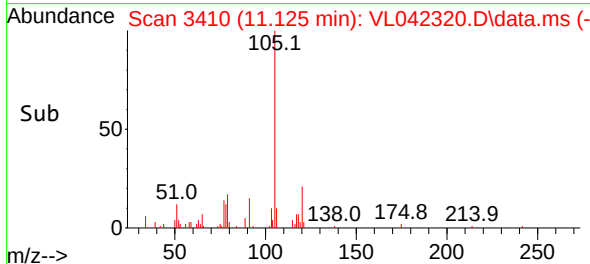
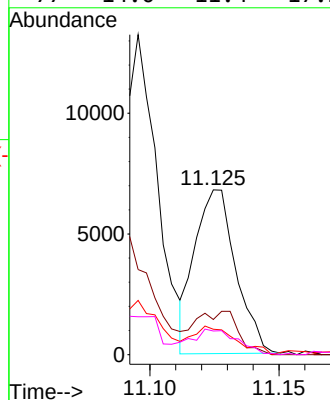
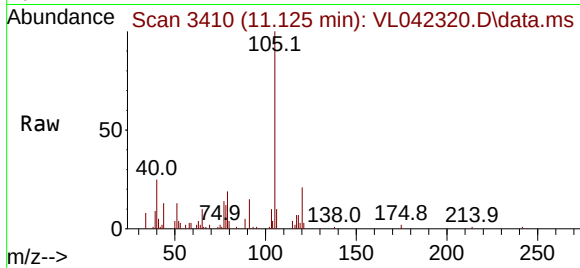




#72
4-Ethyltoluene
Concen: 0.111 ppbv
RT: 11.125 min Scan# 3409
Delta R.T. 0.003 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

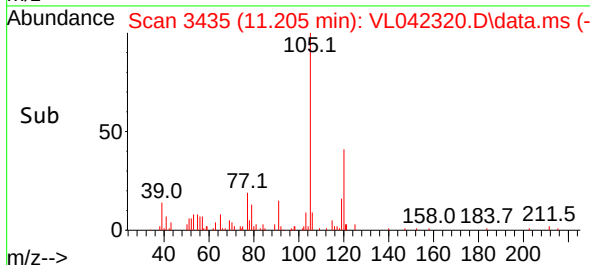
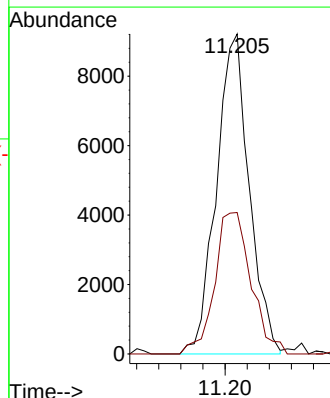
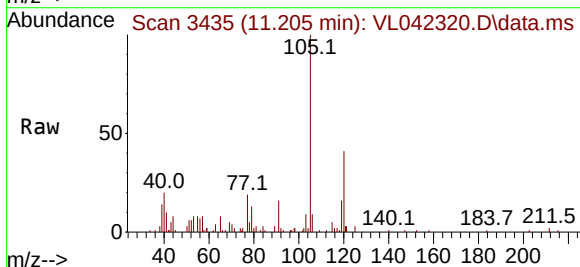
Instrument :
MSVOA_1
ClientSampleId :
IA-B10-1-3242025

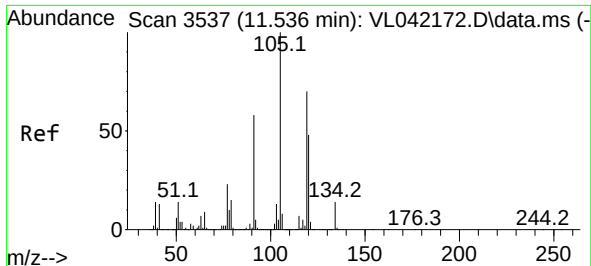
Tgt Ion:105	Resp:	7507
Ion Ratio	Lower	Upper
105	100	
120	0.0	23.4 35.0#
91	0.0	10.3 15.5#
77	14.0	11.4 17.2



#73
1,3,5-Trimethylbenzene
Concen: 0.161 ppbv
RT: 11.205 min Scan# 3435
Delta R.T. 0.006 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

Tgt Ion:105	Resp:	9483
Ion Ratio	Lower	Upper
105	100	
120	44.2	37.4 56.0

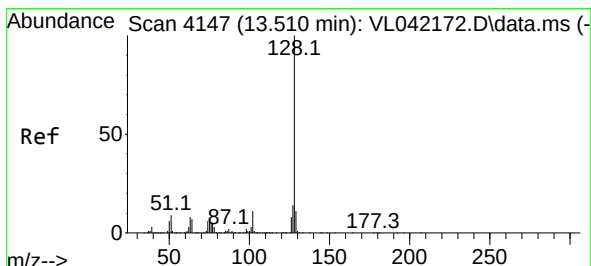
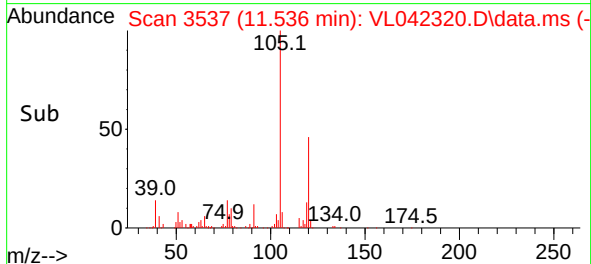
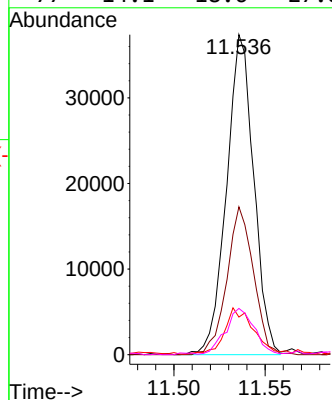
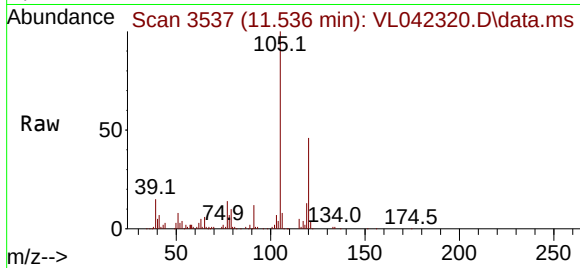




#74
1,2,4-Trimethylbenzene
Concen: 0.571 ppbv
RT: 11.536 min Scan# 31
Delta R.T. -0.000 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

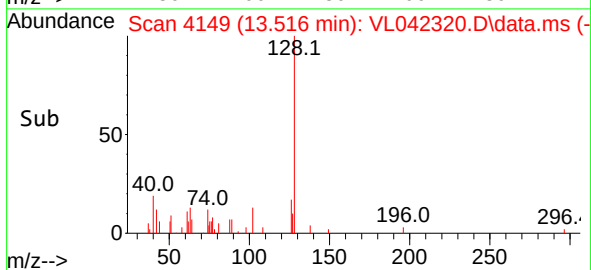
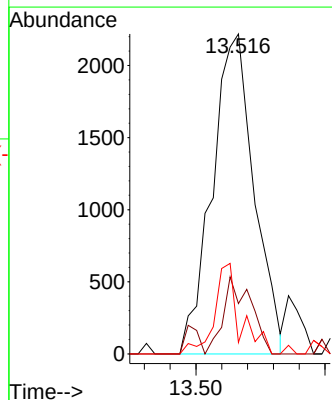
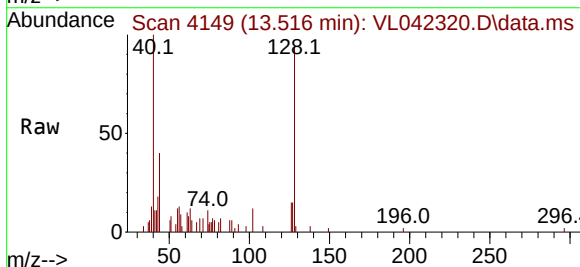
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-1-3242025

Tgt Ion:	105	Resp:	38801
Ion	Ratio	Lower	Upper
105	100		
120	46.2	38.6	58.0
91	11.5	46.2	69.2#
77	14.1	18.6	27.8#



#79
Naphthalene
Concen: 0.034 ppbv
RT: 13.516 min Scan# 4149
Delta R.T. 0.006 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

Tgt Ion:	128	Resp:	2510
Ion	Ratio	Lower	Upper
128	100		
127	15.7	10.8	16.2
129	3.6	9.0	13.4#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
 Data File : VL042321.D
 Acq On : 11 Apr 2025 15:36
 Operator : SY/MD
 Sample : Q1665-18
 Misc : 400mL/MSVOA_L
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B10-3-3242025

Quant Time: Apr 11 23:01:40 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

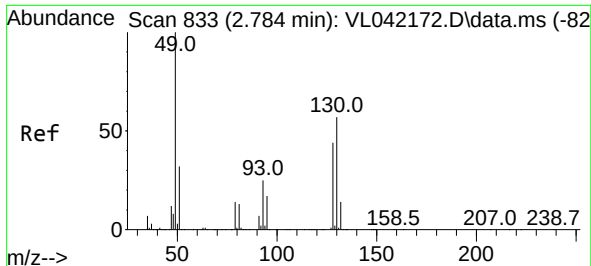
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.787	49	184452	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	454008	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	391031	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	301415	9.386	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.900%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	11984	0.440	ppbv	90
3) Chlorodifluoromethane	1.466	51	80648	2.899	ppbv #	63
4) Chloromethane	1.531	50	6779	0.609	ppbv	99
6) Bromomethane	1.667	94	157	0.031	ppbv #	66
7) Chloroethane	1.703	64	318	0.071	ppbv #	43
9) Propene	1.887	41	128515	10.078	ppbv	87
10) Heptane	4.975	43	3329	0.098	ppbv #	28
11) Trichlorofluoromethane	1.877	101	5150	0.194	ppbv	94
12) 1,1,2-Trichlorotrifluo...	2.136	101	1356	0.062	ppbv	97
13) Ethanol	1.722	45	1721714	1428.217	ppbv	97
15) Acetone	1.832	43	2336283	90.565	ppbv #	69
16) 1,3-Butadiene	1.599	39	7032	0.558	ppbv #	35
17) tert-Butyl alcohol	1.887	59	51633	1.607	ppbv	95
19) Isopropyl Alcohol	1.887	45	1254135	86.165	ppbv #	41
20) Methylene Chloride	2.062	84	8636	0.899	ppbv #	76
21) Allyl Chloride	2.046	41	5656	0.311	ppbv #	31
23) Vinyl Acetate	2.457	43	22621	2.026	ppbv #	90
25) Ethyl Acetate	2.836	43	173110	2.586	ppbv	98
26) Hexane	2.826	57	70462	2.725	ppbv	92
27) Carbon Disulfide	2.149	76	1144	0.041	ppbv #	1
29) Chloroform	2.848	83	55947	1.478	ppbv	100
31) cis-1,2-Dichloroethene	2.836	61	15260	0.581	ppbv #	25
34) 2-Butanone	2.557	43	746435	22.673	ppbv	99
35) Carbon Tetrachloride	3.764	117	2821	0.080	ppbv #	68
36) Benzene	3.654	78	30723	0.683	ppbv	95
39) 1,2-Dichloropropane	3.959	63	116117	7.084	ppbv #	23
41) Tetrahydrofuran	3.062	42	3180	0.168	ppbv #	54
50) 4-Methyl-2-Pentanone	5.755	43	6238	0.120	ppbv #	39
51) 2-Hexanone	7.448	43	2209	0.052	ppbv #	28
53) Toluene	6.933	91	28699	0.538	ppbv	98
58) Ethyl Benzene	9.357	91	4656	0.067	ppbv	98
60) o-Xylene	9.969	91	2749	0.049	ppbv #	3
61) Styrene	9.875	104	2355	0.086	ppbv #	83
66) Benzyl Chloride	11.432	91	3998	0.490	ppbv #	69
69) p-Isopropyltoluene	11.927	119	10463	0.114	ppbv #	93
72) 4-Ethyltoluene	11.125	105	2438	0.035	ppbv #	83
74) 1,2,4-Trimethylbenzene	11.536	105	10882	0.156	ppbv #	68
79) Naphthalene	13.516	128	3524	0.046	ppbv #	92

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

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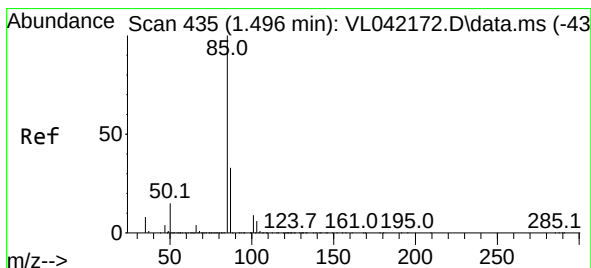
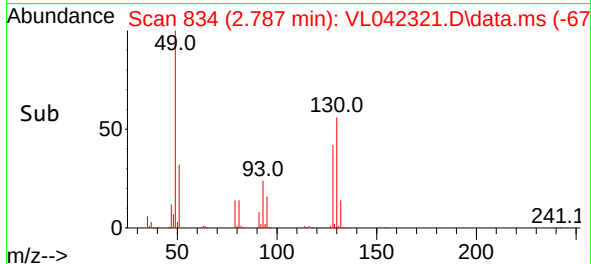
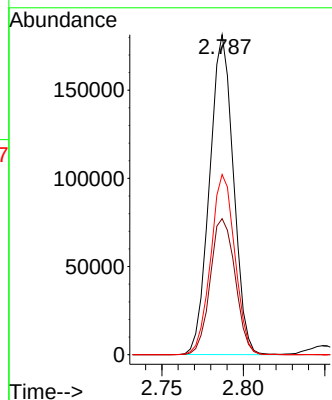
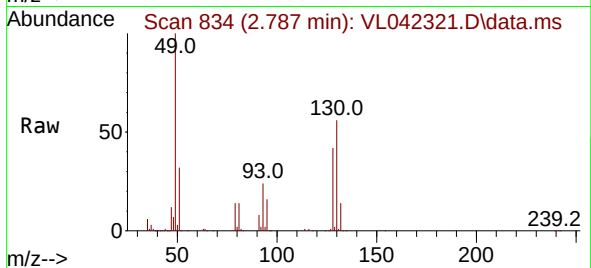




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

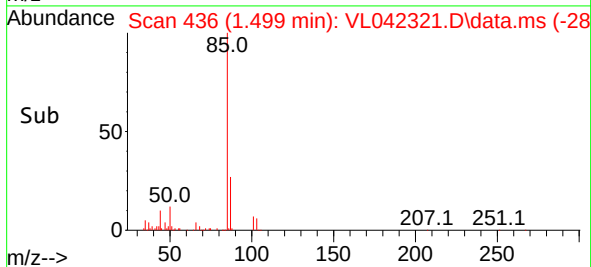
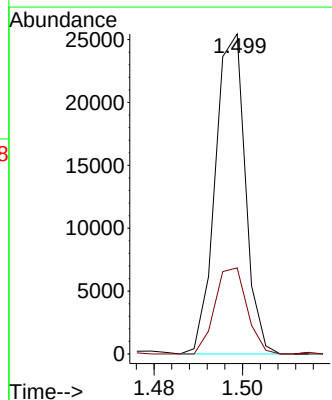
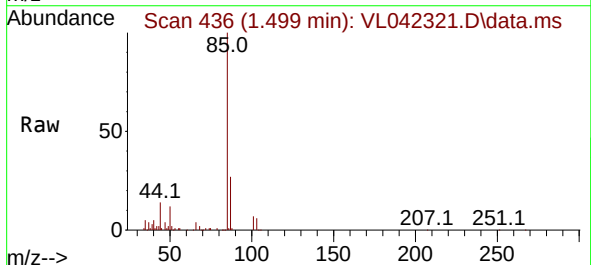
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-3-3242025

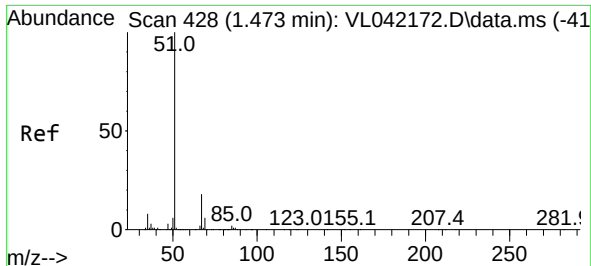
Tgt Ion: 49 Resp: 184452
Ion Ratio Lower Upper
49 100
128 44.5 22.9 68.5
130 57.1 28.8 86.4



#2
Dichlorodifluoromethane
Concen: 0.440 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

Tgt Ion: 85 Resp: 11984
Ion Ratio Lower Upper
85 100
87 26.9 26.1 39.1

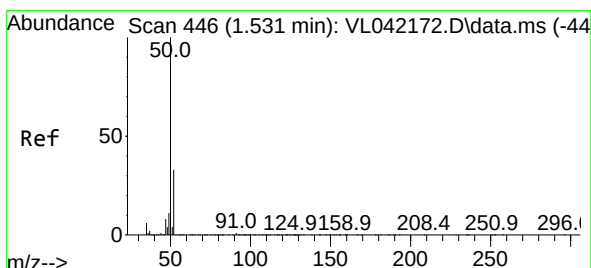
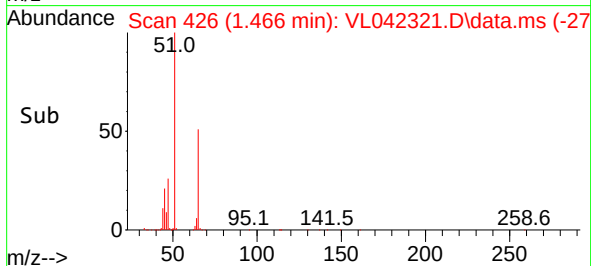
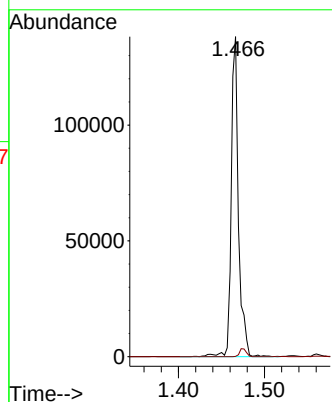
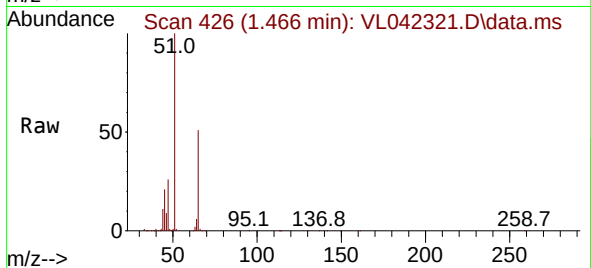




#3
Chlorodifluoromethane
Concen: 2.899 ppbv
RT: 1.466 min Scan# 41
Delta R.T. -0.007 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

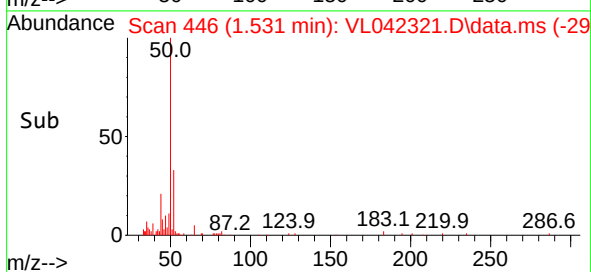
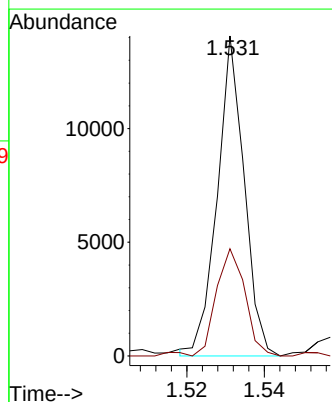
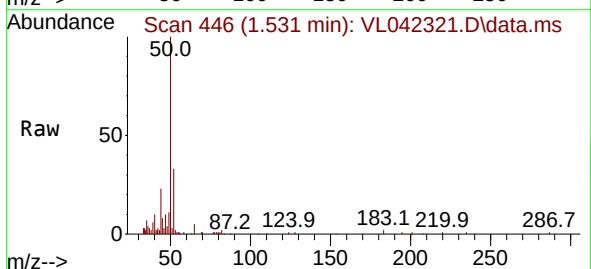
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-3-3242025

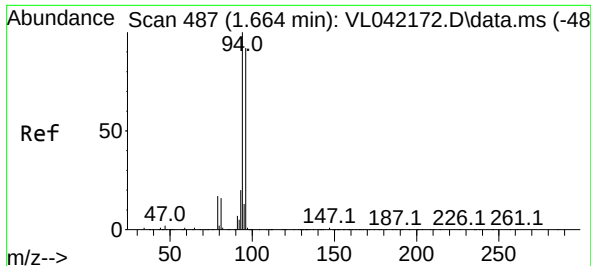
Tgt Ion: 51 Resp: 80648
Ion Ratio Lower Upper
51 100
67 2.3 15.0 22.6#



#4
Chloromethane
Concen: 0.609 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

Tgt Ion: 50 Resp: 6779
Ion Ratio Lower Upper
50 100
52 33.0 26.1 39.1

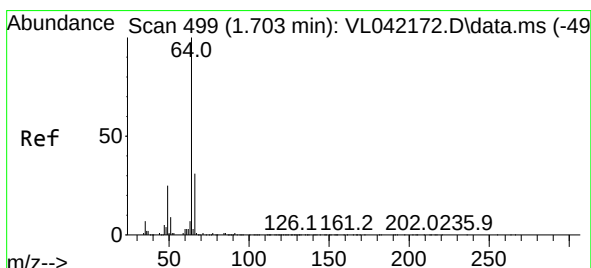
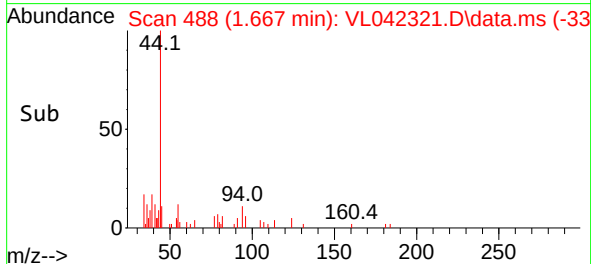
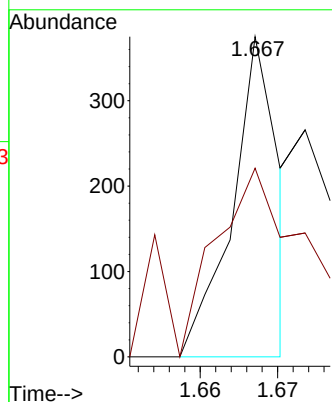
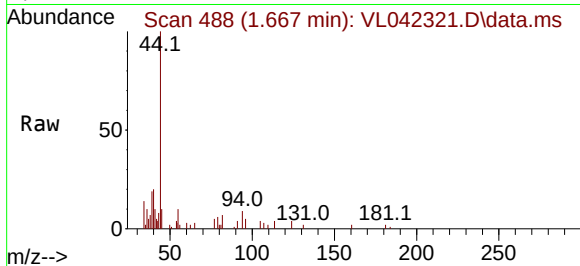




#6
Bromomethane
Concen: 0.031 ppbv
RT: 1.667 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

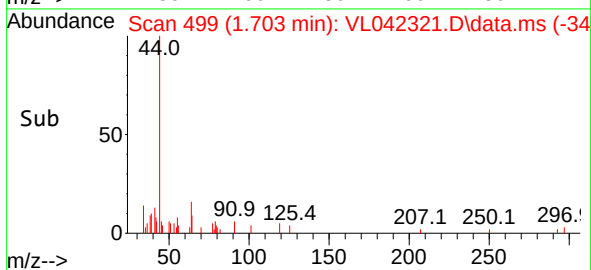
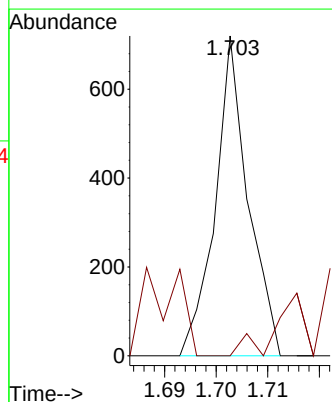
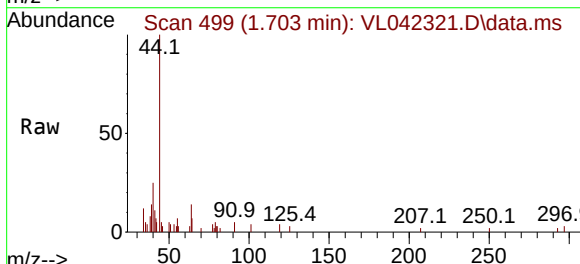
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ClientSampleId :
IA-B10-3-3242025

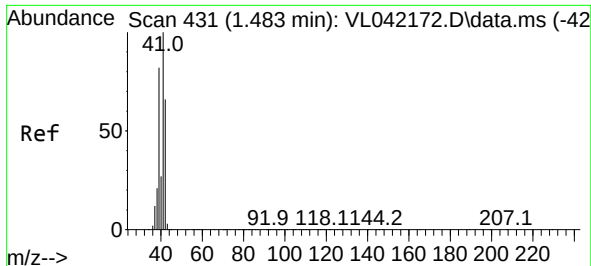
Tgt Ion: 94 Resp: 157
Ion Ratio Lower Upper
94 100
96 58.9 73.1 109.7#



#7
Chloroethane
Concen: 0.071 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

Tgt Ion: 64 Resp: 318
Ion Ratio Lower Upper
64 100
66 0.0 25.2 37.8#

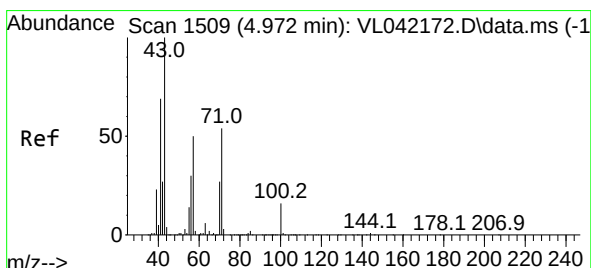
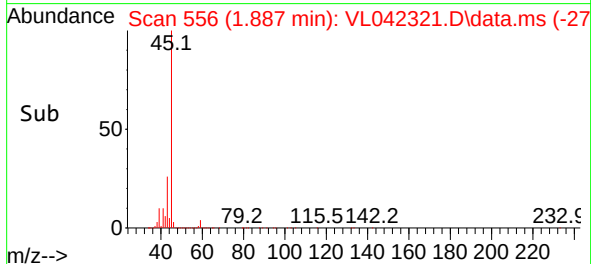
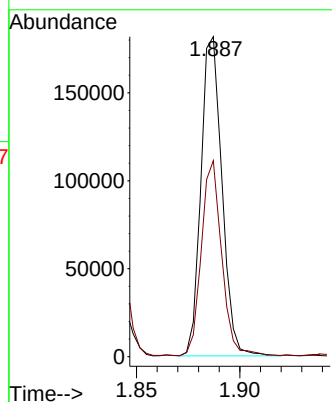
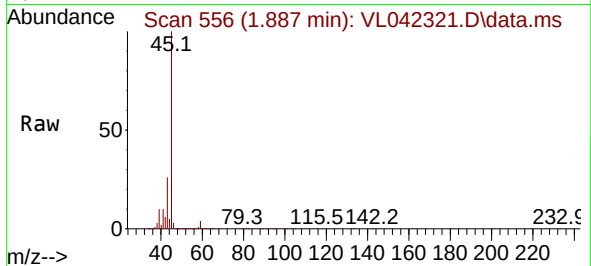




#9
 Propene
 Concen: 10.078 ppbv
 RT: 1.887 min Scan# 51
 Delta R.T. 0.404 min
 Lab File: VL042321.D
 Acq: 11 Apr 2025 15:36

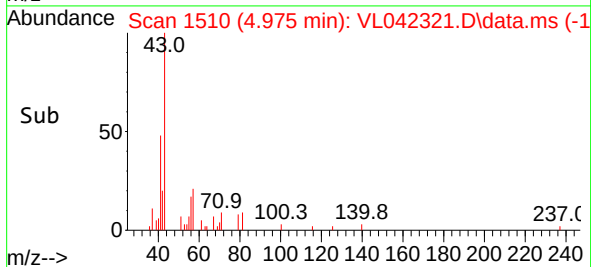
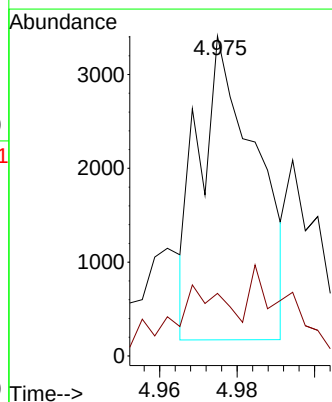
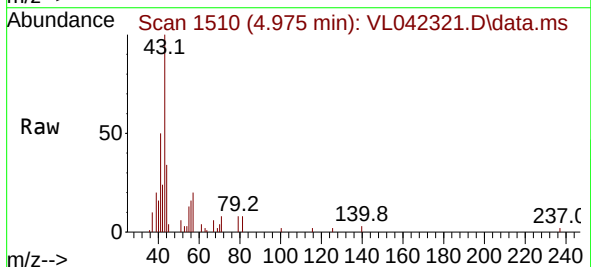
Instrument :
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 ClientSampleId :
 IA-B10-3-3242025

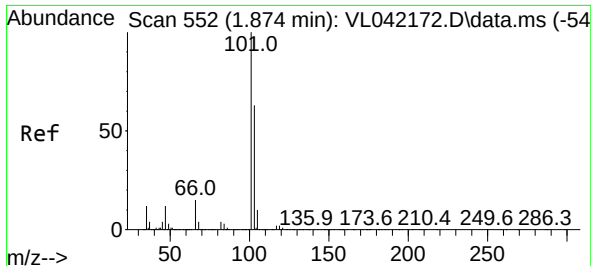
Tgt Ion: 41 Resp: 128515
 Ion Ratio Lower Upper
 41 100
 42 58.8 55.4 83.2



#10
 Heptane
 Concen: 0.098 ppbv
 RT: 4.975 min Scan# 1510
 Delta R.T. 0.003 min
 Lab File: VL042321.D
 Acq: 11 Apr 2025 15:36

Tgt Ion: 43 Resp: 3329
 Ion Ratio Lower Upper
 43 100
 57 0.0 39.4 59.2#

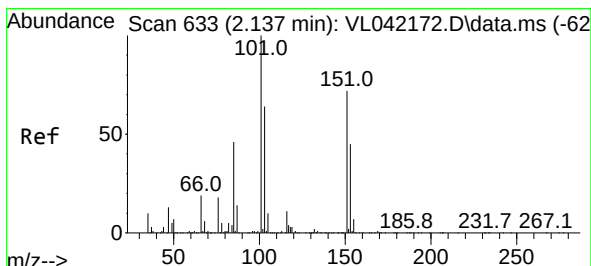
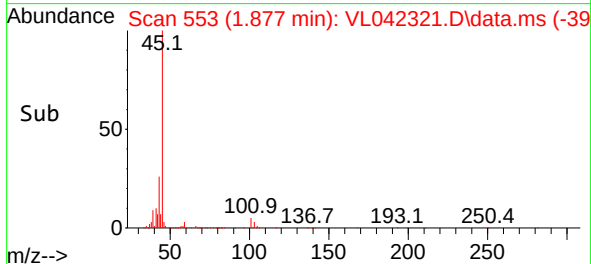
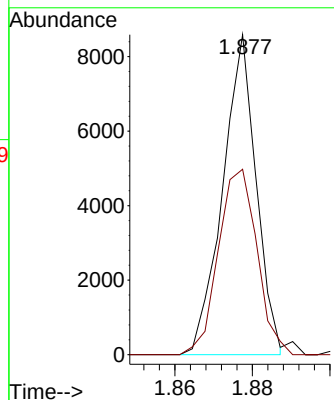
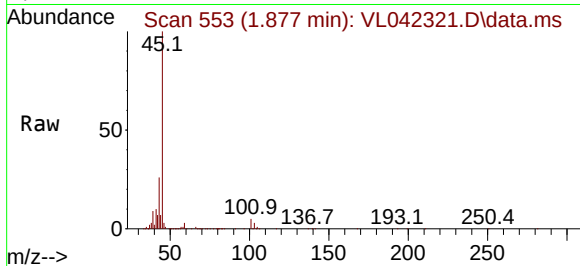




#11
 Trichlorofluoromethane
 Concen: 0.194 ppbv
 RT: 1.877 min Scan# 511
 Delta R.T. 0.003 min
 Lab File: VL042321.D
 Acq: 11 Apr 2025 15:36

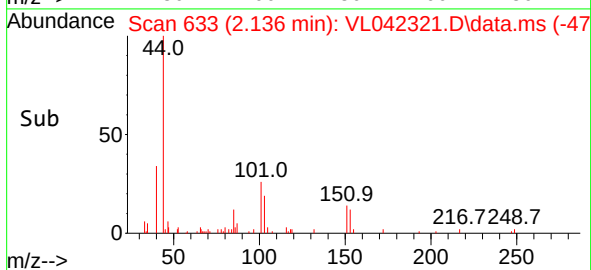
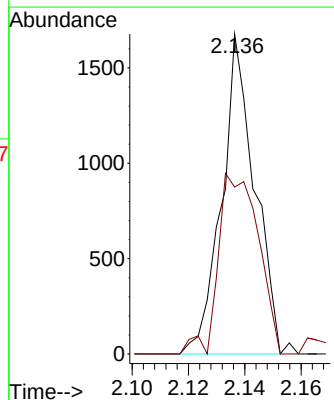
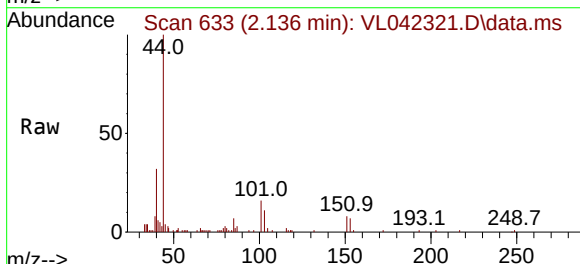
Instrument :
 MSVOA_1
 ClientSampleId :
 IA-B10-3-3242025

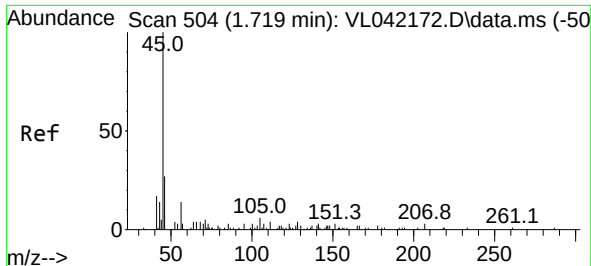
Tgt Ion:101 Resp: 5150
 Ion Ratio Lower Upper
 101 100
 103 58.0 50.2 75.2



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.062 ppbv
 RT: 2.136 min Scan# 633
 Delta R.T. -0.000 min
 Lab File: VL042321.D
 Acq: 11 Apr 2025 15:36

Tgt Ion:101 Resp: 1356
 Ion Ratio Lower Upper
 101 100
 151 74.0 57.1 85.7





#13

Ethanol

Concen: 1428.217 ppbv

RT: 1.722 min Scan# 504

Delta R.T. 0.003 min

Lab File: VL042321.D

Acq: 11 Apr 2025 15:36

Instrument :

MSVOA_L

ClientSampleId :

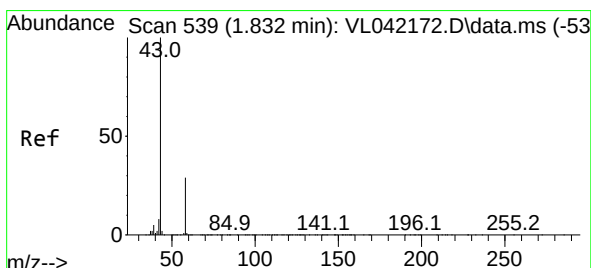
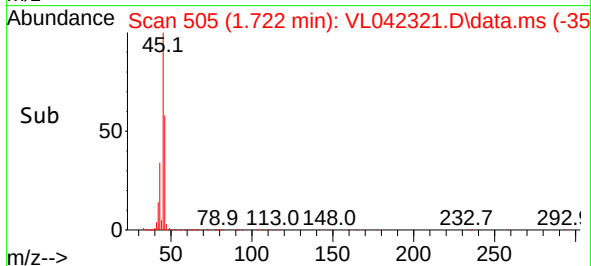
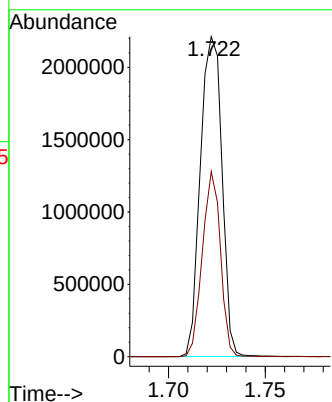
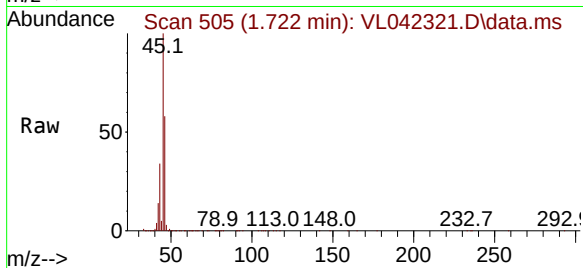
IA-B10-3-3242025

Tgt Ion: 45 Resp: 1721714

Ion Ratio Lower Upper

45 100

46 48.6 20.2 80.8



#15

Acetone

Concen: 90.565 ppbv

RT: 1.832 min Scan# 539

Delta R.T. -0.000 min

Lab File: VL042321.D

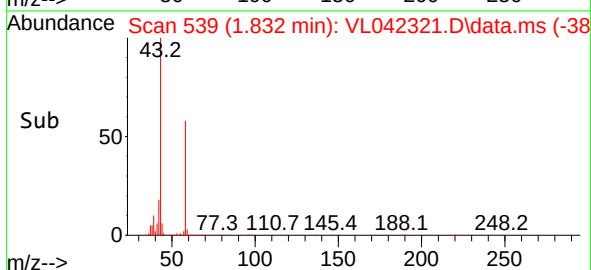
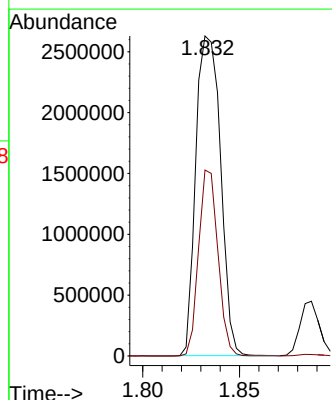
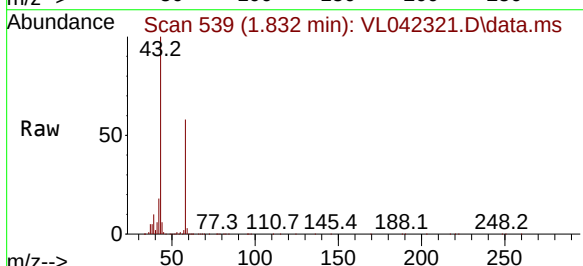
Acq: 11 Apr 2025 15:36

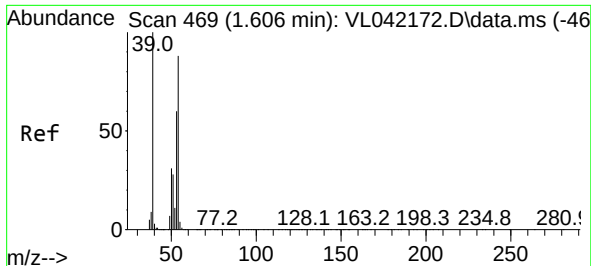
Tgt Ion: 43 Resp: 2336283

Ion Ratio Lower Upper

43 100

58 45.7 23.2 34.8#





#16

1,3-Butadiene

Concen: 0.558 ppbv

RT: 1.599 min Scan# 4

Delta R.T. -0.007 min

Lab File: VL042321.D

Acq: 11 Apr 2025 15:36

Instrument :

MSVOA_L

ClientSampleId :

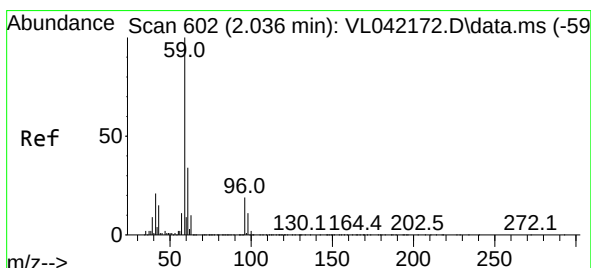
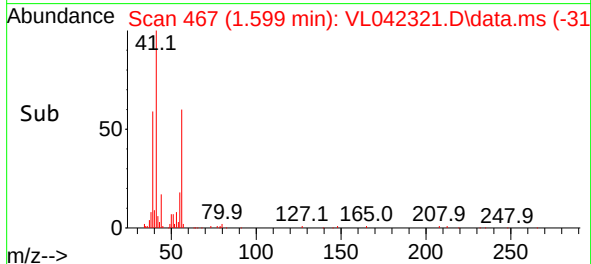
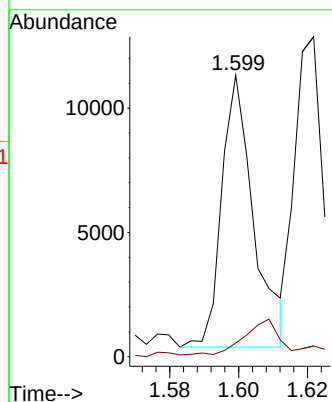
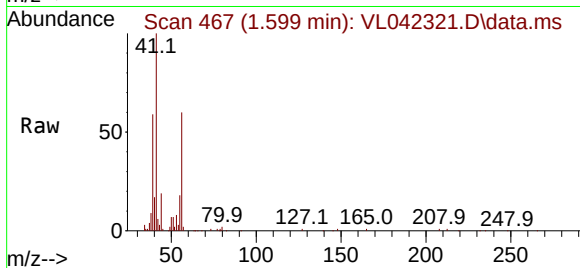
IA-B10-3-3242025

Tgt Ion: 39 Resp: 7032

Ion Ratio Lower Upper

39 100

54 20.1 60.7 91.1#



#17

tert-Butyl alcohol

Concen: 1.607 ppbv

RT: 1.887 min Scan# 556

Delta R.T. -0.149 min

Lab File: VL042321.D

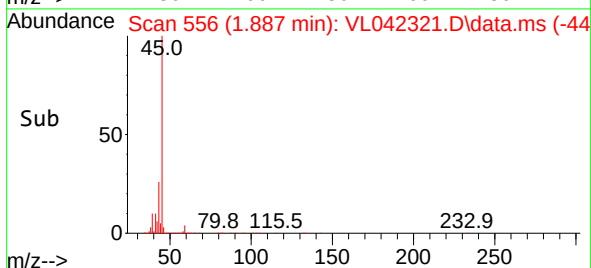
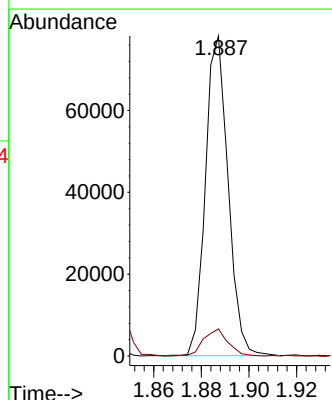
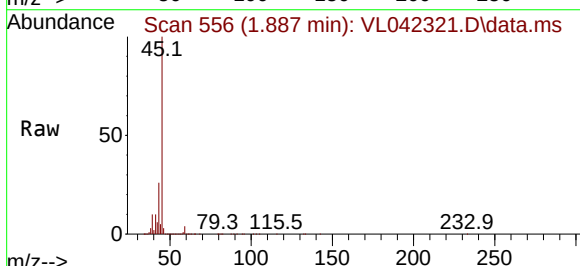
Acq: 11 Apr 2025 15:36

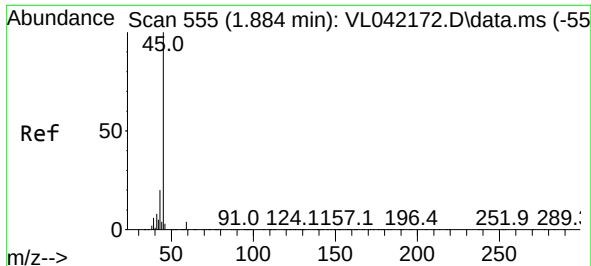
Tgt Ion: 59 Resp: 51633

Ion Ratio Lower Upper

59 100

57 9.3 8.9 13.3

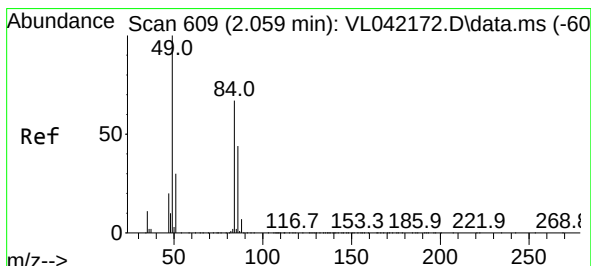
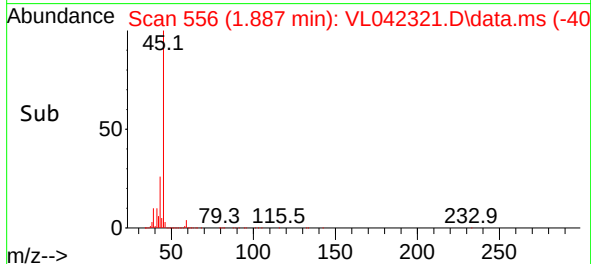
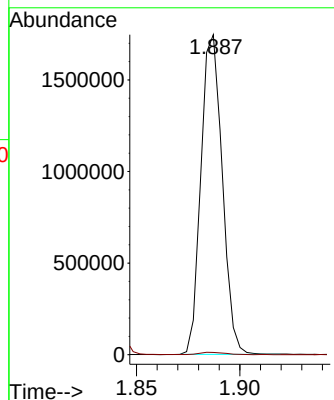
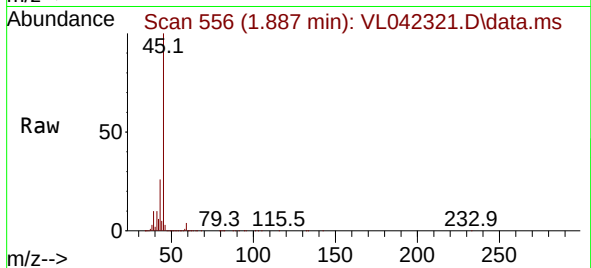




#19
Isopropyl Alcohol
Concen: 86.165 ppbv
RT: 1.887 min Scan# 511
Delta R.T. 0.003 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

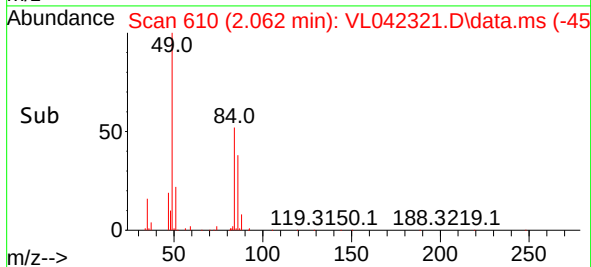
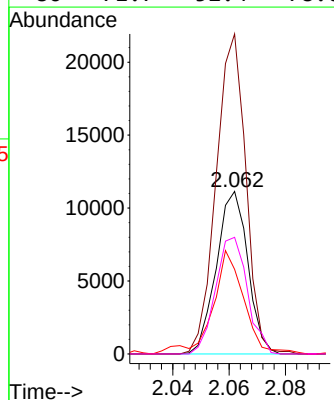
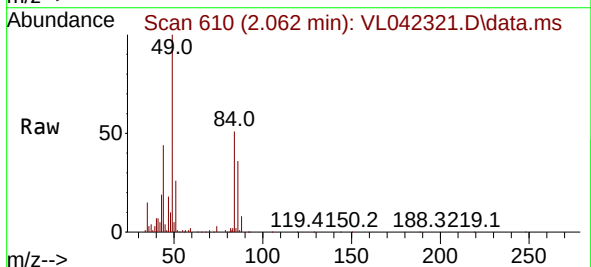
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-3-3242025

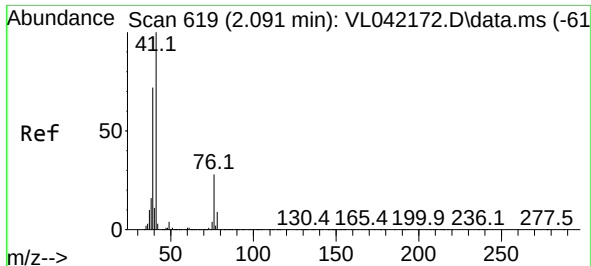
Tgt Ion: 45 Resp: 1254135
Ion Ratio Lower Upper
45 100
58 85.1 36.9 55.3#



#20
Methylene Chloride
Concen: 0.899 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

Tgt Ion: 84 Resp: 8636
Ion Ratio Lower Upper
84 100
49 196.9 120.2 180.4#
51 49.7 37.4 56.0
86 71.7 52.4 78.6

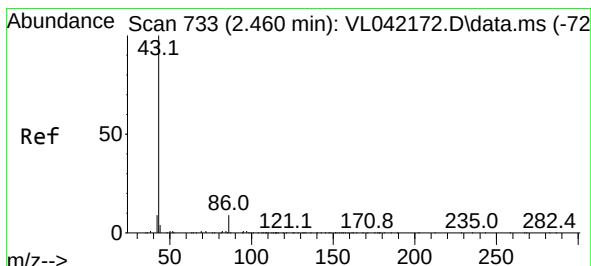
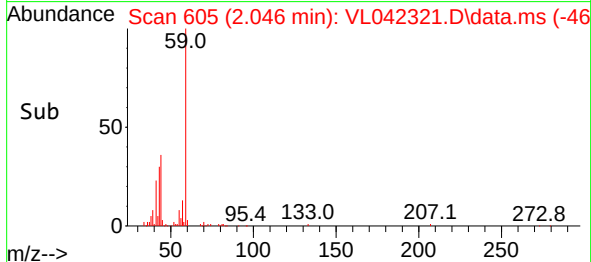
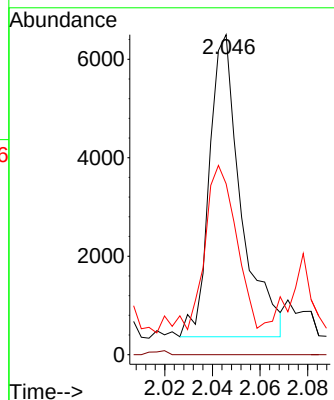
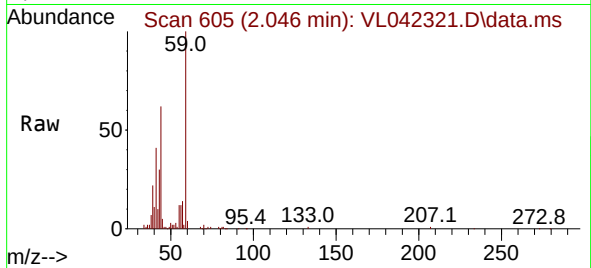




#21
 Allyl Chloride
 Concen: 0.311 ppbv
 RT: 2.046 min Scan# 61
 Delta R.T. -0.046 min
 Lab File: VL042321.D
 Acq: 11 Apr 2025 15:36

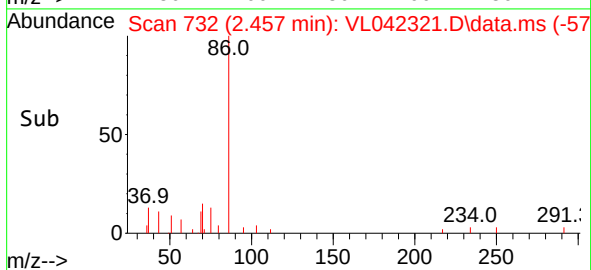
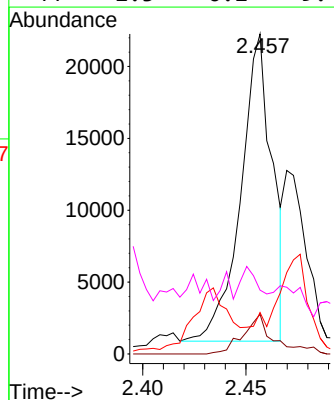
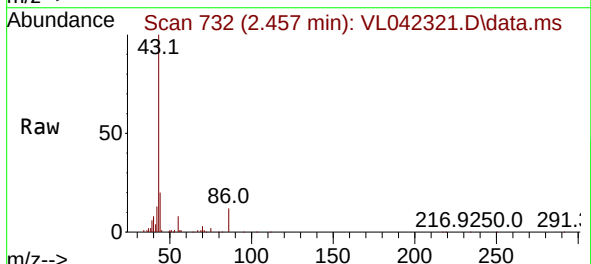
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B10-3-3242025

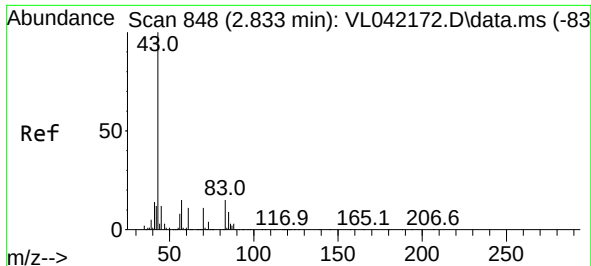
Tgt Ion: 41 Resp: 5656
 Ion Ratio Lower Upper
 41 100
 76 20.2 24.1 36.1#
 39 0.0 61.1 91.7#



#23
 Vinyl Acetate
 Concen: 2.026 ppbv
 RT: 2.457 min Scan# 732
 Delta R.T. -0.003 min
 Lab File: VL042321.D
 Acq: 11 Apr 2025 15:36

Tgt Ion: 43 Resp: 22621
 Ion Ratio Lower Upper
 43 100
 86 12.9 5.5 8.3#
 42 9.9 8.6 13.0
 44 2.3 6.2 9.4#

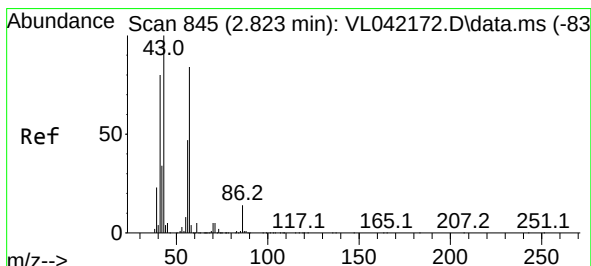
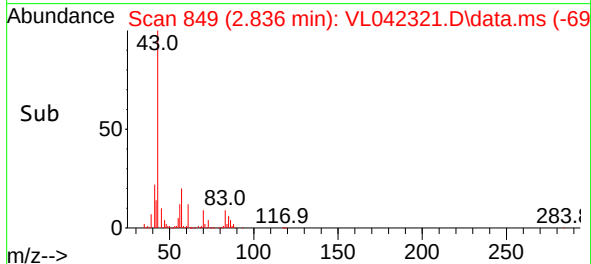
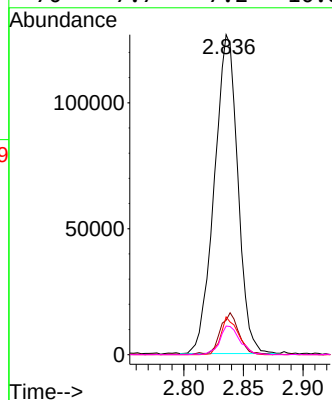
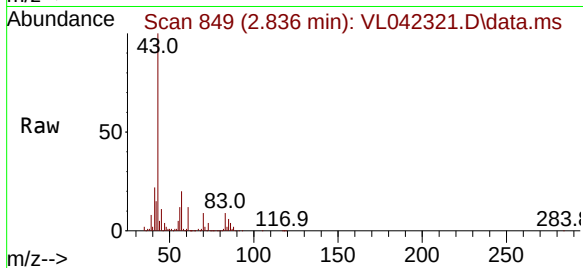




#25
Ethyl Acetate
Concen: 2.586 ppbv
RT: 2.836 min Scan# 84
Delta R.T. 0.003 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

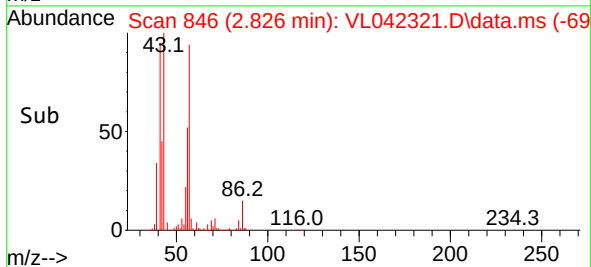
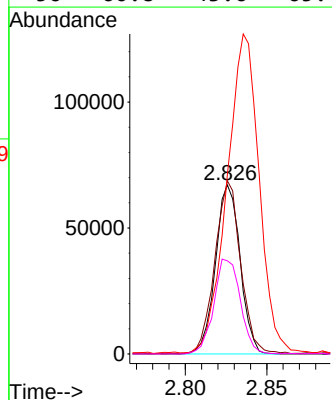
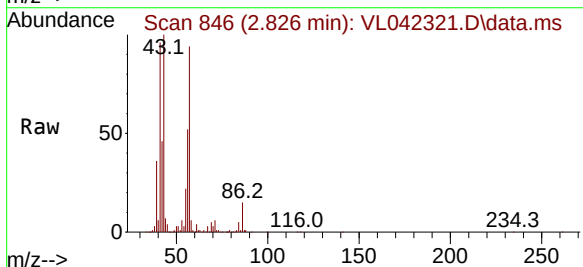
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-3-3242025

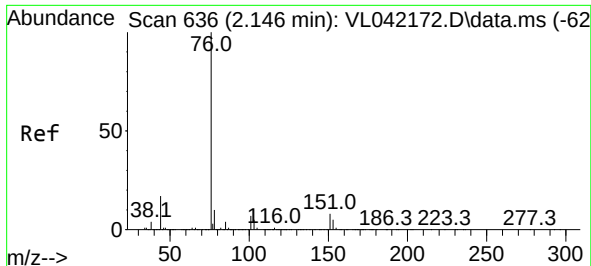
Tgt Ion: 43	Resp: 173110
Ion Ratio	Lower Upper
43 100	
45 10.8	8.2 12.2
61 8.9	7.3 10.9
70 7.7	7.2 10.8



#26
Hexane
Concen: 2.725 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.003 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

Tgt Ion: 57	Resp: 70462		
Ion	Ratio	Lower	Upper
57	100		
41	107.0	76.6	114.8
43	249.4	207.8	311.8
56	60.8	43.6	65.4

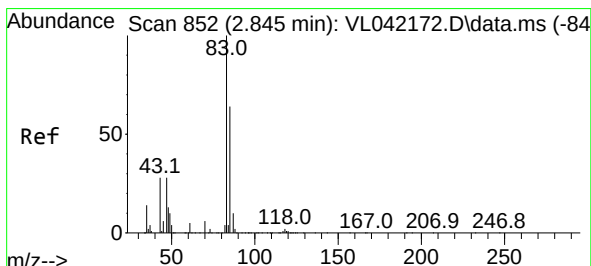
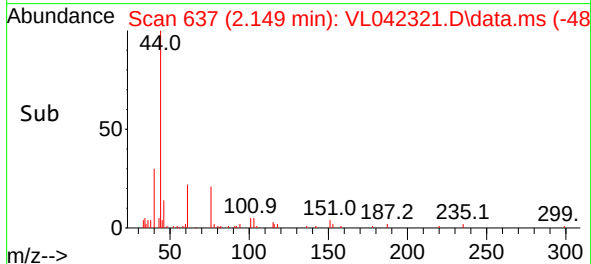
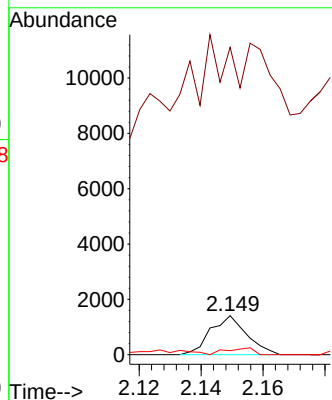
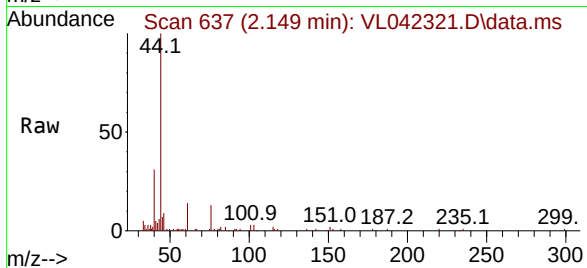




#27
Carbon Disulfide
Concen: 0.041 ppbv
RT: 2.149 min Scan# 611
Delta R.T. 0.003 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

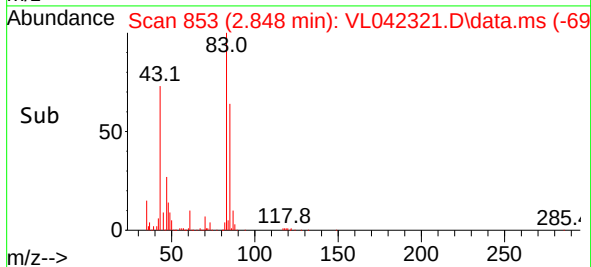
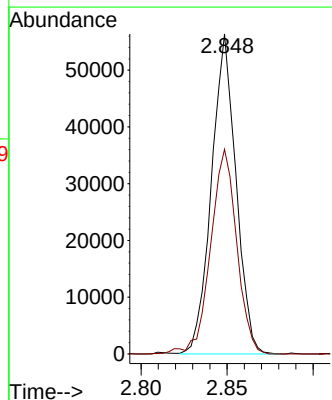
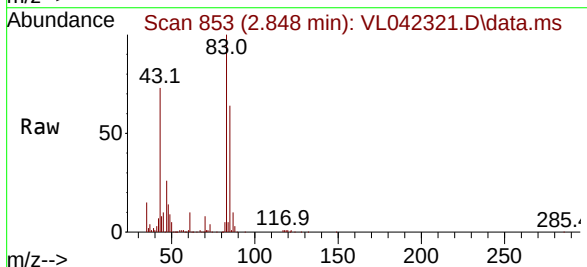
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-3-3242025

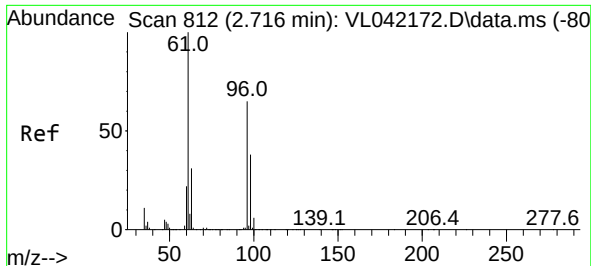
Tgt Ion: 76 Resp: 1144
Ion Ratio Lower Upper
76 100
44 1169.8 14.7 22.1#
78 13.1 9.3 13.9



#29
Chloroform
Concen: 1.478 ppbv
RT: 2.848 min Scan# 853
Delta R.T. 0.003 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

Tgt Ion: 83 Resp: 55947
Ion Ratio Lower Upper
83 100
85 64.0 51.4 77.2

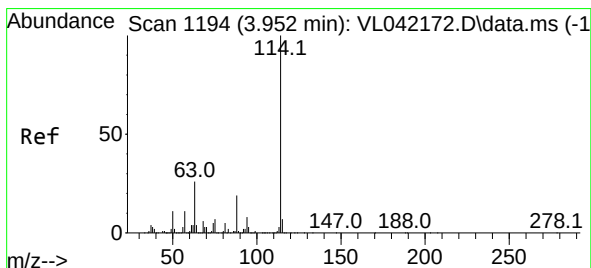
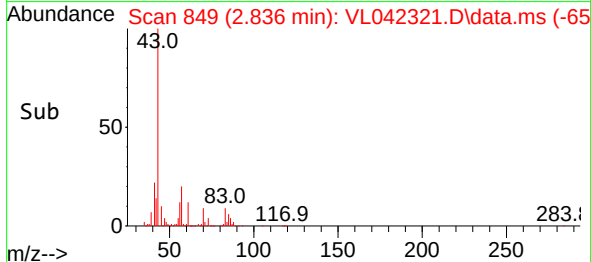
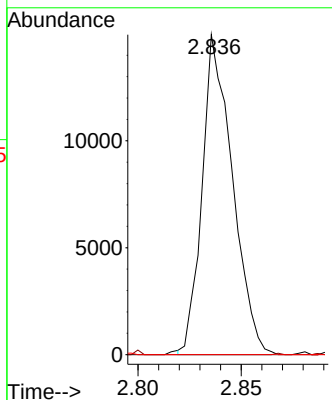
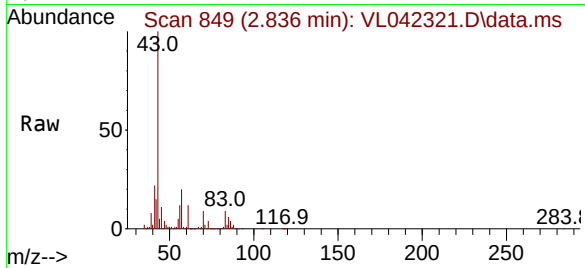




#31
cis-1,2-Dichloroethene
Concen: 0.581 ppbv
RT: 2.836 min Scan# 849
Delta R.T. 0.120 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

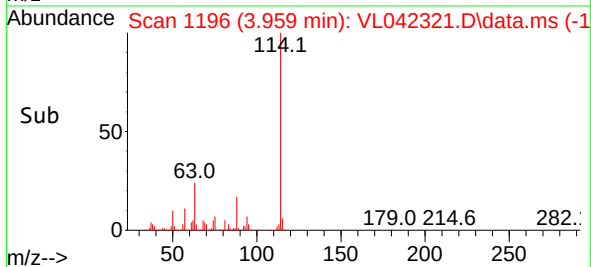
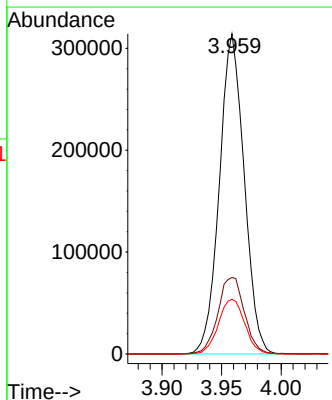
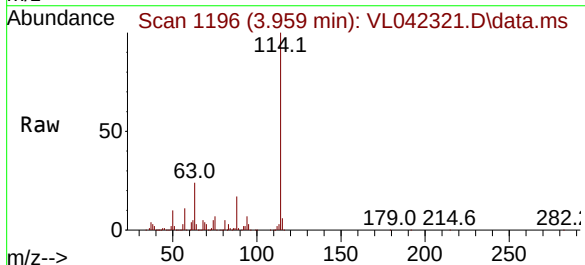
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-3-3242025

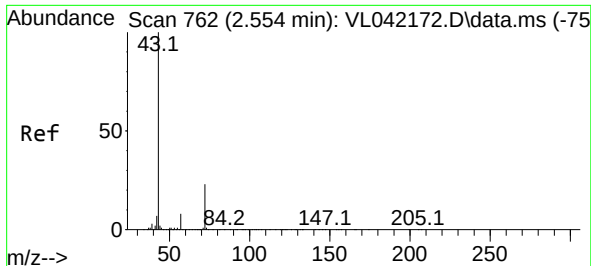
Tgt Ion: 61 Resp: 15260
Ion Ratio Lower Upper
61 100
96 0.0 51.8 77.8#
98 0.0 30.6 46.0#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. 0.006 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

Tgt Ion: 114 Resp: 454008
Ion Ratio Lower Upper
114 100
63 25.7 20.7 31.1
88 18.1 15.0 22.4

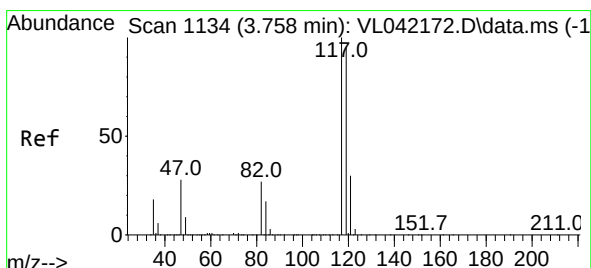
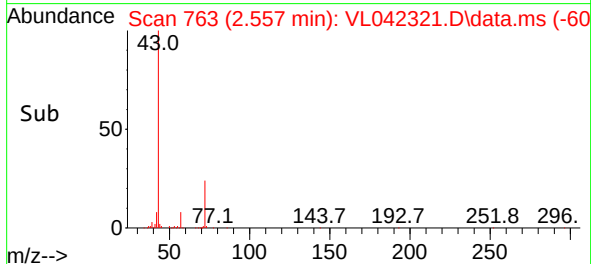
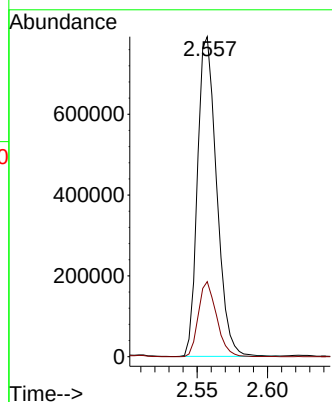
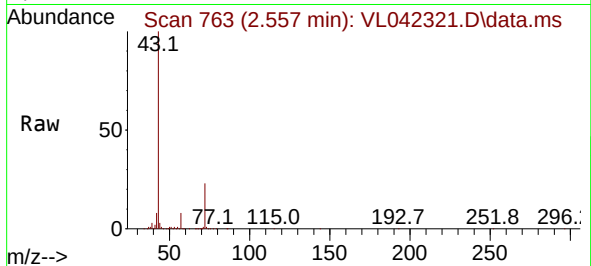




#34
2-Butanone
Concen: 22.673 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.003 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

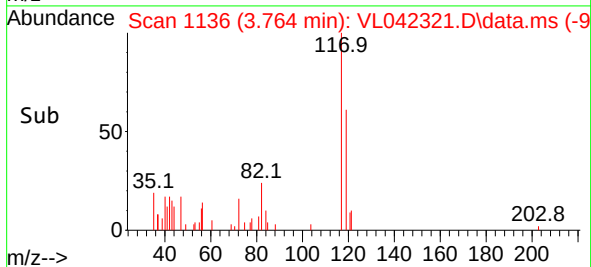
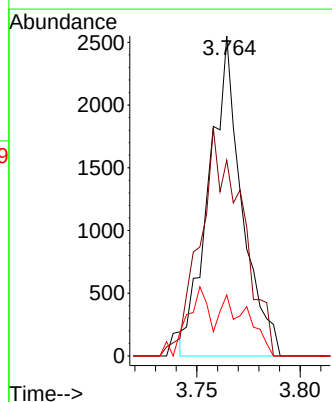
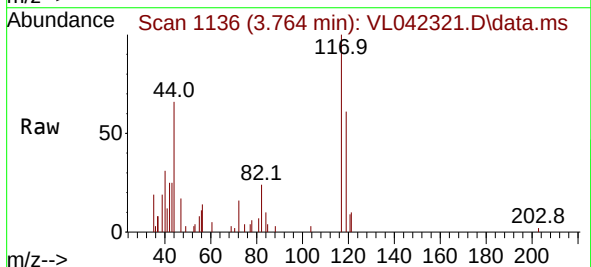
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-3-3242025

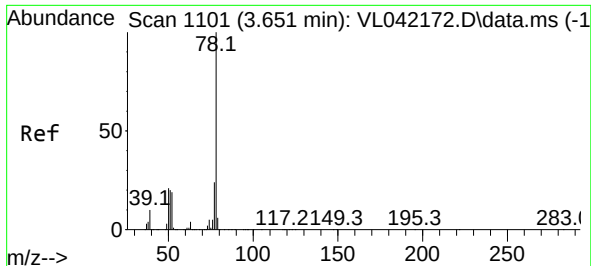
Tgt Ion: 43 Resp: 746435
Ion Ratio Lower Upper
43 100
72 22.4 18.2 27.2



#35
Carbon Tetrachloride
Concen: 0.080 ppbv
RT: 3.764 min Scan# 1136
Delta R.T. 0.006 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

Tgt Ion: 117 Resp: 2821
Ion Ratio Lower Upper
117 100
119 61.2 76.2 114.2#
121 19.1 24.2 36.4#

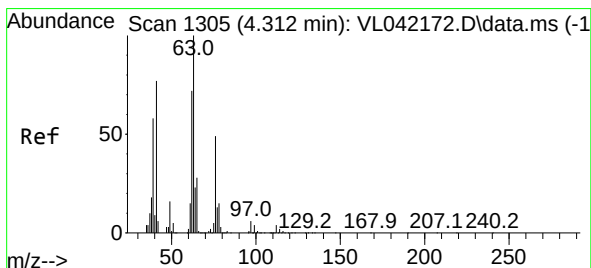
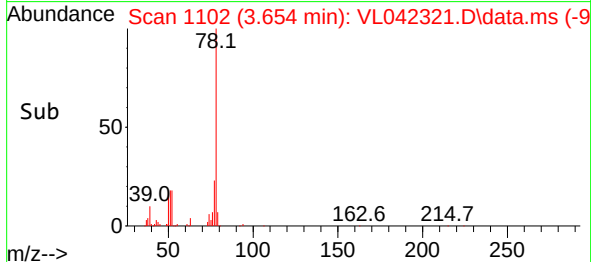
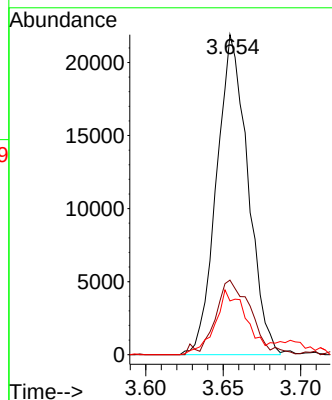
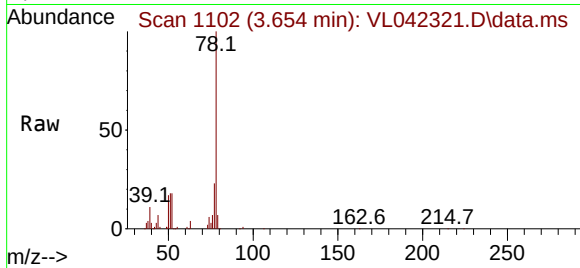




#36
Benzene
Concen: 0.683 ppbv
RT: 3.654 min Scan# 1101
Delta R.T. 0.003 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

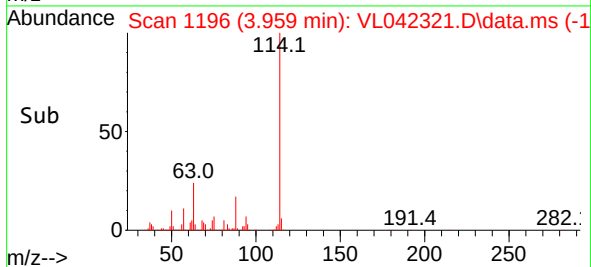
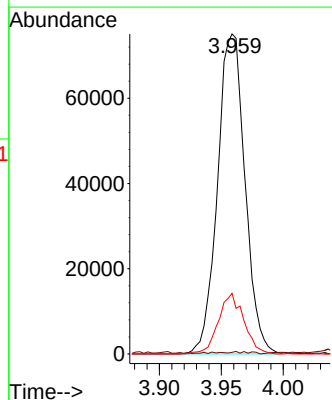
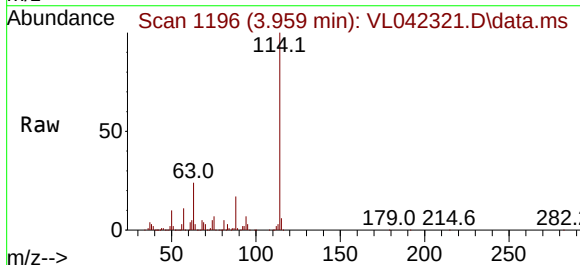
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-3-3242025

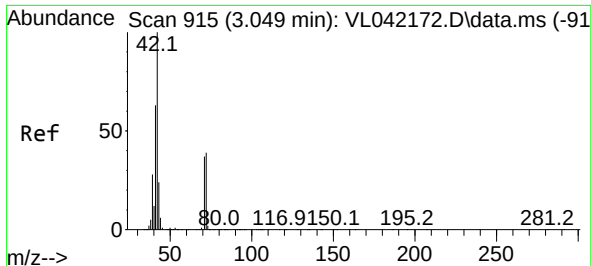
Tgt Ion: 78 Resp: 30723
Ion Ratio Lower Upper
78 100
77 23.3 19.1 28.7
50 16.8 16.6 24.8



#39
1,2-Dichloropropane
Concen: 7.084 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. -0.353 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

Tgt Ion: 63 Resp: 116117
Ion Ratio Lower Upper
63 100
41 0.1 61.7 92.5#
62 19.0 57.6 86.4#

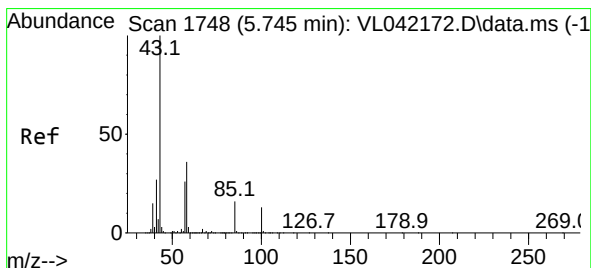
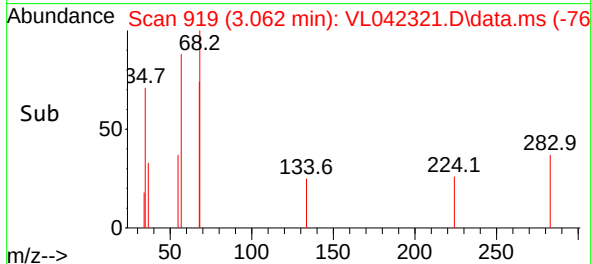
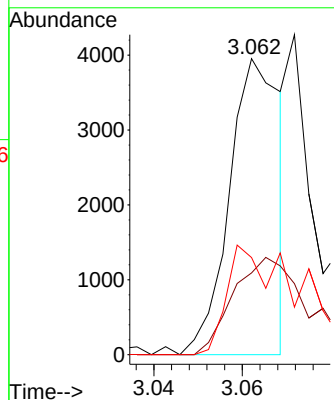
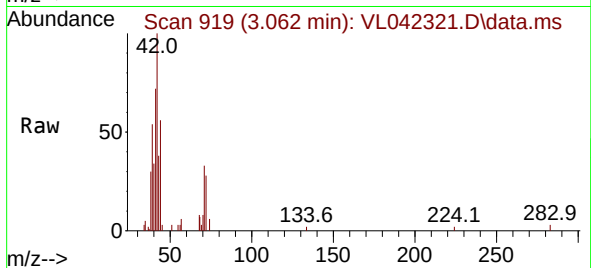




#41
Tetrahydrofuran
Concen: 0.168 ppbv
RT: 3.062 min Scan# 915
Delta R.T. 0.013 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

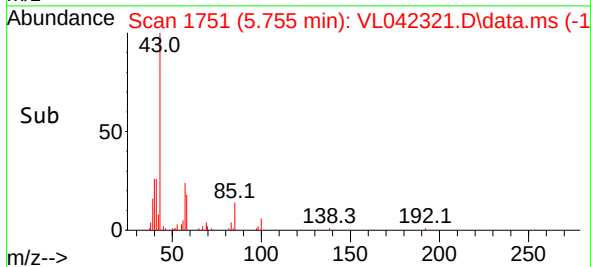
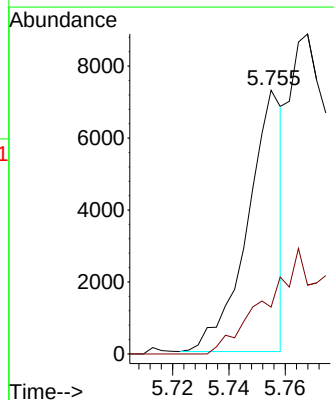
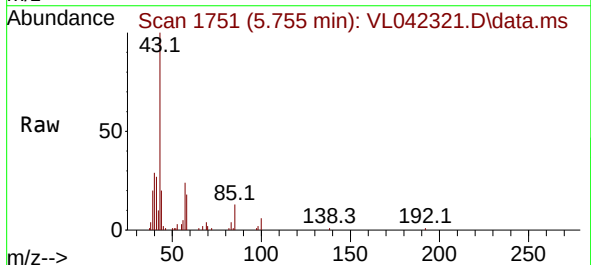
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-3-3242025

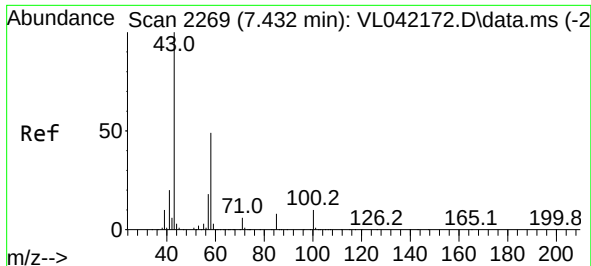
Tgt Ion: 42 Resp: 3180
Ion Ratio Lower Upper
42 100
72 0.0 31.4 47.0#
71 54.2 30.2 45.4#



#50
4-Methyl-2-Pentanone
Concen: 0.120 ppbv
RT: 5.755 min Scan# 1751
Delta R.T. 0.009 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

Tgt Ion: 43 Resp: 6238
Ion Ratio Lower Upper
43 100
58 0.0 29.0 43.6#

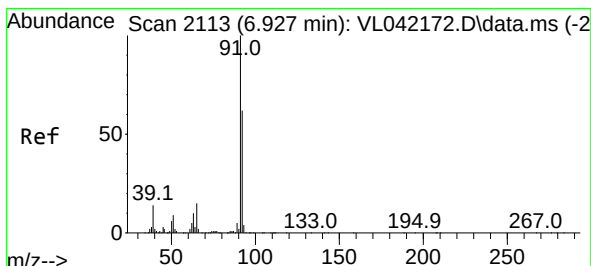
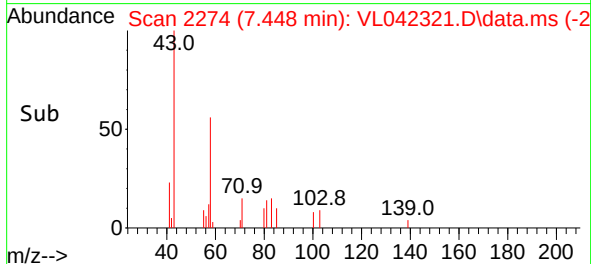
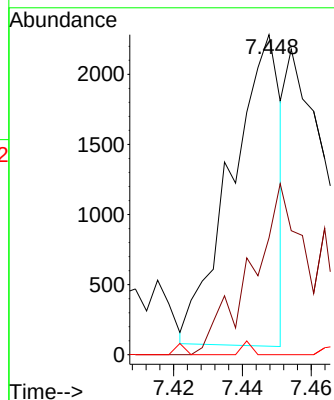
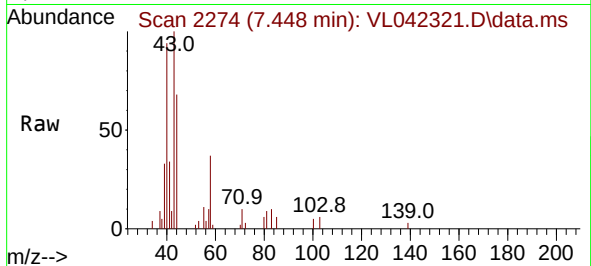




#51
2-Hexanone
Concen: 0.052 ppbv
RT: 7.448 min Scan# 2115
Delta R.T. 0.016 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

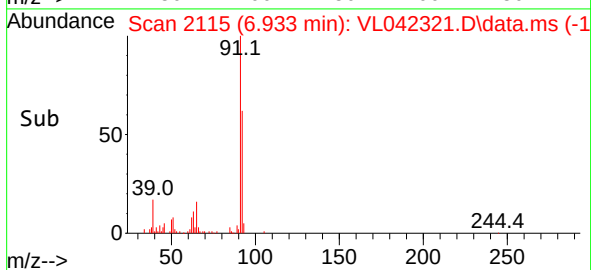
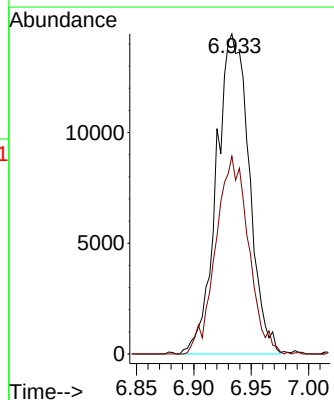
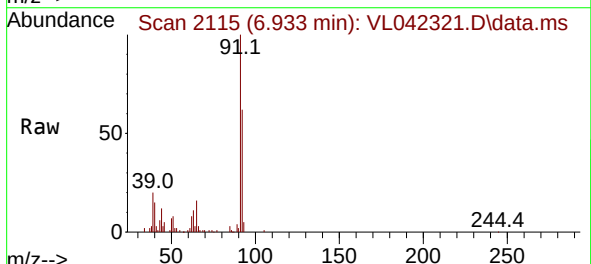
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-3-3242025

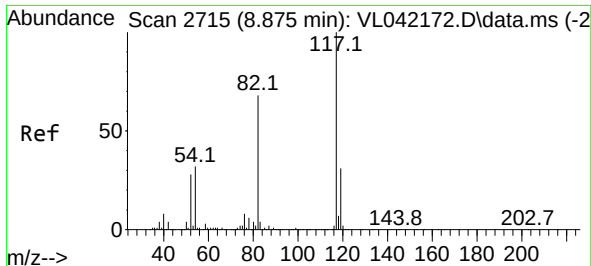
Tgt Ion: 43 Resp: 2209
Ion Ratio Lower Upper
43 100
58 0.0 39.7 59.5#
98 0.0 0.1 0.1#



#53
Toluene
Concen: 0.538 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. 0.006 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

Tgt Ion: 91 Resp: 28699
Ion Ratio Lower Upper
91 100
92 61.8 48.4 72.6

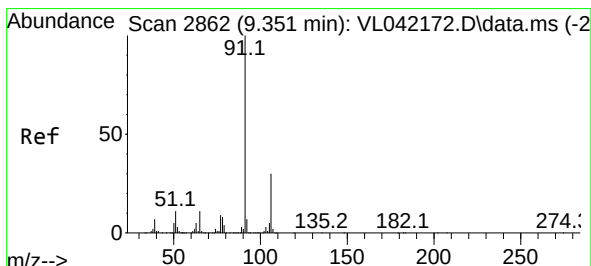
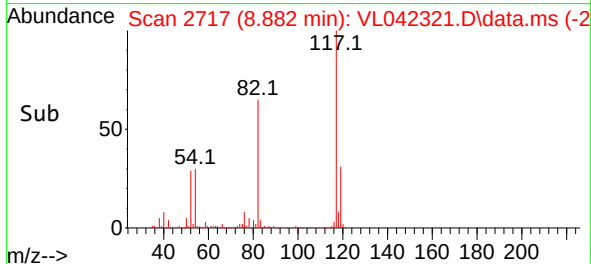
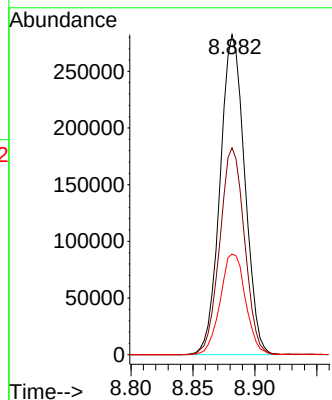
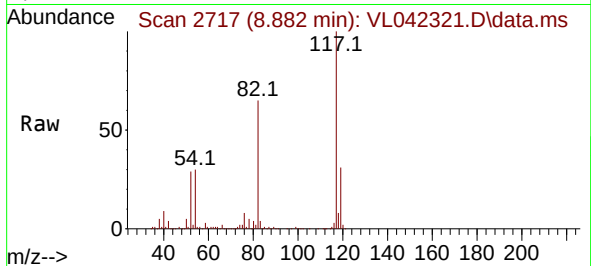




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 211
Delta R.T. 0.006 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

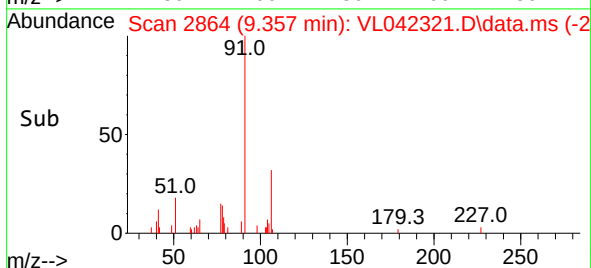
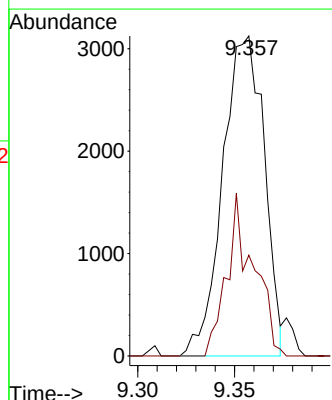
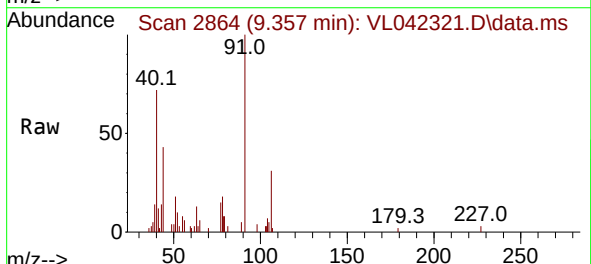
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-3-3242025

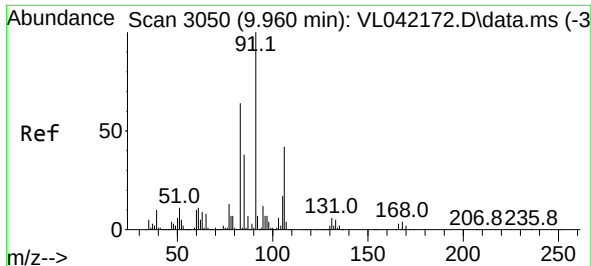
Tgt Ion: 117 Resp: 391031
Ion Ratio Lower Upper
117 100
82 65.2 55.8 83.6
119 32.4 25.5 38.3



#58
Ethyl Benzene
Concen: 0.067 ppbv
RT: 9.357 min Scan# 2864
Delta R.T. 0.006 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

Tgt Ion: 91 Resp: 4656
Ion Ratio Lower Upper
91 100
106 31.5 24.2 36.2

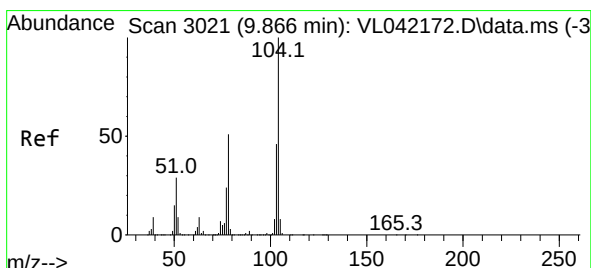
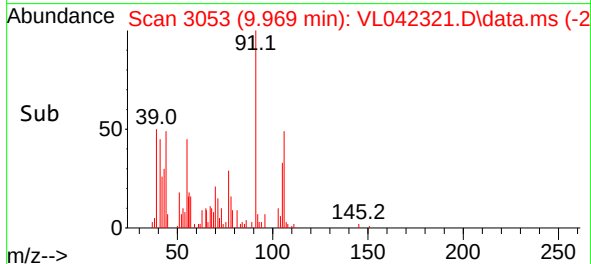
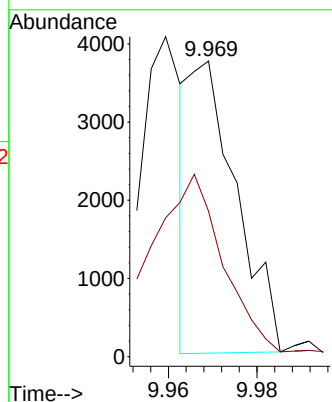
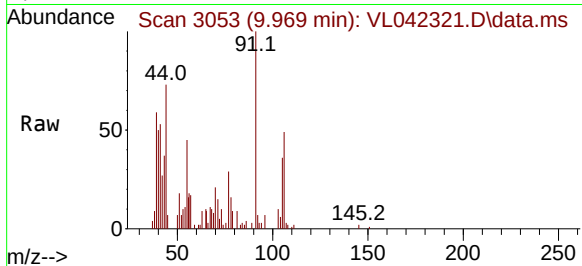




#60
o-Xylene
Concen: 0.049 ppbv
RT: 9.969 min Scan# 3053
Delta R.T. 0.009 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

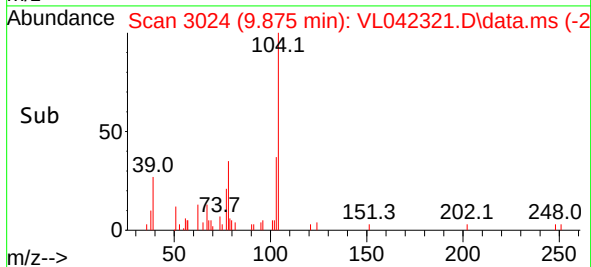
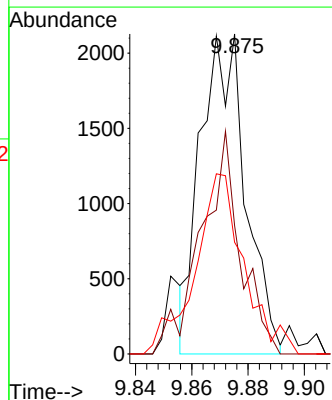
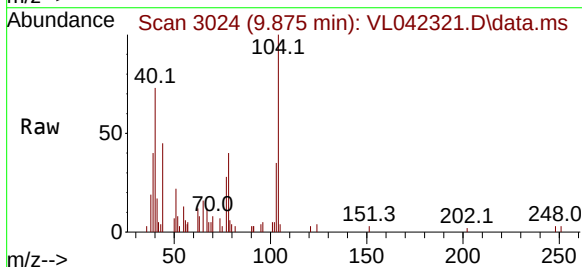
Instrument :
MSVOA_1
ClientSampleId :
IA-B10-3-3242025

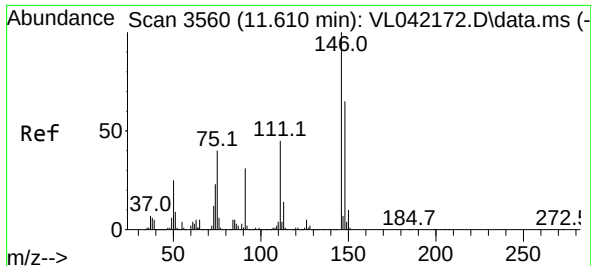
Tgt Ion: 91 Resp: 2749
Ion Ratio Lower Upper
91 100
106 102.7 20.8 62.5#



#61
Styrene
Concen: 0.086 ppbv
RT: 9.875 min Scan# 3024
Delta R.T. 0.009 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

Tgt Ion: 104 Resp: 2355
Ion Ratio Lower Upper
104 100
78 61.0 41.8 62.6
103 61.4 37.0 55.4#

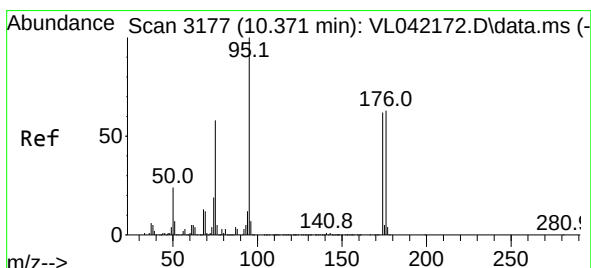
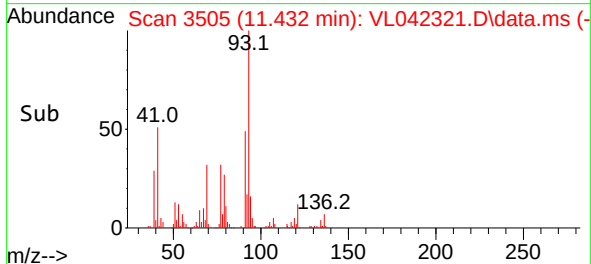
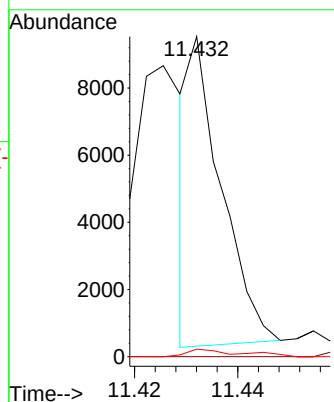
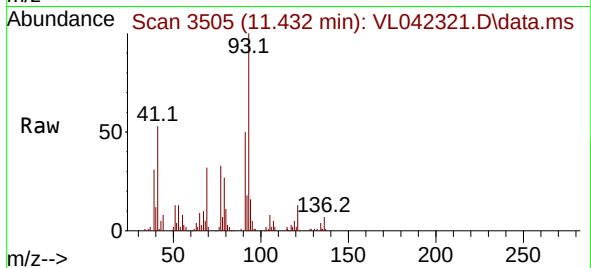




#66
Benzyl Chloride
Concen: 0.490 ppbv
RT: 11.432 min Scan# 3179
Delta R.T. -0.178 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

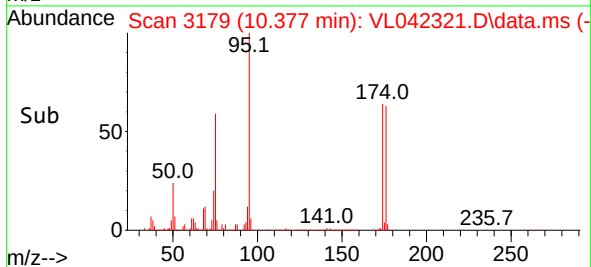
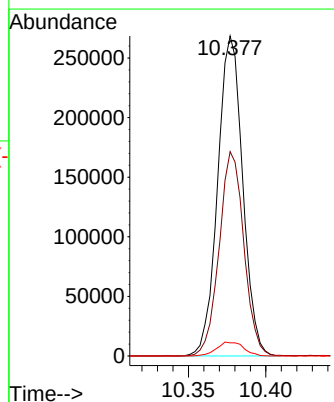
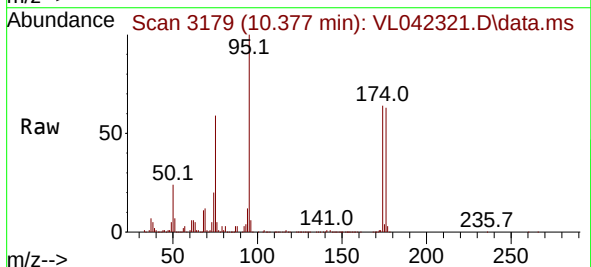
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-3-3242025

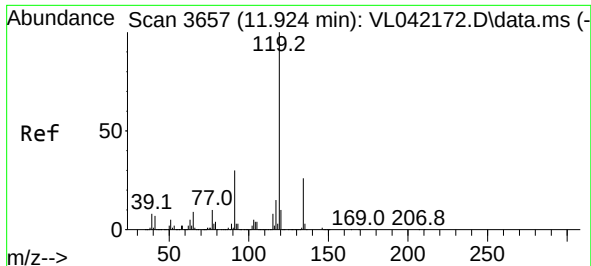
Tgt Ion: 91 Resp: 3998
Ion Ratio Lower Upper
91 100
126 0.0 13.8 20.6#
128 4.0 4.5 6.7#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.386 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.006 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

Tgt Ion: 95 Resp: 301415
Ion Ratio Lower Upper
95 100
174 63.4 50.6 76.0
175 4.7 3.8 5.6

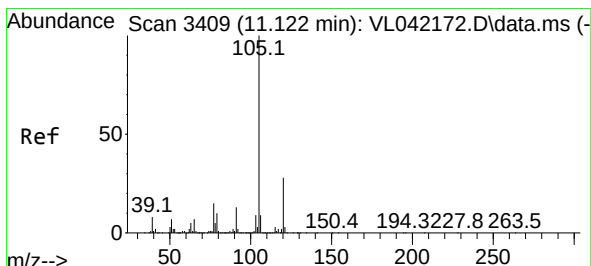
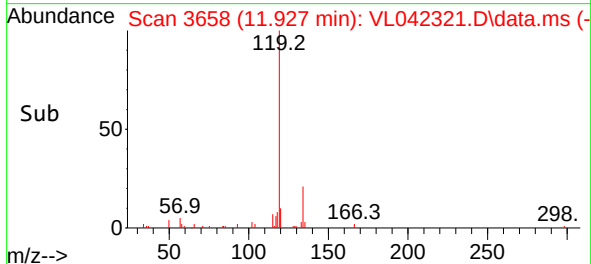
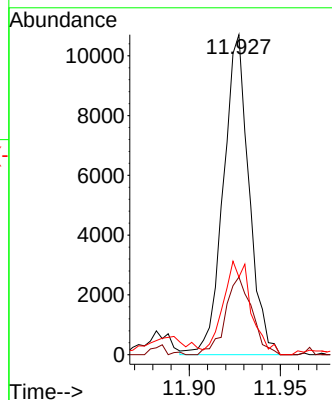
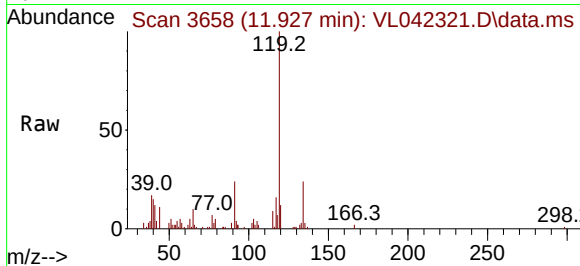




#69
p-Isopropyltoluene
Concen: 0.114 ppbv
RT: 11.927 min Scan# 30
Delta R.T. 0.003 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

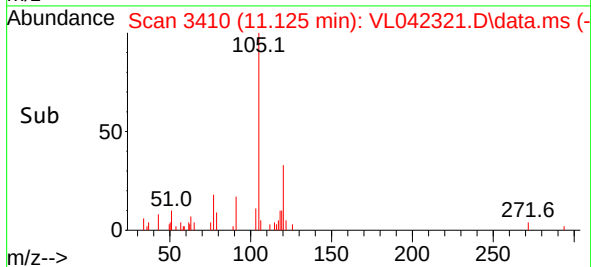
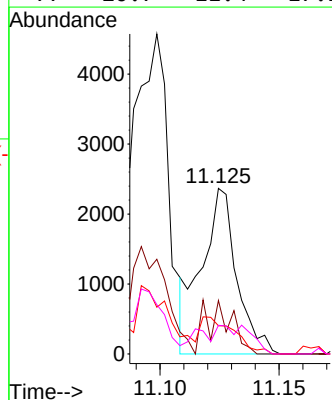
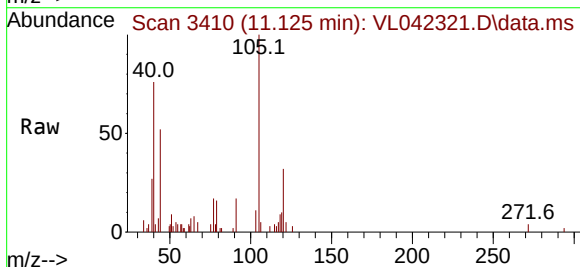
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-3-3242025

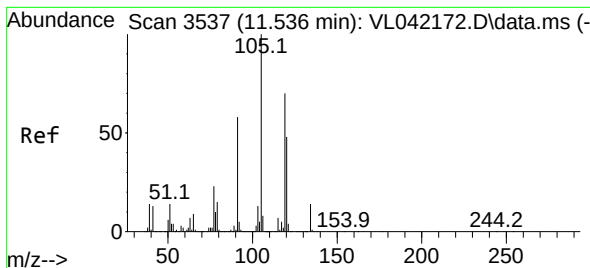
Tgt Ion	Ratio	Lower	Upper
119	100		
134	25.2	20.4	30.6
91	36.3	23.7	35.5#



#72
4-Ethyltoluene
Concen: 0.035 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.003 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

Tgt Ion	Ratio	Lower	Upper
105	100		
120	23.2	23.4	35.0#
91	0.0	10.3	15.5#
77	20.7	11.4	17.2#





#74

1,2,4-Trimethylbenzene

Concen: 0.156 ppbv

RT: 11.536 min Scan# 3537

Delta R.T. -0.000 min

Lab File: VL042321.D

Acq: 11 Apr 2025 15:36

Instrument :

MSVOA_L

ClientSampleId :

IA-B10-3-3242025

Tgt Ion:105 Resp: 10882

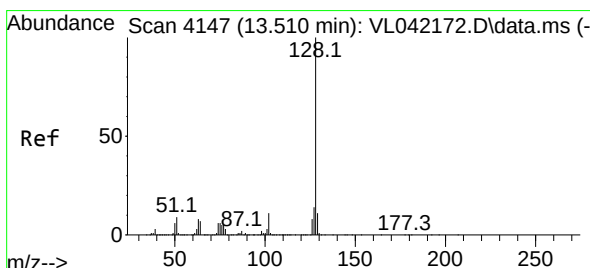
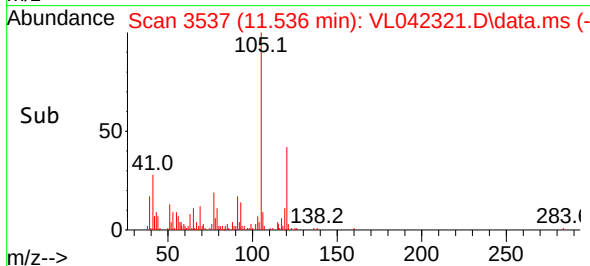
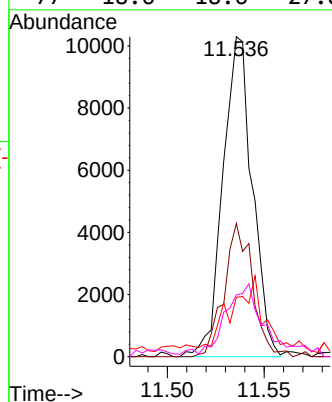
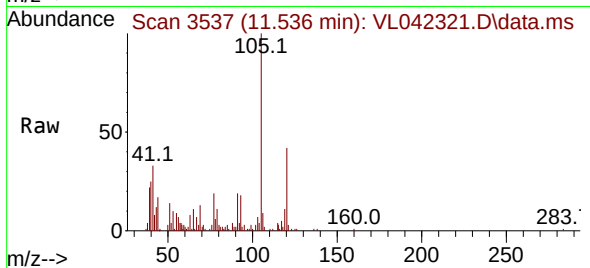
Ion Ratio Lower Upper

105 100

120 40.0 38.6 58.0

91 15.8 46.2 69.2#

77 18.6 18.6 27.8



#79

Naphthalene

Concen: 0.046 ppbv

RT: 13.516 min Scan# 4149

Delta R.T. 0.006 min

Lab File: VL042321.D

Acq: 11 Apr 2025 15:36

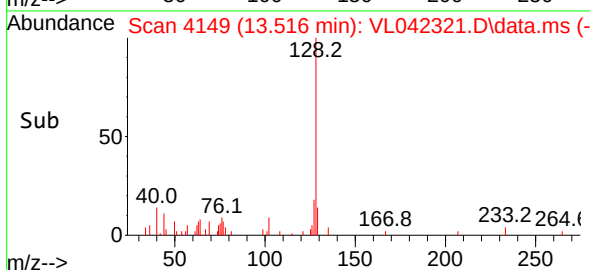
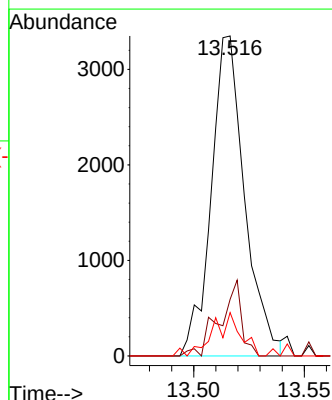
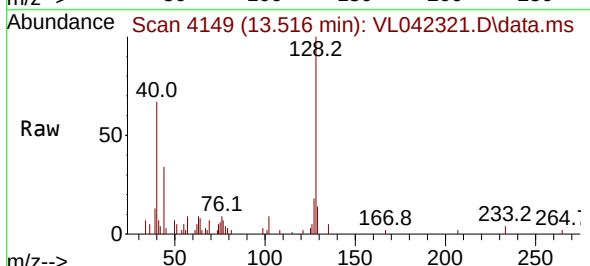
Tgt Ion:128 Resp: 3524

Ion Ratio Lower Upper

128 100

127 17.7 10.8 16.2#

129 13.5 9.0 13.4#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
 Data File : VL042323.D
 Acq On : 11 Apr 2025 16:39
 Operator : SY/MD
 Sample : Q1665-10DL 40X
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B10-4-3242025DL

Quant Time: Apr 11 23:02:43 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)

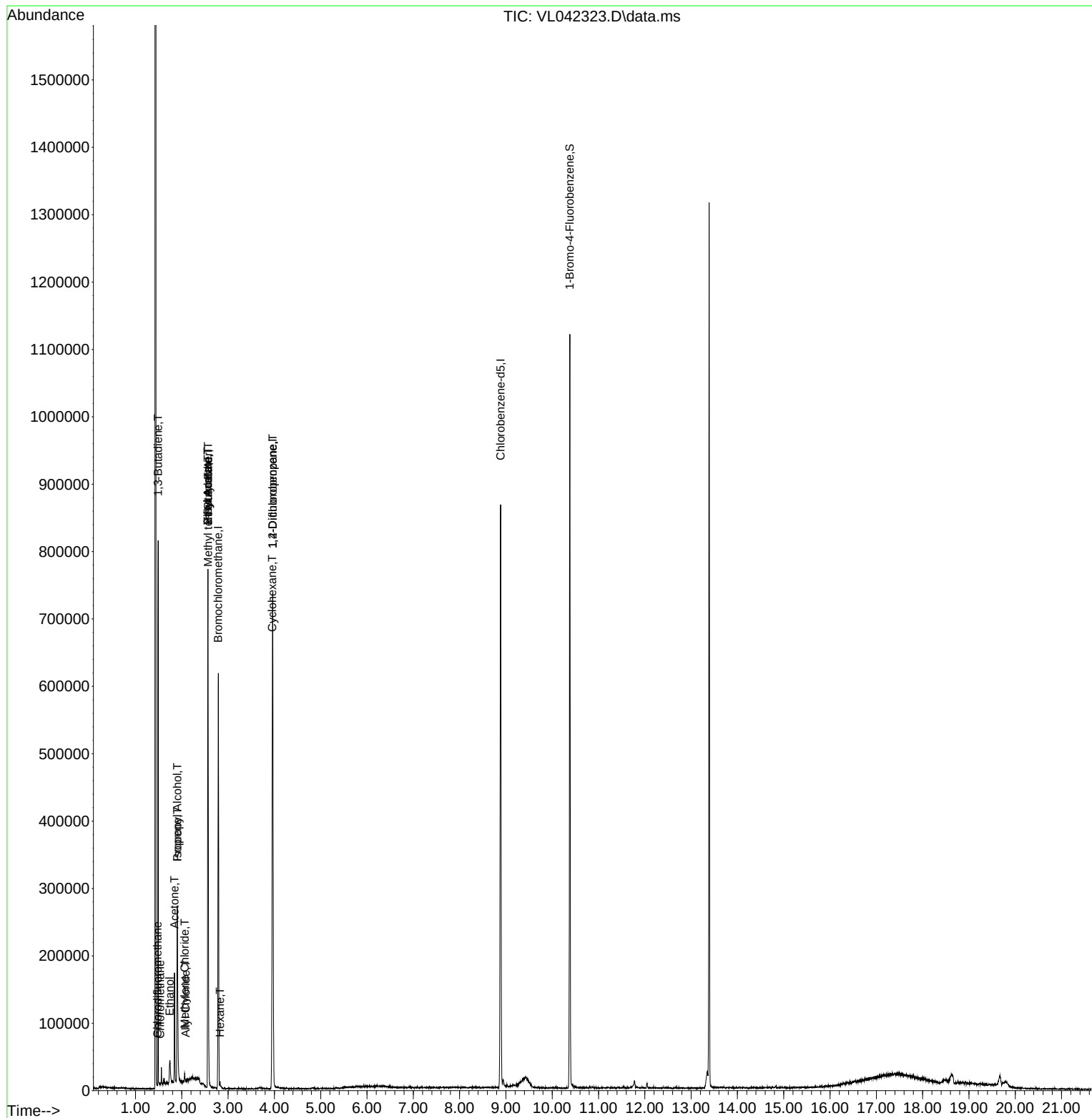
Internal Standards						
1) Bromochloromethane	2.787	49	173105	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	400666	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	338211	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	253785	9.137	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	91.400%
Target Compounds						
					Qvalue	
3) Chlorodifluoromethane	1.476	51	950	0.036	ppbv #	58
4) Chloromethane	1.531	50	389	0.037	ppbv	89
9) Propene	1.900	41	20921	1.748	ppbv	96
13) Ethanol	1.742	45	31113	27.501	ppbv	85
15) Acetone	1.842	43	84634	3.496	ppbv	95
16) 1,3-Butadiene	1.489	39	85279	7.213	ppbv #	12
19) Isopropyl Alcohol	1.900	45	207505	15.191	ppbv #	34
20) Methylene Chloride	2.062	84	1746	0.194	ppbv #	71
21) Allyl Chloride	2.081	41	584	0.034	ppbv #	21
23) Vinyl Acetate	2.564	43	510012	48.674	ppbv #	87
25) Ethyl Acetate	2.564	43	510012	8.117	ppbv #	76
26) Hexane	2.826	57	1035	0.043	ppbv #	1
28) Methyl tert-Butyl Ether	2.567	73	4917	0.325	ppbv #	1
30) Cyclohexane	3.955	84	3209	0.152	ppbv #	1
34) 2-Butanone	2.564	43	510012	17.554	ppbv	98
39) 1,2-Dichloropropane	3.962	63	103631	7.164	ppbv #	23

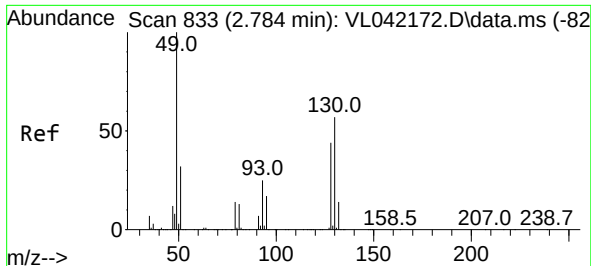
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042323.D
Acq On : 11 Apr 2025 16:39
Operator : SY/MD
Sample : Q1665-10DL 40X
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B10-4-3242025DL

Quant Time: Apr 11 23:02:43 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

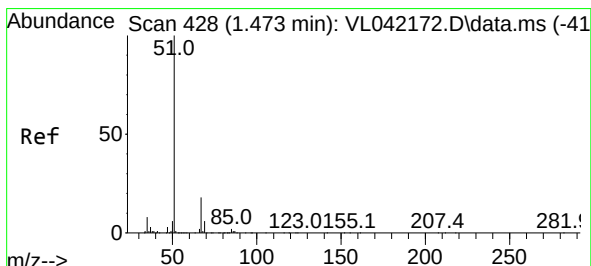
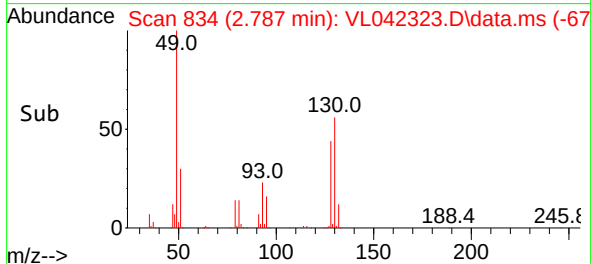
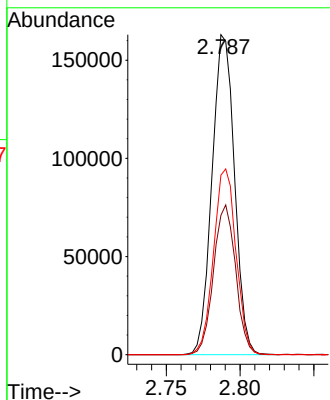
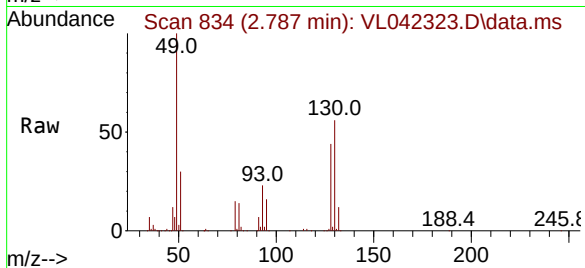




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042323.D
Acq: 11 Apr 2025 16:39

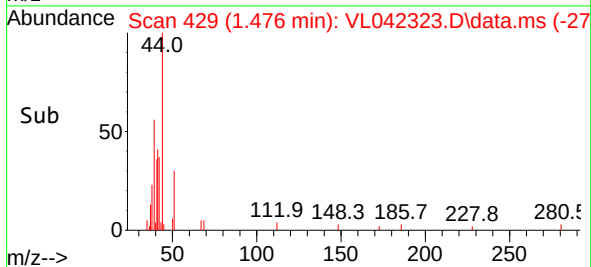
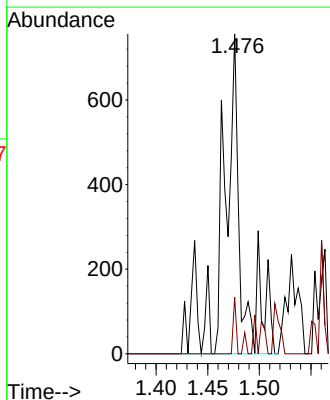
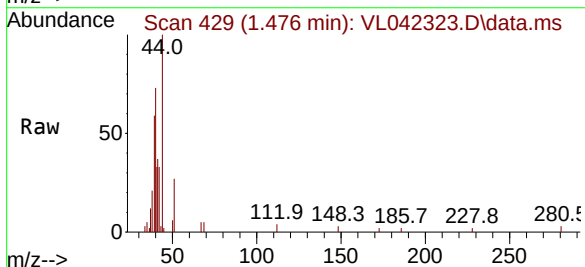
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-4-3242025DL

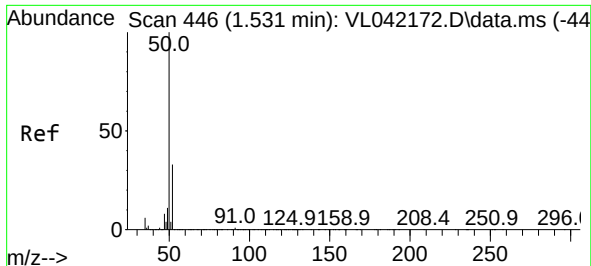
Tgt Ion: 49 Resp: 173105
Ion Ratio Lower Upper
49 100
128 46.0 22.9 68.5
130 58.2 28.8 86.4



#3
Chlorodifluoromethane
Concen: 0.036 ppbv
RT: 1.476 min Scan# 429
Delta R.T. 0.003 min
Lab File: VL042323.D
Acq: 11 Apr 2025 16:39

Tgt Ion: 51 Resp: 950
Ion Ratio Lower Upper
51 100
67 0.0 15.0 22.6#

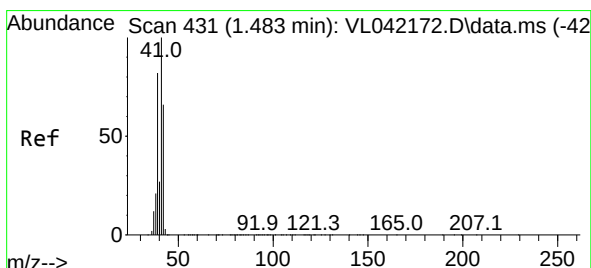
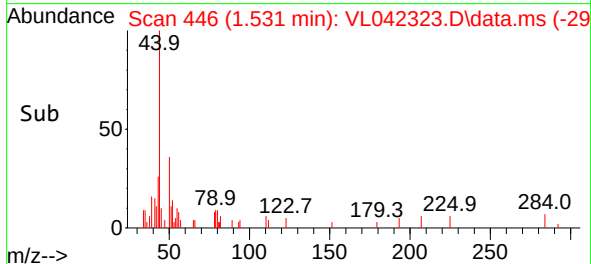
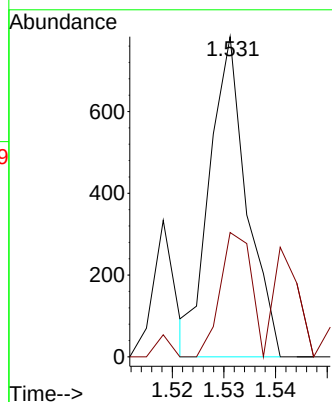
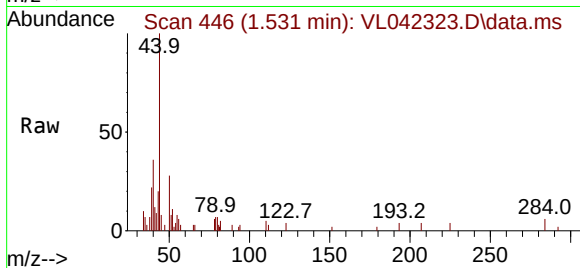




#4
Chloromethane
Concen: 0.037 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042323.D
Acq: 11 Apr 2025 16:39

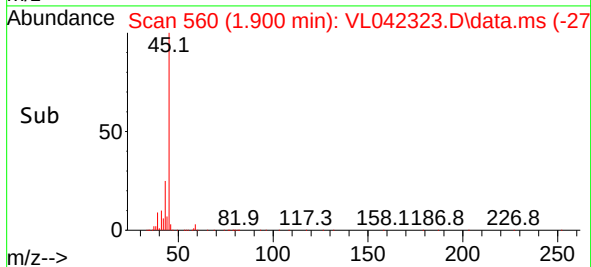
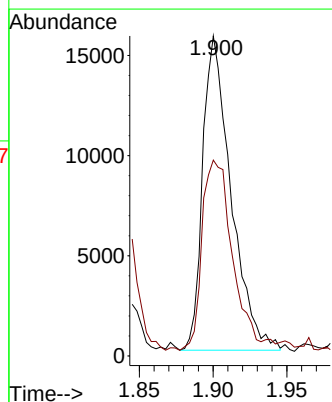
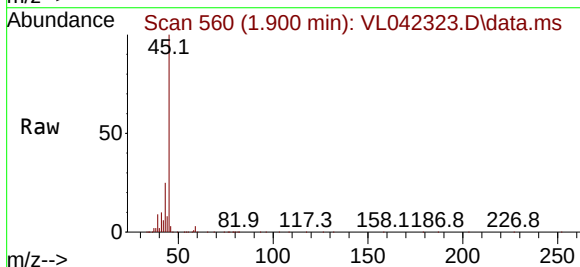
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-4-3242025DL

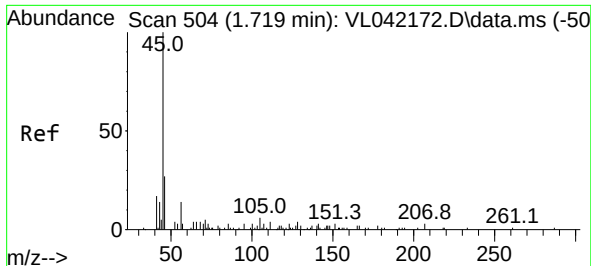
Tgt Ion: 50 Resp: 389
Ion Ratio Lower Upper
50 100
52 38.8 26.1 39.1



#9
Propene
Concen: 1.748 ppbv
RT: 1.900 min Scan# 560
Delta R.T. 0.417 min
Lab File: VL042323.D
Acq: 11 Apr 2025 16:39

Tgt Ion: 41 Resp: 20921
Ion Ratio Lower Upper
41 100
42 65.9 55.4 83.2

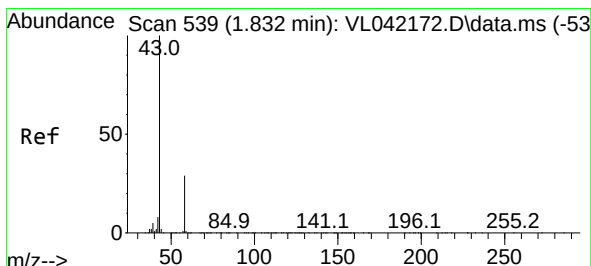
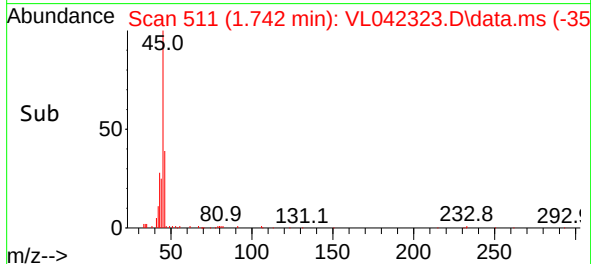
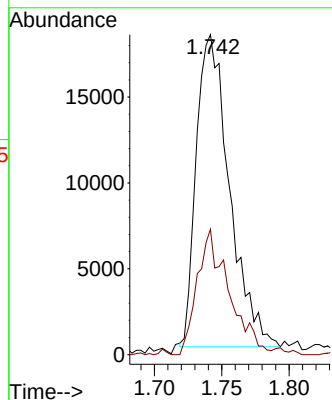
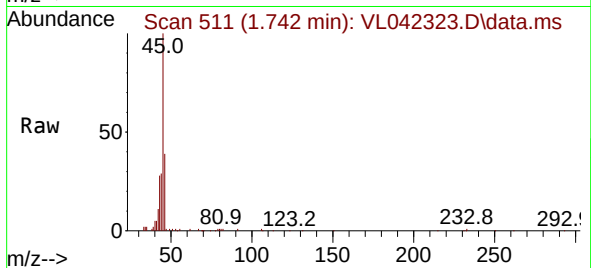




#13
Ethanol
Concen: 27.501 ppbv
RT: 1.742 min Scan# 511
Delta R.T. 0.022 min
Lab File: VL042323.D
Acq: 11 Apr 2025 16:39

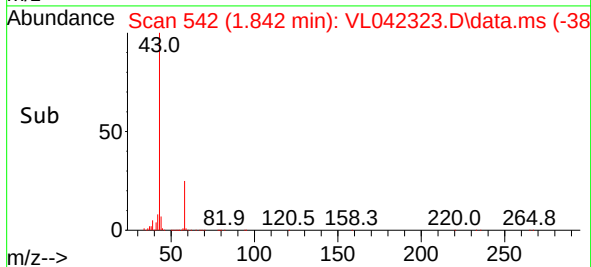
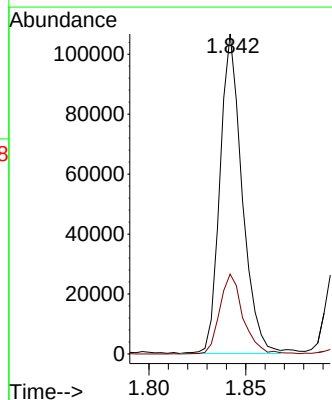
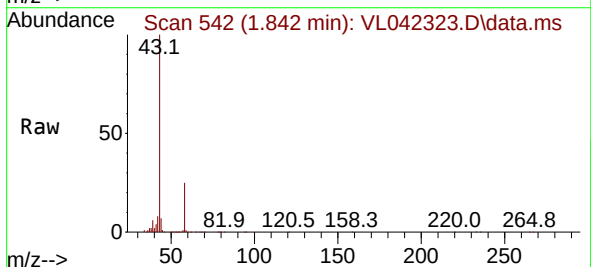
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-4-3242025DL

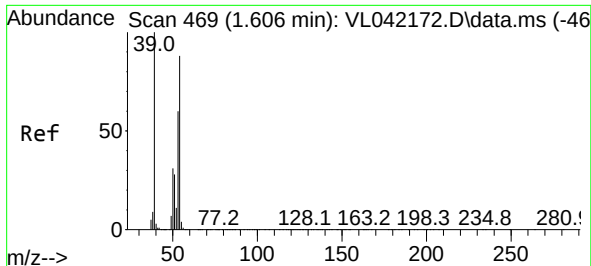
Tgt Ion: 45 Resp: 31113
Ion Ratio Lower Upper
45 100
46 40.0 20.2 80.8



#15
Acetone
Concen: 3.496 ppbv
RT: 1.842 min Scan# 542
Delta R.T. 0.010 min
Lab File: VL042323.D
Acq: 11 Apr 2025 16:39

Tgt Ion: 43 Resp: 84634
Ion Ratio Lower Upper
43 100
58 26.3 23.2 34.8

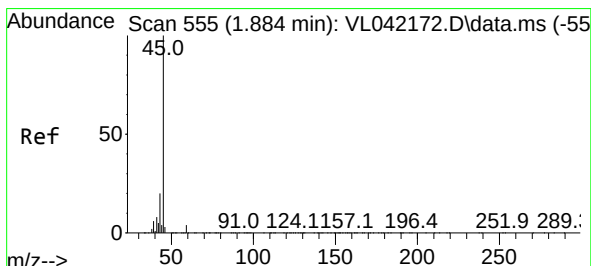
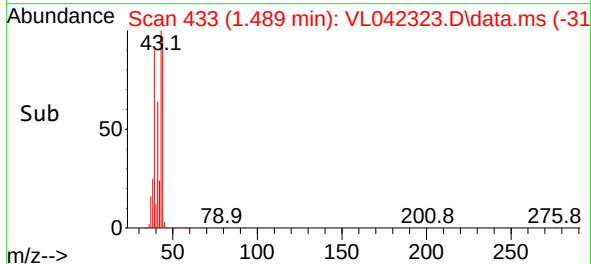
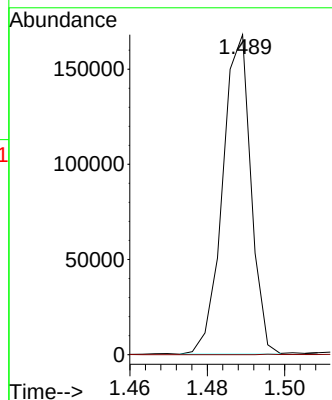
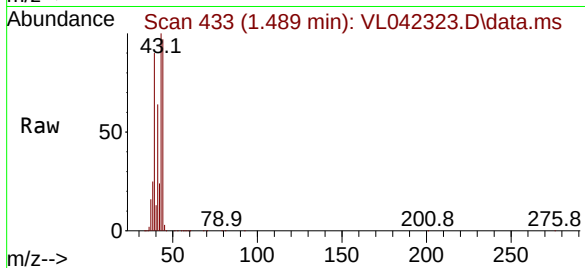




#16
1,3-Butadiene
Concen: 7.213 ppbv
RT: 1.489 min Scan# 41
Delta R.T. -0.117 min
Lab File: VL042323.D
Acq: 11 Apr 2025 16:39

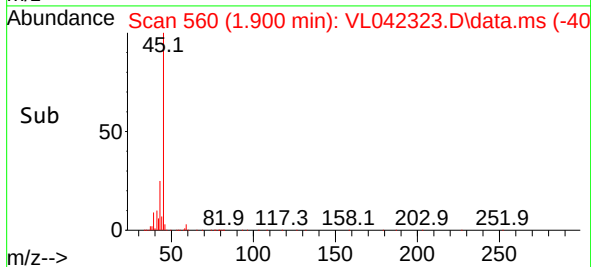
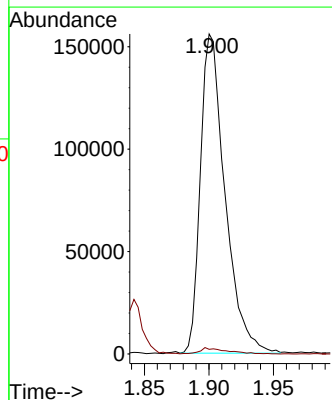
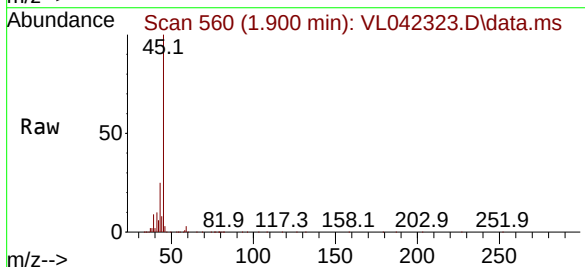
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-4-3242025DL

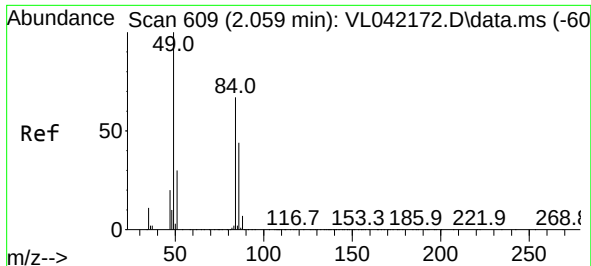
Tgt Ion: 39 Resp: 85279
Ion Ratio Lower Upper
39 100
54 0.2 60.7 91.1#



#19
Isopropyl Alcohol
Concen: 15.191 ppbv
RT: 1.900 min Scan# 560
Delta R.T. 0.016 min
Lab File: VL042323.D
Acq: 11 Apr 2025 16:39

Tgt Ion: 45 Resp: 207505
Ion Ratio Lower Upper
45 100
58 2.1 36.9 55.3#

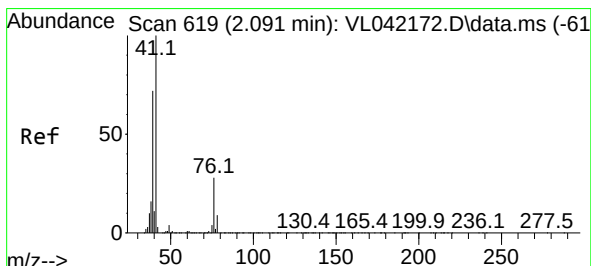
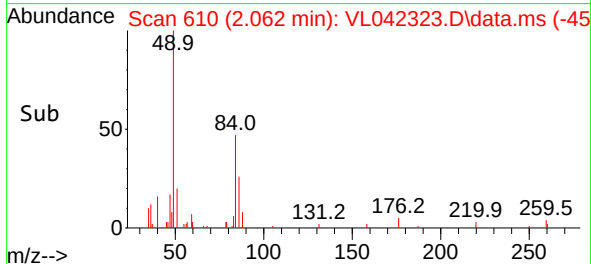
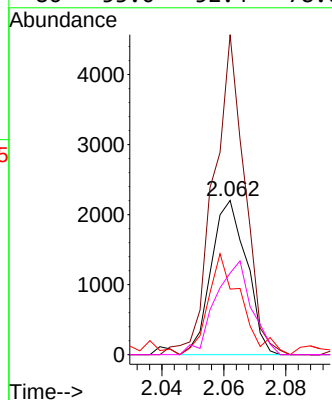
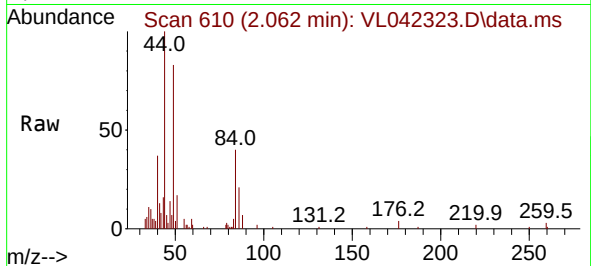




#20
Methylene Chloride
Concen: 0.194 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042323.D
Acq: 11 Apr 2025 16:39

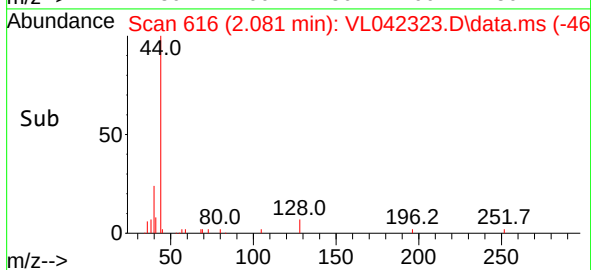
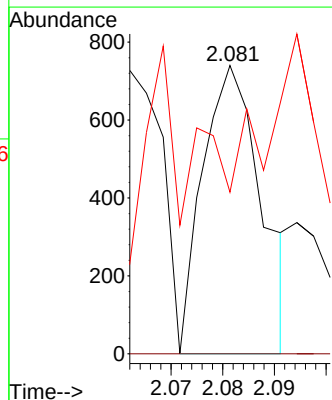
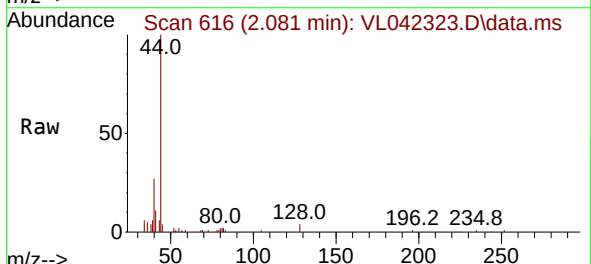
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-4-3242025DL

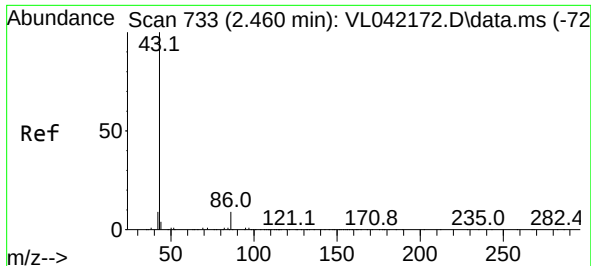
Tgt Ion:	84	Resp:	1746
Ion	Ratio	Lower	Upper
84	100		
49	202.1	120.2	180.4#
51	40.0	37.4	56.0
86	53.0	52.4	78.6



#21
Allyl Chloride
Concen: 0.034 ppbv
RT: 2.081 min Scan# 616
Delta R.T. -0.010 min
Lab File: VL042323.D
Acq: 11 Apr 2025 16:39

Tgt Ion:	41	Resp:	584
Ion	Ratio	Lower	Upper
41	100		
76	0.0	24.1	36.1#
39	0.0	61.1	91.7#

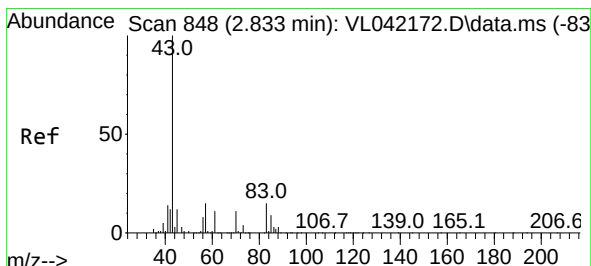
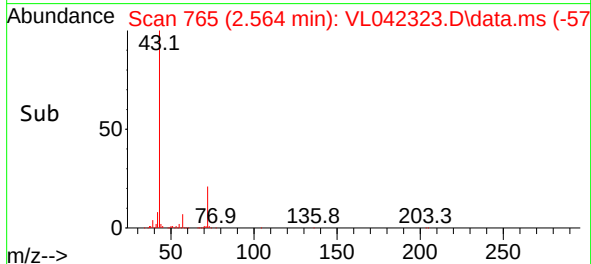
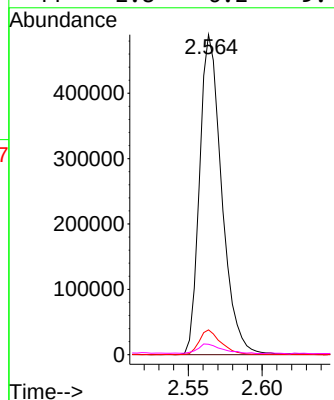
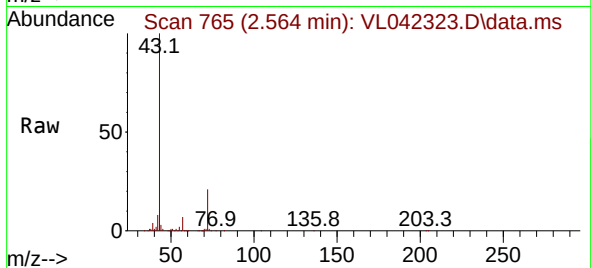




#23
Vinyl Acetate
Concen: 48.674 ppbv
RT: 2.564 min Scan# 70
Delta R.T. 0.103 min
Lab File: VL042323.D
Acq: 11 Apr 2025 16:39

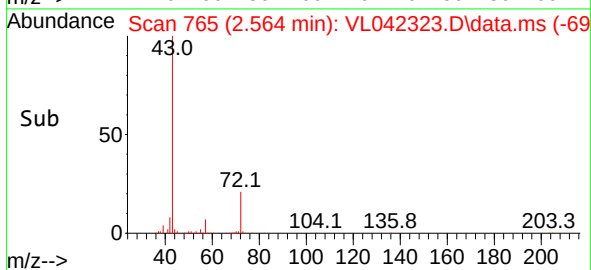
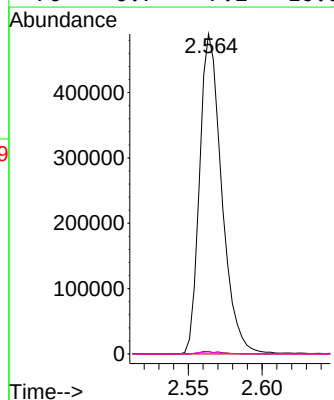
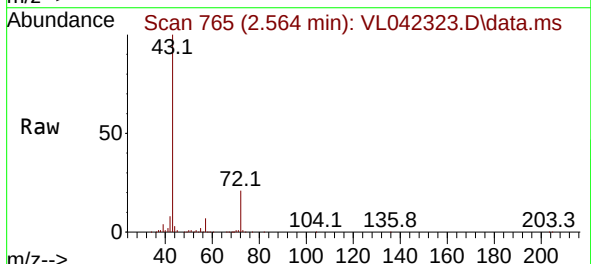
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-4-3242025DL

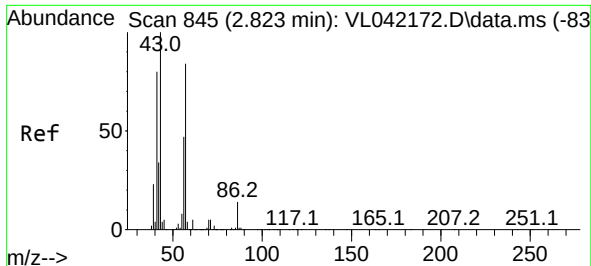
Tgt Ion: 43	Resp: 510012
Ion Ratio	Lower Upper
43	100
86	0.0 5.5 8.3#
42	7.7 8.6 13.0#
44	2.8 6.2 9.4#



#25
Ethyl Acetate
Concen: 8.117 ppbv
RT: 2.564 min Scan# 765
Delta R.T. -0.269 min
Lab File: VL042323.D
Acq: 11 Apr 2025 16:39

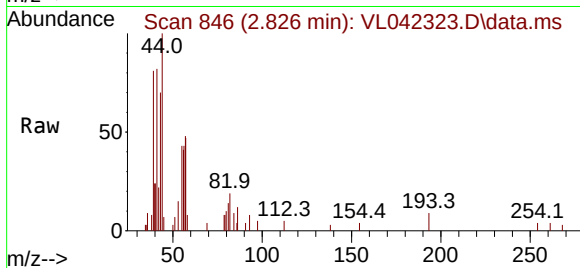
Tgt Ion: 43	Resp: 510012
Ion Ratio	Lower Upper
43	100
45	0.8 8.2 12.2#
61	0.0 7.3 10.9#
70	0.7 7.2 10.8#



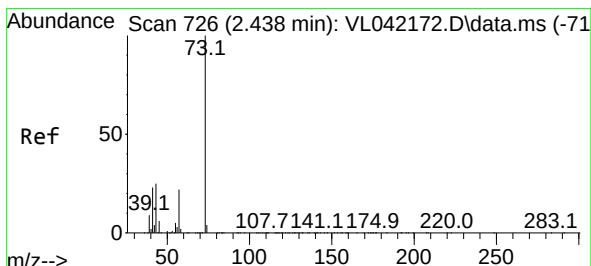
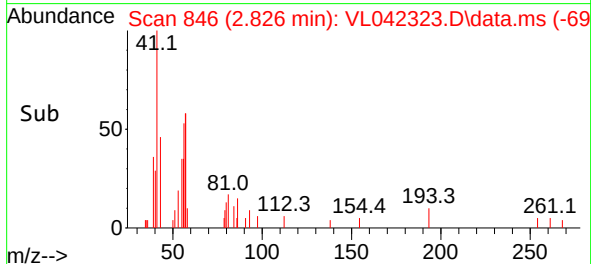
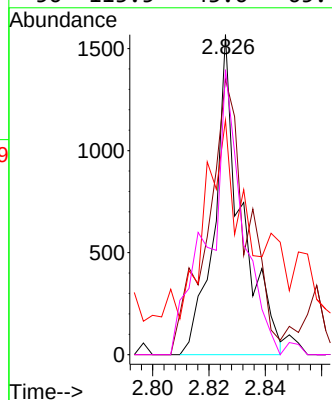


#26
Hexane
Concen: 0.043 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.003 min
Lab File: VL042323.D
Acq: 11 Apr 2025 16:39

Instrument :
MSVOA_1
ClientSampleId :
IA-B10-4-3242025DL

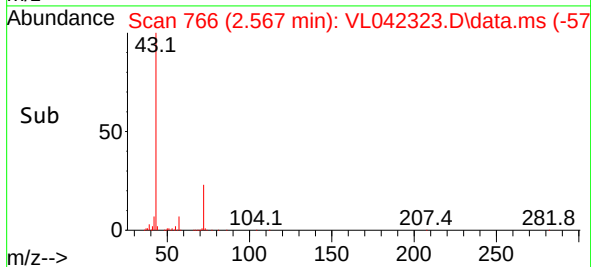
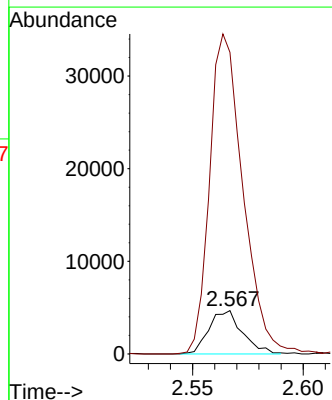
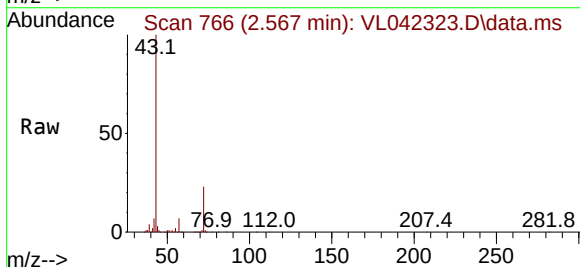


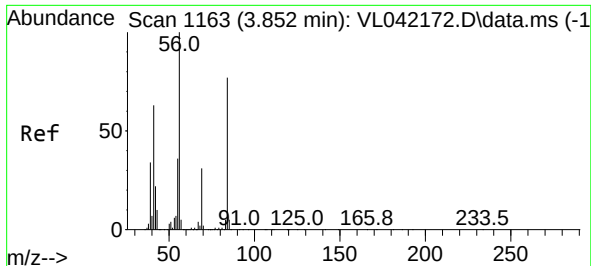
Tgt Ion: 57 Resp: 1035
Ion Ratio Lower Upper
57 100
41 146.8 76.6 114.8#
43 0.0 207.8 311.8#
56 113.5 43.6 65.4#



#28
Methyl tert-Butyl Ether
Concen: 0.325 ppbv
RT: 2.567 min Scan# 766
Delta R.T. 0.129 min
Lab File: VL042323.D
Acq: 11 Apr 2025 16:39

Tgt Ion: 73 Resp: 4917
Ion Ratio Lower Upper
73 100
57 746.1 20.5 30.7#

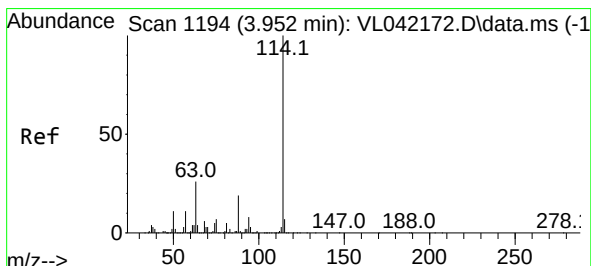
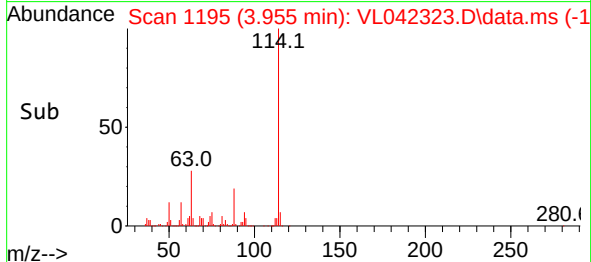
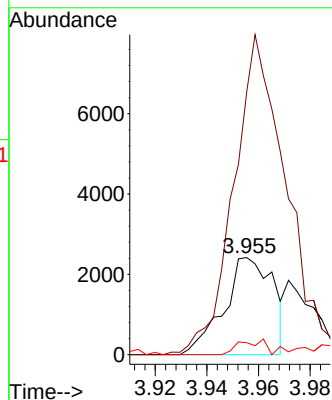
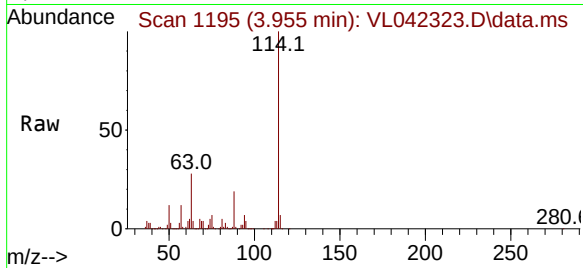




#30
Cyclohexane
Concen: 0.152 ppbv
RT: 3.955 min Scan# 1163
Delta R.T. 0.103 min
Lab File: VL042323.D
Acq: 11 Apr 2025 16:39

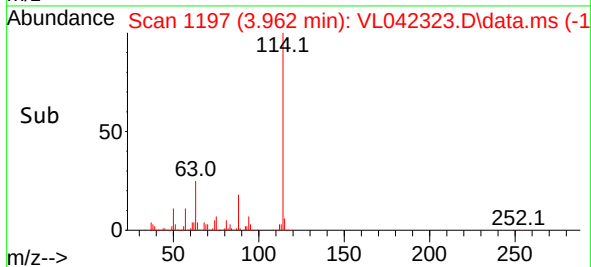
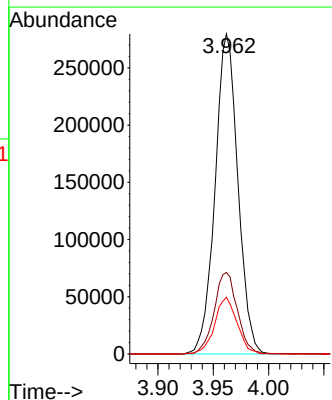
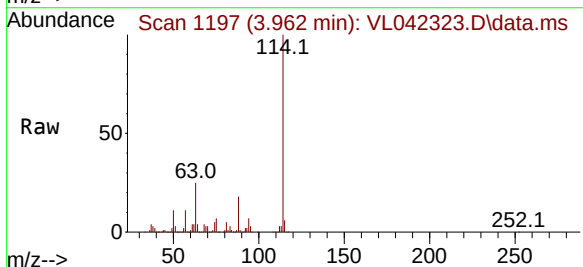
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-4-3242025DL

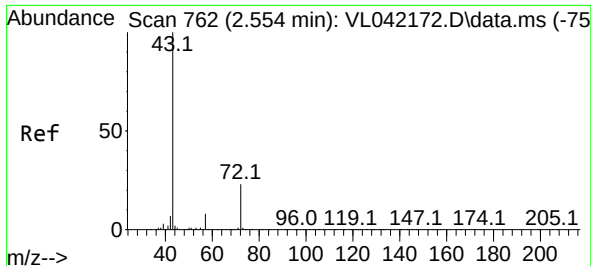
Tgt Ion: 84 Resp: 3209
Ion Ratio Lower Upper
84 100
56 356.4 102.8 154.2#
41 16.9 66.5 99.7#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. 0.010 min
Lab File: VL042323.D
Acq: 11 Apr 2025 16:39

Tgt Ion: 114 Resp: 400666
Ion Ratio Lower Upper
114 100
63 25.9 20.7 31.1
88 17.4 15.0 22.4

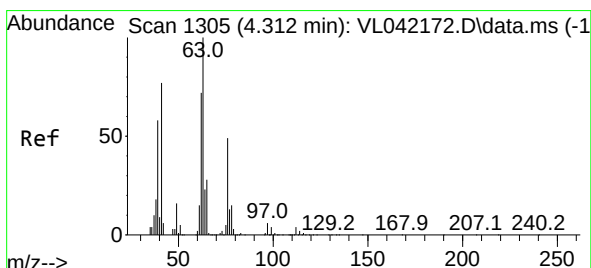
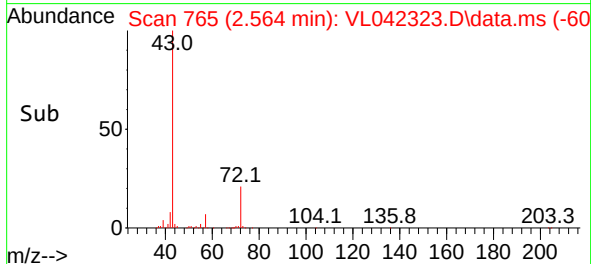
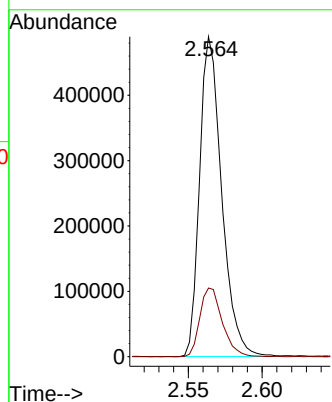
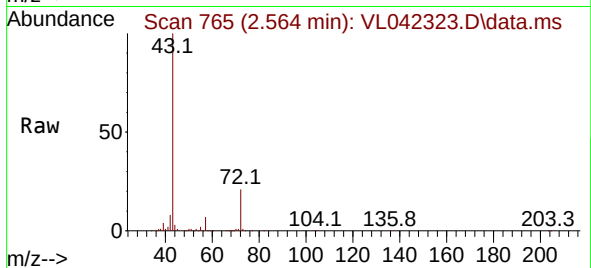




#34
2-Butanone
Concen: 17.554 ppbv
RT: 2.564 min Scan# 70
Delta R.T. 0.010 min
Lab File: VL042323.D
Acq: 11 Apr 2025 16:39

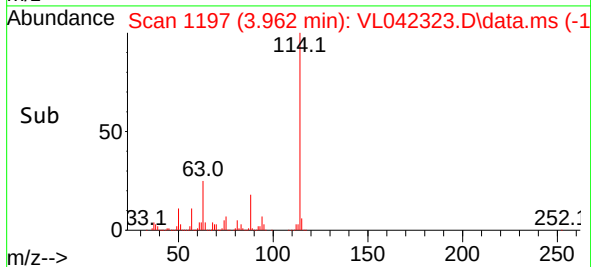
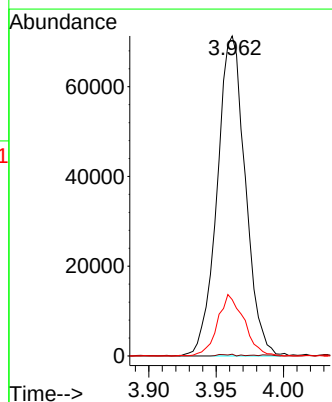
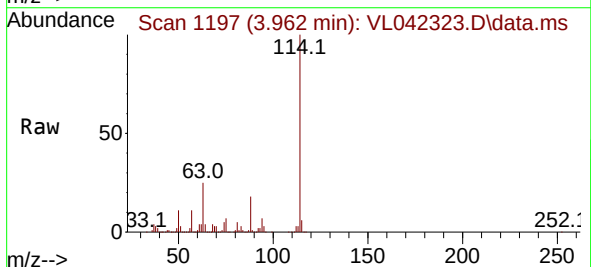
Instrument :
MSVOA_1
ClientSampleId :
IA-B10-4-3242025DL

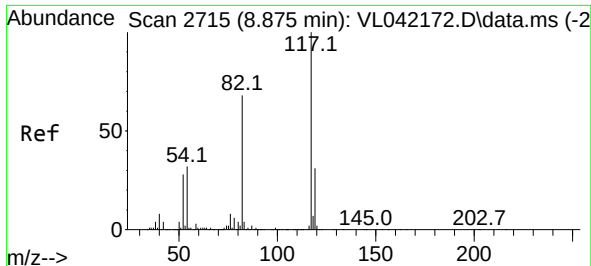
Tgt Ion: 43 Resp: 510012
Ion Ratio Lower Upper
43 100
72 21.9 18.2 27.2



#39
1,2-Dichloropropane
Concen: 7.164 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. -0.350 min
Lab File: VL042323.D
Acq: 11 Apr 2025 16:39

Tgt Ion: 63 Resp: 103631
Ion Ratio Lower Upper
63 100
41 0.5 61.7 92.5#
62 17.4 57.6 86.4#

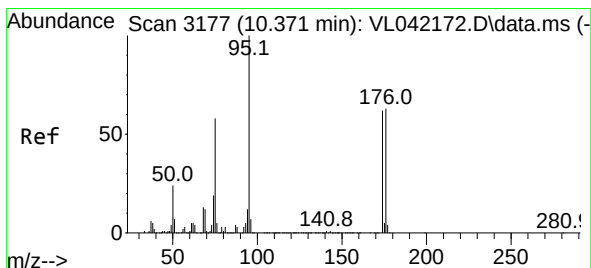
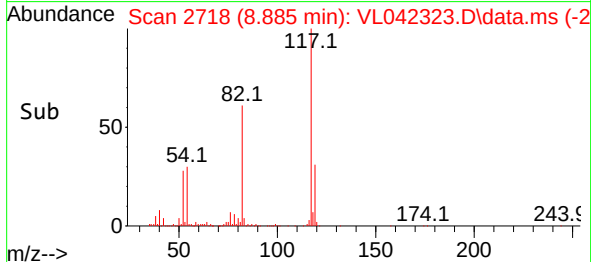
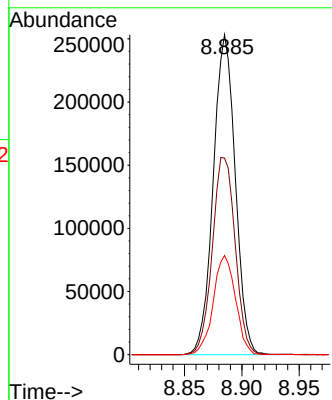
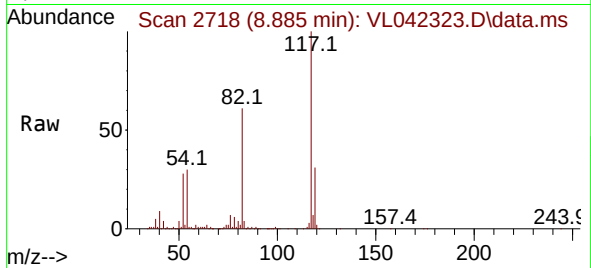




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL042323.D
Acq: 11 Apr 2025 16:39

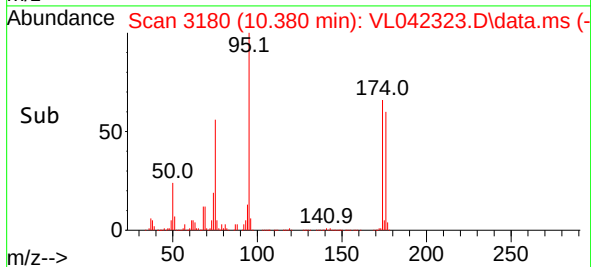
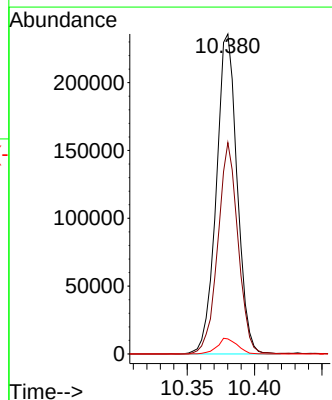
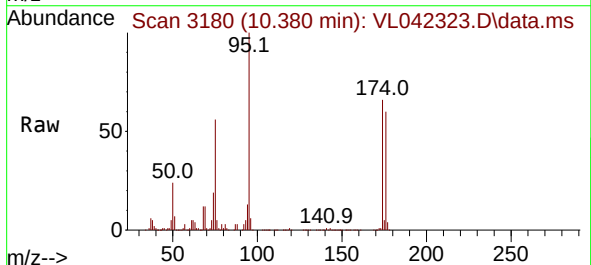
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-4-3242025DL

Tgt Ion:	117	Resp:	338211
Ion	Ratio	Lower	Upper
117	100		
82	64.2	55.8	83.6
119	31.4	25.5	38.3



#68
1-Bromo-4-Fluorobenzene
Concen: 9.137 ppbv
RT: 10.380 min Scan# 3180
Delta R.T. 0.010 min
Lab File: VL042323.D
Acq: 11 Apr 2025 16:39

Tgt Ion:	95	Resp:	253785
Ion	Ratio	Lower	Upper
95	100		
174	64.4	50.6	76.0
175	4.7	3.8	5.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
 Data File : VL042324.D
 Acq On : 11 Apr 2025 17:10
 Operator : SY/MD
 Sample : Q1665-11DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B10-1-3242025DL

Quant Time: Apr 11 23:03:08 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)

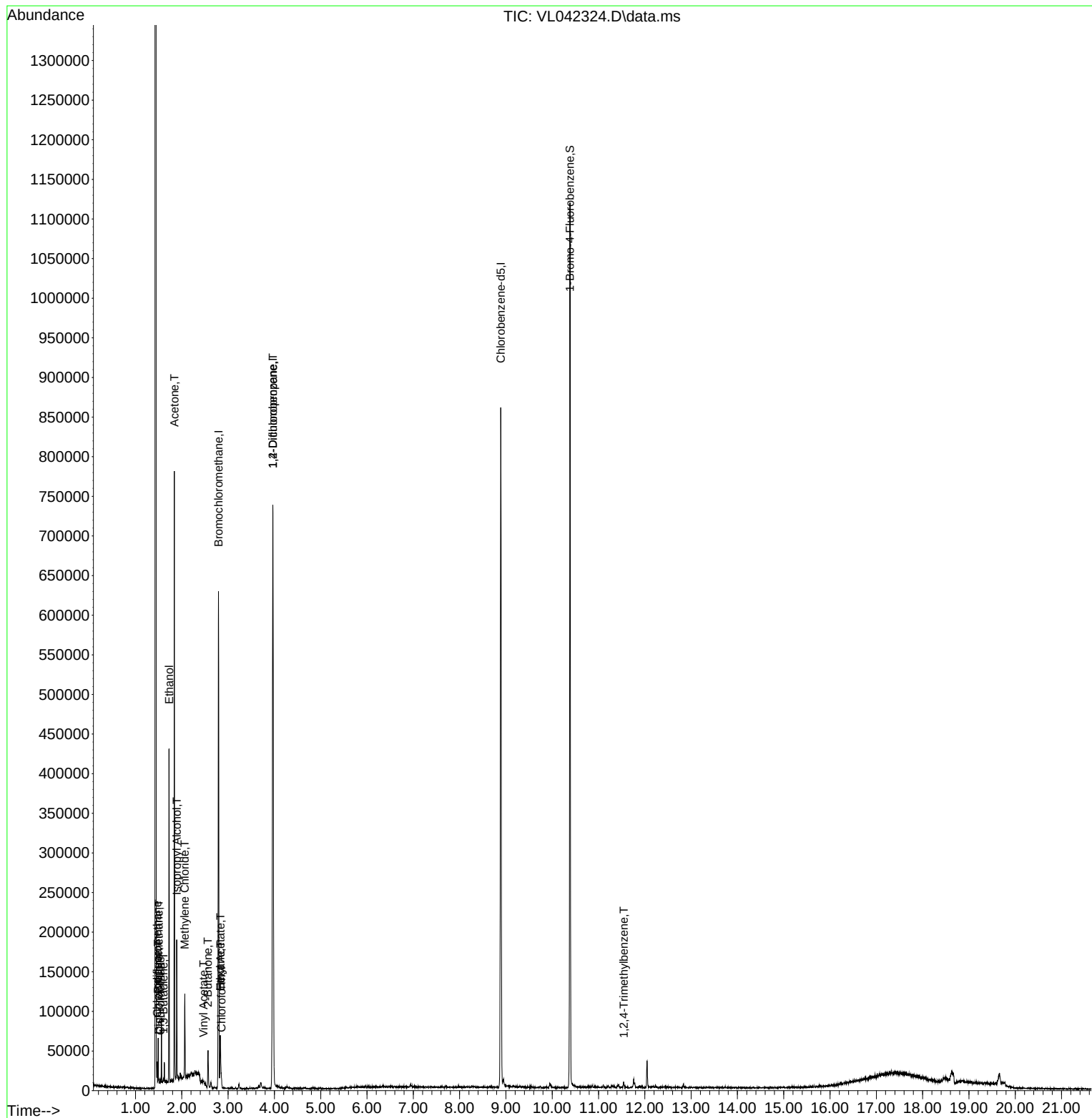
Internal Standards						
1) Bromochloromethane	2.793	49	176603	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	398133	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.888	117	325777	10.000	ppbv	0.01
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	246592	9.217	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.200%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.502	85	1409	0.054	ppbv	100
3) Chlorodifluoromethane	1.470	51	7277	0.273	ppbv #	64
4) Chloromethane	1.534	50	743	0.070	ppbv #	29
9) Propene	1.489	41	4857	0.398	ppbv	87
13) Ethanol	1.725	45	151755	131.481	ppbv	81
15) Acetone	1.839	43	316091	12.798	ppbv	96
16) 1,3-Butadiene	1.602	39	1089	0.090	ppbv #	58
19) Isopropyl Alcohol	1.890	45	67257	4.826	ppbv #	1
20) Methylene Chloride	2.065	84	15039	1.635	ppbv	90
23) Vinyl Acetate	2.473	43	551	0.052	ppbv #	38
25) Ethyl Acetate	2.832	43	12443	0.194	ppbv #	90
26) Hexane	2.832	57	10875	0.439	ppbv #	41
29) Chloroform	2.855	83	3694	0.102	ppbv	97
34) 2-Butanone	2.564	43	28789	0.997	ppbv	97
39) 1,2-Dichloropropane	3.968	63	104076	7.240	ppbv #	21
74) 1,2,4-Trimethylbenzene	11.545	105	2245	0.039	ppbv #	66

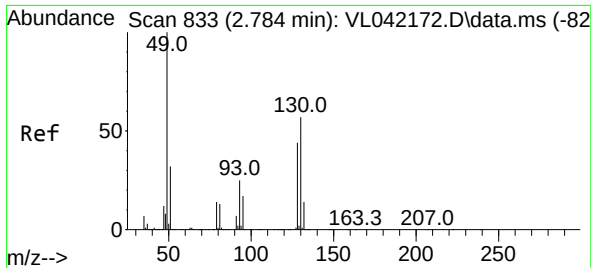
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042324.D
Acq On : 11 Apr 2025 17:10
Operator : SY/MD
Sample : Q1665-11DL 10X
Misc : 400mL/MSVOA_L
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B10-1-3242025DL

Quant Time: Apr 11 23:03:08 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

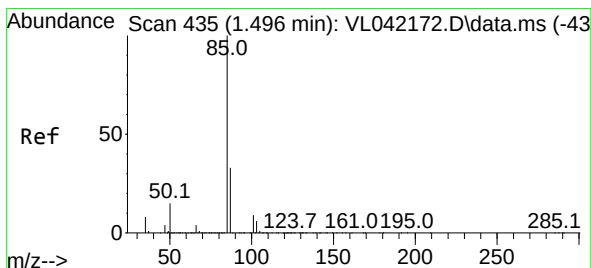
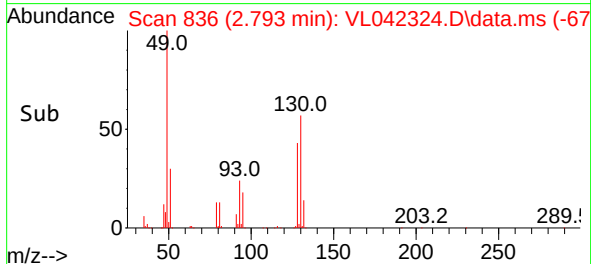
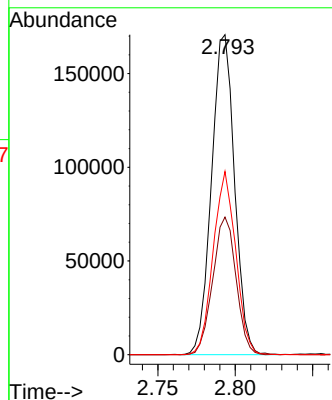
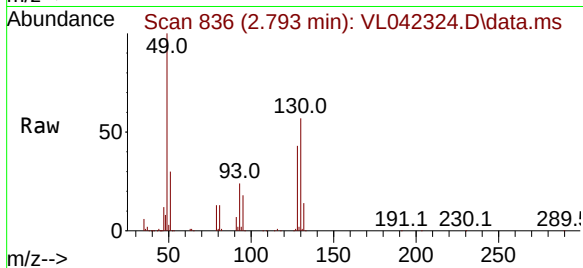




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.793 min Scan# 81
Delta R.T. 0.009 min
Lab File: VL042324.D
Acq: 11 Apr 2025 17:10

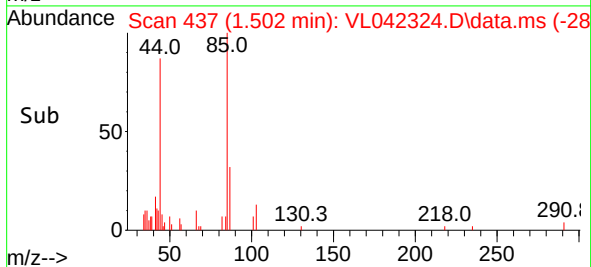
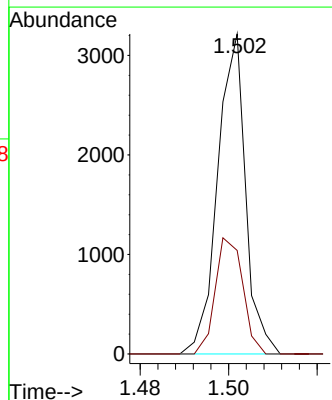
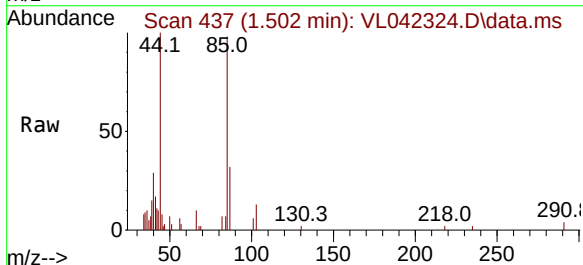
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-1-3242025DL

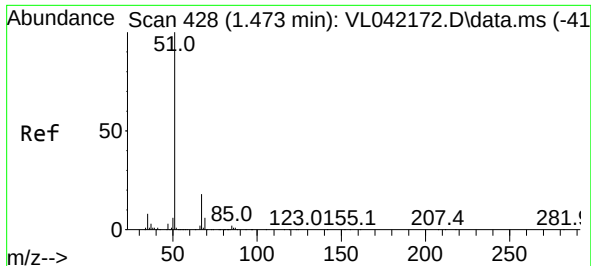
Tgt Ion: 49 Resp: 176603
Ion Ratio Lower Upper
49 100
128 43.4 22.9 68.5
130 56.0 28.8 86.4



#2
Dichlorodifluoromethane
Concen: 0.054 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.006 min
Lab File: VL042324.D
Acq: 11 Apr 2025 17:10

Tgt Ion: 85 Resp: 1409
Ion Ratio Lower Upper
85 100
87 32.4 26.1 39.1

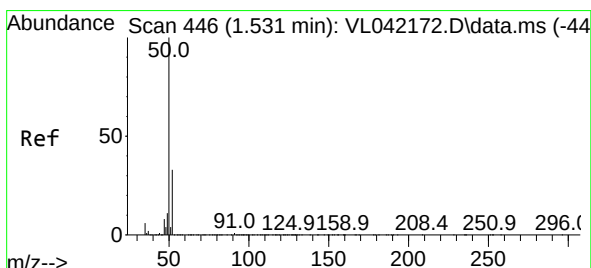
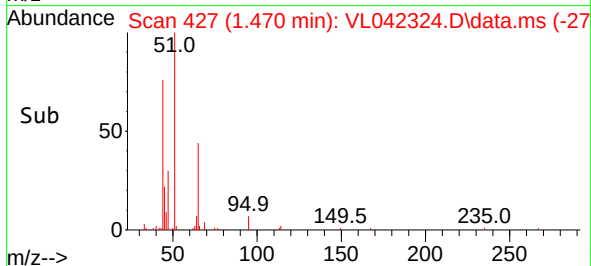
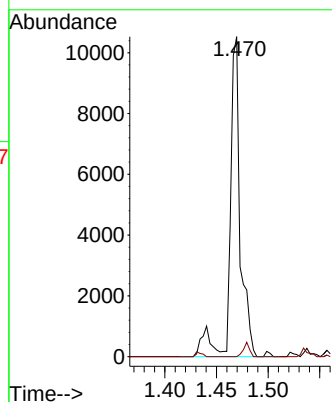
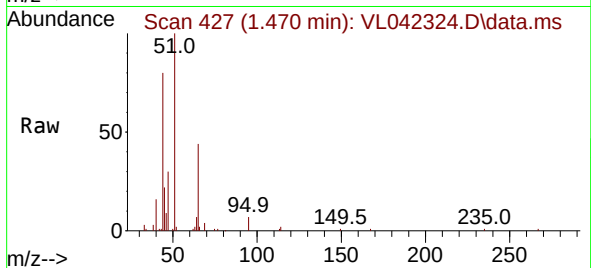




#3
Chlorodifluoromethane
Concen: 0.273 ppbv
RT: 1.470 min Scan# 41
Delta R.T. -0.004 min
Lab File: VL042324.D
Acq: 11 Apr 2025 17:10

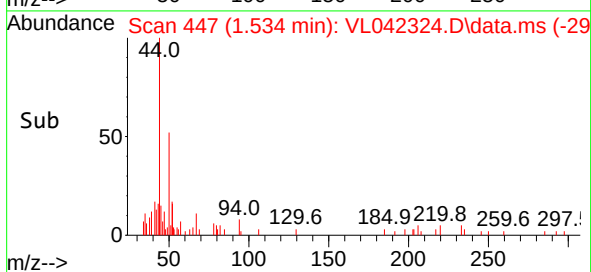
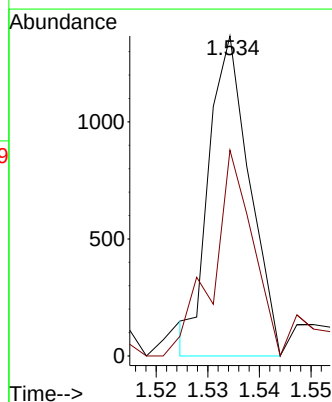
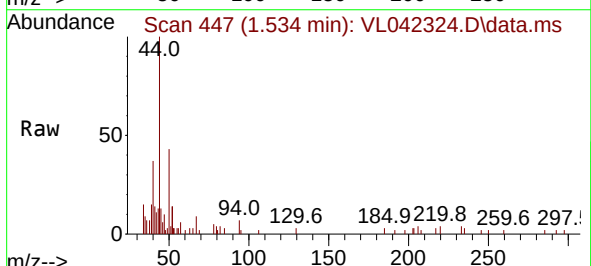
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-1-3242025DL

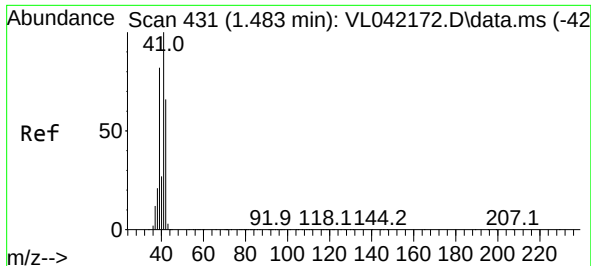
Tgt Ion: 51 Resp: 7277
Ion Ratio Lower Upper
51 100
67 2.6 15.0 22.6#



#4
Chloromethane
Concen: 0.070 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042324.D
Acq: 11 Apr 2025 17:10

Tgt Ion: 50 Resp: 743
Ion Ratio Lower Upper
50 100
52 72.4 26.1 39.1#

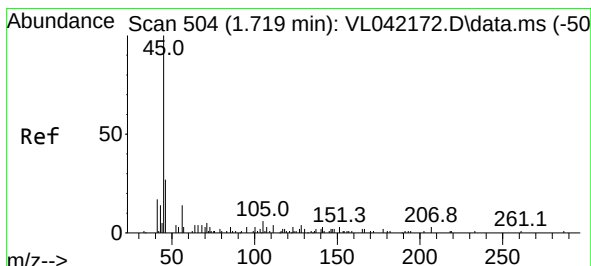
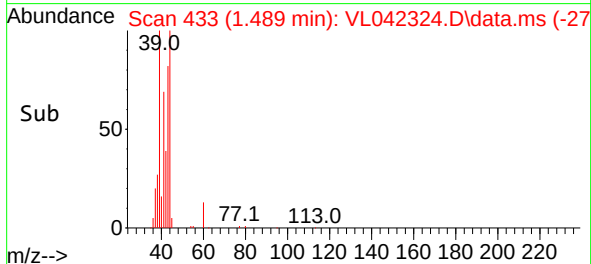
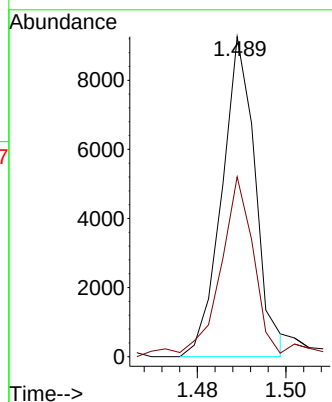
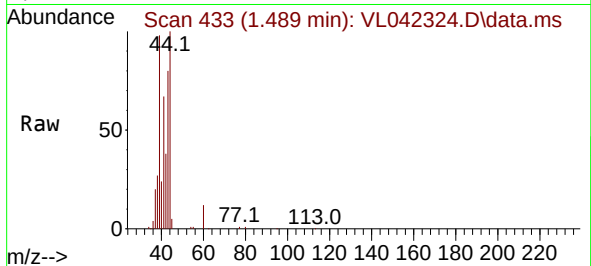




#9
Propene
Concen: 0.398 ppbv
RT: 1.489 min Scan# 41
Delta R.T. 0.006 min
Lab File: VL042324.D
Acq: 11 Apr 2025 17:10

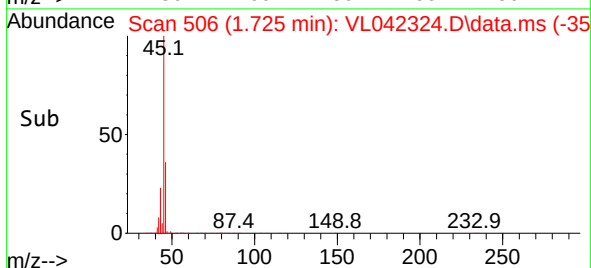
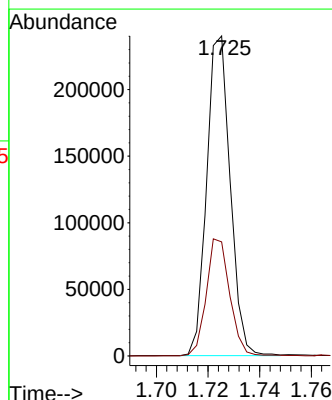
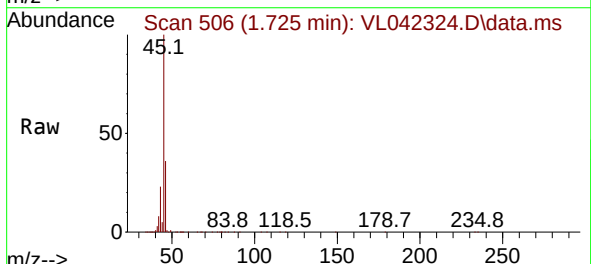
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-1-3242025DL

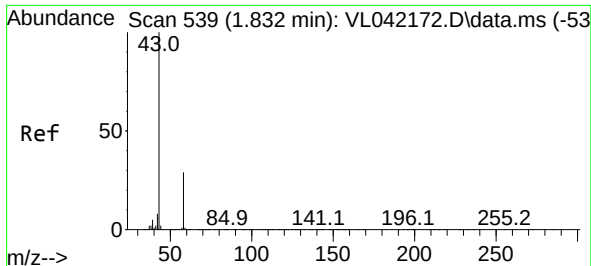
Tgt Ion: 41 Resp: 4857
Ion Ratio Lower Upper
41 100
42 59.0 55.4 83.2



#13
Ethanol
Concen: 131.481 ppbv
RT: 1.725 min Scan# 506
Delta R.T. 0.006 min
Lab File: VL042324.D
Acq: 11 Apr 2025 17:10

Tgt Ion: 45 Resp: 151755
Ion Ratio Lower Upper
45 100
46 37.0 20.2 80.8





#15

Acetone

Concen: 12.798 ppbv

RT: 1.839 min Scan# 54

Delta R.T. 0.006 min

Lab File: VL042324.D

Acq: 11 Apr 2025 17:10

Instrument :

MSVOA_L

ClientSampleId :

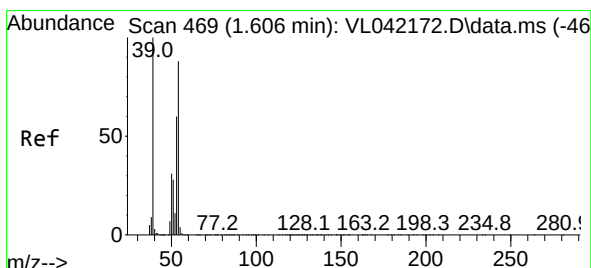
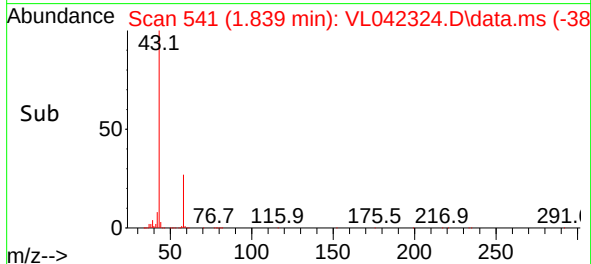
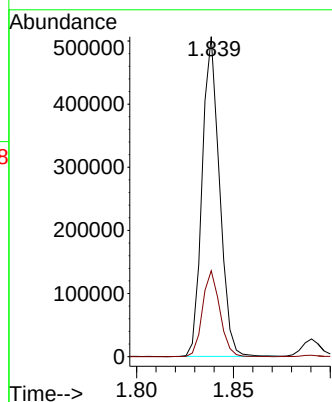
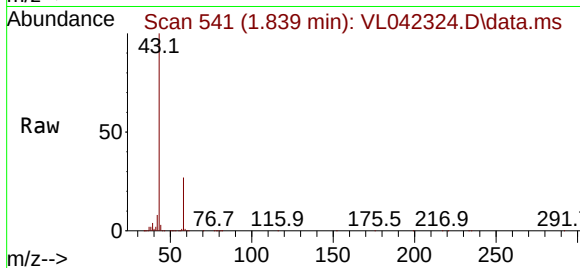
IA-B10-1-3242025DL

Tgt Ion: 43 Resp: 316091

Ion Ratio Lower Upper

43 100

58 26.9 23.2 34.8



#16

1,3-Butadiene

Concen: 0.090 ppbv

RT: 1.602 min Scan# 468

Delta R.T. -0.004 min

Lab File: VL042324.D

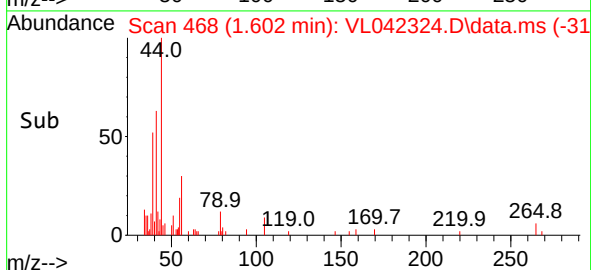
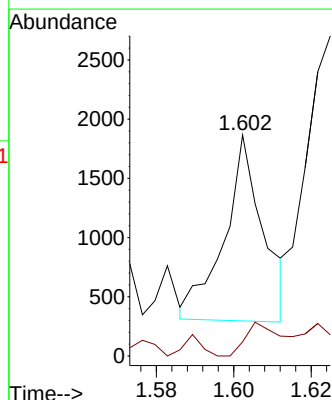
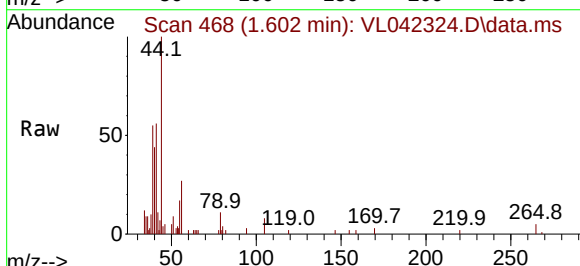
Acq: 11 Apr 2025 17:10

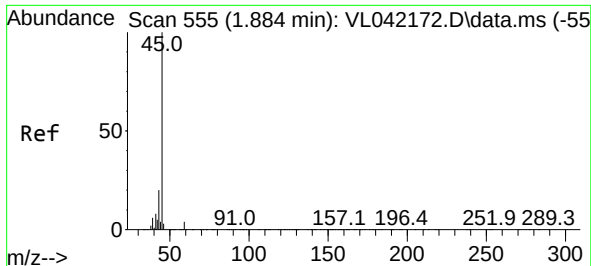
Tgt Ion: 39 Resp: 1089

Ion Ratio Lower Upper

39 100

54 40.1 60.7 91.1#

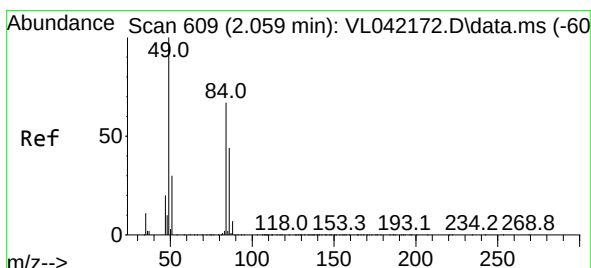
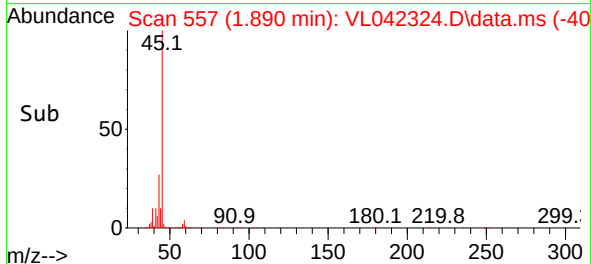
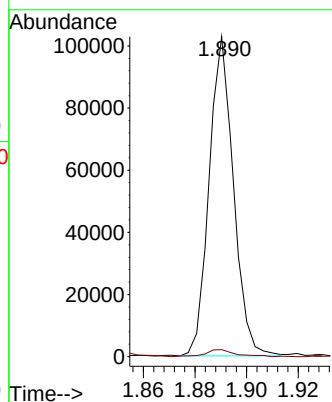
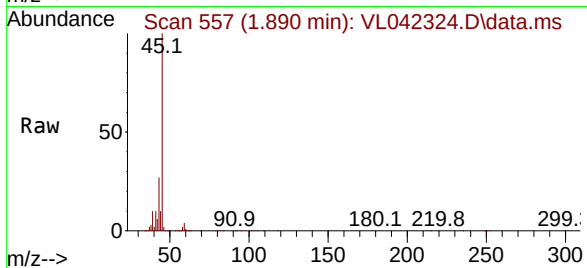




#19
Isopropyl Alcohol
Concen: 4.826 ppbv
RT: 1.890 min Scan# 51
Delta R.T. 0.006 min
Lab File: VL042324.D
Acq: 11 Apr 2025 17:10

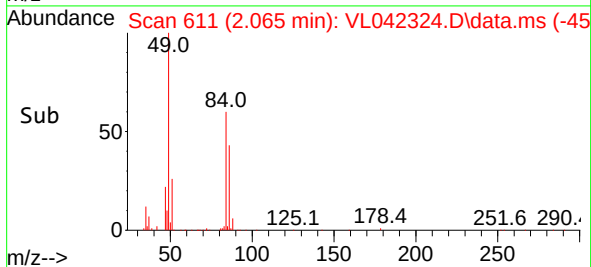
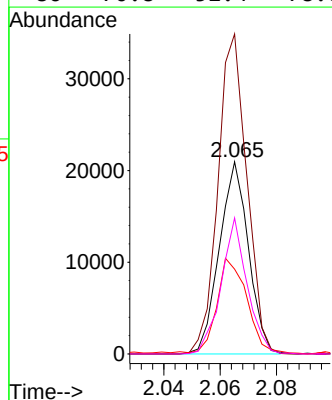
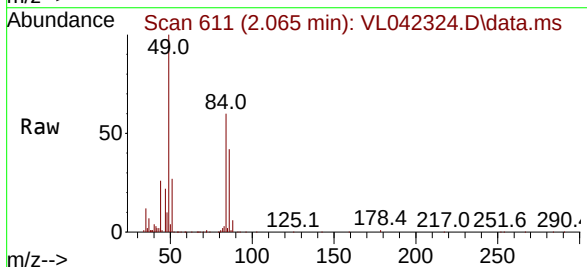
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-1-3242025DL

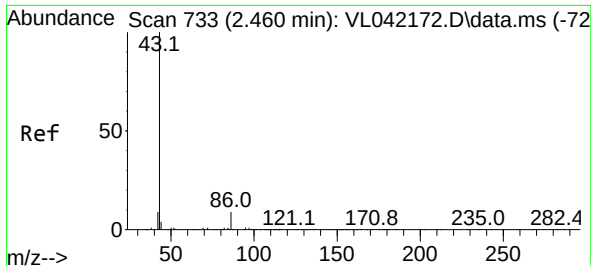
Tgt Ion: 45 Resp: 67257
Ion Ratio Lower Upper
45 100
58 126.4 36.9 55.3#



#20
Methylene Chloride
Concen: 1.635 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.006 min
Lab File: VL042324.D
Acq: 11 Apr 2025 17:10

Tgt Ion: 84 Resp: 15039
Ion Ratio Lower Upper
84 100
49 166.5 120.2 180.4
51 42.7 37.4 56.0
86 70.8 52.4 78.6

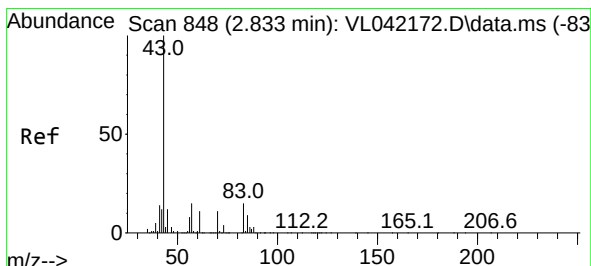
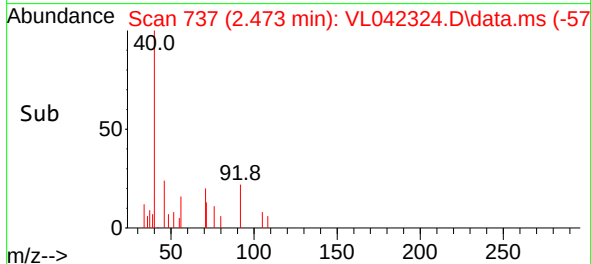
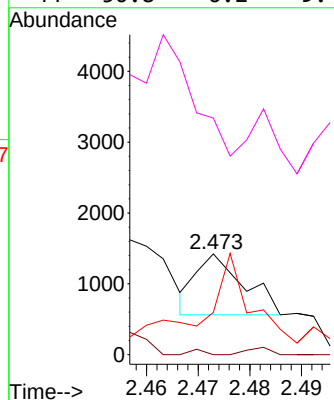
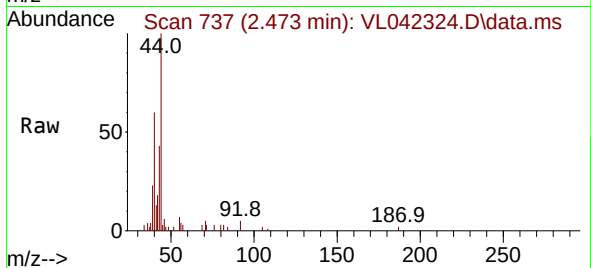




#23
Vinyl Acetate
Concen: 0.052 ppbv
RT: 2.473 min Scan# 71
Delta R.T. 0.013 min
Lab File: VL042324.D
Acq: 11 Apr 2025 17:10

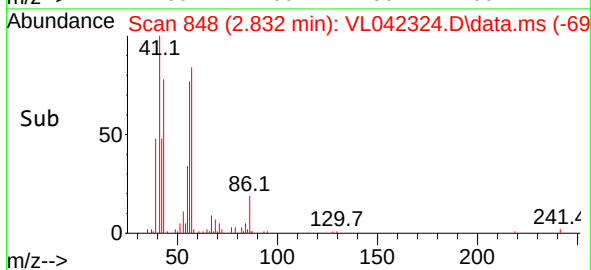
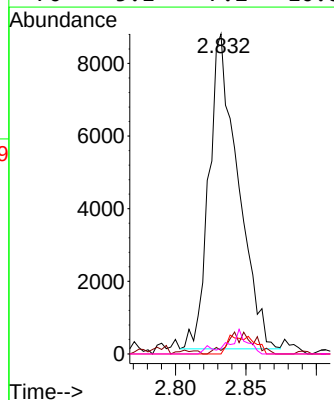
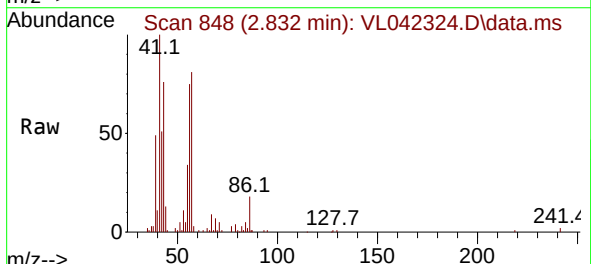
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-1-3242025DL

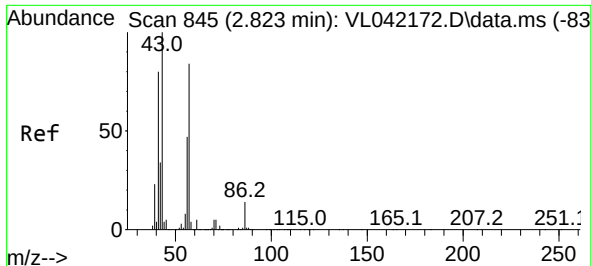
Tgt Ion:	43	Resp:	551
Ion	Ratio	Lower	Upper
43	100		
86	0.0	5.5	8.3#
42	27.6	8.6	13.0#
44	50.8	6.2	9.4#



#25
Ethyl Acetate
Concen: 0.194 ppbv
RT: 2.832 min Scan# 848
Delta R.T. -0.000 min
Lab File: VL042324.D
Acq: 11 Apr 2025 17:10

Tgt Ion:	43	Resp:	12443
Ion	Ratio	Lower	Upper
43	100		
45	6.9	8.2	12.2#
61	5.2	7.3	10.9#
70	5.1	7.2	10.8#

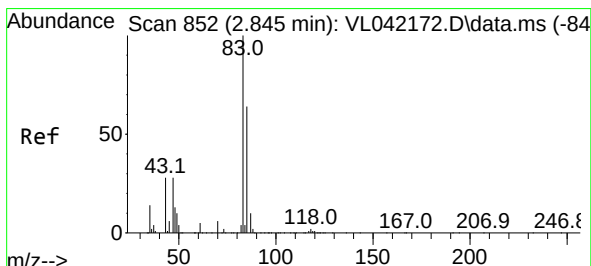
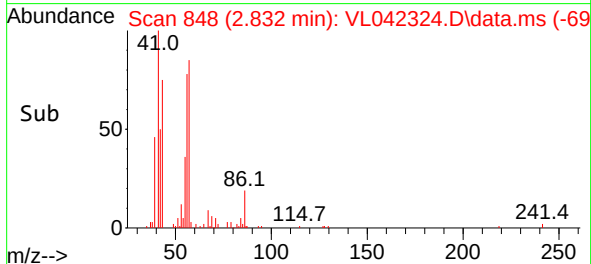
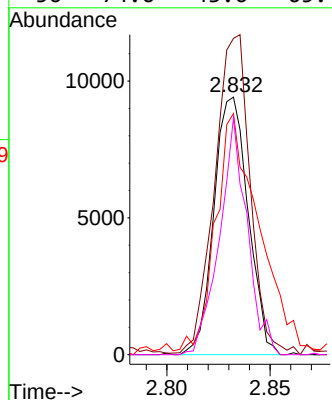
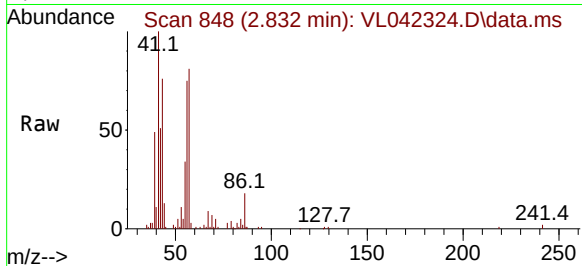




#26
Hexane
Concen: 0.439 ppbv
RT: 2.832 min Scan# 845
Delta R.T. 0.009 min
Lab File: VL042324.D
Acq: 11 Apr 2025 17:10

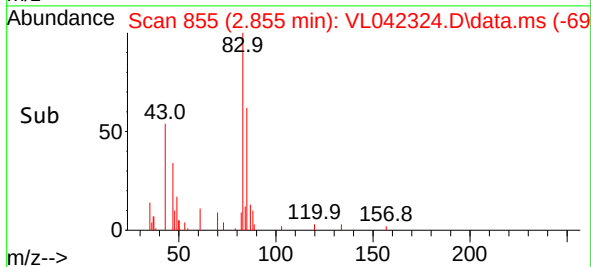
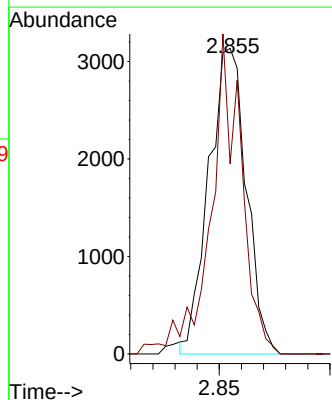
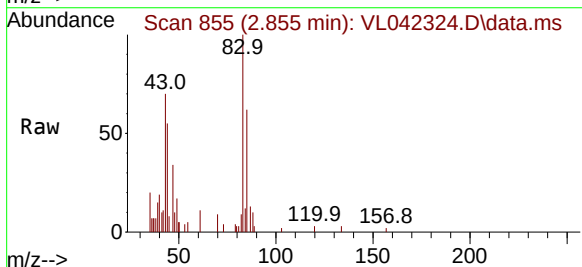
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-1-3242025DL

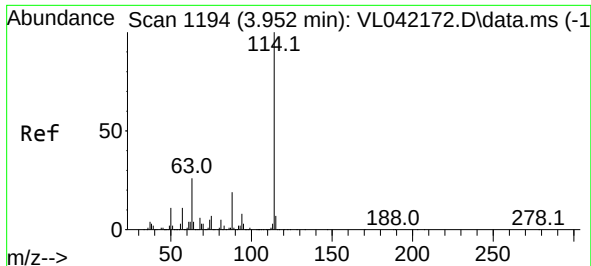
Tgt Ion: 57 Resp: 10875
Ion Ratio Lower Upper
57 100
41 127.0 76.6 114.8#
43 125.5 207.8 311.8#
56 74.6 43.6 65.4#



#29
Chloroform
Concen: 0.102 ppbv
RT: 2.855 min Scan# 855
Delta R.T. 0.009 min
Lab File: VL042324.D
Acq: 11 Apr 2025 17:10

Tgt Ion: 83 Resp: 3694
Ion Ratio Lower Upper
83 100
85 62.2 51.4 77.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.968 min Scan# 1199

Delta R.T. 0.016 min

Lab File: VL042324.D

Acq: 11 Apr 2025 17:10

Instrument :

MSVOA_L

ClientSampleId :

LA-B10-1-3242025DL

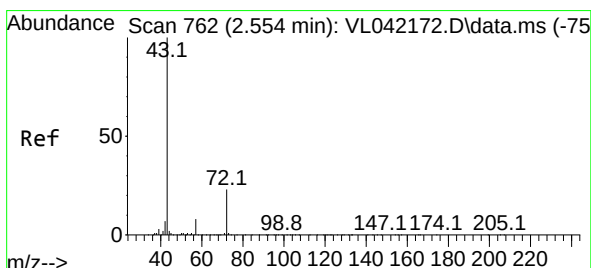
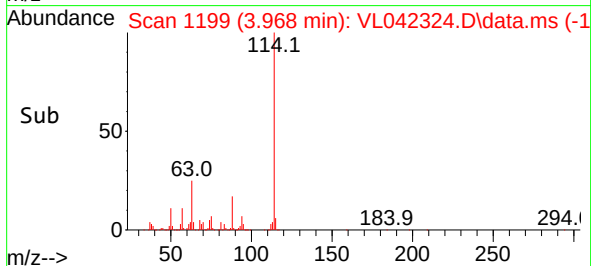
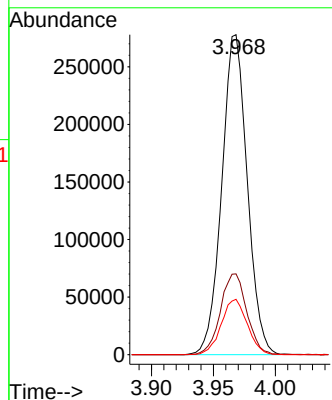
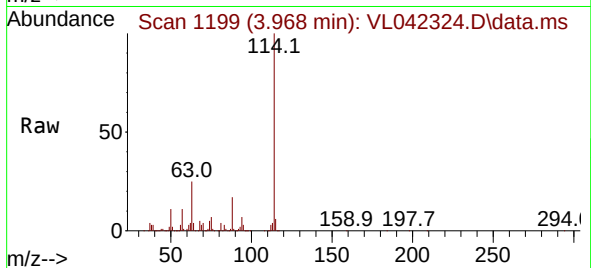
Tgt Ion:114 Resp: 398133

Ion Ratio Lower Upper

114 100

63 26.2 20.7 31.1

88 17.7 15.0 22.4



#34

2-Butanone

Concen: 0.997 ppbv

RT: 2.564 min Scan# 765

Delta R.T. 0.009 min

Lab File: VL042324.D

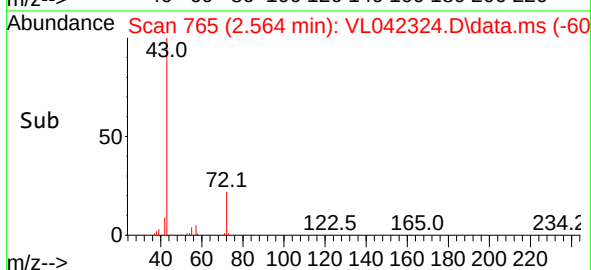
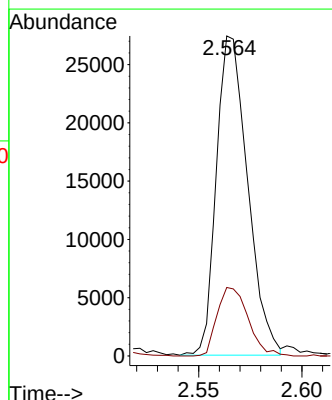
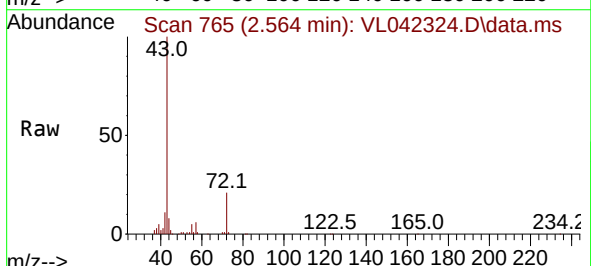
Acq: 11 Apr 2025 17:10

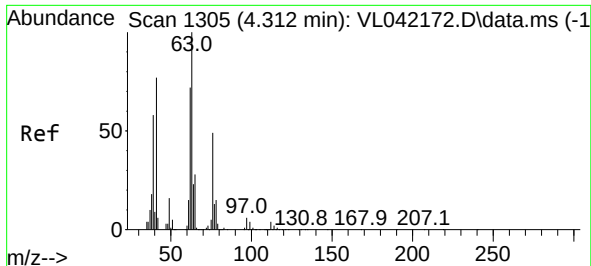
Tgt Ion: 43 Resp: 28789

Ion Ratio Lower Upper

43 100

72 21.4 18.2 27.2





#39

1,2-Dichloropropane

Concen: 7.240 ppbv

RT: 3.968 min Scan# 1199

Delta R.T. -0.343 min

Lab File: VL042324.D

Acq: 11 Apr 2025 17:10

Instrument :

MSVOA_L

ClientSampleId :

IA-B10-1-3242025DL

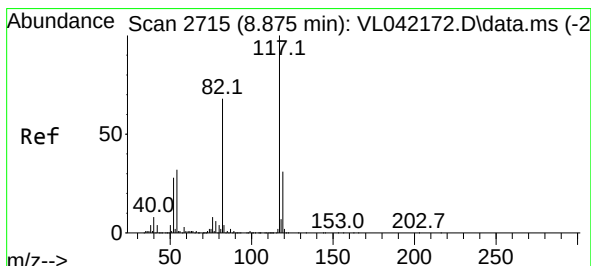
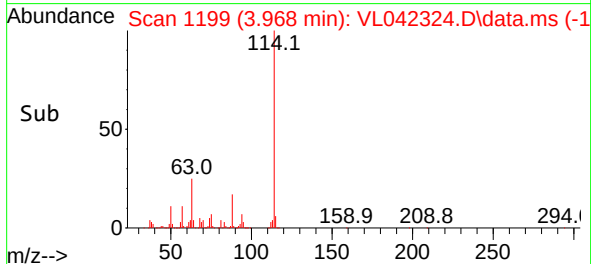
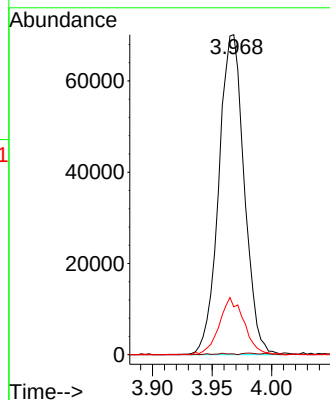
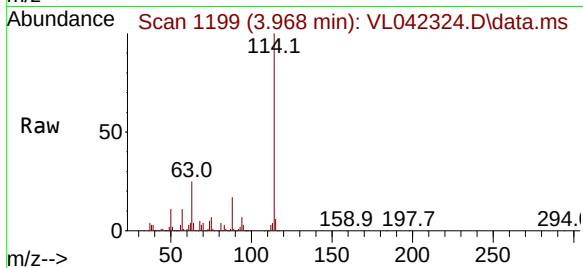
Tgt Ion: 63 Resp: 104076

Ion Ratio Lower Upper

63 100

41 0.5 61.7 92.5#

62 15.0 57.6 86.4#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.888 min Scan# 2719

Delta R.T. 0.013 min

Lab File: VL042324.D

Acq: 11 Apr 2025 17:10

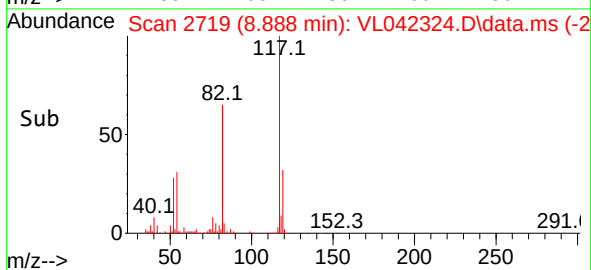
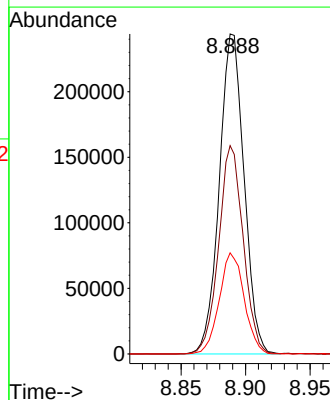
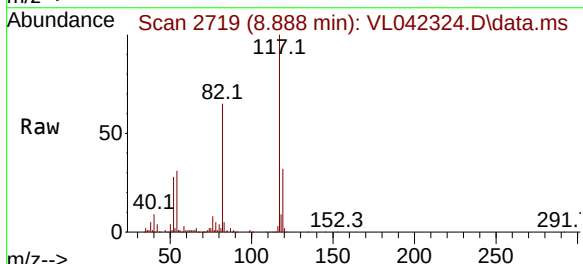
Tgt Ion: 117 Resp: 325777

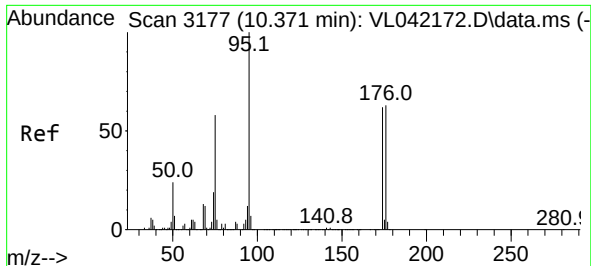
Ion Ratio Lower Upper

117 100

82 64.5 55.8 83.6

119 31.8 25.5 38.3

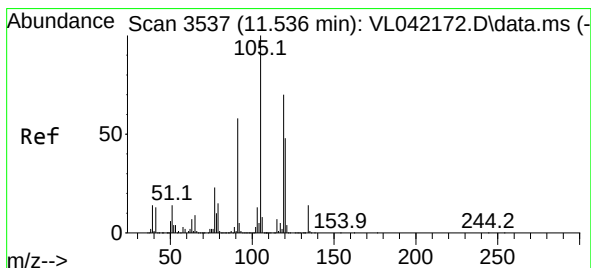
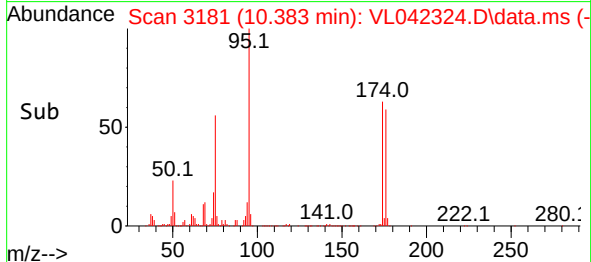
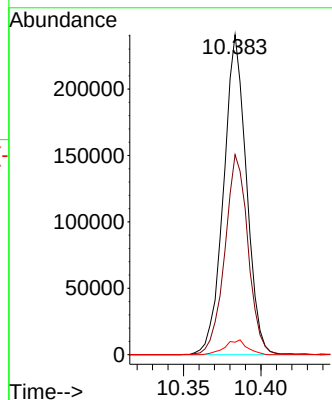
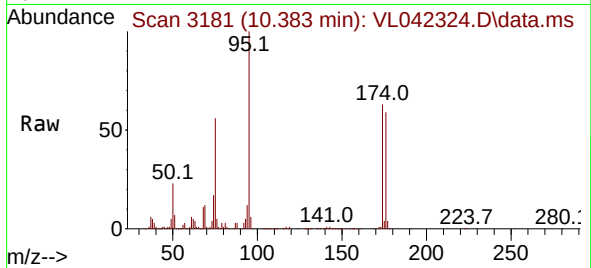




#68
1-Bromo-4-Fluorobenzene
Concen: 9.217 ppbv
RT: 10.383 min Scan# 3177
Delta R.T. 0.013 min
Lab File: VL042324.D
Acq: 11 Apr 2025 17:10

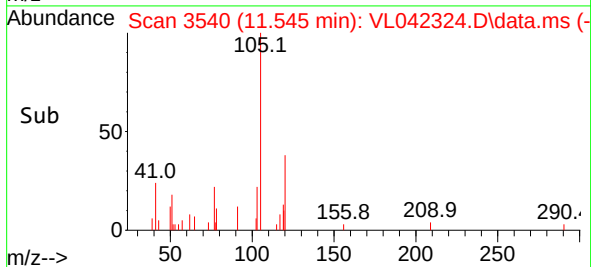
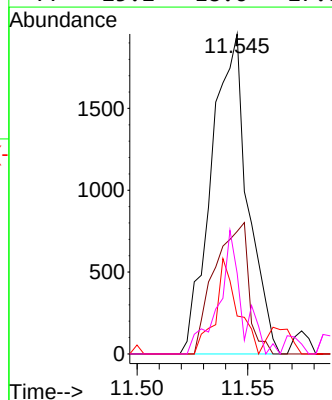
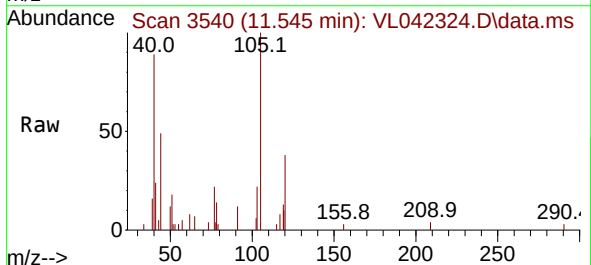
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-1-3242025DL

Tgt Ion: 95 Resp: 246592
Ion Ratio Lower Upper
95 100
174 63.8 50.6 76.0
175 4.5 3.8 5.6



#74
1,2,4-Trimethylbenzene
Concen: 0.039 ppbv
RT: 11.545 min Scan# 3540
Delta R.T. 0.009 min
Lab File: VL042324.D
Acq: 11 Apr 2025 17:10

Tgt Ion: 105 Resp: 2245
Ion Ratio Lower Upper
105 100
120 38.3 38.6 58.0#
91 11.8 46.2 69.2#
77 25.2 18.6 27.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041525\
 Data File : VL042326.D
 Acq On : 15 Apr 2025 11:30
 Operator : SY/MD
 Sample : VSTDC0010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDC0010

Quant Time: Apr 16 01:29:10 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	2.806	49	172263	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.988	114	457227	10.000	ppbv	0.04
55) Chlorobenzene-d5	8.911	117	411493	10.000	ppbv	0.04

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.403	95	325960	9.646	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.500%

Target Compounds				Qvalue		
2) Dichlorodifluoromethane	1.505	85	214541	8.435	ppbv	99
3) Chlorodifluoromethane	1.483	51	235250	9.054	ppbv	98
4) Chloromethane	1.541	50	89653	8.625	ppbv	98
5) Vinyl Chloride	1.589	62	83204	7.554	ppbv	96
6) Bromomethane	1.677	94	36297	7.705	ppbv	99
7) Chloroethane	1.716	64	32145	7.704	ppbv	97
8) Dichlorotetrafluoroethane	1.564	85	182884	8.443	ppbv	94
9) Propene	1.492	41	101034	8.483	ppbv	98
10) Heptane	5.020	43	276748	8.736	ppbv	98
11) Trichlorofluoromethane	1.887	101	202387	8.178	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.153	101	157030	7.719	ppbv	98
13) Ethanol	1.732	45	4440	3.944	ppbv	93
14) Bromoethene	1.793	108	59588	7.646	ppbv	99
15) Acetone	1.845	43	183439	7.614	ppbv	96
16) 1,3-Butadiene	1.619	39	90954	7.731	ppbv	100
17) tert-Butyl alcohol	2.052	59	209737	6.990	ppbv	100
18) 1,1-Dichloroethene	2.046	96	72322	7.605	ppbv	96
19) Isopropyl Alcohol	1.897	45	104424	7.682	ppbv	98
20) Methylene Chloride	2.075	84	60337	6.725	ppbv	90
21) Allyl Chloride	2.111	41	132956	7.825	ppbv	98
22) trans-1,2-Dichloroethene	2.357	96	81572	7.422	ppbv	96
23) Vinyl Acetate	2.480	43	72160	6.920	ppbv	97
24) 1,1-Dichloroethane	2.425	63	169411	8.315	ppbv	100
25) Ethyl Acetate	2.855	43	564611	9.030	ppbv	99
26) Hexane	2.845	57	213782	8.851	ppbv	98
27) Carbon Disulfide	2.166	76	195452	7.547	ppbv	97
28) Methyl tert-Butyl Ether	2.457	73	116301	7.734	ppbv	96
29) Chloroform	2.868	83	314164	8.888	ppbv	100
30) Cyclohexane	3.884	84	173360	8.266	ppbv	98
31) cis-1,2-Dichloroethene	2.739	61	208160	8.490	ppbv	96
32) 1,1,1-Trichloroethane	3.392	97	311758	7.704	ppbv	98
34) 2-Butanone	2.577	43	317117	9.565	ppbv	97
35) Carbon Tetrachloride	3.790	117	317942	8.902	ppbv	99
36) Benzene	3.684	78	424254	9.360	ppbv	94
37) 1,2-Dichloroethane	3.243	62	239556	9.231	ppbv	100
38) Trichloroethene	4.583	130	172146	9.102	ppbv	96
39) 1,2-Dichloropropane	4.350	63	151707	9.190	ppbv	96
40) 1,4-Dioxane	4.622	88	72075	8.226	ppbv #	98
41) Tetrahydrofuran	3.075	42	181471	9.505	ppbv	95
42) Bromodichloromethane	4.525	83	333167	9.313	ppbv	97
43) Methyl Methacrylate	4.923	69	155399	8.098	ppbv	96
44) 2,2,4-Trimethylpentane	4.677	57	728571	9.511	ppbv	99
45) t-1,3-Dichloropropene	6.461	75	151063	7.338	ppbv	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041525\
 Data File : VL042326.D
 Acq On : 15 Apr 2025 11:30
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Quant Time: Apr 16 01:29:10 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

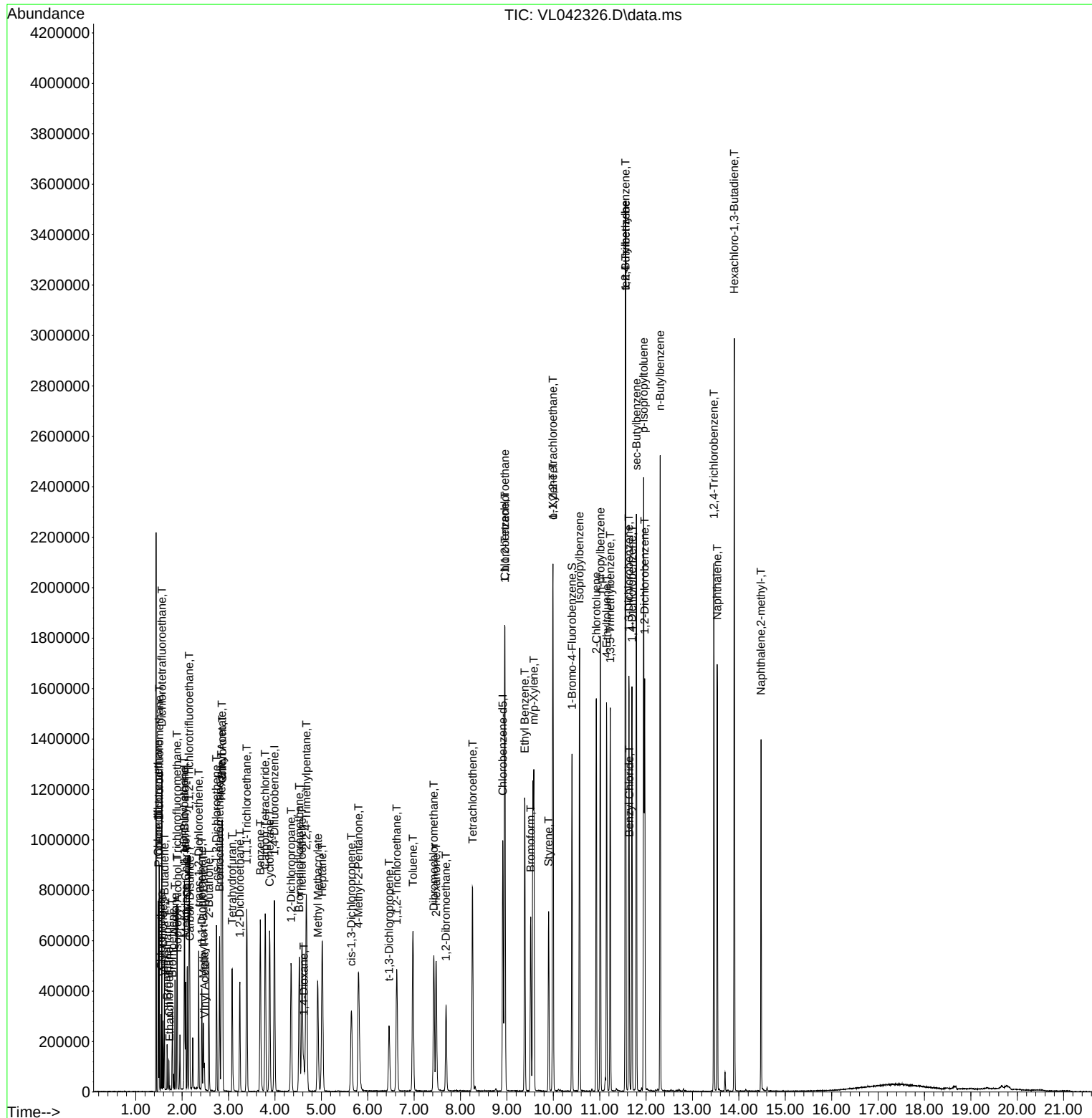
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.648	75	204339	8.097	ppbv	98
47) 1,1,2-Trichloroethane	6.626	97	163132	9.348	ppbv	97
48) Dibromochloromethane	7.425	129	272592	9.217	ppbv	99
49) Bromoform	9.513	173	238880	8.997	ppbv	100
50) 4-Methyl-2-Pentanone	5.800	43	442851	8.428	ppbv	97
51) 2-Hexanone	7.474	43	353471	8.192	ppbv #	97
52) Tetrachloroethene	8.260	164	144481	8.037	ppbv	98
53) Toluene	6.975	91	461854	8.595	ppbv	100
54) 1,2-Dibromoethane	7.687	107	220075	9.047	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.956	131	214175	9.455	ppbv	99
57) Chlorobenzene	8.953	112	375357	9.617	ppbv	97
58) Ethyl Benzene	9.383	91	639857	8.754	ppbv	99
59) m/p-Xylene	9.581	91	488646	8.372	ppbv #	13
60) o-Xylene	9.992	91	528896	9.040	ppbv	95
61) Styrene	9.898	104	245300	8.474	ppbv	97
62) Isopropylbenzene	10.565	105	794408	9.079	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.992	83	343786	9.671	ppbv	100
64) n-propylbenzene	11.015	120	212879	9.452	ppbv	95
65) tert-Butylbenzene	11.555	119	721078	8.911	ppbv	97
66) Benzyl Chloride	11.639	91	54427	6.339	ppbv	98
67) sec-Butylbenzene	11.791	105	1026079	9.123	ppbv	99
69) p-Isopropyltoluene	11.947	119	865385	8.935	ppbv	99
70) n-Butylbenzene	12.303	91	884265	8.928	ppbv	99
71) 2-Chlorotoluene	10.927	91	599592	8.830	ppbv	98
72) 4-Ethyltoluene	11.147	105	657765	9.029	ppbv	99
73) 1,3,5-Trimethylbenzene	11.228	105	557593	8.764	ppbv	99
74) 1,2,4-Trimethylbenzene	11.558	105	623563	8.507	ppbv #	86
75) 1,3-Dichlorobenzene	11.630	146	381572	9.492	ppbv	98
76) 1,4-Dichlorobenzene	11.694	146	380035	9.499	ppbv	98
77) 1,2-Dichlorobenzene	11.969	146	379896	9.706	ppbv	97
78) Hexachloro-1,3-Butadiene	13.902	225	311900	7.828	ppbv	99
79) Naphthalene	13.533	128	760876	9.490	ppbv	99
80) Naphthalene,2-methyl-	14.478	142	365398	9.294	ppbv	98
81) 1,2,4-Trichlorobenzene	13.461	180	337032	9.114	ppbv	99

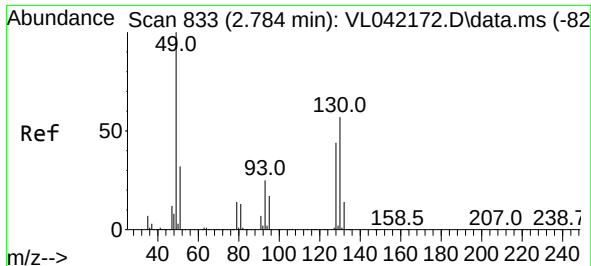
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041525\
 Data File : VL042326.D
 Acq On : 15 Apr 2025 11:30
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Quant Time: Apr 16 01:29:10 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

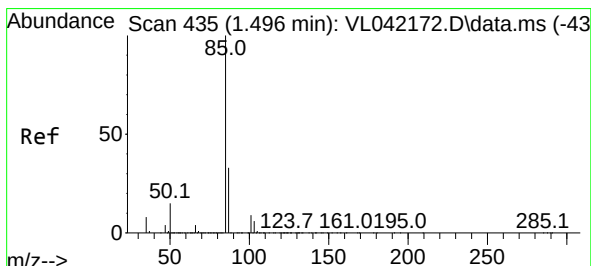
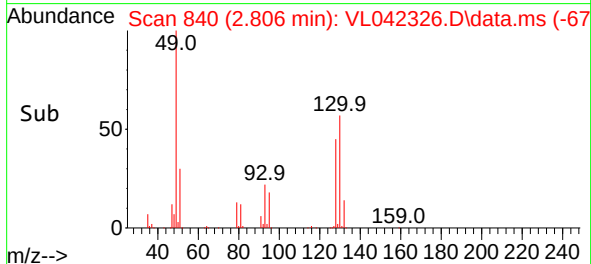
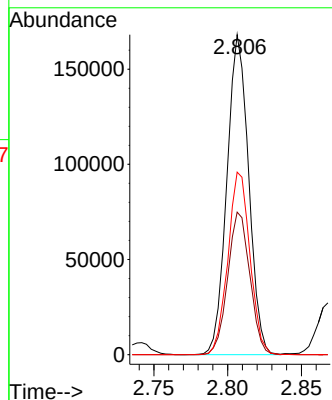
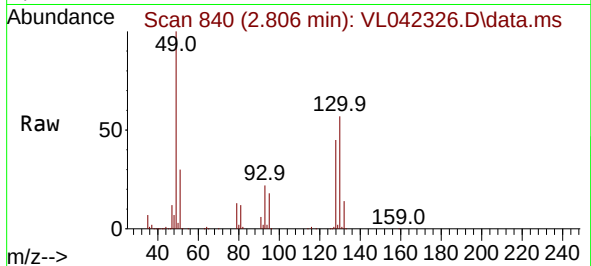




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.806 min Scan# 84
Delta R.T. 0.022 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

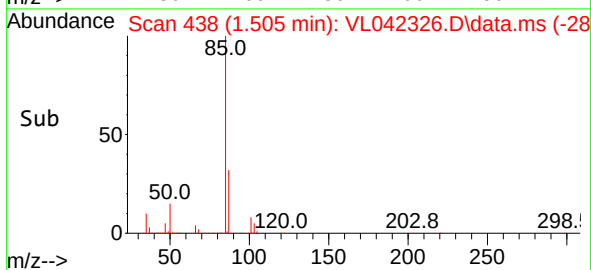
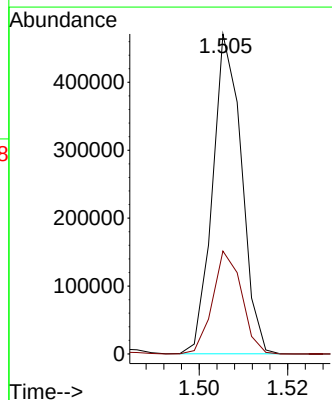
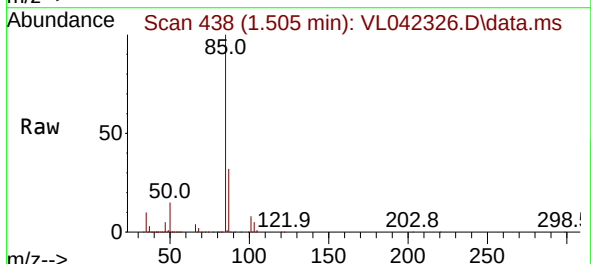
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

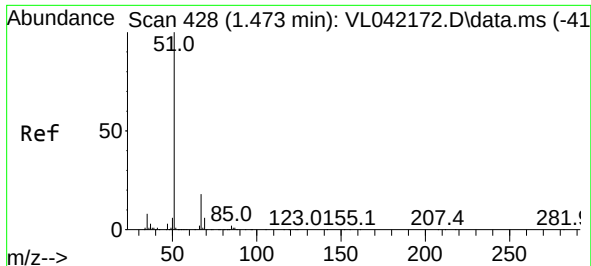
Tgt Ion: 49 Resp: 172263
Ion Ratio Lower Upper
49 100
128 45.3 22.9 68.5
130 57.8 28.8 86.4



#2
Dichlorodifluoromethane
Concen: 8.435 ppbv
RT: 1.505 min Scan# 438
Delta R.T. 0.010 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 85 Resp: 214541
Ion Ratio Lower Upper
85 100
87 32.1 26.1 39.1

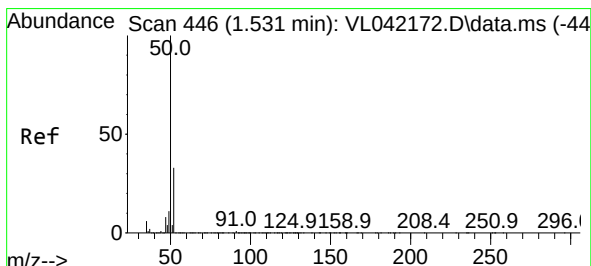
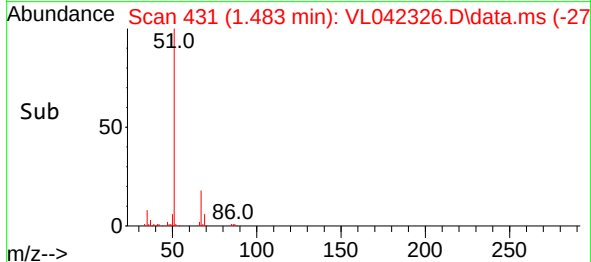
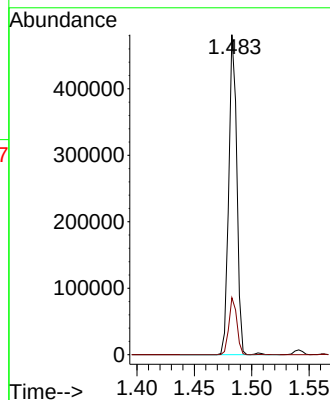
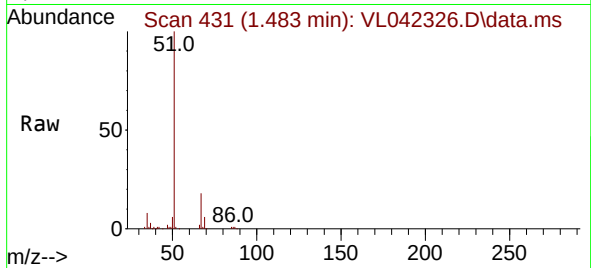




#3
Chlorodifluoromethane
Concen: 9.054 ppbv
RT: 1.483 min Scan# 41
Delta R.T. 0.010 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

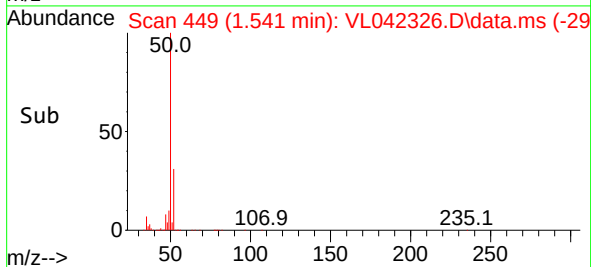
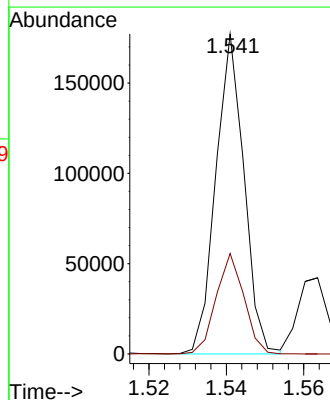
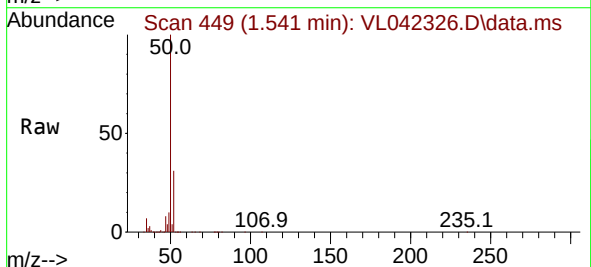
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

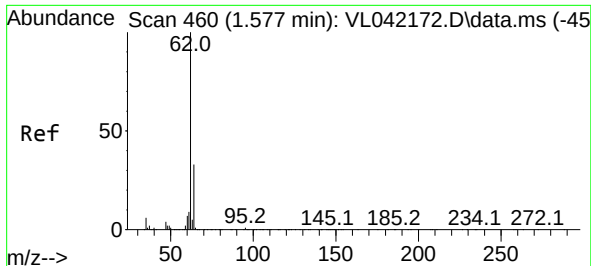
Tgt Ion: 51 Resp: 235250
Ion Ratio Lower Upper
51 100
67 17.7 15.0 22.6



#4
Chloromethane
Concen: 8.625 ppbv
RT: 1.541 min Scan# 449
Delta R.T. 0.010 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 50 Resp: 89653
Ion Ratio Lower Upper
50 100
52 31.4 26.1 39.1

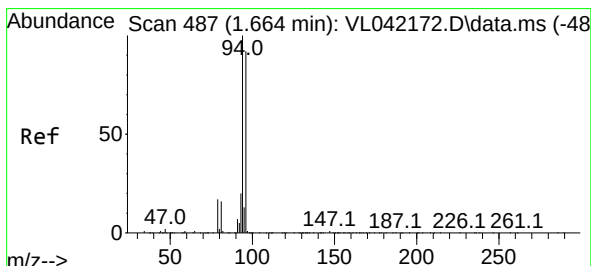
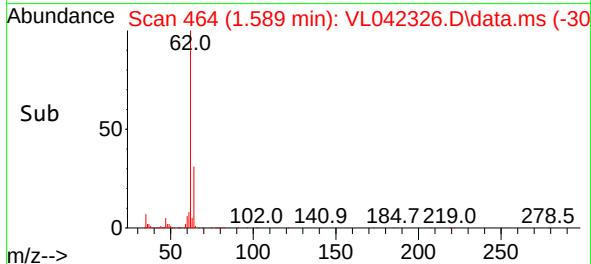
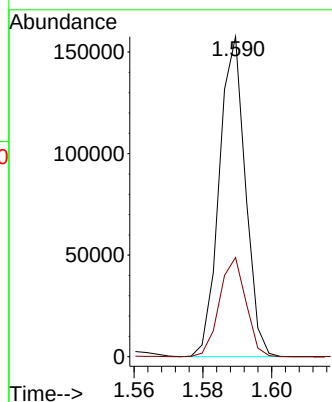
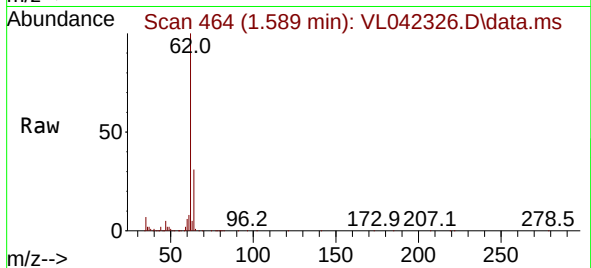




#5
Vinyl Chloride
Concen: 7.554 ppbv
RT: 1.589 min Scan# 41
Delta R.T. 0.013 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

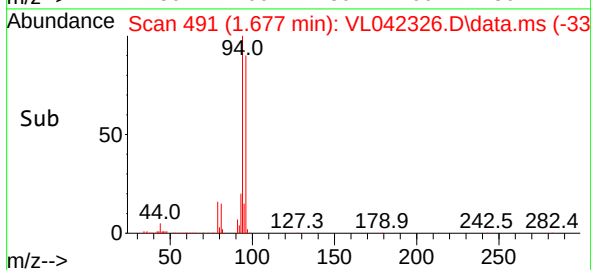
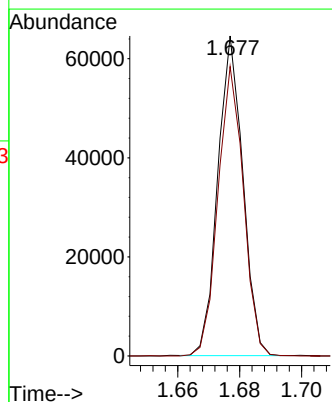
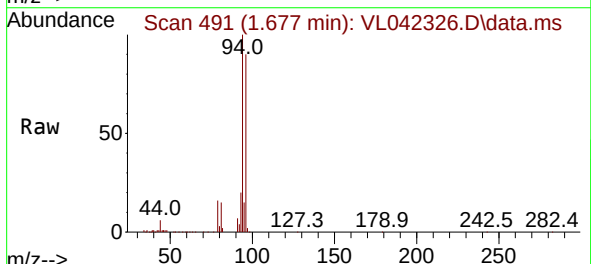
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

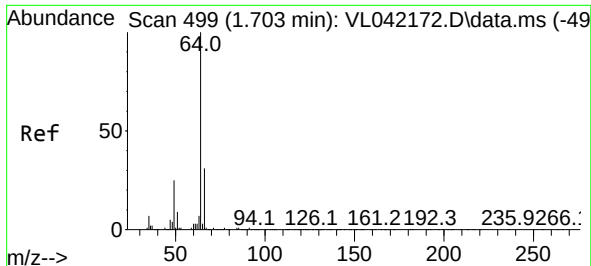
Tgt Ion: 62 Resp: 83204
Ion Ratio Lower Upper
62 100
64 31.0 26.6 40.0



#6
Bromomethane
Concen: 7.705 ppbv
RT: 1.677 min Scan# 491
Delta R.T. 0.013 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 94 Resp: 36297
Ion Ratio Lower Upper
94 100
96 90.5 73.1 109.7

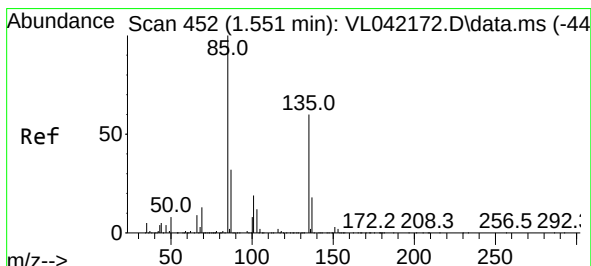
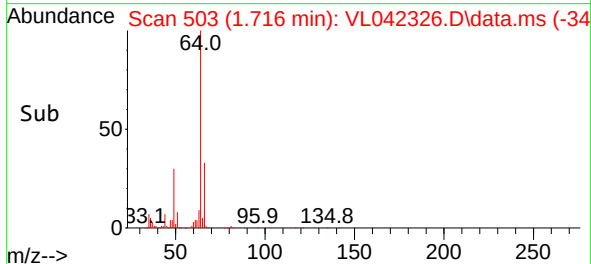
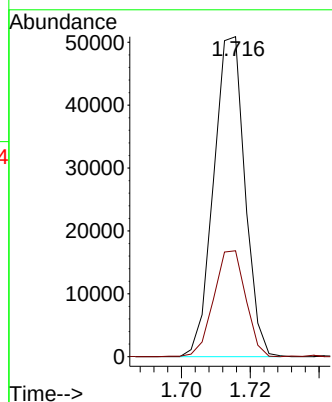
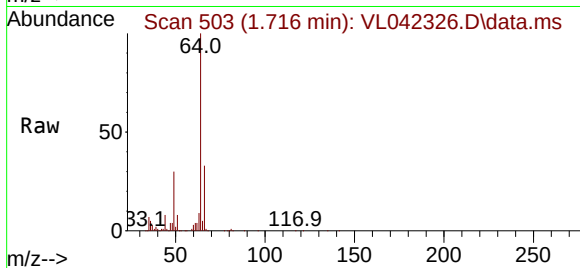




#7
Chloroethane
Concen: 7.704 ppbv
RT: 1.716 min Scan# 503
Delta R.T. 0.013 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

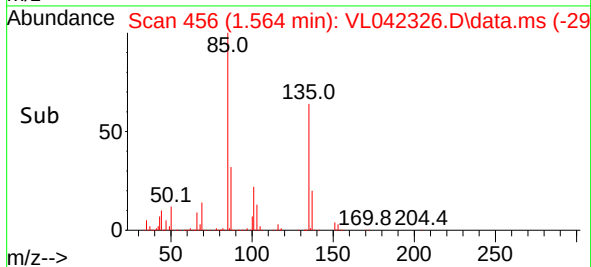
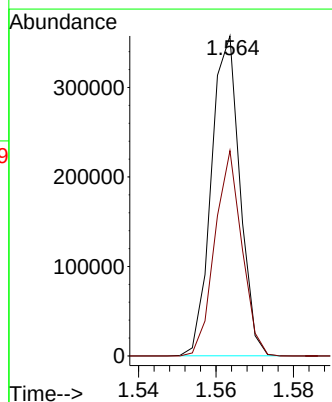
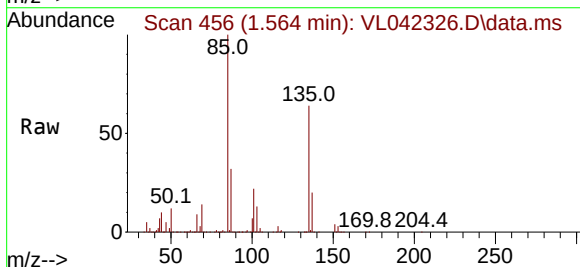
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

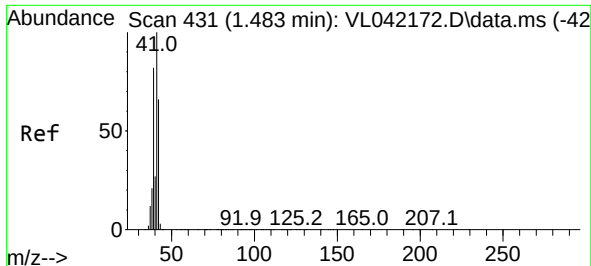
Tgt Ion: 64 Resp: 32145
Ion Ratio Lower Upper
64 100
66 33.1 25.2 37.8



#8
Dichlorotetrafluoroethane
Concen: 8.443 ppbv
RT: 1.564 min Scan# 456
Delta R.T. 0.013 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 85 Resp: 182884
Ion Ratio Lower Upper
85 100
135 60.9 52.4 78.6

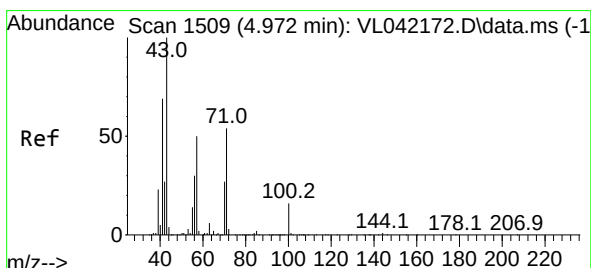
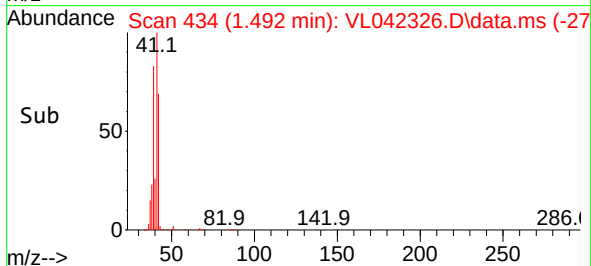
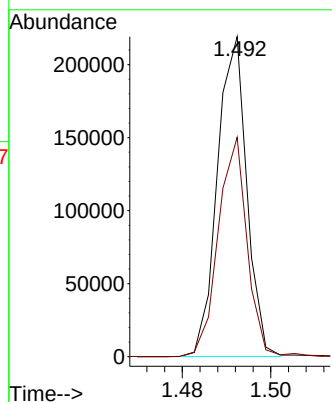
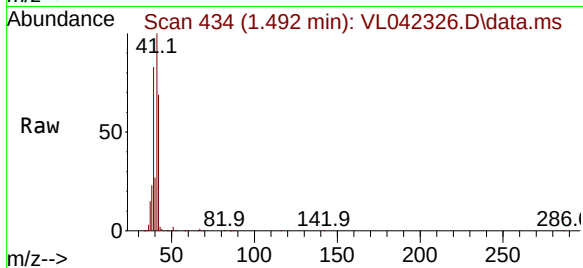




#9
 Propene
 Concen: 8.483 ppbv
 RT: 1.492 min Scan# 41
 Delta R.T. 0.010 min
 Lab File: VL042326.D
 Acq: 15 Apr 2025 11:30

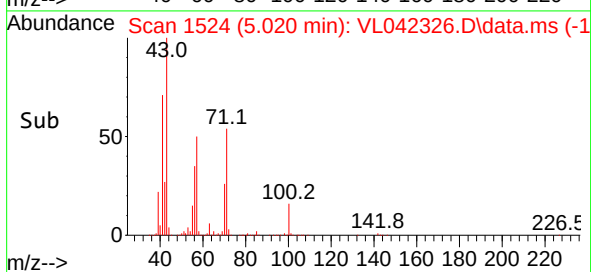
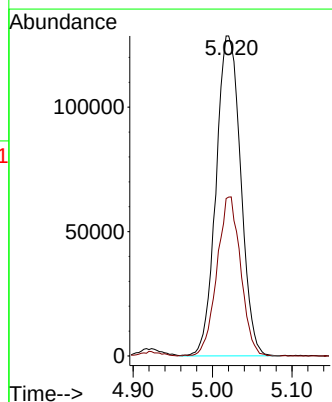
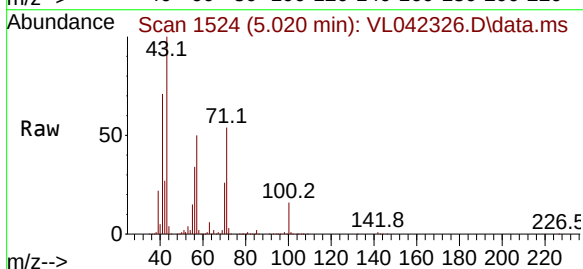
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDCCC010

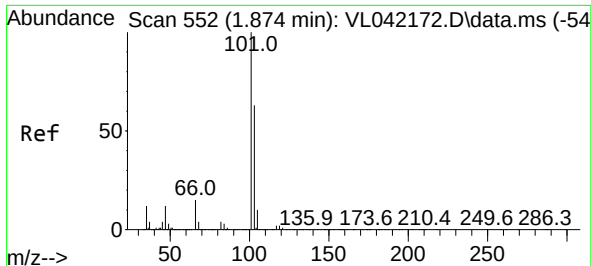
Tgt Ion: 41 Resp: 101034
 Ion Ratio Lower Upper
 41 100
 42 67.9 55.4 83.2



#10
 Heptane
 Concen: 8.736 ppbv
 RT: 5.020 min Scan# 1524
 Delta R.T. 0.048 min
 Lab File: VL042326.D
 Acq: 15 Apr 2025 11:30

Tgt Ion: 43 Resp: 276748
 Ion Ratio Lower Upper
 43 100
 57 47.8 39.4 59.2

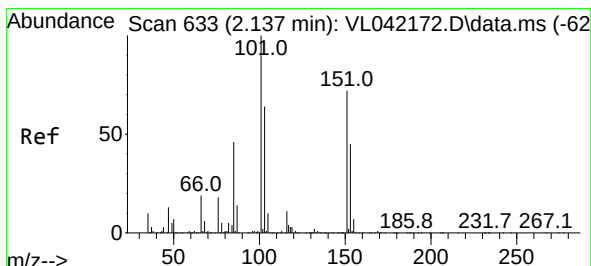
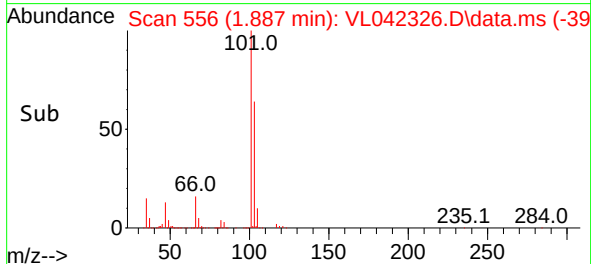
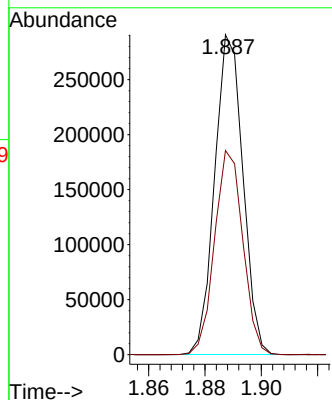
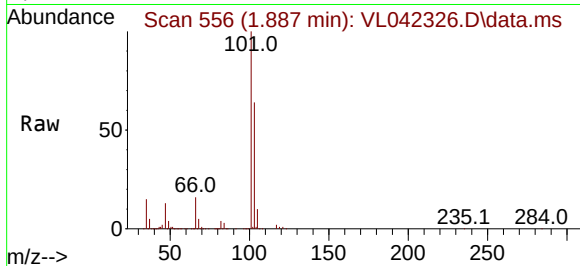




#11
Trichlorofluoromethane
Concen: 8.178 ppbv
RT: 1.887 min Scan# 51
Delta R.T. 0.013 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

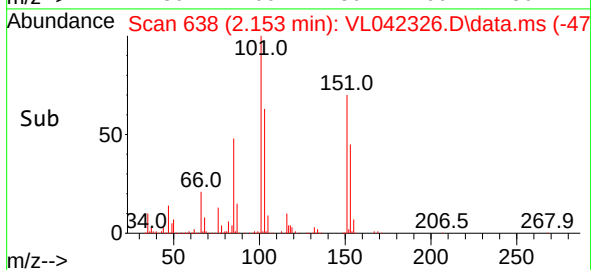
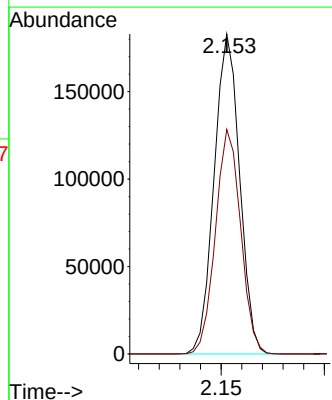
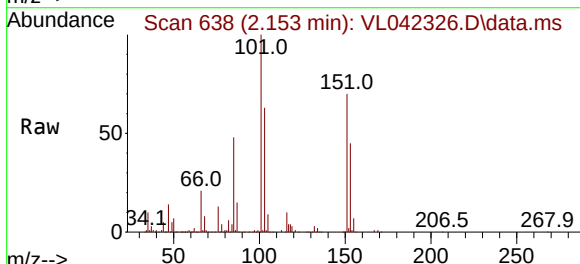
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

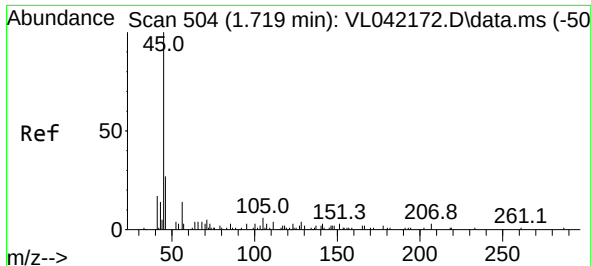
Tgt Ion:101 Resp: 202387
Ion Ratio Lower Upper
101 100
103 63.8 50.2 75.2



#12
1,1,2-Trichlorotrifluoroethane
Concen: 7.719 ppbv
RT: 2.153 min Scan# 638
Delta R.T. 0.016 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion:101 Resp: 157030
Ion Ratio Lower Upper
101 100
151 69.5 57.1 85.7





#13

Ethanol

Concen: 3.944 ppbv

RT: 1.732 min Scan# 504

Delta R.T. 0.013 min

Lab File: VL042326.D

Acq: 15 Apr 2025 11:30

Instrument :

MSVOA_L

ClientSampleId :

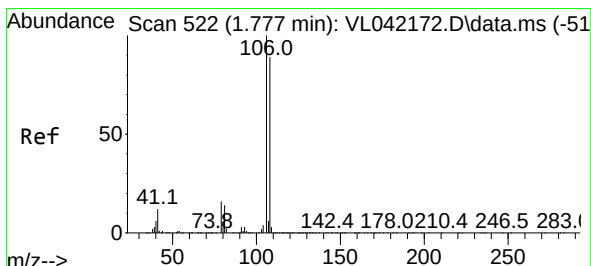
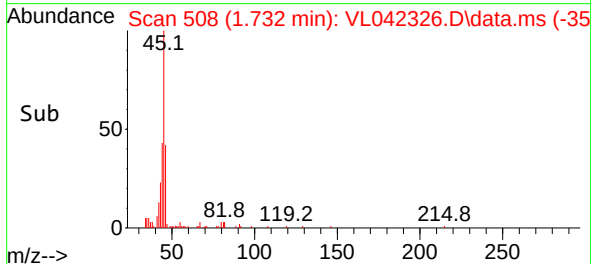
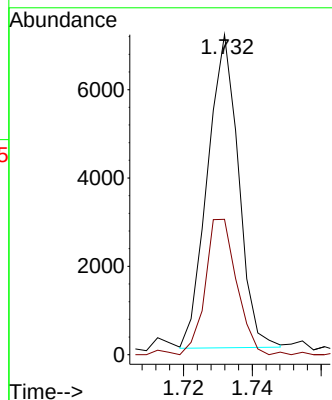
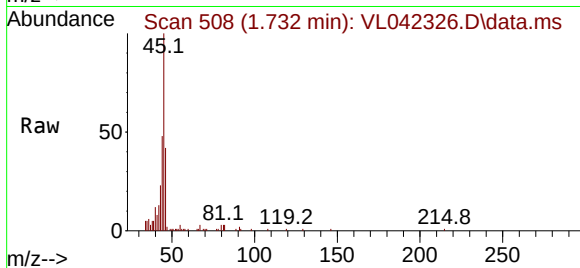
VSTDCCC010

Tgt Ion: 45 Resp: 4440

Ion Ratio Lower Upper

45 100

46 45.7 20.2 80.8



#14

Bromoethene

Concen: 7.646 ppbv

RT: 1.793 min Scan# 527

Delta R.T. 0.016 min

Lab File: VL042326.D

Acq: 15 Apr 2025 11:30

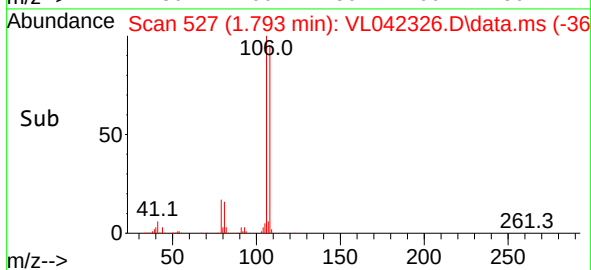
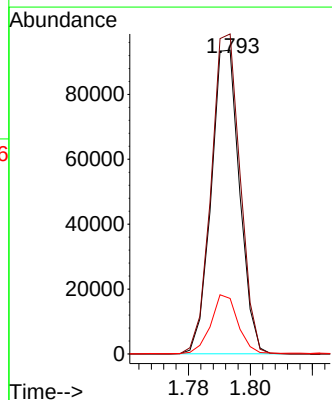
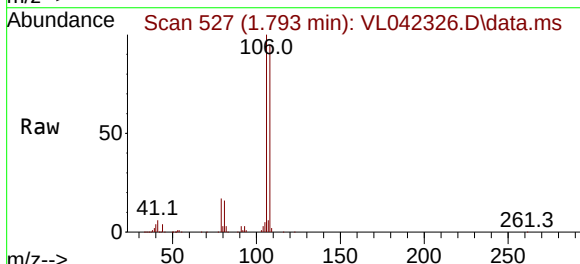
Tgt Ion: 108 Resp: 59588

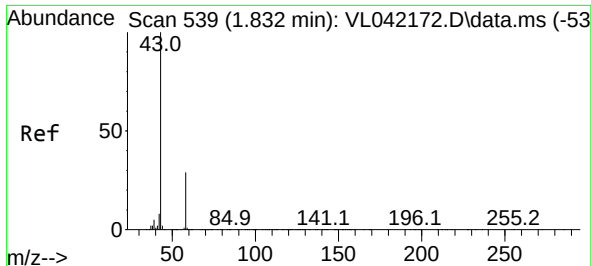
Ion Ratio Lower Upper

108 100

106 107.3 86.8 130.2

79 19.2 15.0 22.6

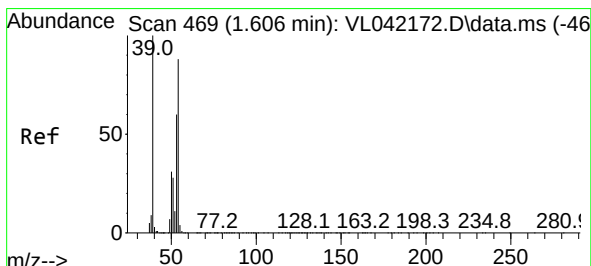
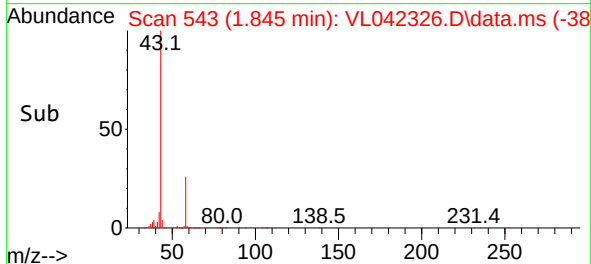
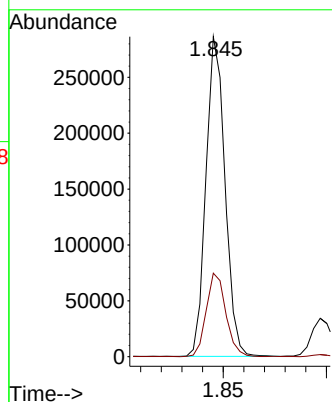
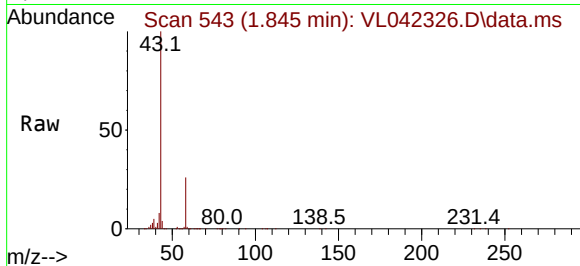




#15
Acetone
Concen: 7.614 ppbv
RT: 1.845 min Scan# 54
Delta R.T. 0.013 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

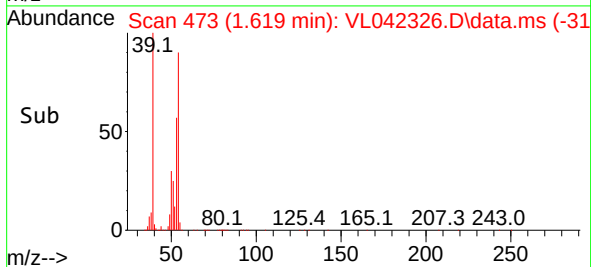
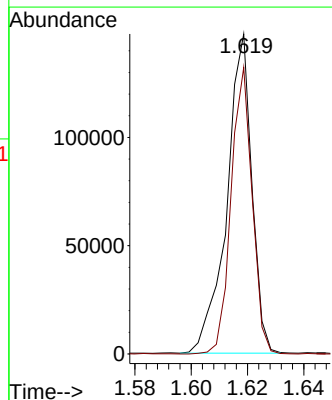
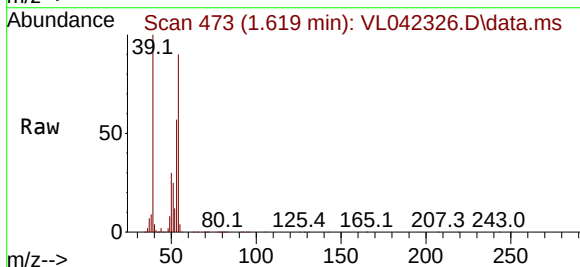
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

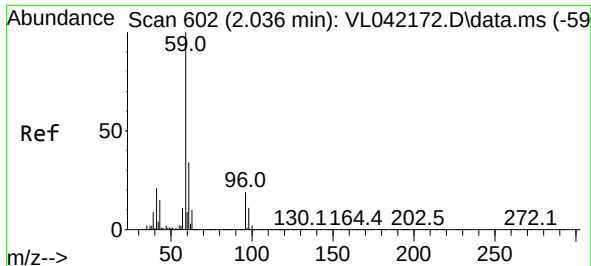
Tgt Ion: 43 Resp: 183439
Ion Ratio Lower Upper
43 100
58 27.0 23.2 34.8



#16
1,3-Butadiene
Concen: 7.731 ppbv
RT: 1.619 min Scan# 473
Delta R.T. 0.013 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 39 Resp: 90954
Ion Ratio Lower Upper
39 100
54 75.6 60.7 91.1





#17

tert-Butyl alcohol

Concen: 6.990 ppbv

RT: 2.052 min Scan# 607

Delta R.T. 0.016 min

Lab File: VL042326.D

Acq: 15 Apr 2025 11:30

Instrument :

MSVOA_L

ClientSampleId :

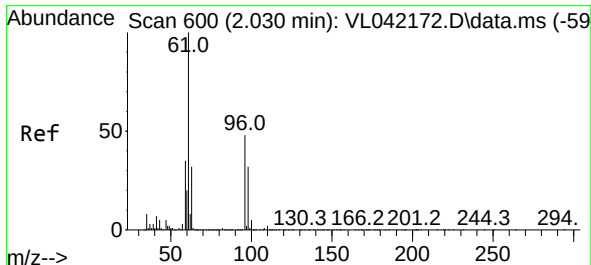
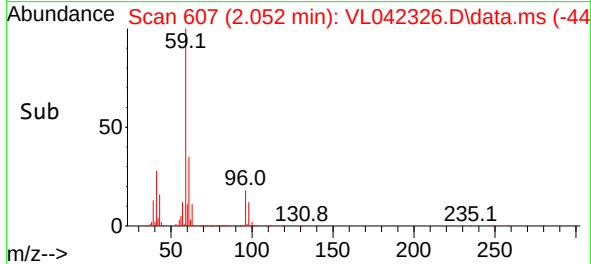
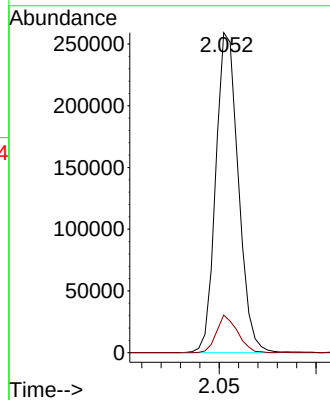
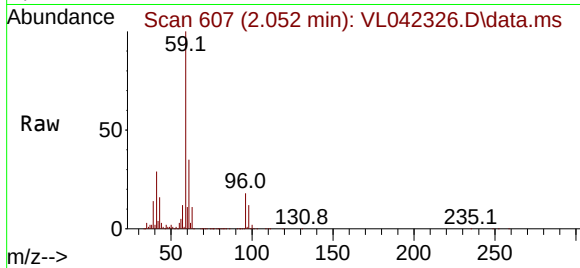
VSTDCCC010

Tgt Ion: 59 Resp: 209737

Ion Ratio Lower Upper

59 100

57 11.0 8.9 13.3



#18

1,1-Dichloroethene

Concen: 7.605 ppbv

RT: 2.046 min Scan# 605

Delta R.T. 0.016 min

Lab File: VL042326.D

Acq: 15 Apr 2025 11:30

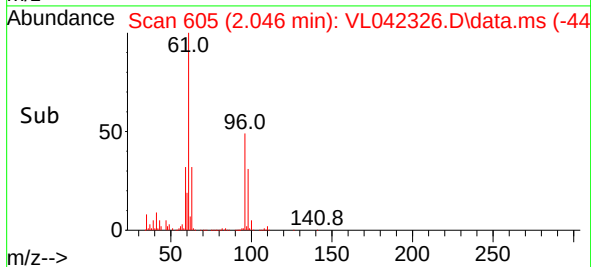
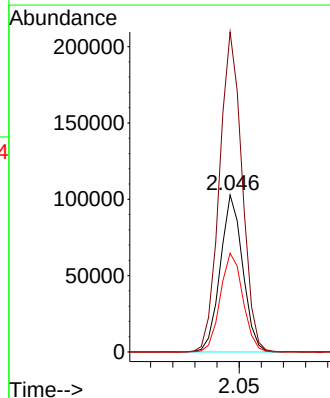
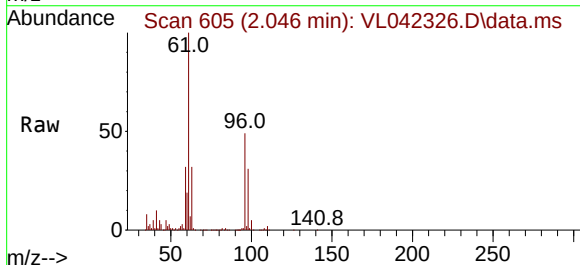
Tgt Ion: 96 Resp: 72322

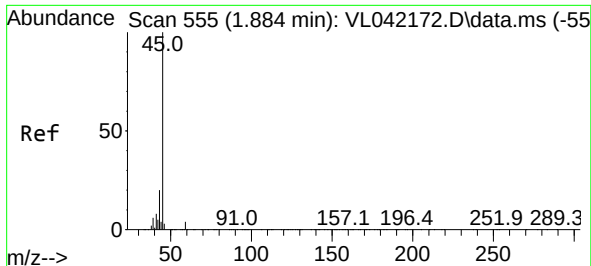
Ion Ratio Lower Upper

96 100

61 203.8 167.6 251.4

98 62.9 53.5 80.3

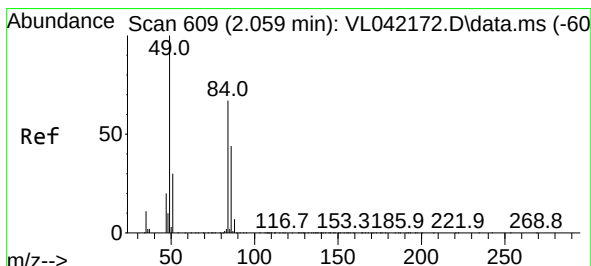
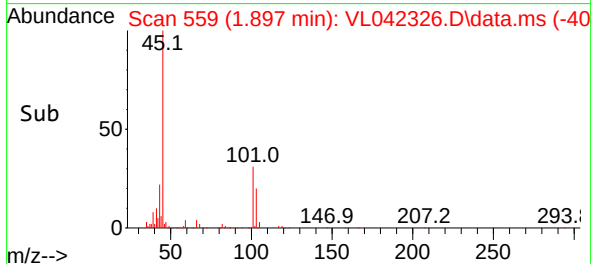
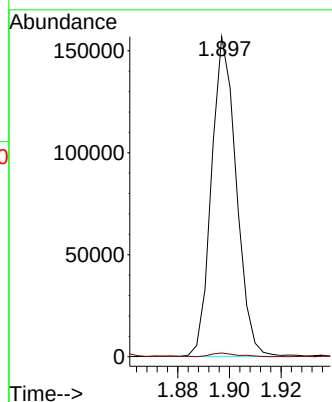
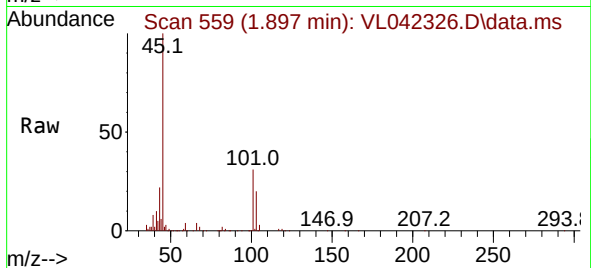




#19
Isopropyl Alcohol
Concen: 7.682 ppbv
RT: 1.897 min Scan# 511
Delta R.T. 0.013 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

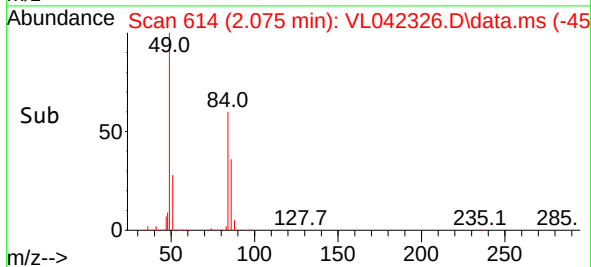
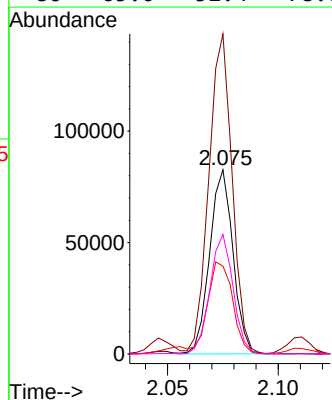
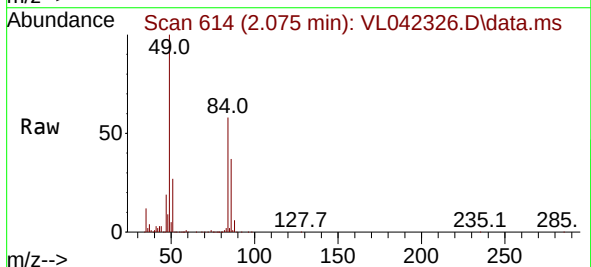
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

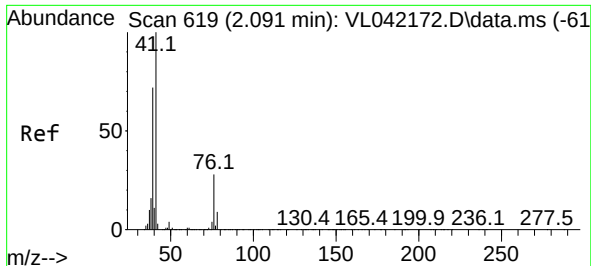
Tgt Ion: 45 Resp: 104424
Ion Ratio Lower Upper
45 100
58 47.5 36.9 55.3



#20
Methylene Chloride
Concen: 6.725 ppbv
RT: 2.075 min Scan# 614
Delta R.T. 0.016 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 84 Resp: 60337
Ion Ratio Lower Upper
84 100
49 172.1 120.2 180.4
51 47.0 37.4 56.0
86 65.0 52.4 78.6

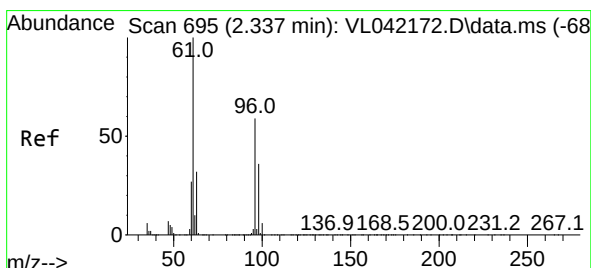
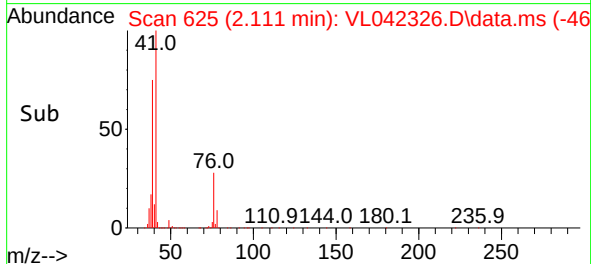
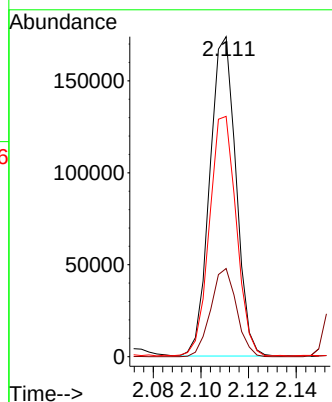
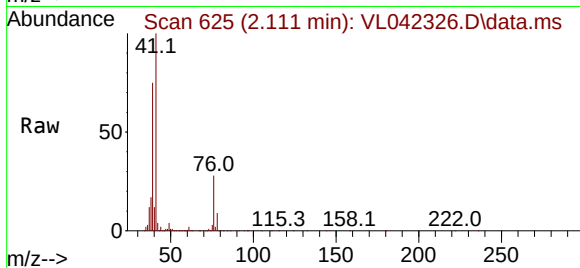




#21
 Allyl Chloride
 Concen: 7.825 ppbv
 RT: 2.111 min Scan# 61
 Delta R.T. 0.019 min
 Lab File: VL042326.D
 Acq: 15 Apr 2025 11:30

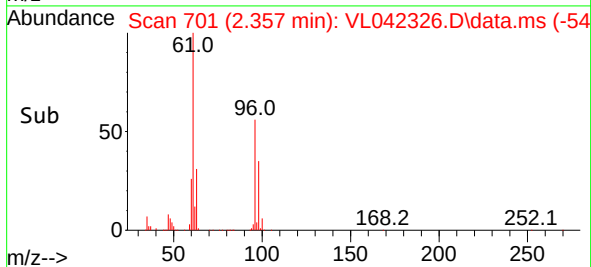
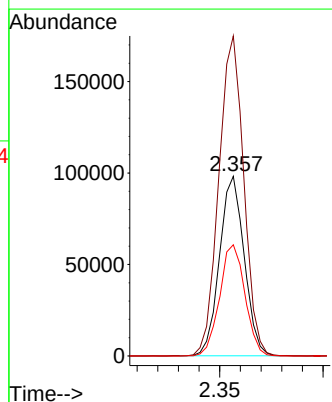
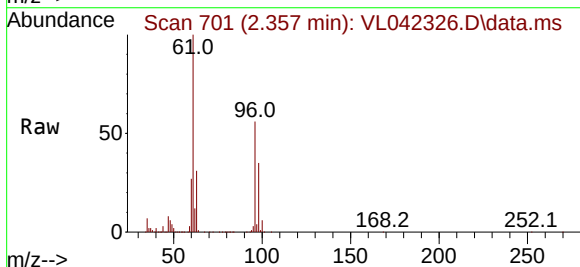
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

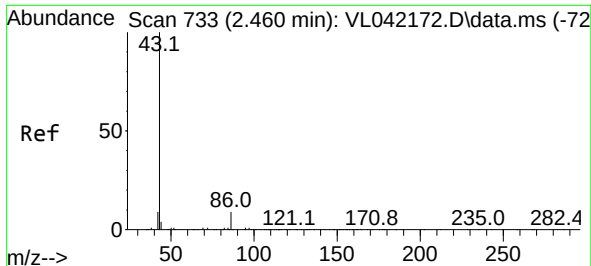
Tgt Ion: 41 Resp: 132956
 Ion Ratio Lower Upper
 41 100
 76 27.1 24.1 36.1
 39 76.9 61.1 91.7



#22
 trans-1,2-Dichloroethene
 Concen: 7.422 ppbv
 RT: 2.357 min Scan# 701
 Delta R.T. 0.019 min
 Lab File: VL042326.D
 Acq: 15 Apr 2025 11:30

Tgt Ion: 96 Resp: 81572
 Ion Ratio Lower Upper
 96 100
 61 178.1 136.6 204.8
 98 61.9 49.4 74.2

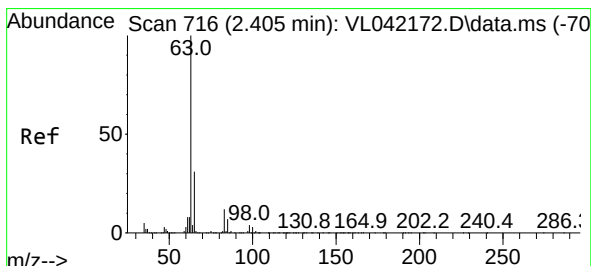
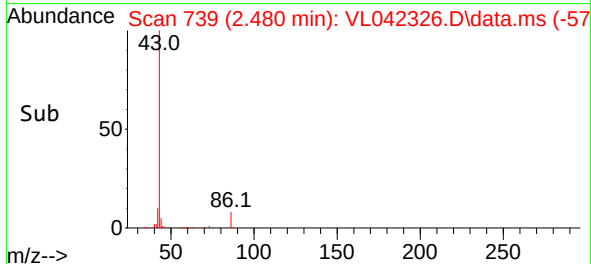
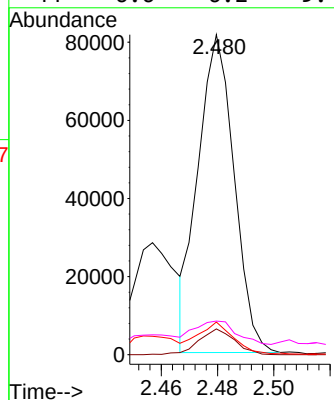
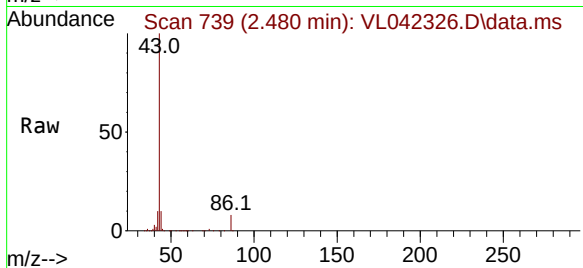




#23
 Vinyl Acetate
 Concen: 6.920 ppbv
 RT: 2.480 min Scan# 71
 Delta R.T. 0.019 min
 Lab File: VL042326.D
 Acq: 15 Apr 2025 11:30

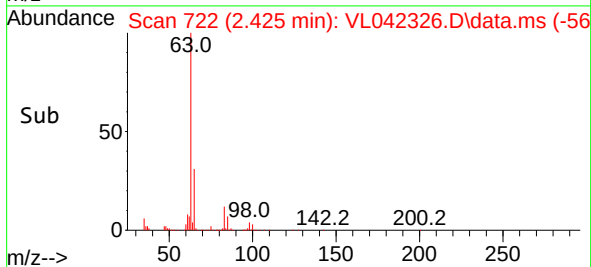
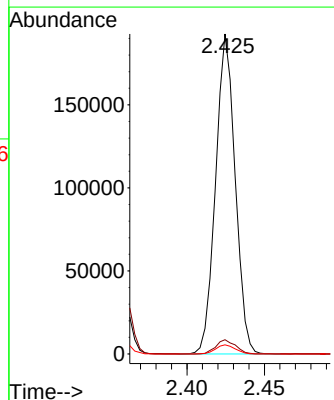
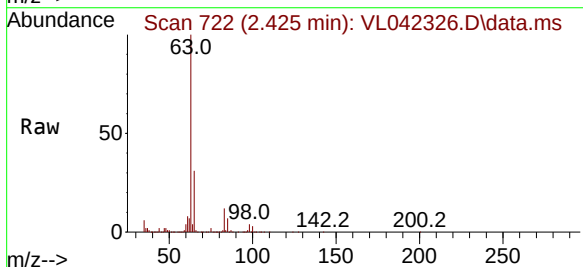
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDCCC010

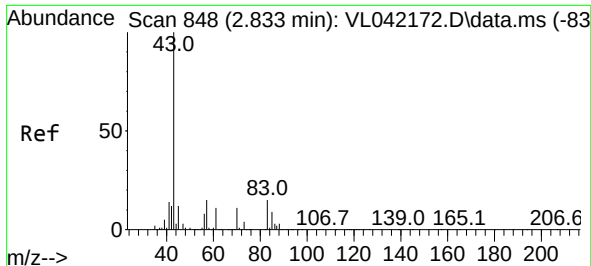
Tgt Ion:	43	Resp:	72160
Ion	Ratio	Lower	Upper
43	100		
86	8.1	5.5	8.3
42	9.8	8.6	13.0
44	6.6	6.2	9.4



#24
 1,1-Dichloroethane
 Concen: 8.315 ppbv
 RT: 2.425 min Scan# 722
 Delta R.T. 0.019 min
 Lab File: VL042326.D
 Acq: 15 Apr 2025 11:30

Tgt Ion:	63	Resp:	169411
Ion	Ratio	Lower	Upper
63	100		
98	4.4	2.3	6.8
100	2.8	1.6	4.7



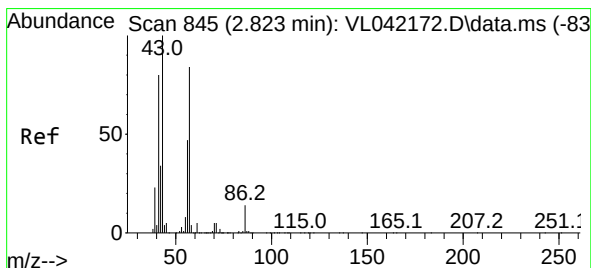
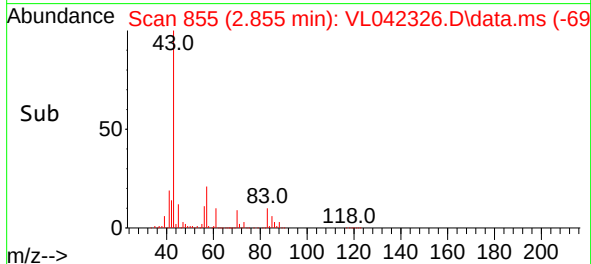
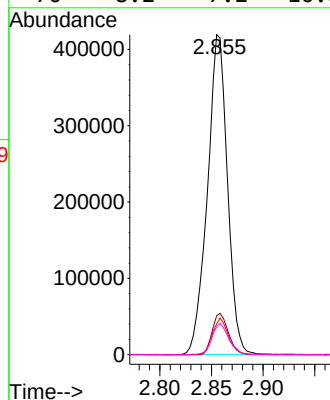
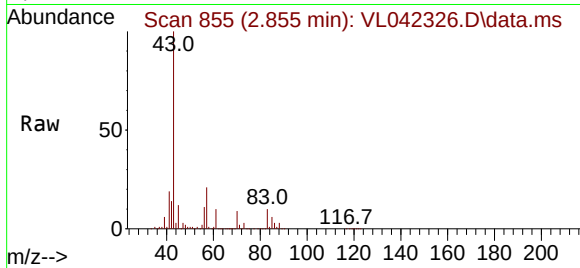


#25
Ethyl Acetate
Concen: 9.030 ppbv
RT: 2.855 min Scan# 81
Delta R.T. 0.023 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 43 Resp: 564611

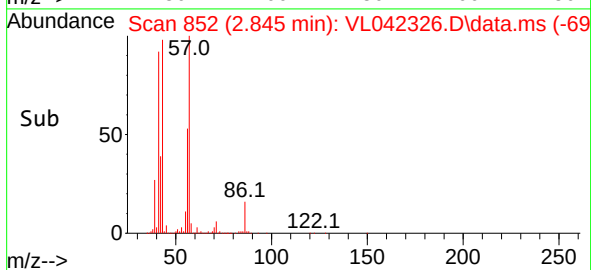
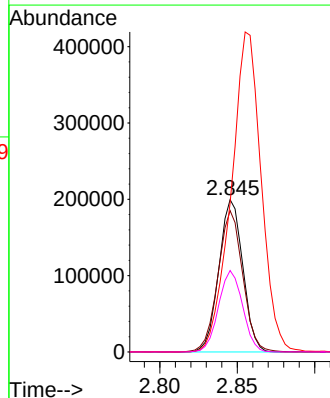
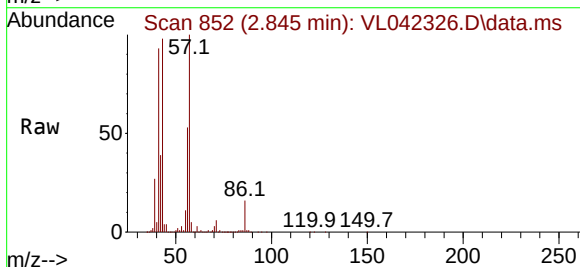
Ion	Ratio	Lower	Upper
43	100		
45	10.4	8.2	12.2
61	9.0	7.3	10.9
70	8.2	7.2	10.8

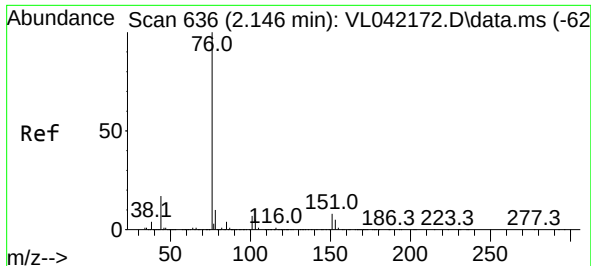


#26
Hexane
Concen: 8.851 ppbv
RT: 2.845 min Scan# 852
Delta R.T. 0.023 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 57 Resp: 213782

Ion	Ratio	Lower	Upper
57	100		
41	95.9	76.6	114.8
43	264.9	207.8	311.8
56	53.9	43.6	65.4

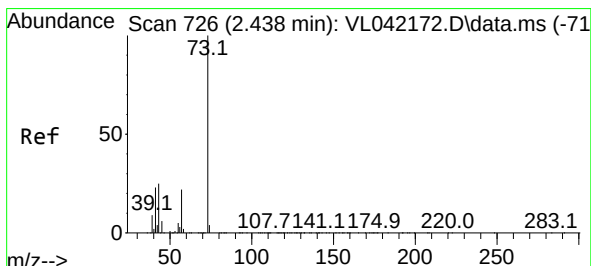
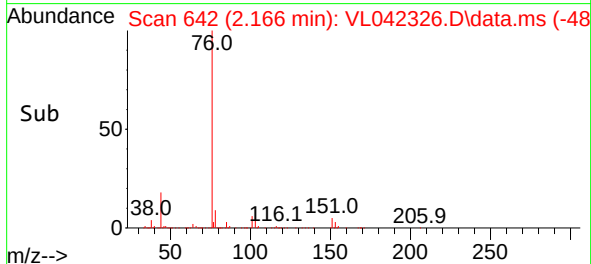
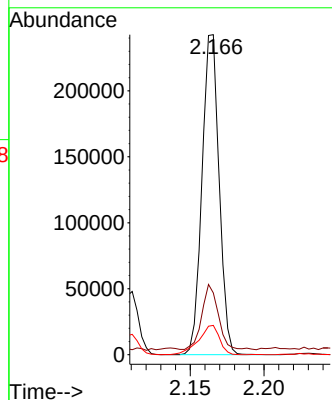
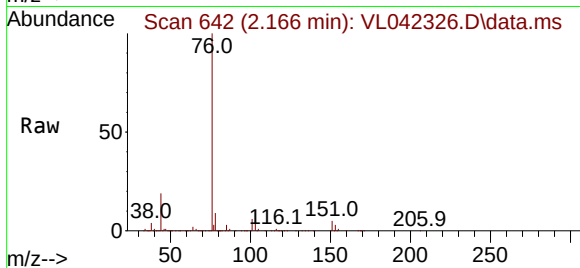




#27
Carbon Disulfide
Concen: 7.547 ppbv
RT: 2.166 min Scan# 64
Delta R.T. 0.019 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

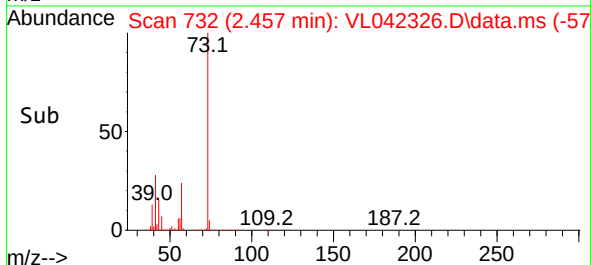
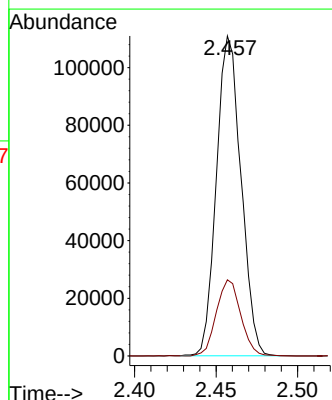
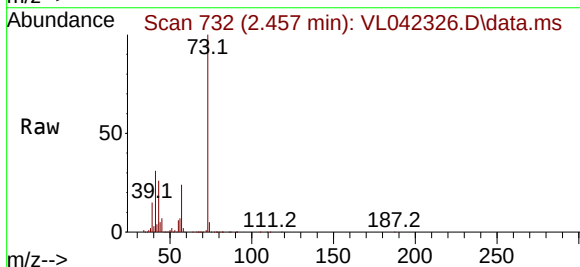
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

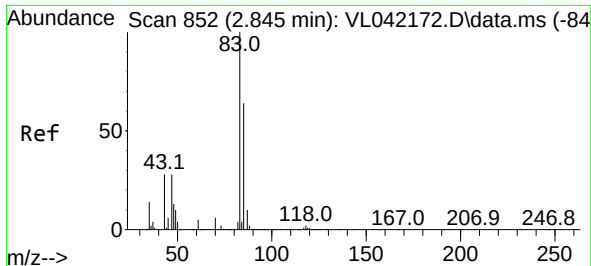
Tgt Ion: 76 Resp: 195452
Ion Ratio Lower Upper
76 100
44 20.1 14.7 22.1
78 11.2 9.3 13.9



#28
Methyl tert-Butyl Ether
Concen: 7.734 ppbv
RT: 2.457 min Scan# 732
Delta R.T. 0.019 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 73 Resp: 116301
Ion Ratio Lower Upper
73 100
57 23.7 20.5 30.7





#29

Chloroform

Concen: 8.888 ppbv

RT: 2.868 min Scan# 8

Delta R.T. 0.023 min

Lab File: VL042326.D

Acq: 15 Apr 2025 11:30

Instrument :

MSVOA_L

ClientSampleId :

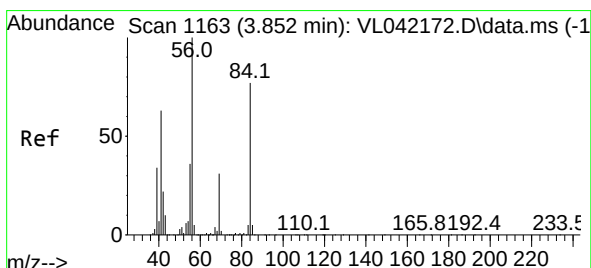
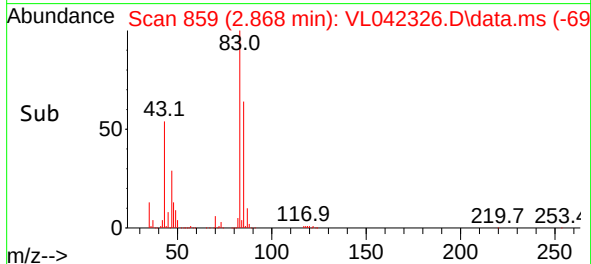
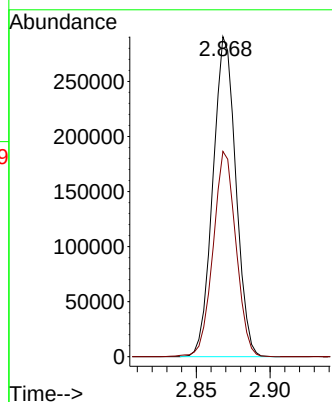
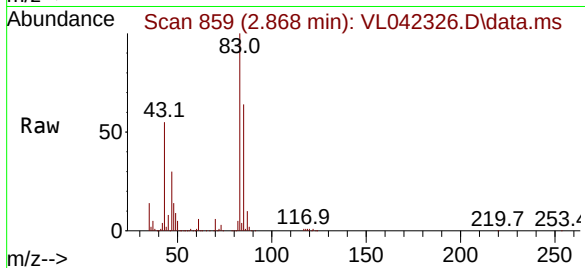
VSTDCCC010

Tgt Ion: 83 Resp: 314164

Ion Ratio Lower Upper

83 100

85 64.2 51.4 77.2



#30

Cyclohexane

Concen: 8.266 ppbv

RT: 3.884 min Scan# 1173

Delta R.T. 0.032 min

Lab File: VL042326.D

Acq: 15 Apr 2025 11:30

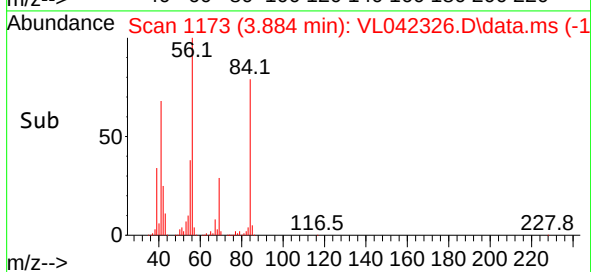
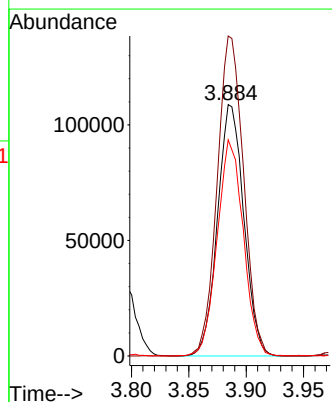
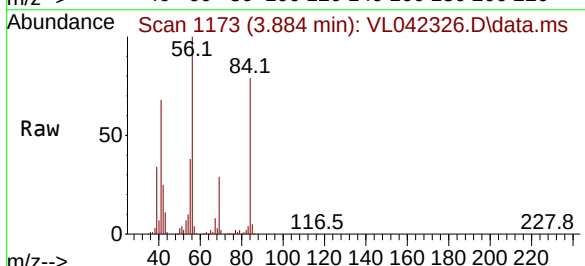
Tgt Ion: 84 Resp: 173360

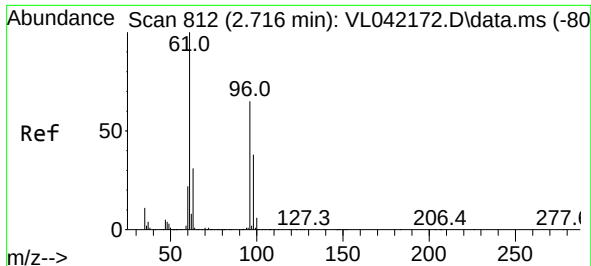
Ion Ratio Lower Upper

84 100

56 127.7 102.8 154.2

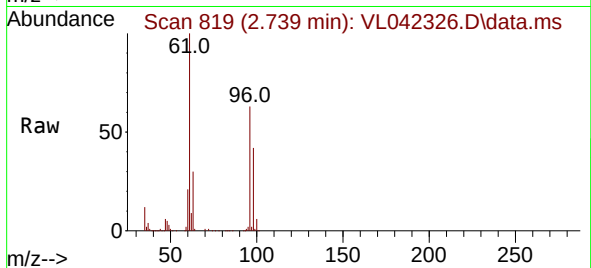
41 85.6 66.5 99.7



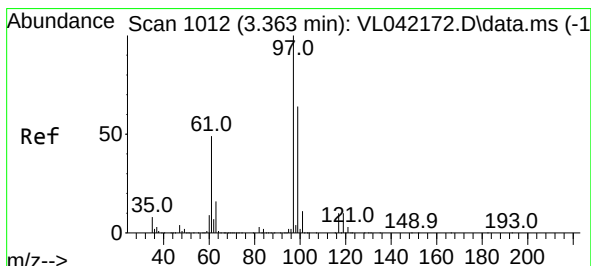
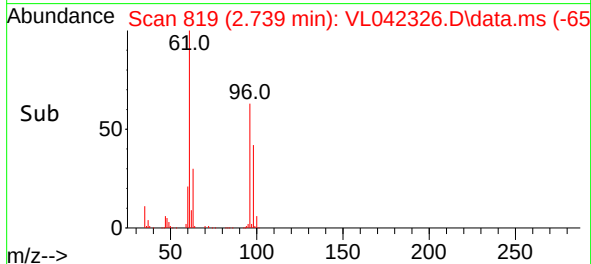
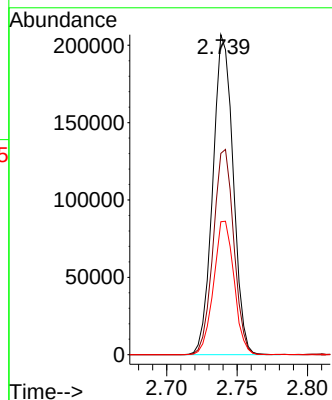


#31
cis-1,2-Dichloroethene
Concen: 8.490 ppbv
RT: 2.739 min Scan# 812
Delta R.T. 0.023 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

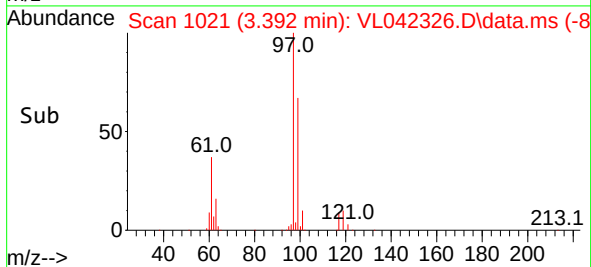
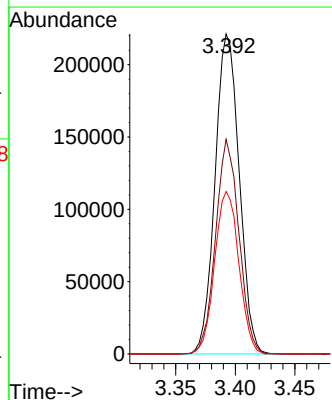
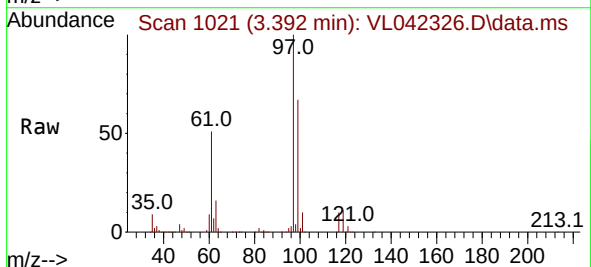


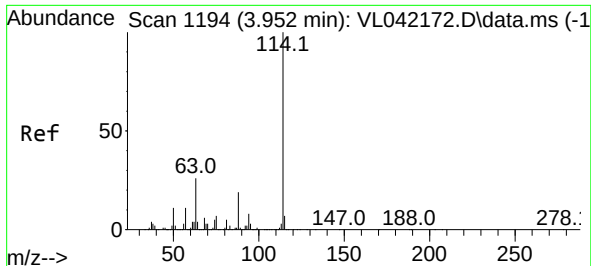
Tgt Ion: 61 Resp: 208160
Ion Ratio Lower Upper
61 100
96 62.9 51.8 77.8
98 41.5 30.6 46.0



#32
1,1,1-Trichloroethane
Concen: 7.704 ppbv
RT: 3.392 min Scan# 1021
Delta R.T. 0.029 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 97 Resp: 311758
Ion Ratio Lower Upper
97 100
99 64.8 51.5 77.3
61 51.1 38.7 58.1





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.988 min Scan# 11

Delta R.T. 0.035 min

Lab File: VL042326.D

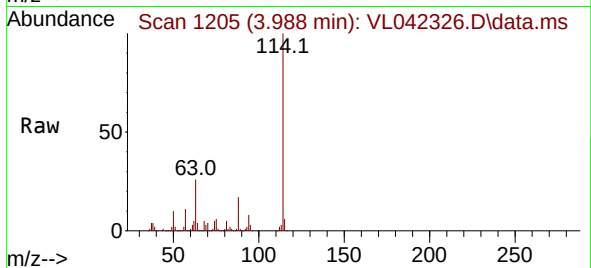
Acq: 15 Apr 2025 11:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010



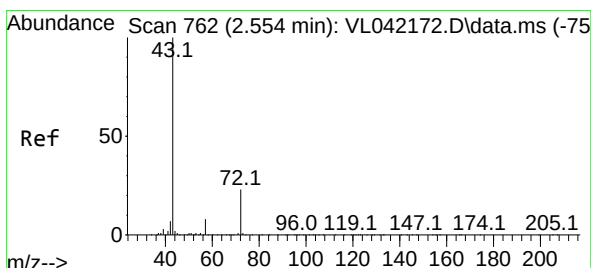
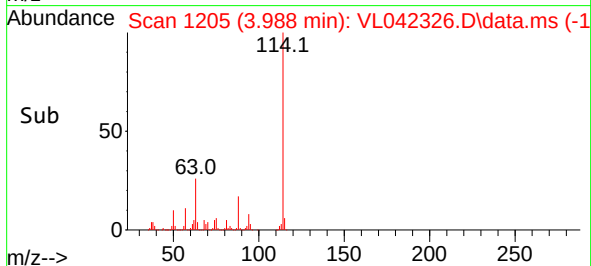
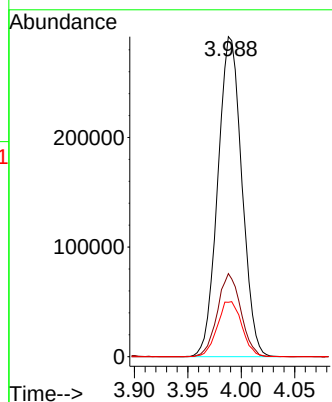
Tgt Ion:114 Resp: 457227

Ion Ratio Lower Upper

114 100

63 25.4 20.7 31.1

88 17.7 15.0 22.4



#34

2-Butanone

Concen: 9.565 ppbv

RT: 2.577 min Scan# 769

Delta R.T. 0.023 min

Lab File: VL042326.D

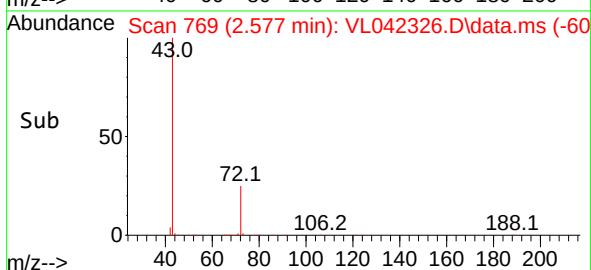
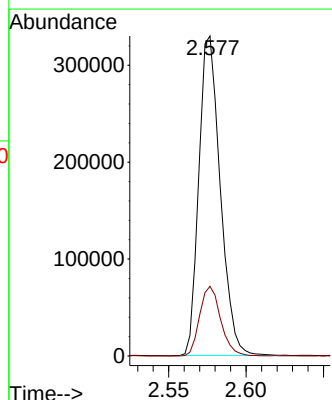
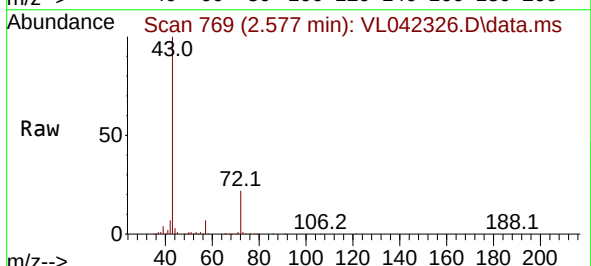
Acq: 15 Apr 2025 11:30

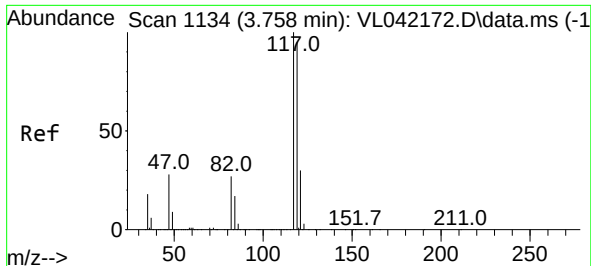
Tgt Ion: 43 Resp: 317117

Ion Ratio Lower Upper

43 100

72 21.5 18.2 27.2

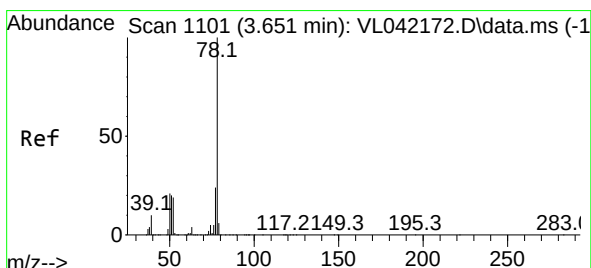
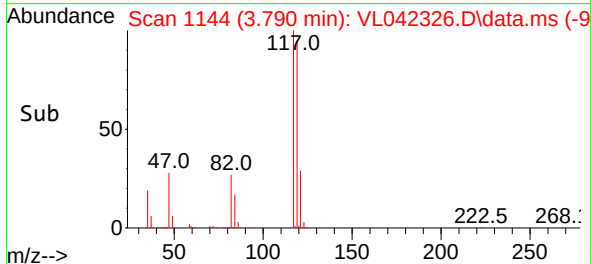
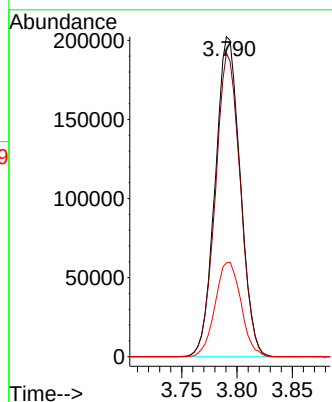
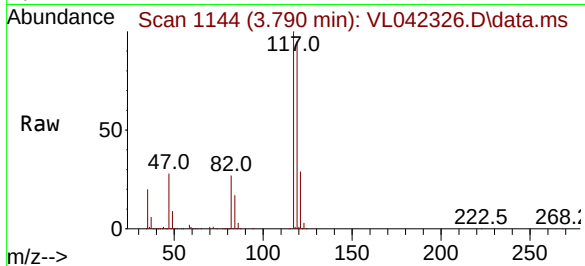




#35
Carbon Tetrachloride
Concen: 8.902 ppbv
RT: 3.790 min Scan# 1114
Delta R.T. 0.032 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

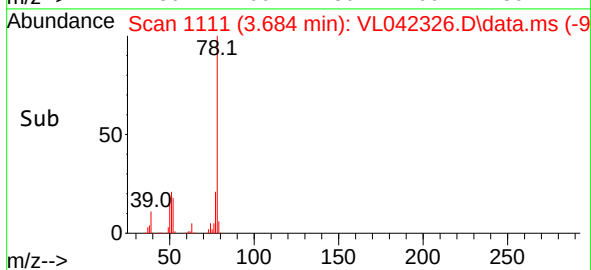
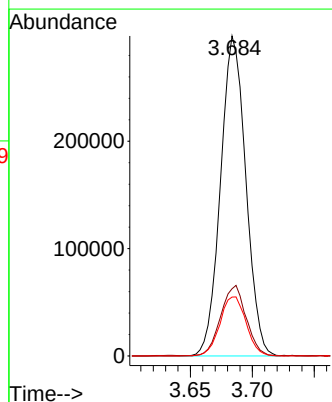
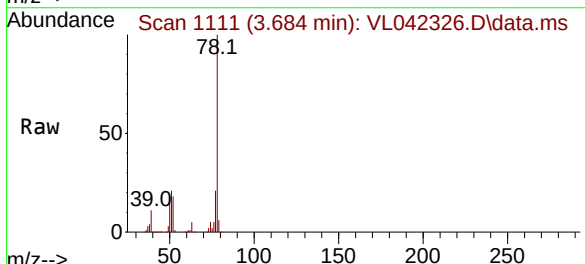
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

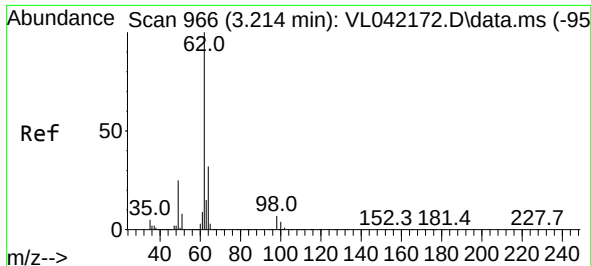
Tgt Ion:117 Resp: 317942
Ion Ratio Lower Upper
117 100
119 94.9 76.2 114.2
121 29.3 24.2 36.4



#36
Benzene
Concen: 9.360 ppbv
RT: 3.684 min Scan# 1111
Delta R.T. 0.032 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 78 Resp: 424254
Ion Ratio Lower Upper
78 100
77 20.9 19.1 28.7
50 18.4 16.6 24.8





#37

1,2-Dichloroethane

Concen: 9.231 ppbv

RT: 3.243 min Scan# 91

Delta R.T. 0.029 min

Lab File: VL042326.D

Acq: 15 Apr 2025 11:30

Instrument :

MSVOA_L

ClientSampleId :

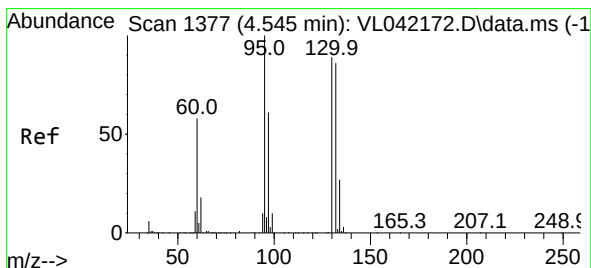
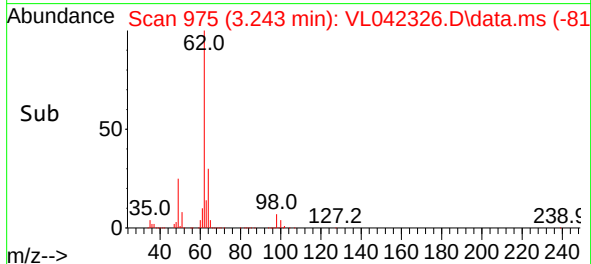
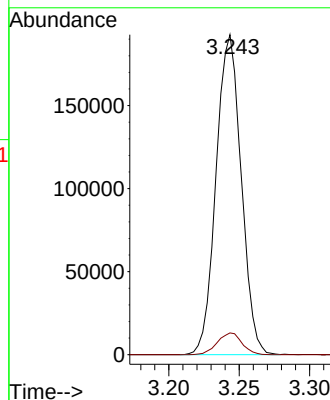
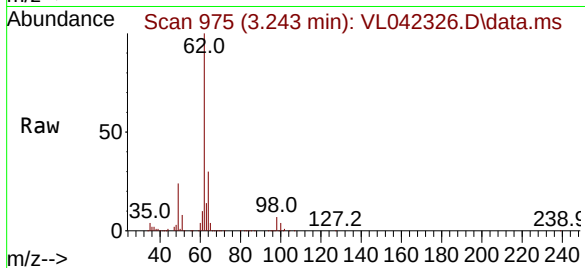
VSTDCCC010

Tgt Ion: 62 Resp: 239556

Ion Ratio Lower Upper

62 100

98 6.7 5.4 8.2



#38

Trichloroethene

Concen: 9.102 ppbv

RT: 4.583 min Scan# 1389

Delta R.T. 0.039 min

Lab File: VL042326.D

Acq: 15 Apr 2025 11:30

Tgt Ion:130 Resp: 172146

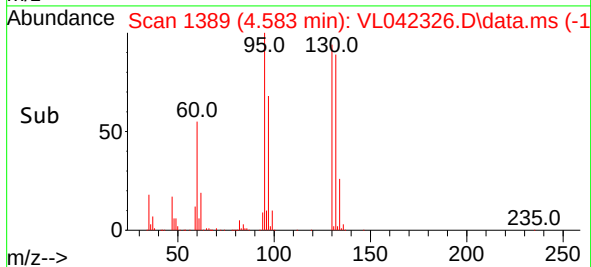
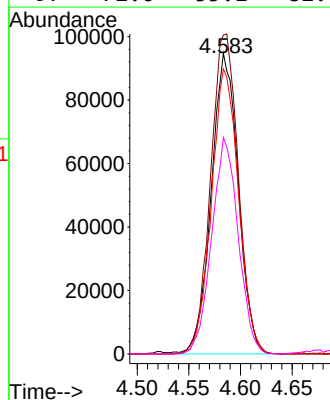
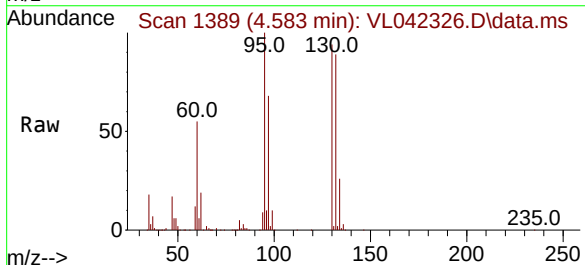
Ion Ratio Lower Upper

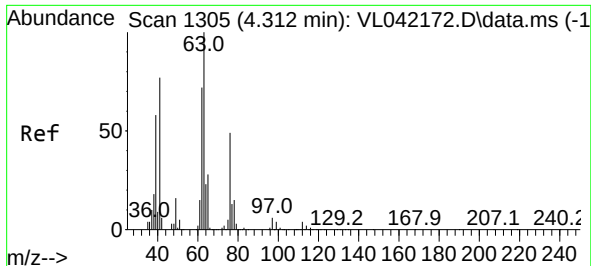
130 100

95 106.1 89.8 134.8

132 94.8 77.4 116.2

97 72.0 55.1 82.7





#39

1,2-Dichloropropane

Concen: 9.190 ppbv

RT: 4.350 min Scan# 11

Delta R.T. 0.039 min

Lab File: VL042326.D

Acq: 15 Apr 2025 11:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

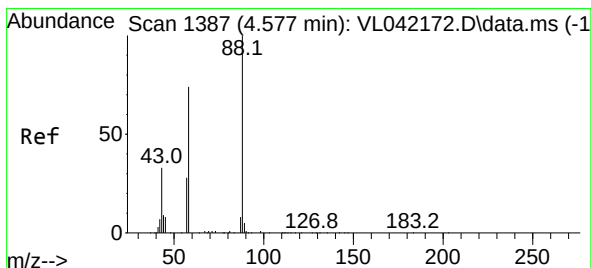
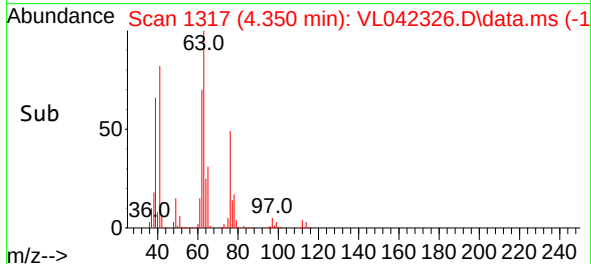
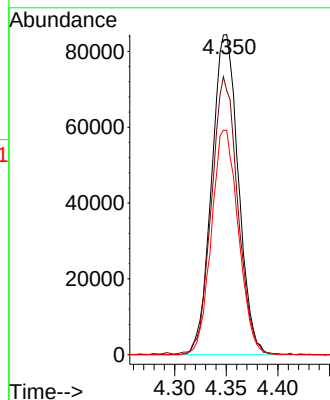
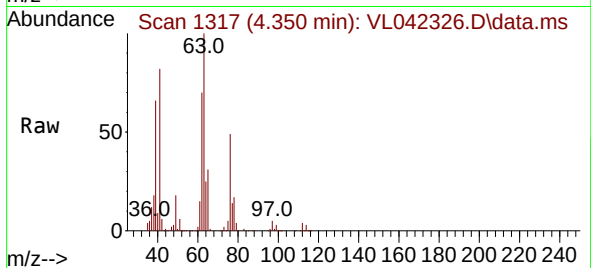
Tgt Ion: 63 Resp: 151707

Ion Ratio Lower Upper

63 100

41 82.3 61.7 92.5

62 70.1 57.6 86.4



#40

1,4-Dioxane

Concen: 8.226 ppbv

RT: 4.622 min Scan# 1401

Delta R.T. 0.045 min

Lab File: VL042326.D

Acq: 15 Apr 2025 11:30

Tgt Ion: 88 Resp: 72075

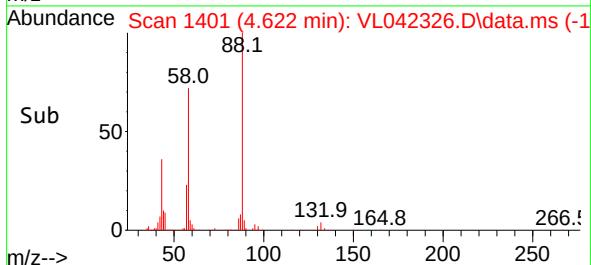
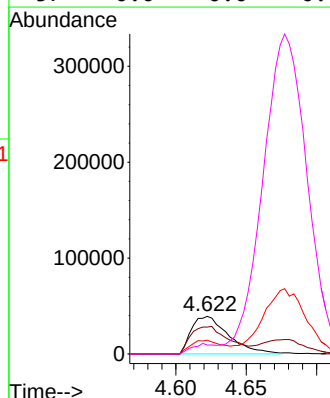
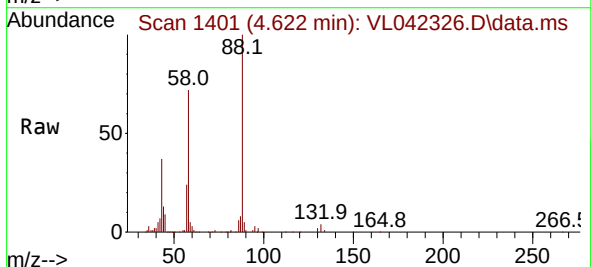
Ion Ratio Lower Upper

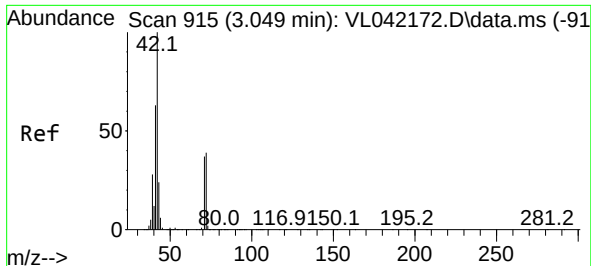
88 100

58 79.6 62.7 94.1

43 31.4 23.0 34.4

57 0.0 0.0 0.0

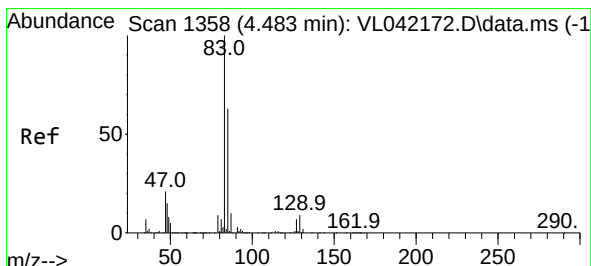
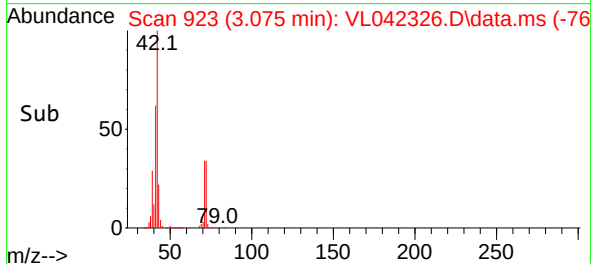
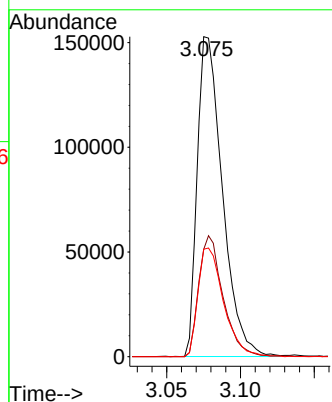
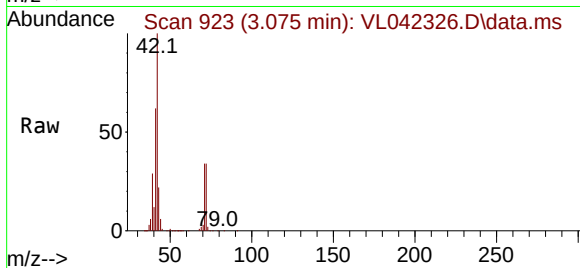




#41
Tetrahydrofuran
Concen: 9.505 ppbv
RT: 3.075 min Scan# 915
Delta R.T. 0.026 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

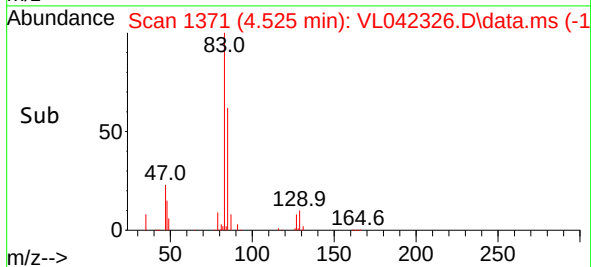
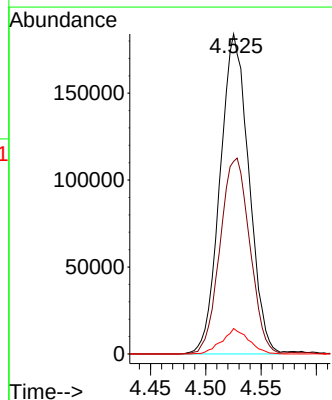
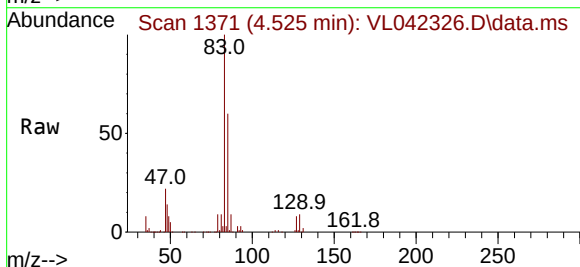
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

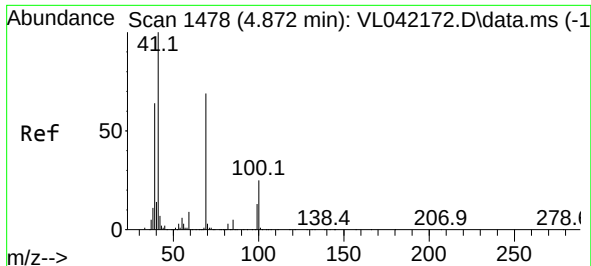
Tgt Ion: 42 Resp: 181471
Ion Ratio Lower Upper
42 100
72 36.5 31.4 47.0
71 34.6 30.2 45.4



#42
Bromodichloromethane
Concen: 9.313 ppbv
RT: 4.525 min Scan# 1371
Delta R.T. 0.042 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 83 Resp: 333167
Ion Ratio Lower Upper
83 100
85 60.2 50.5 75.7
127 7.9 5.9 8.9

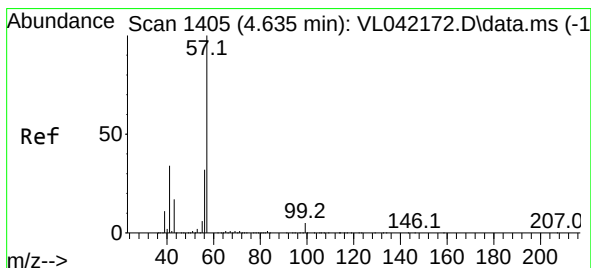
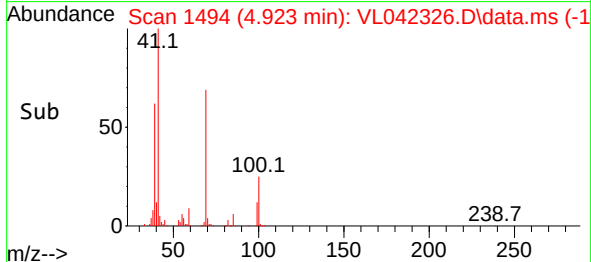
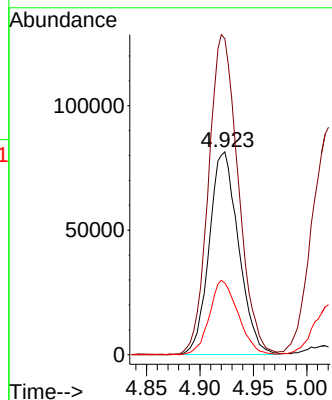
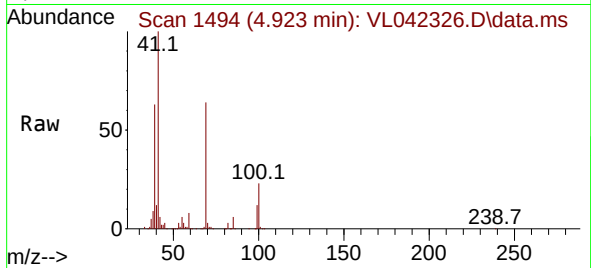




#43
Methyl Methacrylate
Concen: 8.098 ppbv
RT: 4.923 min Scan# 1418
Delta R.T. 0.052 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

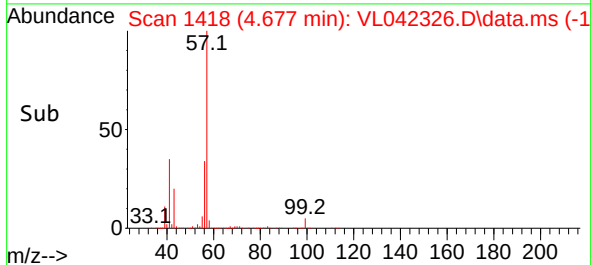
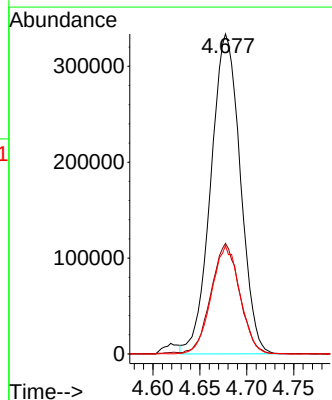
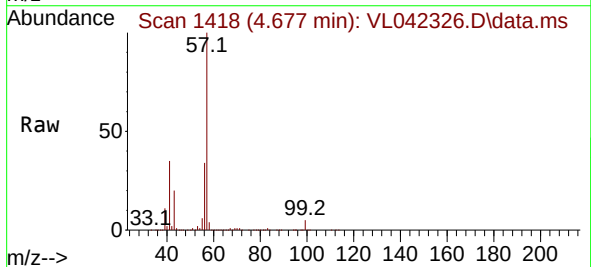
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

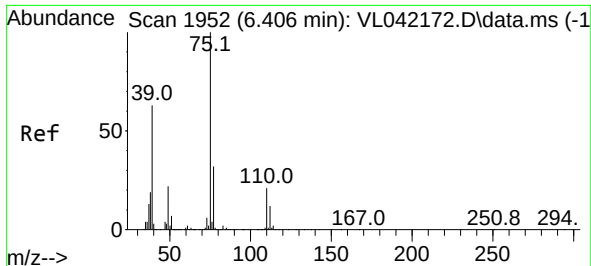
Tgt Ion: 69 Resp: 155399
Ion Ratio Lower Upper
69 100
41 160.2 123.8 185.6
100 35.9 28.4 42.6



#44
2,2,4-Trimethylpentane
Concen: 9.511 ppbv
RT: 4.677 min Scan# 1418
Delta R.T. 0.042 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 57 Resp: 728571
Ion Ratio Lower Upper
57 100
41 33.8 26.8 40.2
56 32.8 25.6 38.4

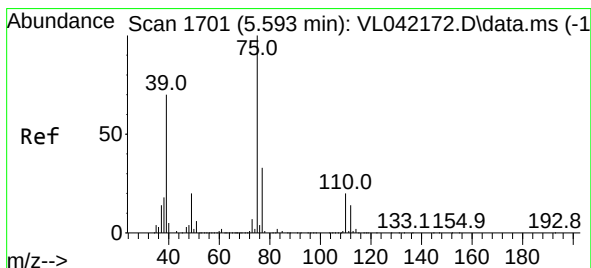
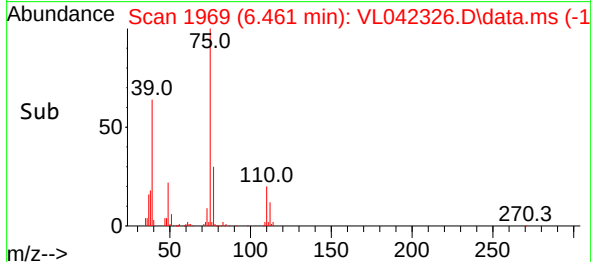
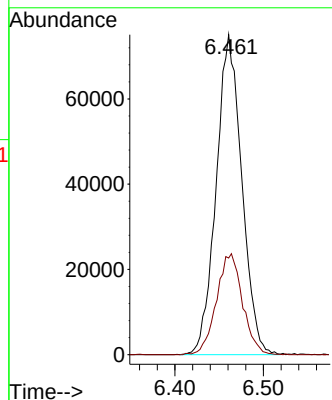
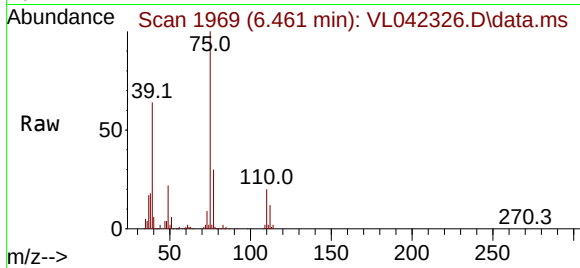




#45
t-1,3-Dichloropropene
Concen: 7.338 ppbv
RT: 6.461 min Scan# 1952
Delta R.T. 0.055 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

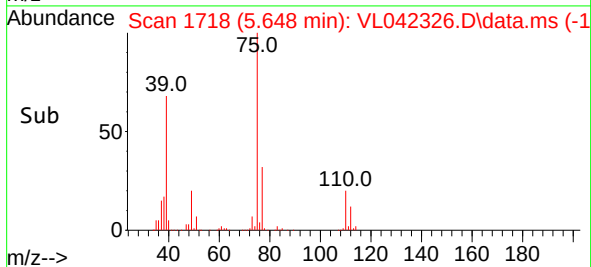
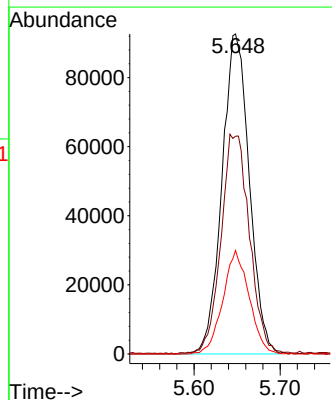
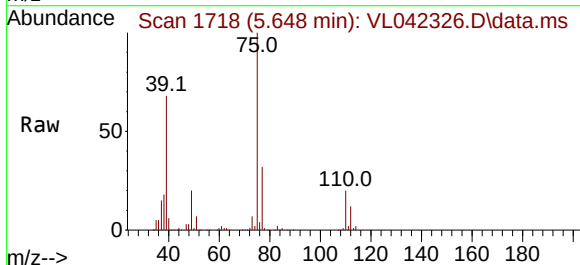
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

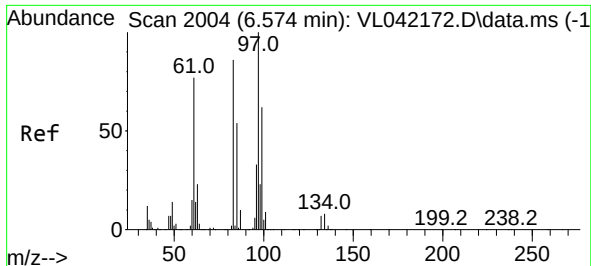
Tgt Ion: 75 Resp: 151063
Ion Ratio Lower Upper
75 100
77 30.2 26.0 39.0



#46
cis-1,3-Dichloropropene
Concen: 8.097 ppbv
RT: 5.648 min Scan# 1718
Delta R.T. 0.055 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 75 Resp: 204339
Ion Ratio Lower Upper
75 100
39 67.6 55.8 83.6
77 32.3 26.0 39.0

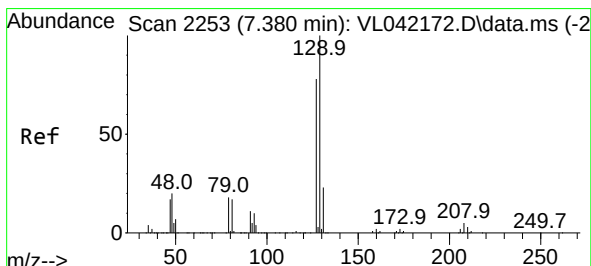
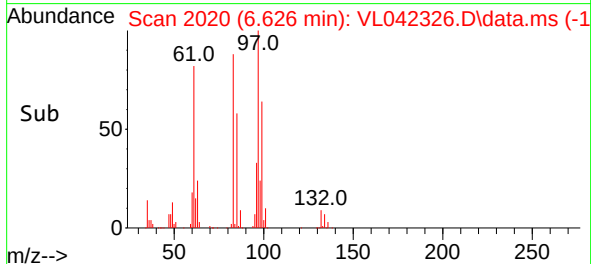
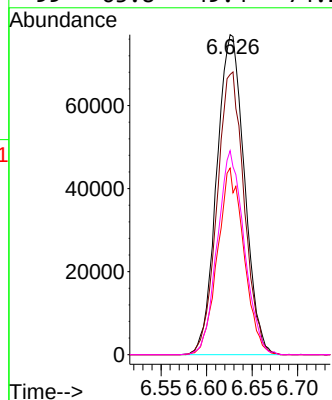
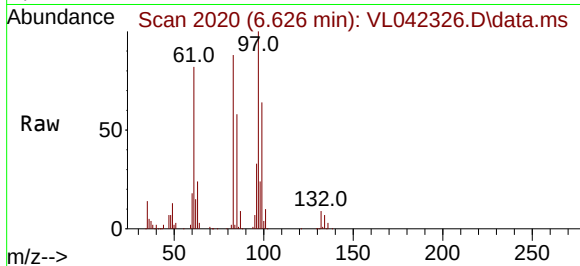




#47
1,1,2-Trichloroethane
Concen: 9.348 ppbv
RT: 6.626 min Scan# 20
Delta R.T. 0.052 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

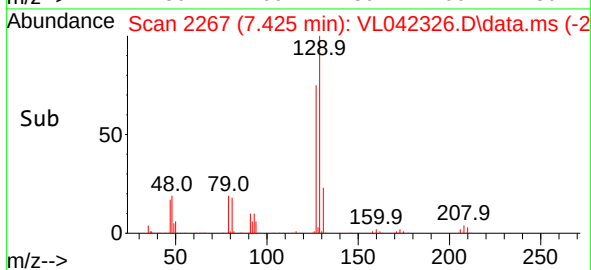
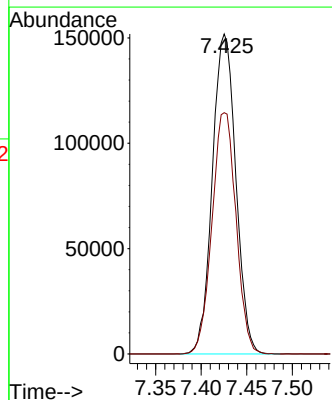
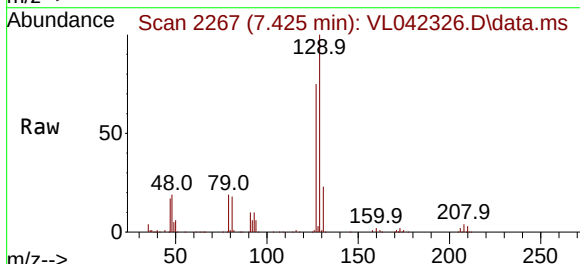
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

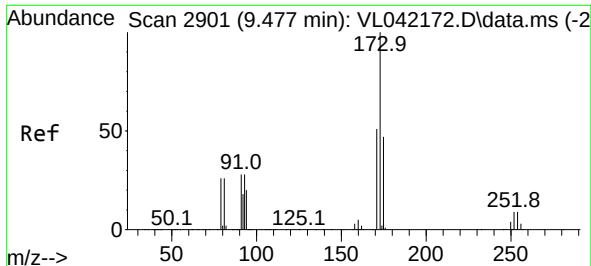
Tgt Ion: 97	Resp: 163132
Ion Ratio	Lower Upper
97 100	
83 87.6	69.2 103.8
85 58.3	43.1 64.7
99 63.8	49.4 74.2



#48
Dibromochloromethane
Concen: 9.217 ppbv
RT: 7.425 min Scan# 2267
Delta R.T. 0.045 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion:129	Resp: 272592
Ion Ratio	Lower Upper
129 100	
127 77.0	39.1 117.2

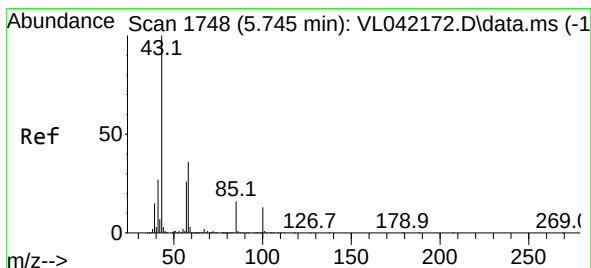
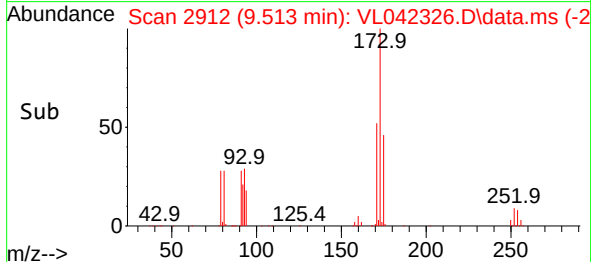
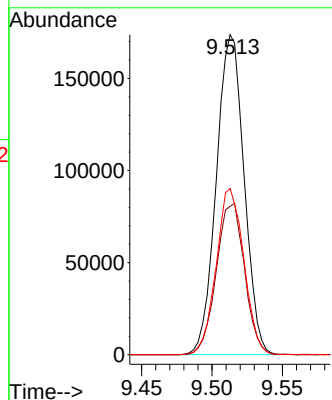
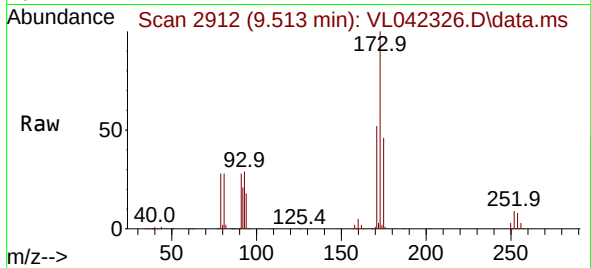




#49
Bromoform
Concen: 8.997 ppbv
RT: 9.513 min Scan# 2901
Delta R.T. 0.035 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

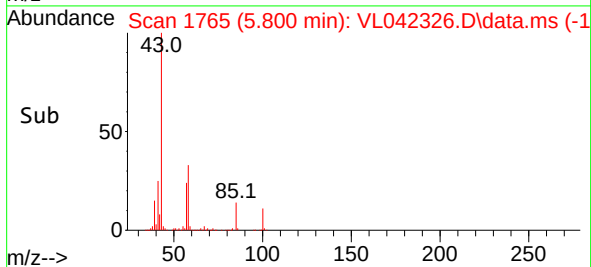
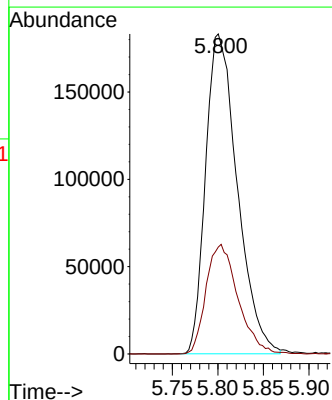
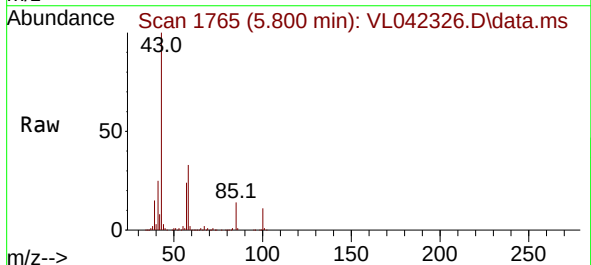
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

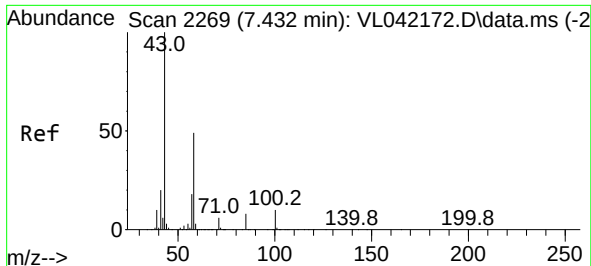
Tgt Ion:173 Resp: 238880
Ion Ratio Lower Upper
173 100
175 48.1 38.6 57.8
171 51.7 41.8 62.6



#50
4-Methyl-2-Pentanone
Concen: 8.428 ppbv
RT: 5.800 min Scan# 1765
Delta R.T. 0.055 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 43 Resp: 442851
Ion Ratio Lower Upper
43 100
58 34.6 29.0 43.6

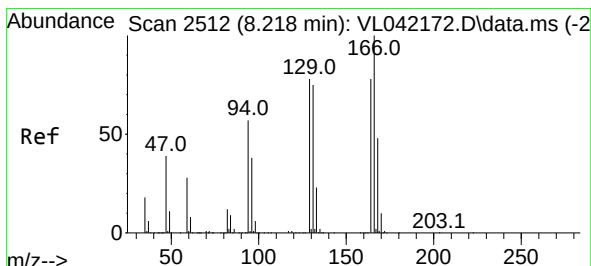
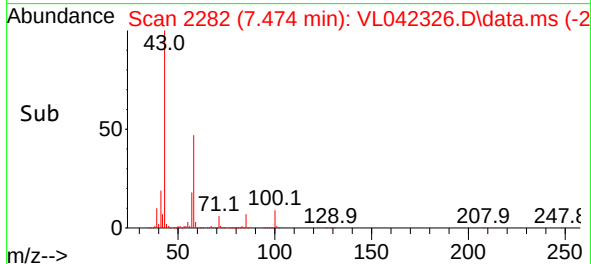
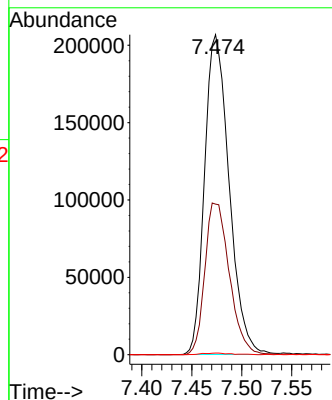
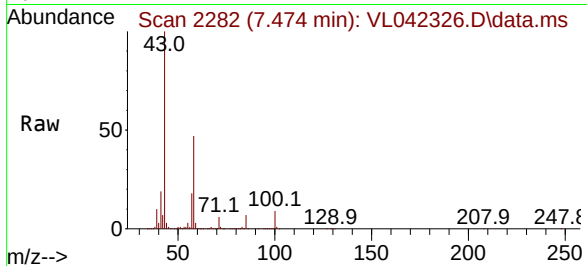




#51
2-Hexanone
Concen: 8.192 ppbv
RT: 7.474 min Scan# 21
Delta R.T. 0.042 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

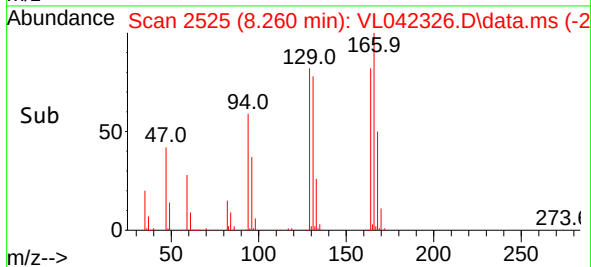
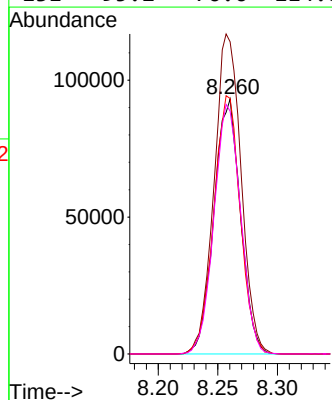
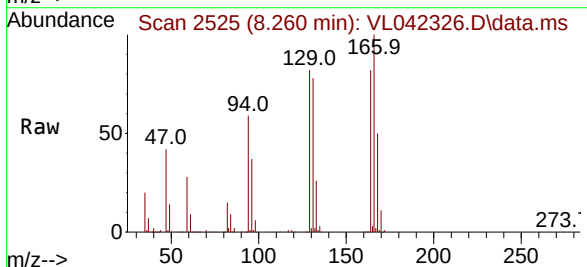
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

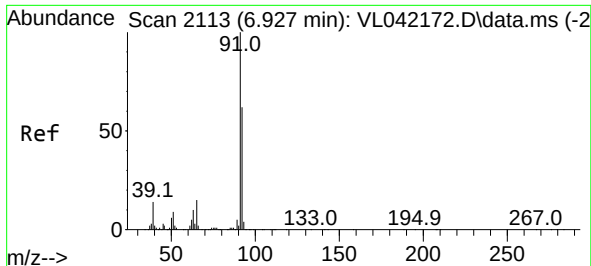
Tgt Ion: 43 Resp: 353471
Ion Ratio Lower Upper
43 100
58 47.5 39.7 59.5
98 0.6 0.1 0.1#



#52
Tetrachloroethene
Concen: 8.037 ppbv
RT: 8.260 min Scan# 2525
Delta R.T. 0.042 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 164 Resp: 144481
Ion Ratio Lower Upper
164 100
166 122.4 102.5 153.7
129 100.2 79.8 119.8
131 95.2 76.6 114.8

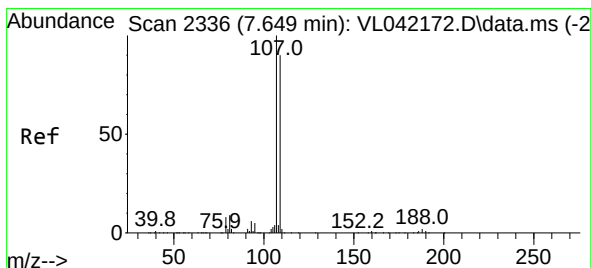
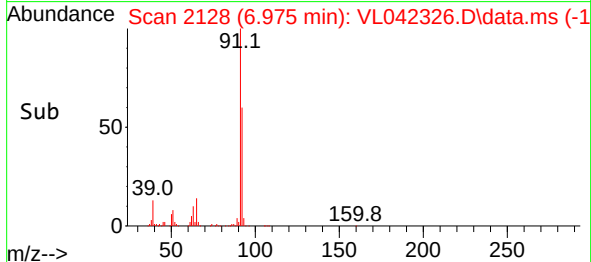
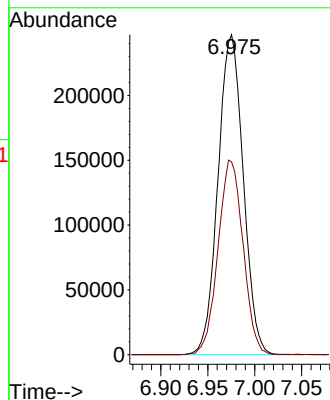
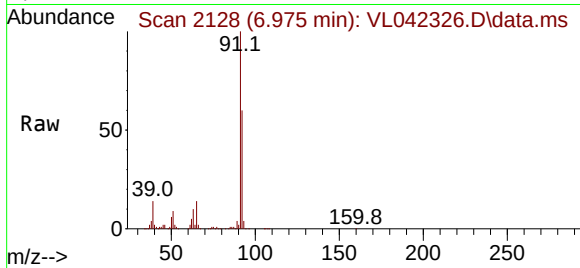




#53
Toluene
Concen: 8.595 ppbv
RT: 6.975 min Scan# 2113
Delta R.T. 0.048 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

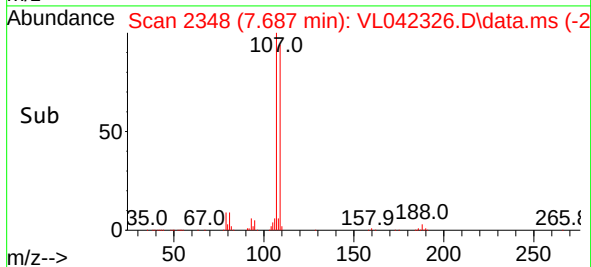
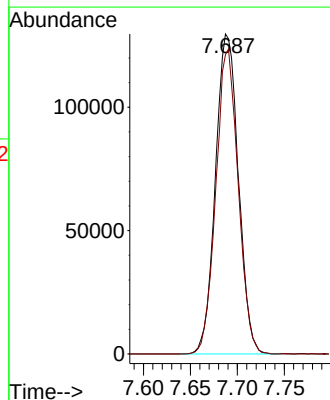
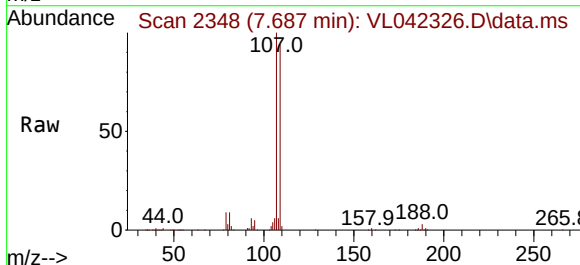
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

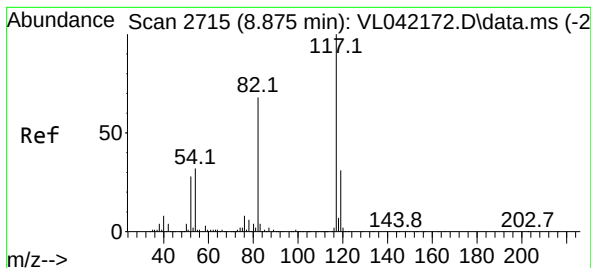
Tgt Ion: 91 Resp: 461854
Ion Ratio Lower Upper
91 100
92 60.2 48.4 72.6



#54
1,2-Dibromoethane
Concen: 9.047 ppbv
RT: 7.687 min Scan# 2348
Delta R.T. 0.039 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 107 Resp: 220075
Ion Ratio Lower Upper
107 100
109 93.6 72.2 108.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.911 min Scan# 21

Delta R.T. 0.035 min

Lab File: VL042326.D

Acq: 15 Apr 2025 11:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

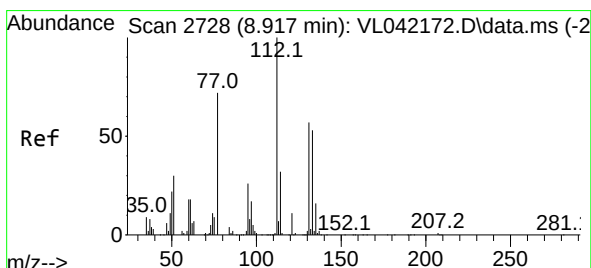
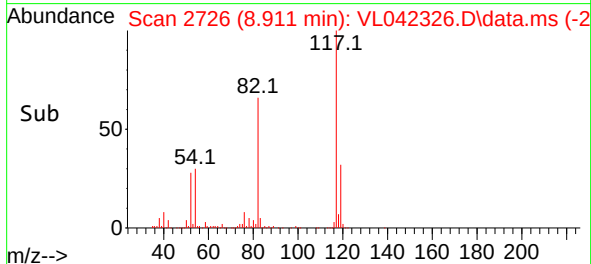
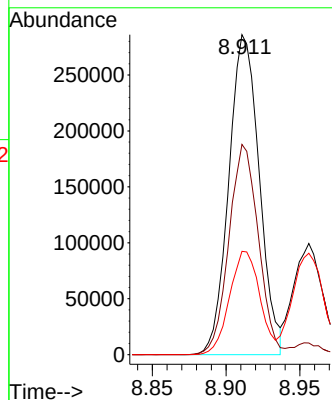
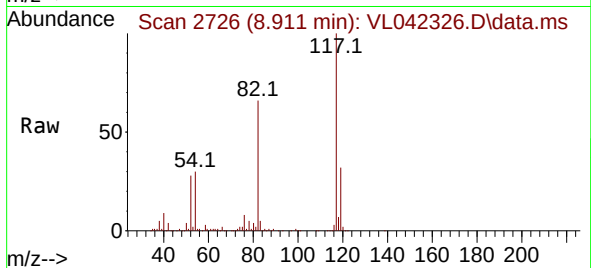
Tgt Ion:117 Resp: 411493

Ion Ratio Lower Upper

117 100

82 67.0 55.8 83.6

119 33.0 25.5 38.3



#56

1,1,1,2-Tetrachloroethane

Concen: 9.455 ppbv

RT: 8.956 min Scan# 2740

Delta R.T. 0.039 min

Lab File: VL042326.D

Acq: 15 Apr 2025 11:30

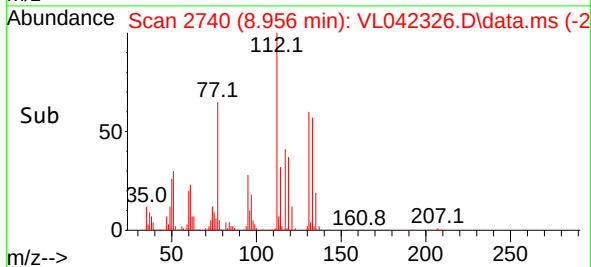
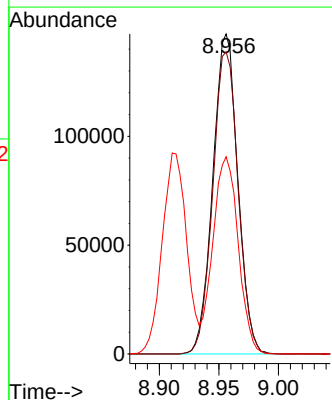
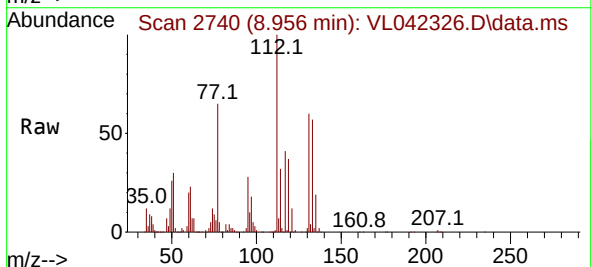
Tgt Ion:131 Resp: 214175

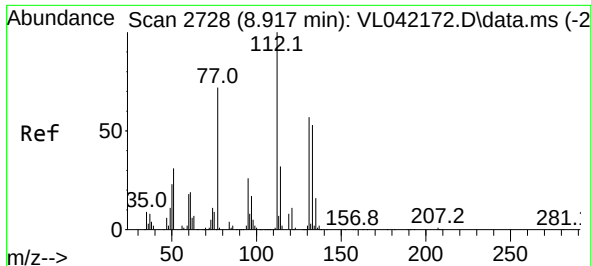
Ion Ratio Lower Upper

131 100

133 95.9 76.6 114.8

119 61.1 49.8 74.6





#57

Chlorobenzene

Concen: 9.617 ppbv

RT: 8.953 min Scan# 21

Delta R.T. 0.035 min

Lab File: VL042326.D

Acq: 15 Apr 2025 11:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

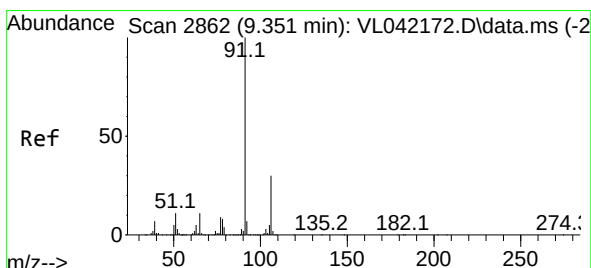
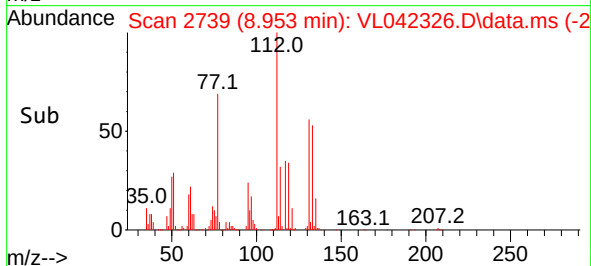
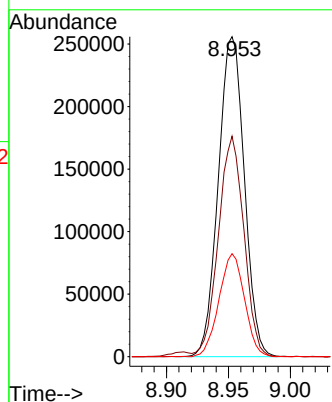
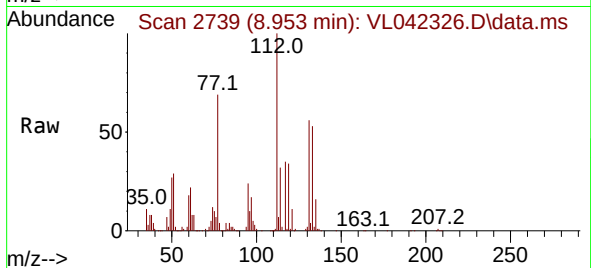
Tgt Ion:112 Resp: 375357

Ion Ratio Lower Upper

112 100

77 68.8 58.2 87.2

114 32.2 29.1 35.5



#58

Ethyl Benzene

Concen: 8.754 ppbv

RT: 9.383 min Scan# 2872

Delta R.T. 0.032 min

Lab File: VL042326.D

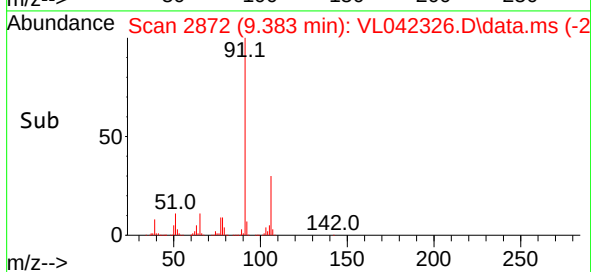
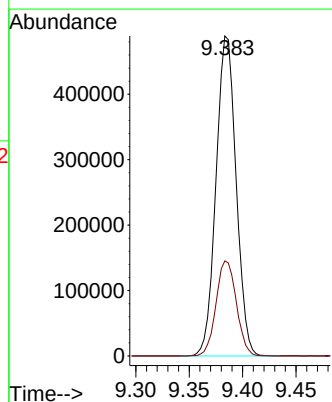
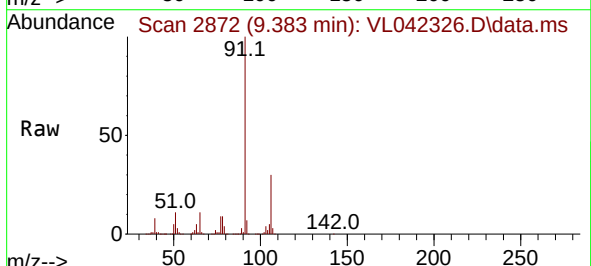
Acq: 15 Apr 2025 11:30

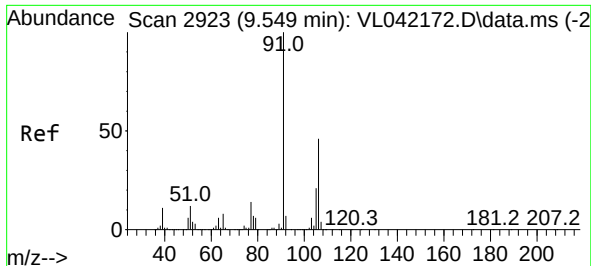
Tgt Ion: 91 Resp: 639857

Ion Ratio Lower Upper

91 100

106 29.7 24.2 36.2





#59

m/p-Xylene

Concen: 8.372 ppbv

RT: 9.581 min Scan# 29

Delta R.T. 0.032 min

Lab File: VL042326.D

Acq: 15 Apr 2025 11:30

Instrument :

MSVOA_1

ClientSampleId :

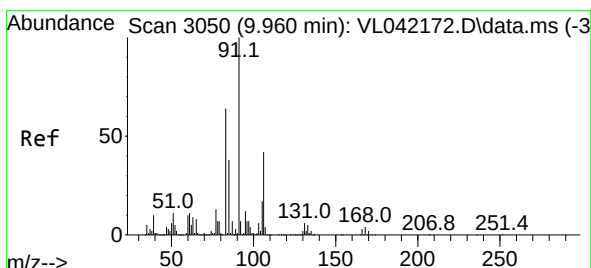
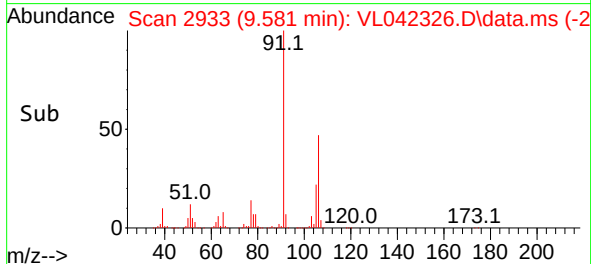
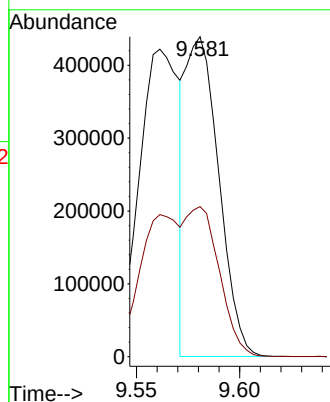
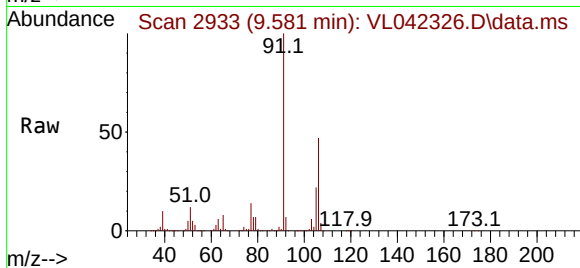
VSTDCCC010

Tgt Ion: 91 Resp: 488646

Ion Ratio Lower Upper

91 100

106 102.5 36.4 54.6#



#60

o-Xylene

Concen: 9.040 ppbv

RT: 9.992 min Scan# 3060

Delta R.T. 0.032 min

Lab File: VL042326.D

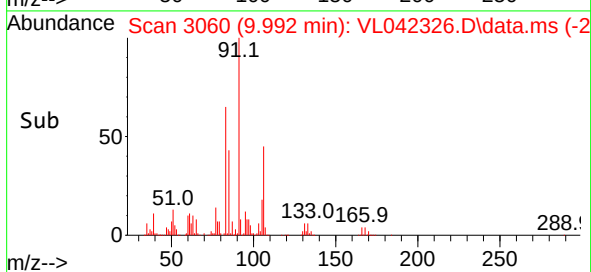
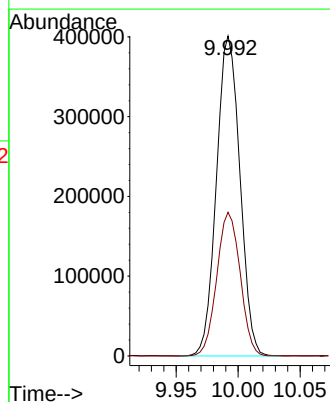
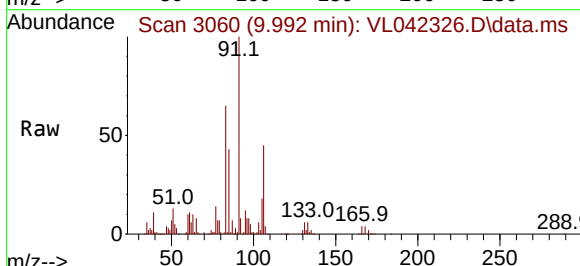
Acq: 15 Apr 2025 11:30

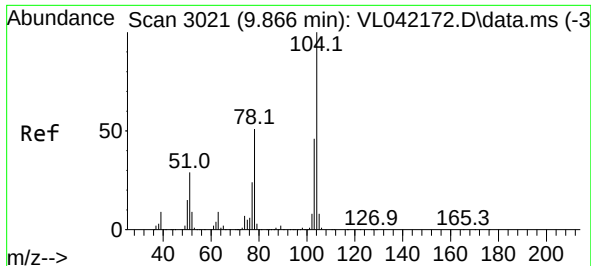
Tgt Ion: 91 Resp: 528896

Ion Ratio Lower Upper

91 100

106 44.8 20.8 62.5

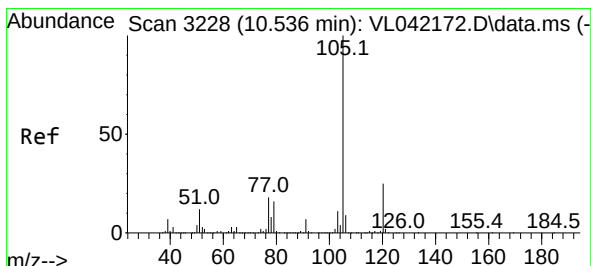
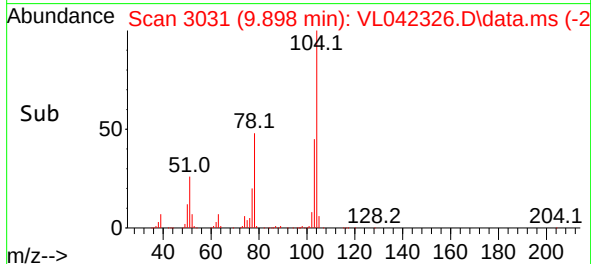
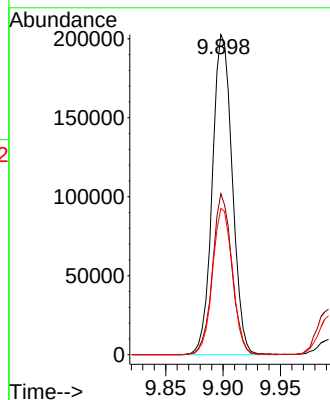
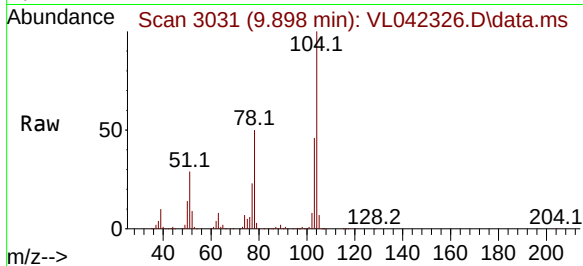




#61
Styrene
Concen: 8.474 ppbv
RT: 9.898 min Scan# 3021
Delta R.T. 0.032 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

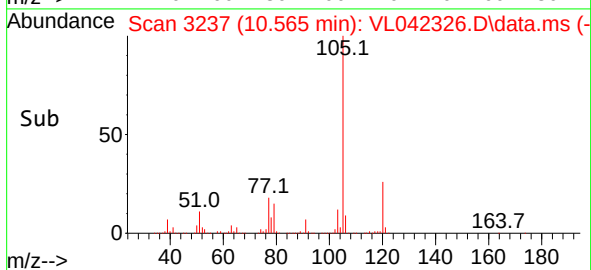
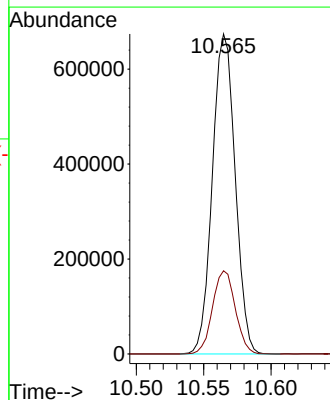
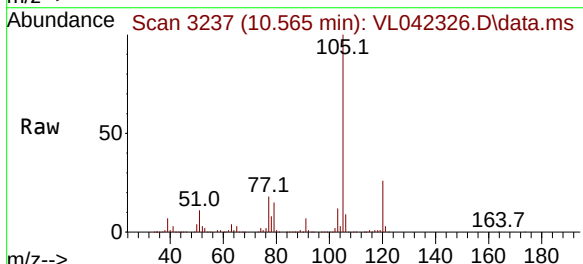
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

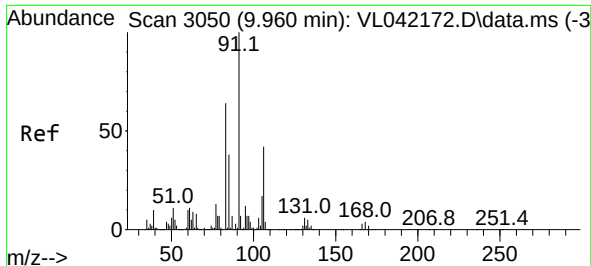
Tgt Ion:104 Resp: 245300
Ion Ratio Lower Upper
104 100
78 49.0 41.8 62.6
103 46.0 37.0 55.4



#62
Isopropylbenzene
Concen: 9.079 ppbv
RT: 10.565 min Scan# 3237
Delta R.T. 0.029 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion:105 Resp: 794408
Ion Ratio Lower Upper
105 100
120 25.9 19.9 29.9





#63

1,1,2,2-Tetrachloroethane

Concen: 9.671 ppbv

RT: 9.992 min Scan# 3060

Delta R.T. 0.032 min

Lab File: VL042326.D

Acq: 15 Apr 2025 11:30

Instrument :

MSVOA_1

ClientSampleId :

VSTDCCC010

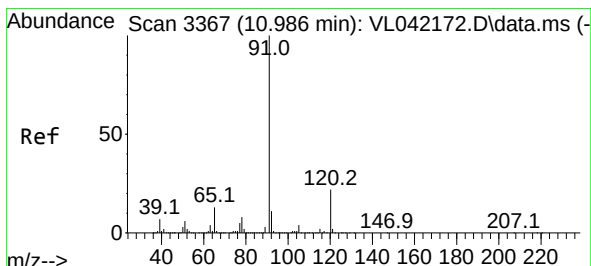
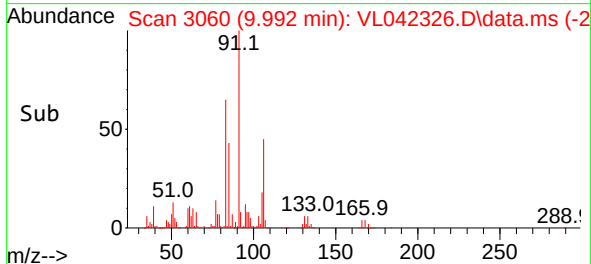
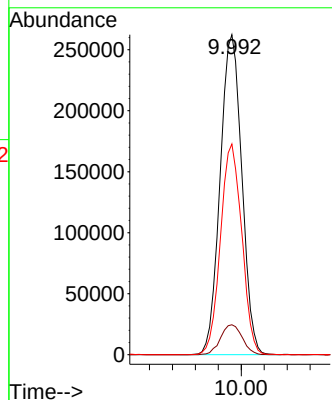
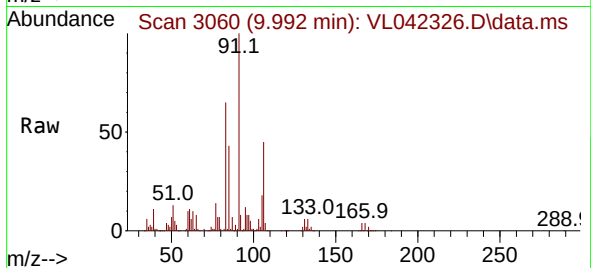
Tgt Ion: 83 Resp: 343786

Ion Ratio Lower Upper

83 100

131 9.4 4.8 14.4

85 64.8 32.5 97.5



#64

n-propylbenzene

Concen: 9.452 ppbv

RT: 11.015 min Scan# 3376

Delta R.T. 0.029 min

Lab File: VL042326.D

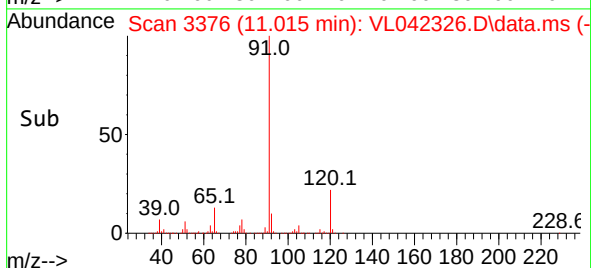
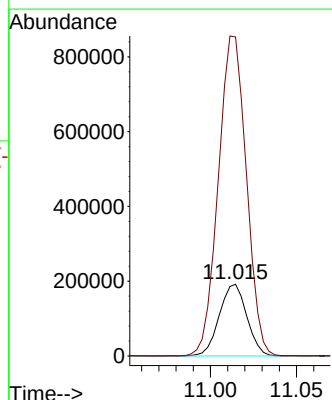
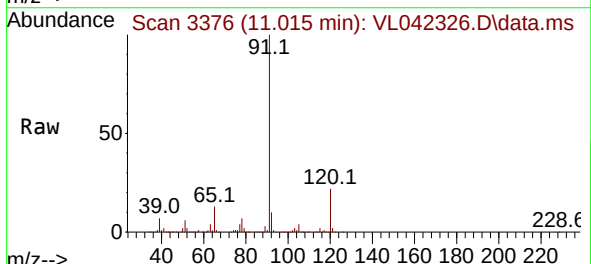
Acq: 15 Apr 2025 11:30

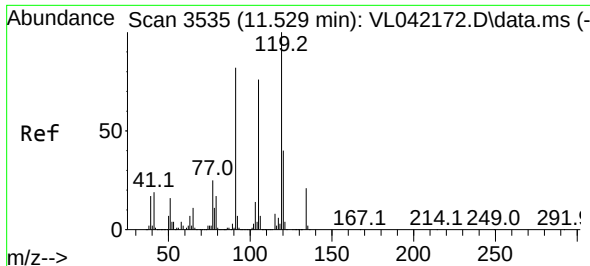
Tgt Ion: 120 Resp: 212879

Ion Ratio Lower Upper

120 100

91 456.6 376.9 565.3

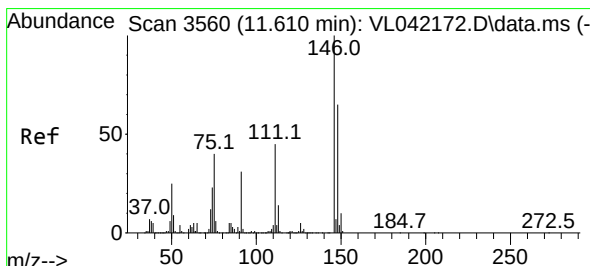
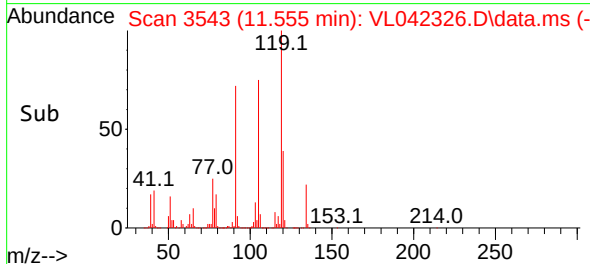
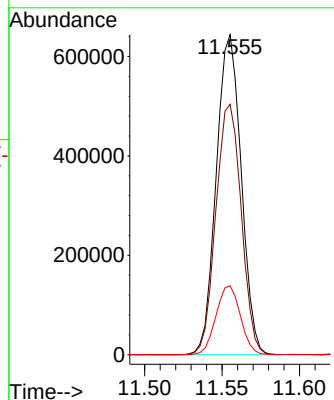
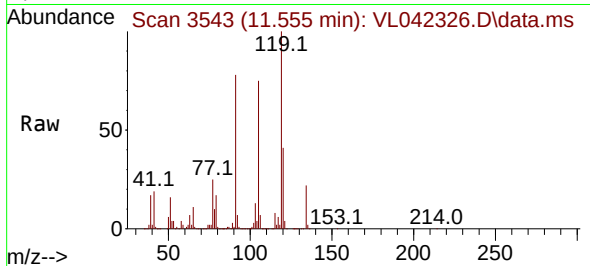




#65
tert-Butylbenzene
Concen: 8.911 ppbv
RT: 11.555 min Scan# 3543
Delta R.T. 0.026 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

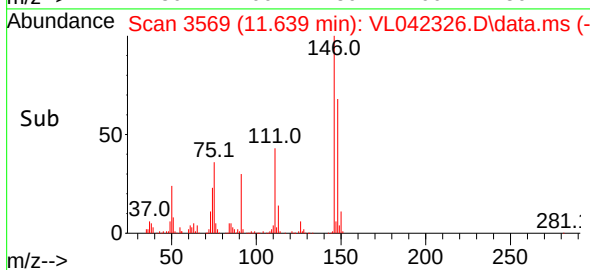
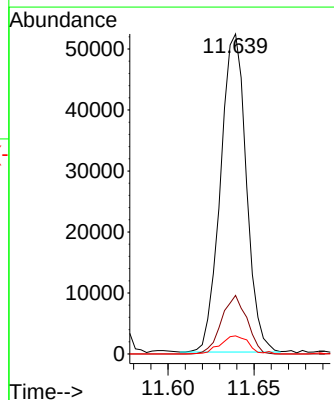
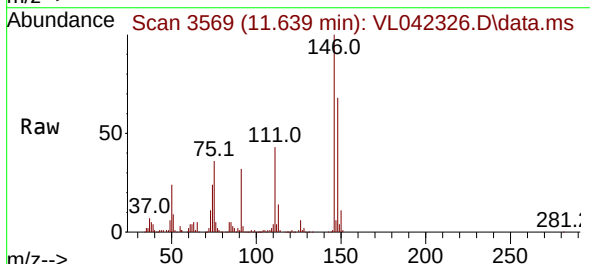
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

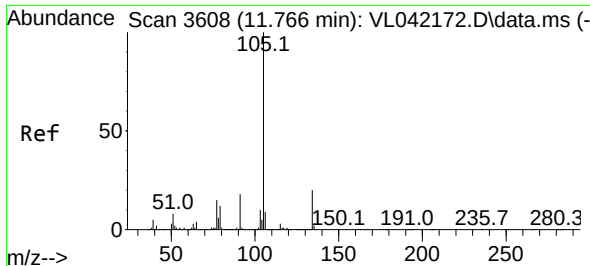
Tgt Ion: 119 Resp: 721078
Ion Ratio Lower Upper
119 100
91 79.7 66.0 99.0
134 21.1 16.7 25.1



#66
Benzyl Chloride
Concen: 6.339 ppbv
RT: 11.639 min Scan# 3569
Delta R.T. 0.029 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 91 Resp: 54427
Ion Ratio Lower Upper
91 100
126 18.2 13.8 20.6
128 6.3 4.5 6.7

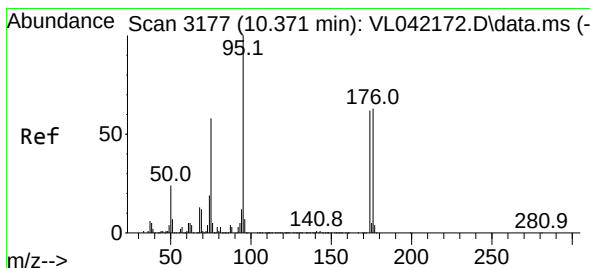
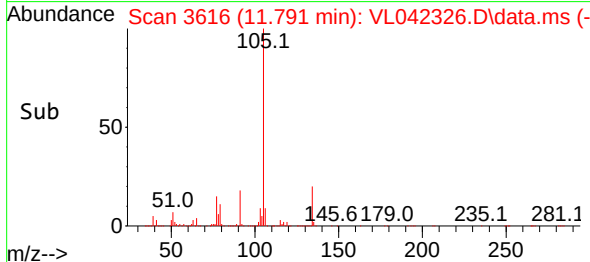
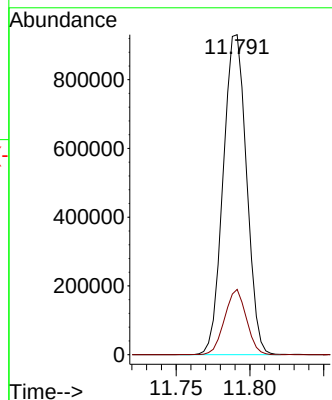
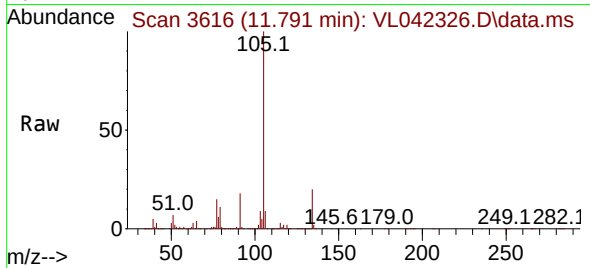




#67
sec-Butylbenzene
Concen: 9.123 ppbv
RT: 11.791 min Scan# 3179
Delta R.T. 0.026 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

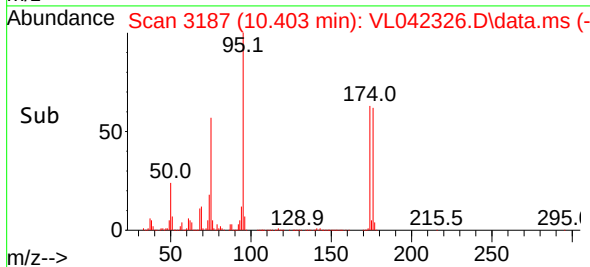
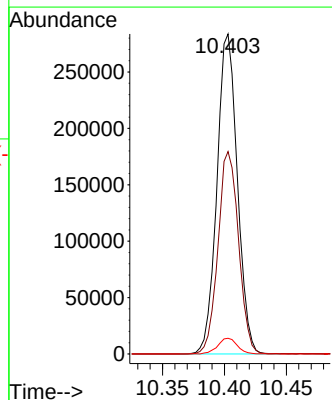
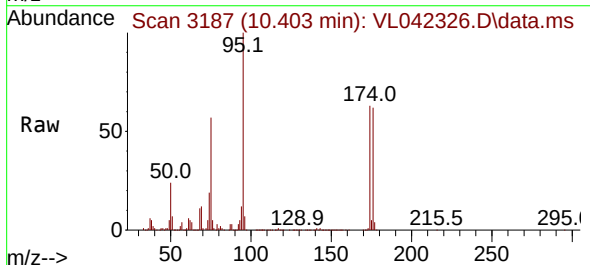
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

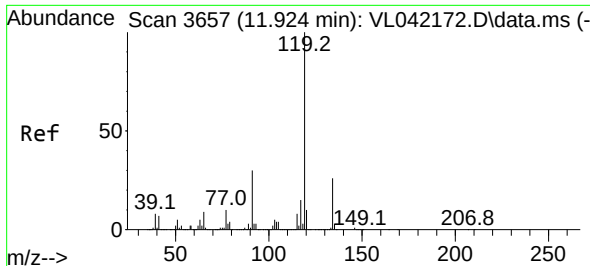
Tgt Ion:105 Resp: 1026079
Ion Ratio Lower Upper
105 100
134 19.0 15.5 23.3



#68
1-Bromo-4-Fluorobenzene
Concen: 9.646 ppbv
RT: 10.403 min Scan# 3187
Delta R.T. 0.032 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 95 Resp: 325960
Ion Ratio Lower Upper
95 100
174 63.6 50.6 76.0
175 4.7 3.8 5.6

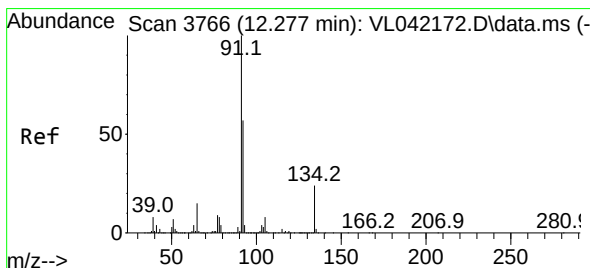
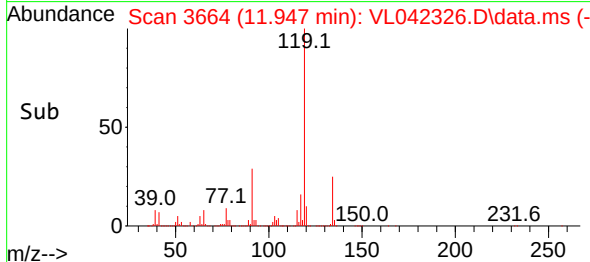
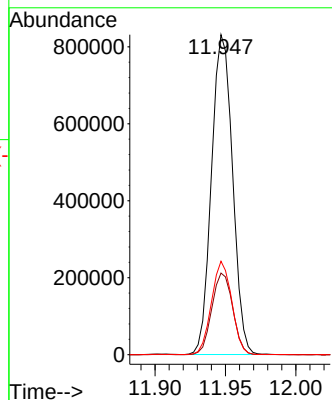
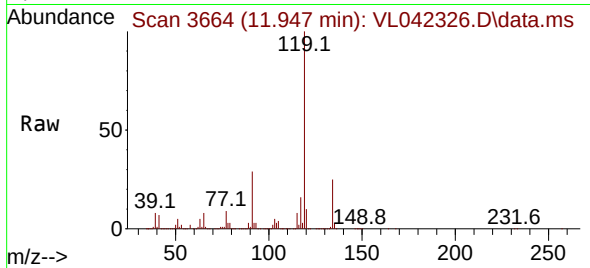




#69
p-Isopropyltoluene
Concen: 8.935 ppbv
RT: 11.947 min Scan# 30
Delta R.T. 0.023 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

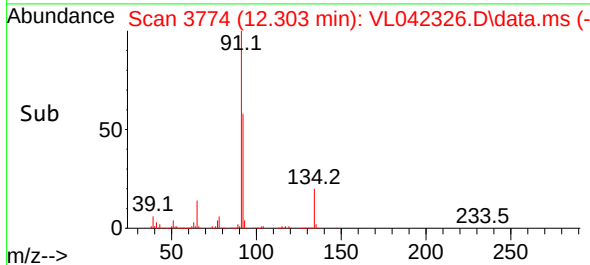
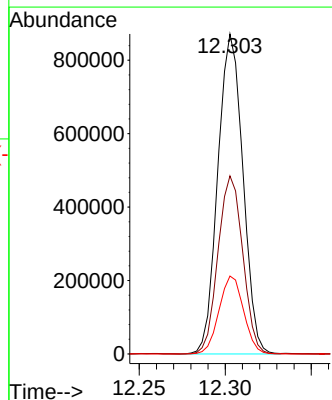
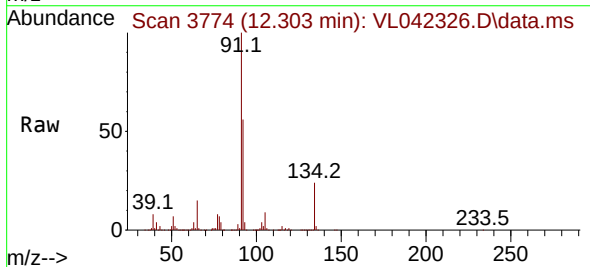
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

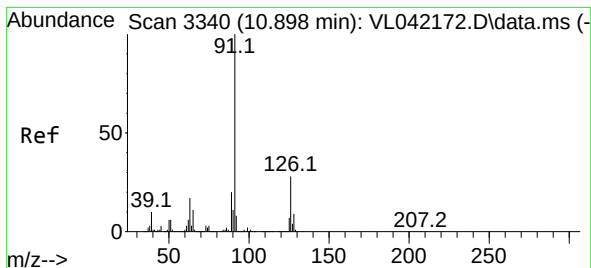
Tgt Ion:119 Resp: 865385
Ion Ratio Lower Upper
119 100
134 25.4 20.4 30.6
91 28.4 23.7 35.5



#70
n-Butylbenzene
Concen: 8.928 ppbv
RT: 12.303 min Scan# 3774
Delta R.T. 0.026 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 91 Resp: 884265
Ion Ratio Lower Upper
91 100
92 55.0 44.9 67.3
134 23.8 19.2 28.8

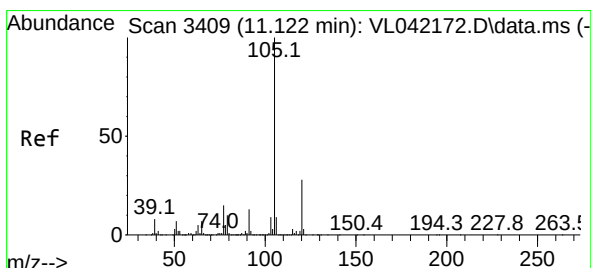
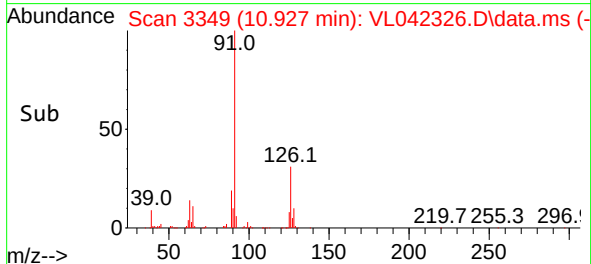
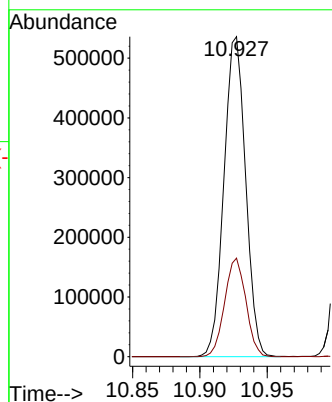
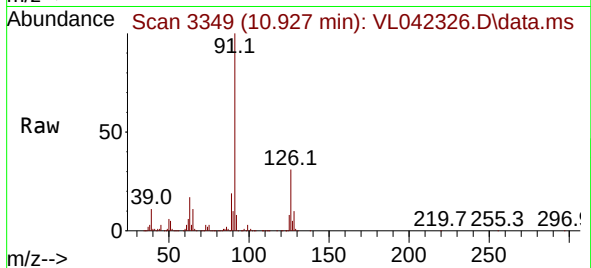




#71
2-Chlorotoluene
Concen: 8.830 ppbv
RT: 10.927 min Scan# 31
Delta R.T. 0.029 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

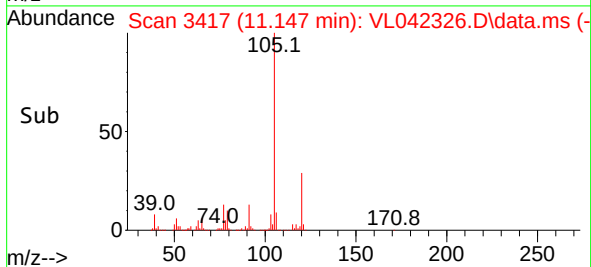
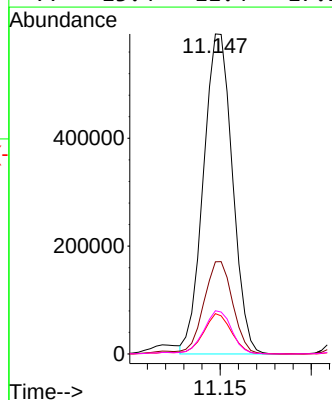
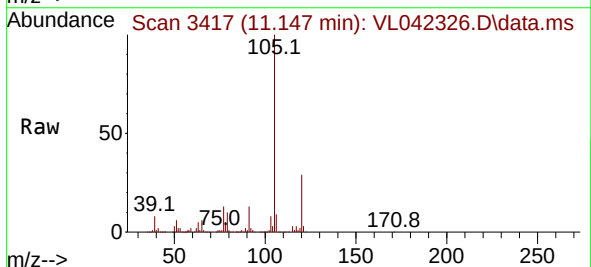
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

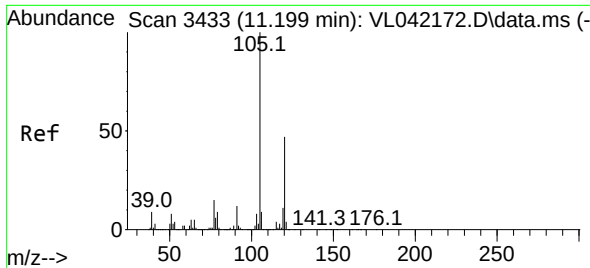
Tgt Ion: 91 Resp: 599592
Ion Ratio Lower Upper
91 100
126 30.1 11.6 46.4



#72
4-Ethyltoluene
Concen: 9.029 ppbv
RT: 11.147 min Scan# 3417
Delta R.T. 0.026 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 105 Resp: 657765
Ion Ratio Lower Upper
105 100
120 29.5 23.4 35.0
91 12.6 10.3 15.5
77 13.4 11.4 17.2

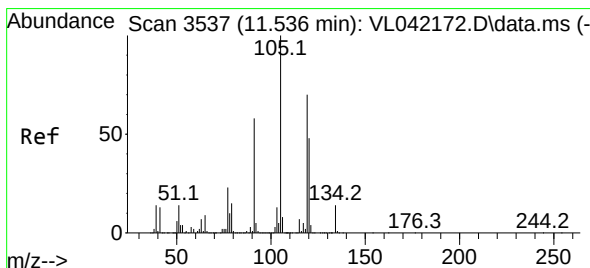
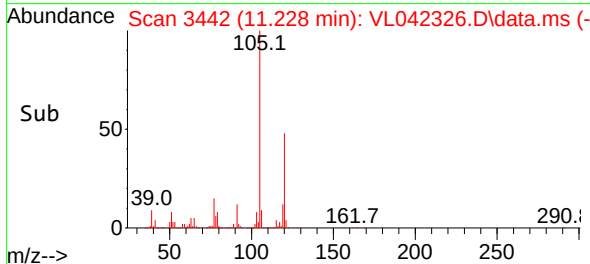
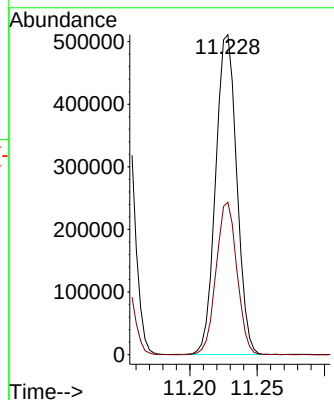
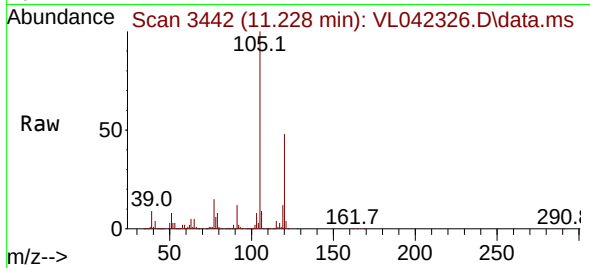




#73
 1,3,5-Trimethylbenzene
 Concen: 8.764 ppbv
 RT: 11.228 min Scan# 3433
 Delta R.T. 0.029 min
 Lab File: VL042326.D
 Acq: 15 Apr 2025 11:30

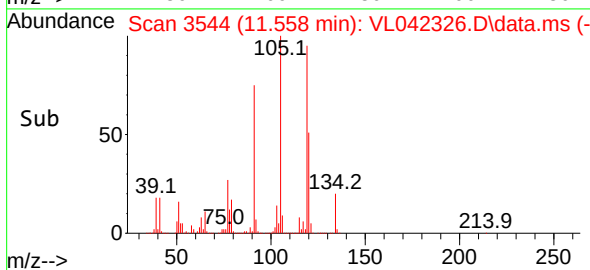
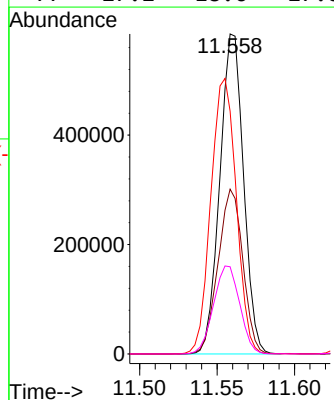
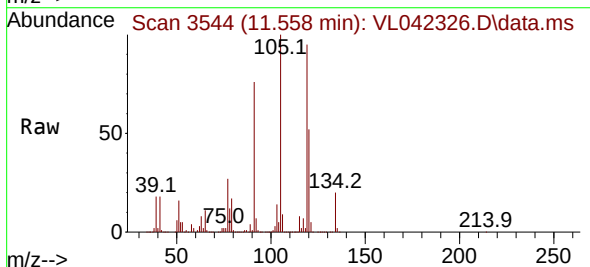
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDCCC010

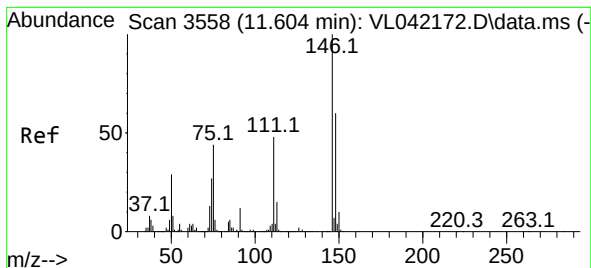
Tgt Ion:105 Resp: 557593
 Ion Ratio Lower Upper
 105 100
 120 47.7 37.4 56.0



#74
 1,2,4-Trimethylbenzene
 Concen: 8.507 ppbv
 RT: 11.558 min Scan# 3544
 Delta R.T. 0.023 min
 Lab File: VL042326.D
 Acq: 15 Apr 2025 11:30

Tgt Ion:105 Resp: 623563
 Ion Ratio Lower Upper
 105 100
 120 51.5 38.6 58.0
 91 75.8 46.2 69.2#
 77 27.2 18.6 27.8





#75

1,3-Dichlorobenzene

Concen: 9.492 ppbv

RT: 11.630 min Scan# 3

Delta R.T. 0.026 min

Lab File: VL042326.D

Acq: 15 Apr 2025 11:30

Instrument :

MSVOA_1

ClientSampleId :

VSTDCCC010

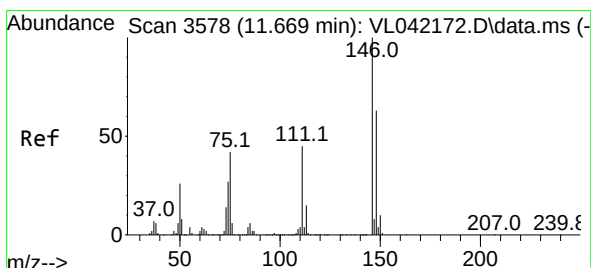
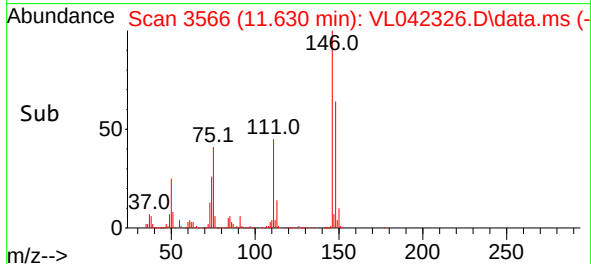
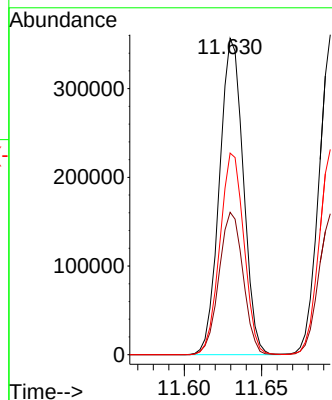
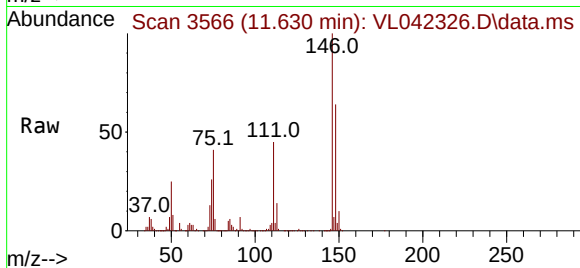
Tgt Ion:146 Resp: 381572

Ion Ratio Lower Upper

146 100

111 45.6 23.8 71.2

148 64.4 31.9 95.9



#76

1,4-Dichlorobenzene

Concen: 9.499 ppbv

RT: 11.694 min Scan# 3586

Delta R.T. 0.026 min

Lab File: VL042326.D

Acq: 15 Apr 2025 11:30

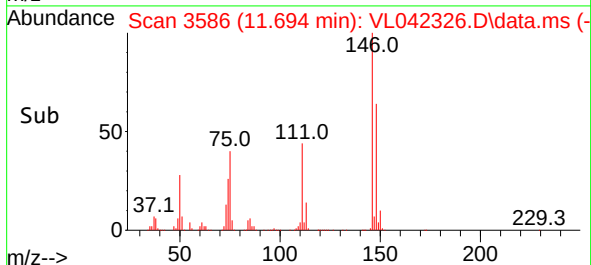
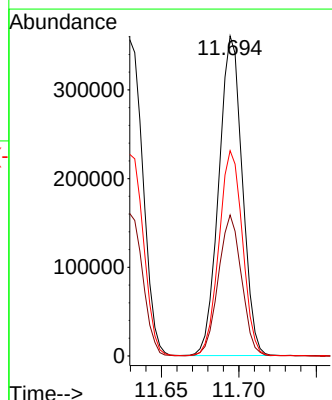
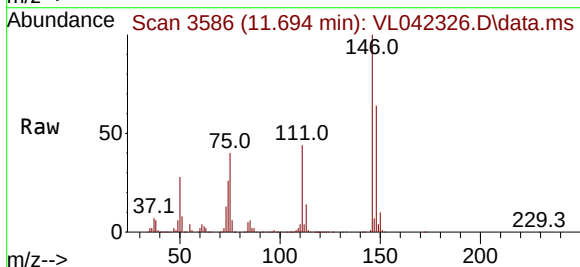
Tgt Ion:146 Resp: 380035

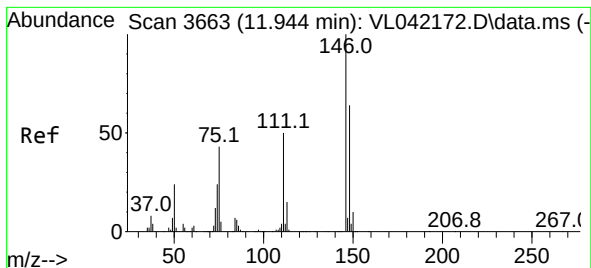
Ion Ratio Lower Upper

146 100

111 43.7 23.0 69.0

148 64.7 31.9 95.7





#77

1,2-Dichlorobenzene

Concen: 9.706 ppbv

RT: 11.969 min Scan# 3

Delta R.T. 0.026 min

Lab File: VL042326.D

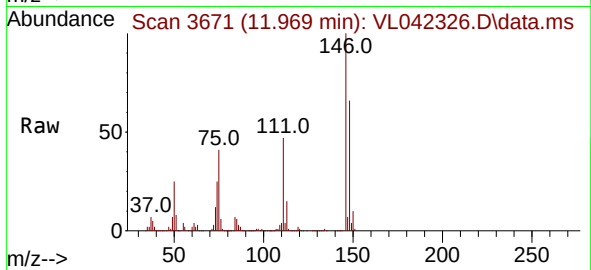
Acq: 15 Apr 2025 11:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010



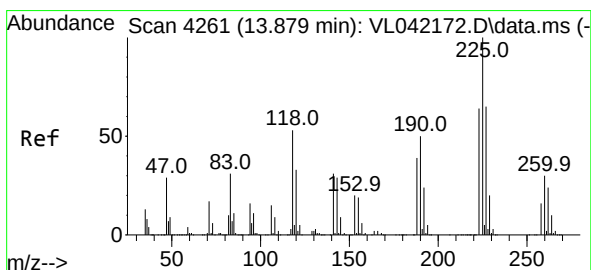
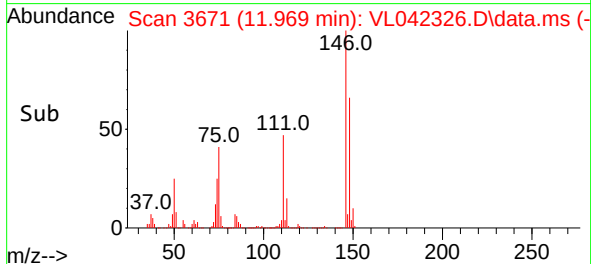
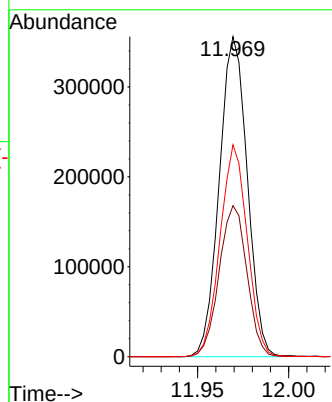
Tgt Ion:146 Resp: 379896

Ion Ratio Lower Upper

146 100

111 47.0 24.8 74.3

148 64.5 31.6 94.8



#78

Hexachloro-1,3-Butadiene

Concen: 7.828 ppbv

RT: 13.902 min Scan# 4268

Delta R.T. 0.023 min

Lab File: VL042326.D

Acq: 15 Apr 2025 11:30

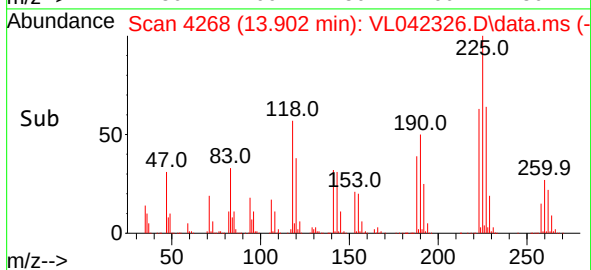
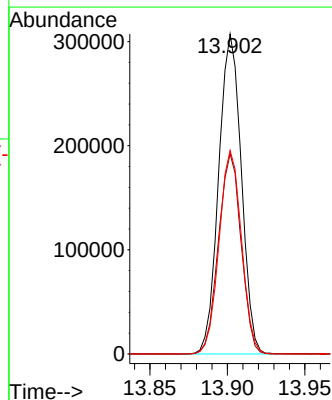
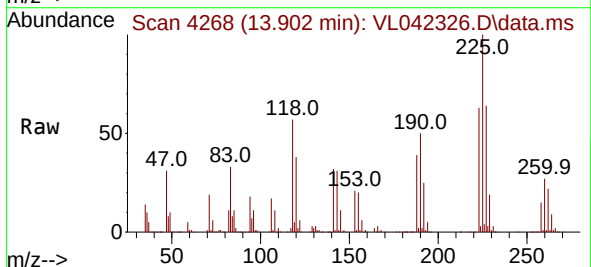
Tgt Ion:225 Resp: 311900

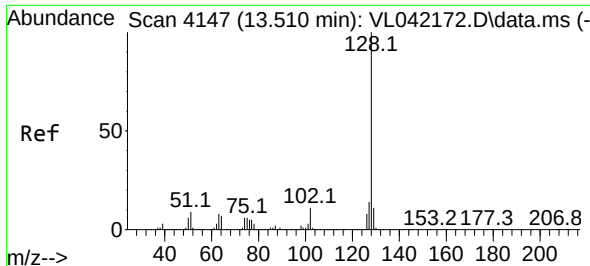
Ion Ratio Lower Upper

225 100

223 62.4 50.6 76.0

227 63.0 51.2 76.8

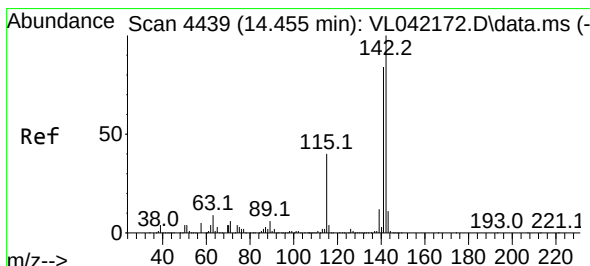
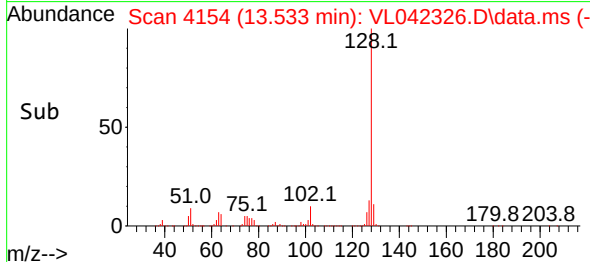
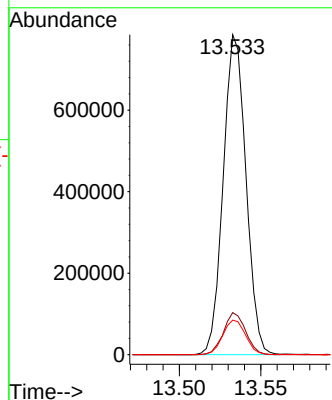
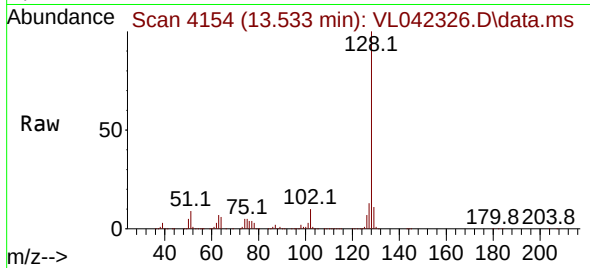




#79
Naphthalene
Concen: 9.490 ppbv
RT: 13.533 min Scan# 4147
Delta R.T. 0.023 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

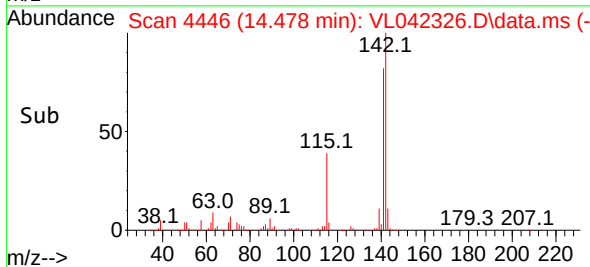
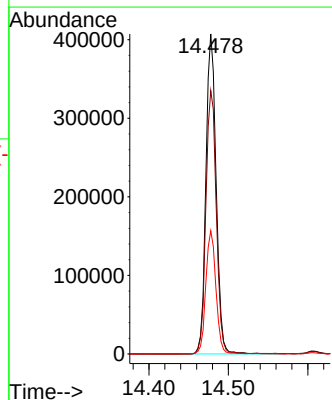
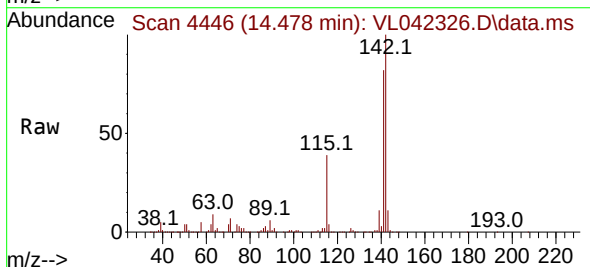
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

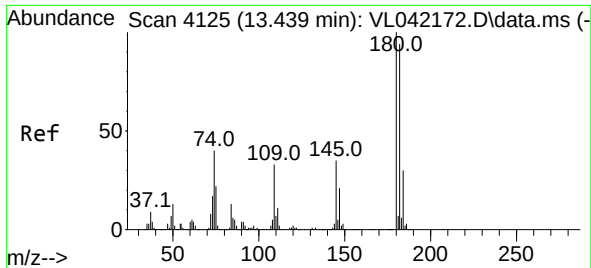
Tgt Ion:128 Resp: 760876
Ion Ratio Lower Upper
128 100
127 13.2 10.8 16.2
129 10.8 9.0 13.4



#80
Naphthalene,2-methyl-
Concen: 9.294 ppbv
RT: 14.478 min Scan# 4446
Delta R.T. 0.023 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

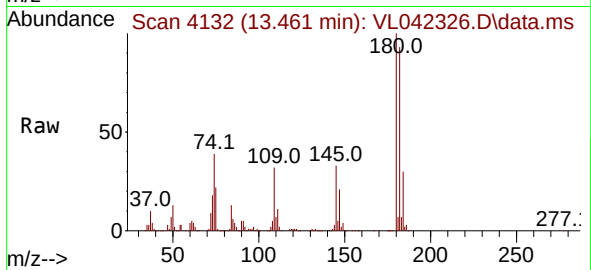
Tgt Ion:142 Resp: 365398
Ion Ratio Lower Upper
142 100
141 84.6 66.3 99.5
115 38.5 31.6 47.4



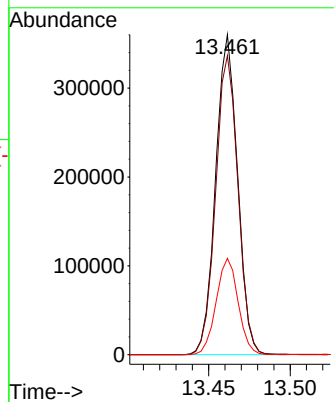
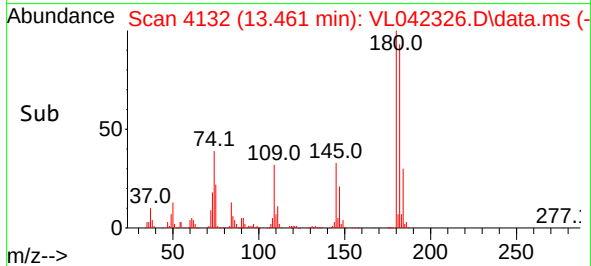


#81
 1,2,4-Trichlorobenzene
 Concen: 9.114 ppbv
 RT: 13.461 min Scan# 41
 Delta R.T. 0.023 min
 Lab File: VL042326.D
 Acq: 15 Apr 2025 11:30

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



Tgt Ion:180 Resp: 337032
 Ion Ratio Lower Upper
 180 100
 182 95.1 75.1 112.7
 184 30.2 24.4 36.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041525\
 Data File : VL042328.D
 Acq On : 15 Apr 2025 12:54
 Operator : SY/MD
 Sample : VL0415ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0415ABS01

Quant Time: Apr 16 01:30:27 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	2.810	49	171986	10.000	ppbv	0.03
33) 1,4-Difluorobenzene	3.994	114	444595	10.000	ppbv	0.04
55) Chlorobenzene-d5	8.917	117	399604	10.000	ppbv	0.04

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.406	95	318902	9.718	ppbv	0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.200%

Target Compounds				Qvalue		
2) Dichlorodifluoromethane	1.509	85	214241	8.437	ppbv	99
3) Chlorodifluoromethane	1.486	51	234966	9.058	ppbv	97
4) Chloromethane	1.541	50	88230	8.502	ppbv	98
5) Vinyl Chloride	1.589	62	82221	7.476	ppbv	94
6) Bromomethane	1.680	94	36050	7.665	ppbv	100
7) Chloroethane	1.716	64	33039	7.931	ppbv	97
8) Dichlorotetrafluoroethane	1.564	85	178173	8.239	ppbv	95
9) Propene	1.492	41	94136	7.917	ppbv	99
10) Heptane	5.027	43	267288	8.451	ppbv	99
11) Trichlorofluoromethane	1.890	101	201665	8.162	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.156	101	154306	7.598	ppbv	98
13) Ethanol	1.732	45	4407	3.921	ppbv	97
14) Bromoethene	1.793	108	57635	7.408	ppbv	99
15) Acetone	1.848	43	178724	7.430	ppbv	96
16) 1,3-Butadiene	1.619	39	89479	7.617	ppbv	96
17) tert-Butyl alcohol	2.055	59	202421	6.757	ppbv	99
18) 1,1-Dichloroethene	2.049	96	69013	7.269	ppbv	97
19) Isopropyl Alcohol	1.900	45	100289	7.390	ppbv	97
20) Methylene Chloride	2.075	84	60054	6.704	ppbv	88
21) Allyl Chloride	2.111	41	127800	7.534	ppbv	98
22) trans-1,2-Dichloroethene	2.360	96	78991	7.198	ppbv	98
23) Vinyl Acetate	2.483	43	64777	6.222	ppbv	98
24) 1,1-Dichloroethane	2.428	63	168373	8.277	ppbv	99
25) Ethyl Acetate	2.861	43	545140	8.732	ppbv	99
26) Hexane	2.848	57	205629	8.528	ppbv	97
27) Carbon Disulfide	2.166	76	191388	7.402	ppbv	99
28) Methyl tert-Butyl Ether	2.460	73	107667	7.172	ppbv	96
29) Chloroform	2.874	83	309262	8.763	ppbv	100
30) Cyclohexane	3.891	84	165914	7.924	ppbv	98
31) cis-1,2-Dichloroethene	2.742	61	197651	8.074	ppbv	99
32) 1,1,1-Trichloroethane	3.395	97	304143	7.528	ppbv	97
34) 2-Butanone	2.580	43	300576	9.323	ppbv	98
35) Carbon Tetrachloride	3.797	117	314849	9.065	ppbv	99
36) Benzene	3.690	78	407959	9.256	ppbv	98
37) 1,2-Dichloroethane	3.247	62	235609	9.337	ppbv	99
38) Trichloroethene	4.590	130	164664	8.954	ppbv	96
39) 1,2-Dichloropropane	4.354	63	149260	9.299	ppbv	97
40) 1,4-Dioxane	4.625	88	68773	8.072	ppbv #	95
41) Tetrahydrofuran	3.082	42	173776	9.361	ppbv	95
42) Bromodichloromethane	4.532	83	327497	9.414	ppbv	99
43) Methyl Methacrylate	4.930	69	151531	8.121	ppbv	98
44) 2,2,4-Trimethylpentane	4.680	57	707832	9.503	ppbv	98
45) t-1,3-Dichloropropene	6.470	75	143714	7.179	ppbv	91

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041525\
 Data File : VL042328.D
 Acq On : 15 Apr 2025 12:54
 Operator : SY/MD
 Sample : VL0415ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0415ABS01

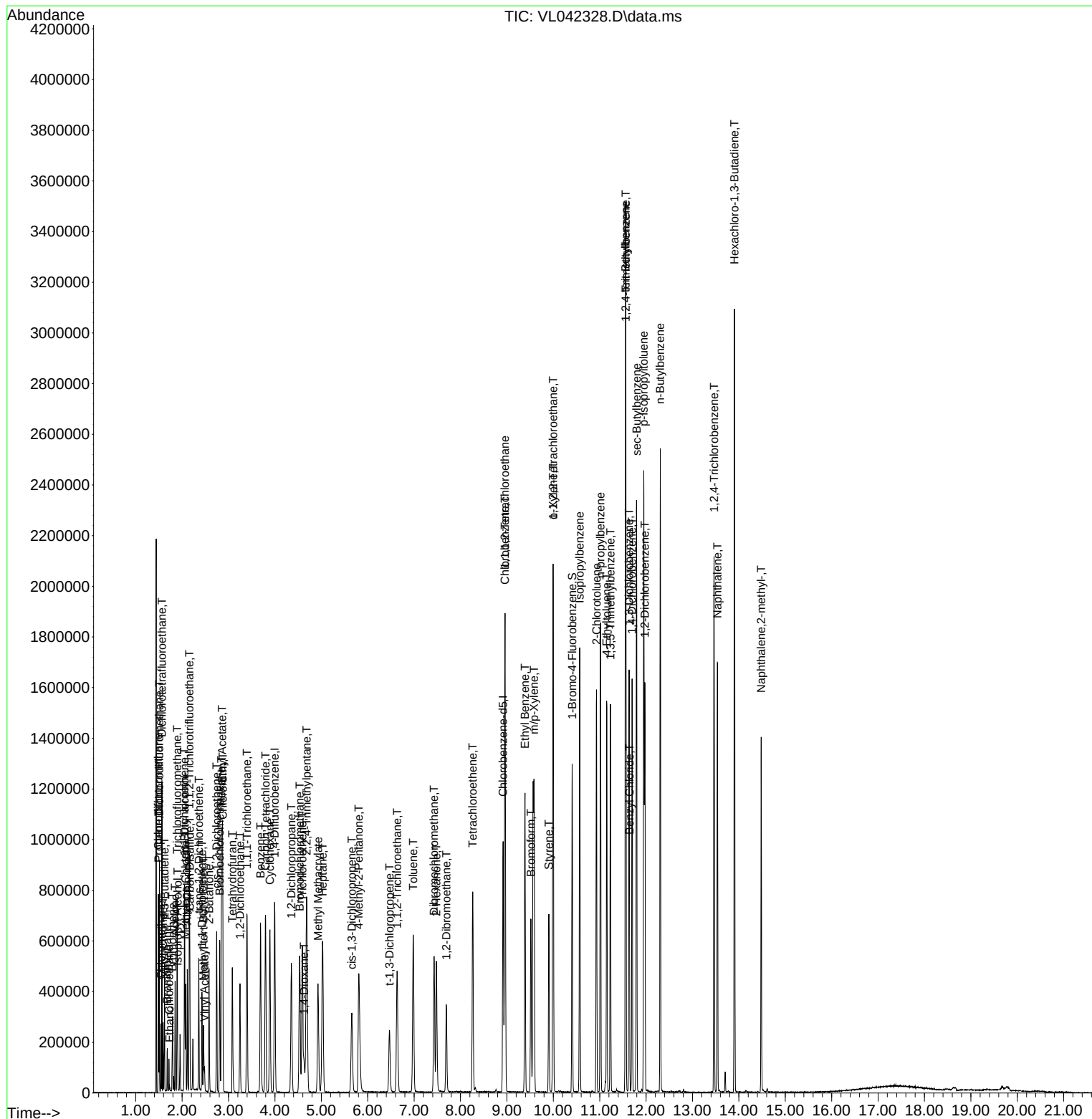
Quant Time: Apr 16 01:30:27 2025
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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 02:00:52 2025
 Response via : Initial Calibration

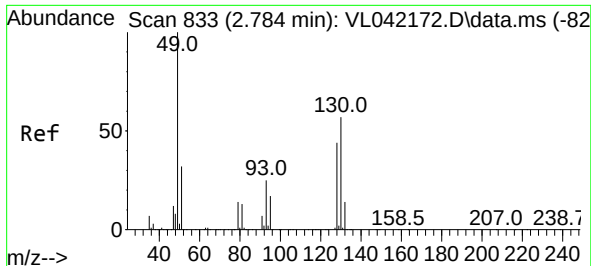
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.658	75	192419	7.841	ppbv	96
47) 1,1,2-Trichloroethane	6.635	97	163251	9.621	ppbv	98
48) Dibromochloromethane	7.428	129	266192	9.256	ppbv	100
49) Bromoform	9.519	173	236686	9.168	ppbv	99
50) 4-Methyl-2-Pentanone	5.807	43	429988	8.416	ppbv	95
51) 2-Hexanone	7.480	43	344172	8.203	ppbv #	96
52) Tetrachloroethene	8.263	164	139845	8.000	ppbv	95
53) Toluene	6.978	91	447178	8.559	ppbv	99
54) 1,2-Dibromoethane	7.694	107	214982	9.089	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.959	131	216770	9.855	ppbv	98
57) Chlorobenzene	8.956	112	369132	9.739	ppbv	95
58) Ethyl Benzene	9.390	91	618669	8.716	ppbv	100
59) m/p-Xylene	9.584	91	510187	9.001	ppbv #	21
60) o-Xylene	9.995	91	517471	9.107	ppbv	96
61) Styrene	9.904	104	229601	8.168	ppbv	97
62) Isopropylbenzene	10.568	105	785673	9.247	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.995	83	351308	10.176	ppbv	99
64) n-propylbenzene	11.018	120	210294	9.615	ppbv	98
65) tert-Butylbenzene	11.558	119	718948	9.149	ppbv	97
66) Benzyl Chloride	11.642	91	55150	6.614	ppbv	99
67) sec-Butylbenzene	11.795	105	1018861	9.328	ppbv	100
69) p-Isopropyltoluene	11.950	119	863264	9.179	ppbv	99
70) n-Butylbenzene	12.306	91	891883	9.273	ppbv	99
71) 2-Chlorotoluene	10.930	91	590408	8.953	ppbv	99
72) 4-Ethyltoluene	11.150	105	652962	9.230	ppbv	98
73) 1,3,5-Trimethylbenzene	11.231	105	559451	9.055	ppbv	100
74) 1,2,4-Trimethylbenzene	11.565	105	632271	8.883	ppbv	97
75) 1,3-Dichlorobenzene	11.633	146	381882	9.782	ppbv	98
76) 1,4-Dichlorobenzene	11.697	146	383116	9.861	ppbv	98
77) 1,2-Dichlorobenzene	11.973	146	386768	10.175	ppbv	98
78) Hexachloro-1,3-Butadiene	13.905	225	314860	8.138	ppbv	100
79) Naphthalene	13.539	128	777722	9.989	ppbv	99
80) Naphthalene,2-methyl-	14.481	142	375541	9.836	ppbv	98
81) 1,2,4-Trichlorobenzene	13.465	180	343011	9.551	ppbv	99

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

Instrument :
MSVOA_L
ClientSampleId :
VL0415ABS01

- 1
- 2
- 3
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- 5
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- 8
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- 14
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- 16
- 17
- 18

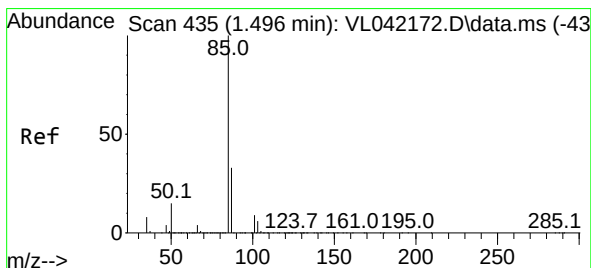
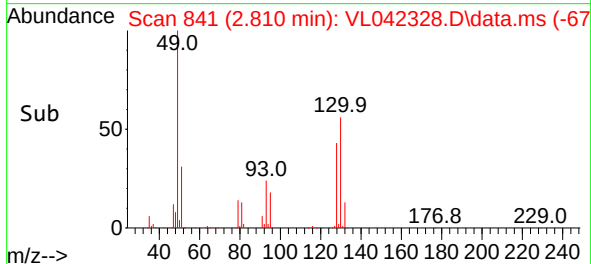
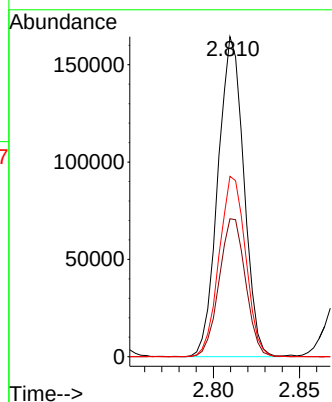
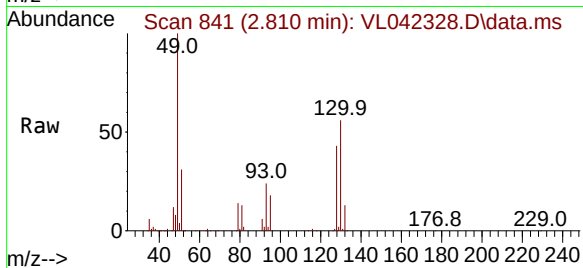




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.810 min Scan# 841
Delta R.T. 0.026 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

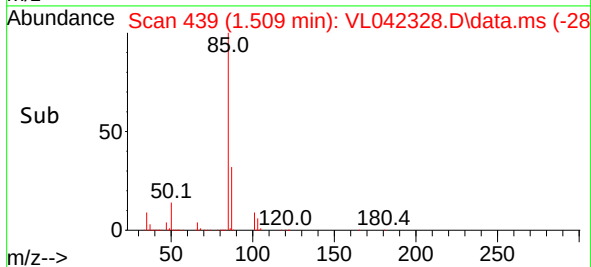
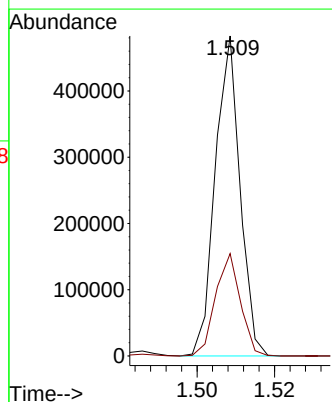
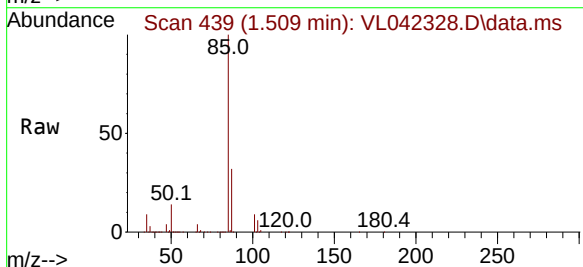
Instrument :
MSVOA_1
ClientSampleId :
VL0415ABS01

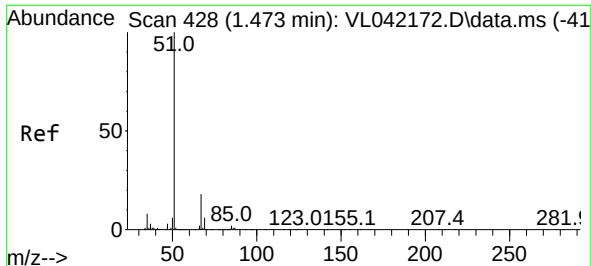
Tgt Ion: 49 Resp: 171986
Ion Ratio Lower Upper
49 100
128 43.9 22.9 68.5
130 57.7 28.8 86.4



#2
Dichlorodifluoromethane
Concen: 8.437 ppbv
RT: 1.509 min Scan# 439
Delta R.T. 0.013 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 85 Resp: 214241
Ion Ratio Lower Upper
85 100
87 32.0 26.1 39.1

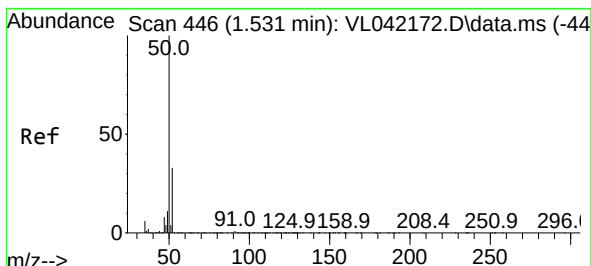
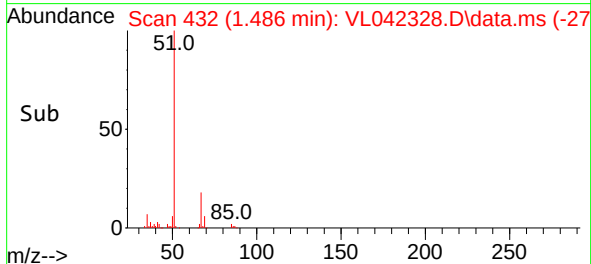
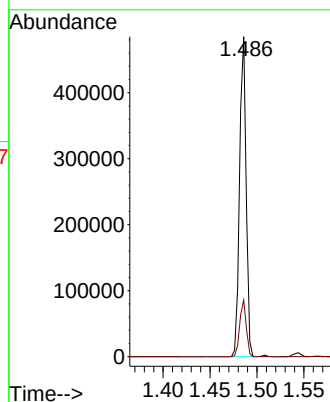
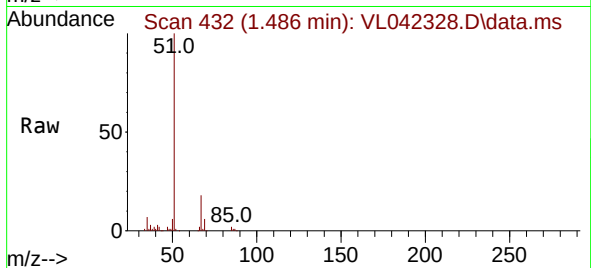




#3
Chlorodifluoromethane
Concen: 9.058 ppbv
RT: 1.486 min Scan# 41
Delta R.T. 0.013 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

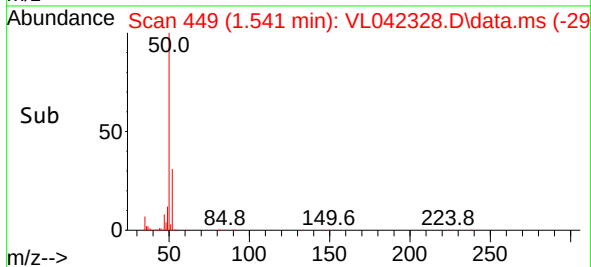
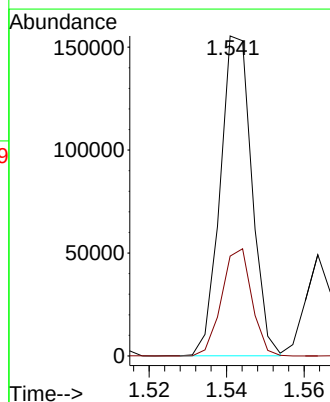
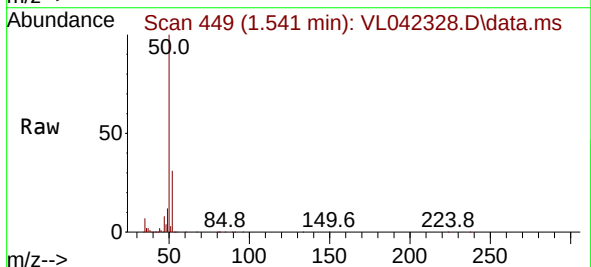
Instrument :
MSVOA_L
ClientSampleId :
VL0415ABS01

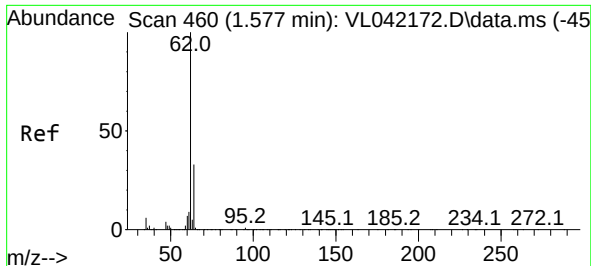
Tgt Ion: 51 Resp: 234966
Ion Ratio Lower Upper
51 100
67 17.6 15.0 22.6



#4
Chloromethane
Concen: 8.502 ppbv
RT: 1.541 min Scan# 449
Delta R.T. 0.010 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 50 Resp: 88230
Ion Ratio Lower Upper
50 100
52 31.2 26.1 39.1

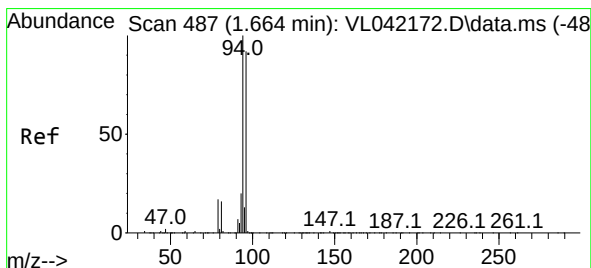
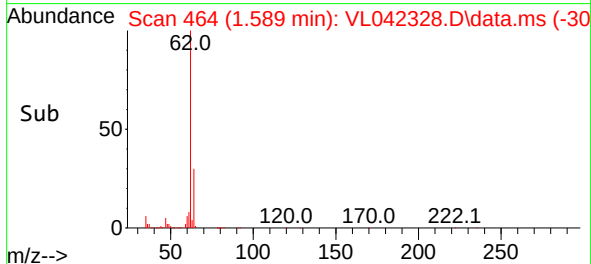
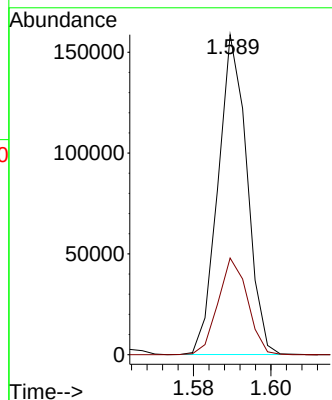
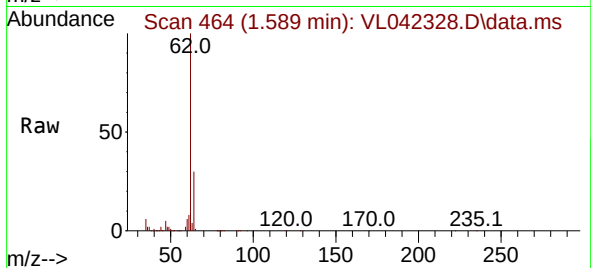




#5
Vinyl Chloride
Concen: 7.476 ppbv
RT: 1.589 min Scan# 41
Delta R.T. 0.013 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

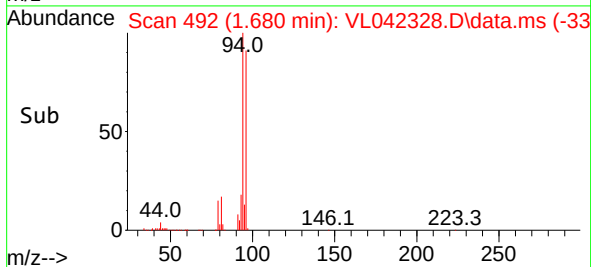
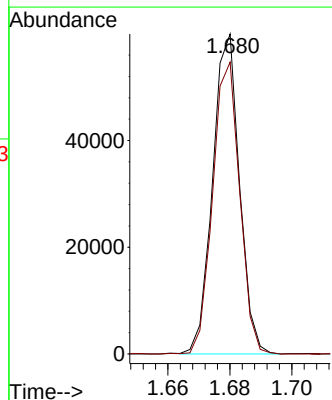
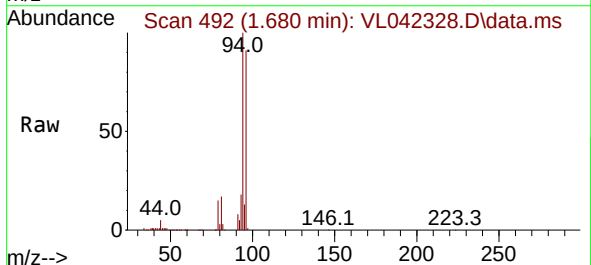
Instrument :
MSVOA_1
ClientSampleId :
VL0415ABS01

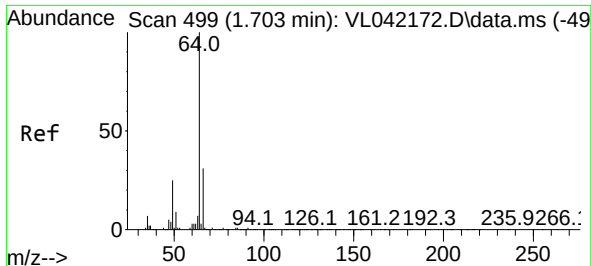
Tgt Ion: 62 Resp: 82221
Ion Ratio Lower Upper
62 100
64 30.2 26.6 40.0



#6
Bromomethane
Concen: 7.665 ppbv
RT: 1.680 min Scan# 492
Delta R.T. 0.016 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 94 Resp: 36050
Ion Ratio Lower Upper
94 100
96 91.2 73.1 109.7

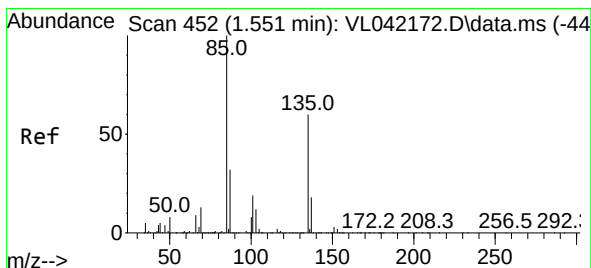
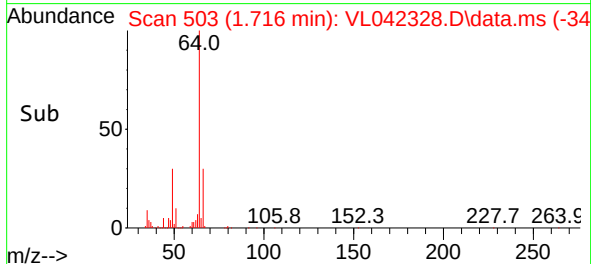
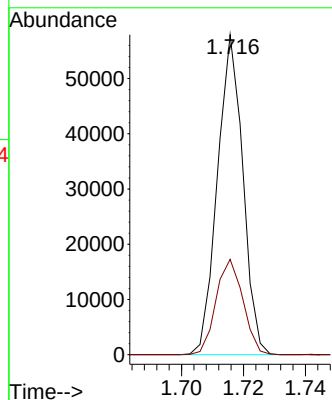
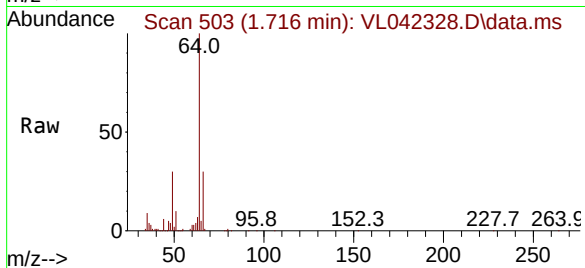




#7
Chloroethane
Concen: 7.931 ppbv
RT: 1.716 min Scan# 503
Delta R.T. 0.013 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

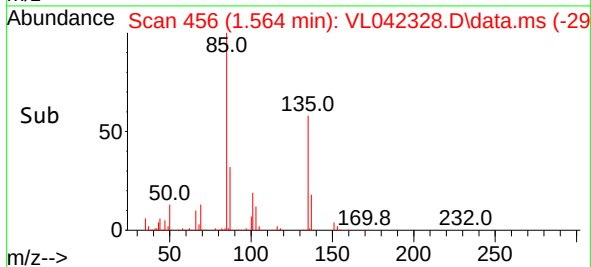
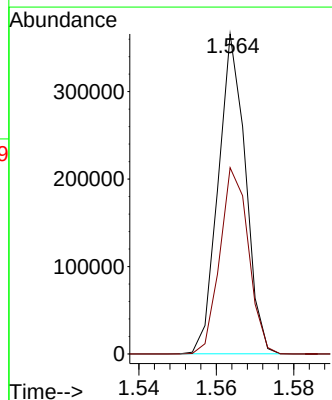
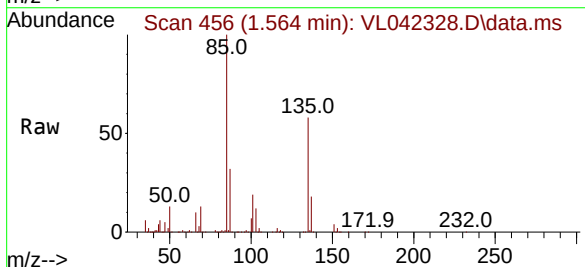
Instrument :
MSVOA_1
ClientSampleId :
VL0415ABS01

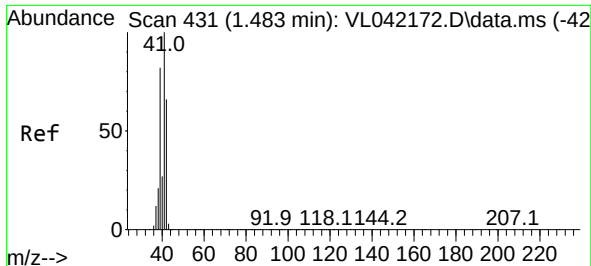
Tgt Ion: 64 Resp: 33039
Ion Ratio Lower Upper
64 100
66 29.8 25.2 37.8



#8
Dichlorotetrafluoroethane
Concen: 8.239 ppbv
RT: 1.564 min Scan# 456
Delta R.T. 0.013 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 85 Resp: 178173
Ion Ratio Lower Upper
85 100
135 61.3 52.4 78.6

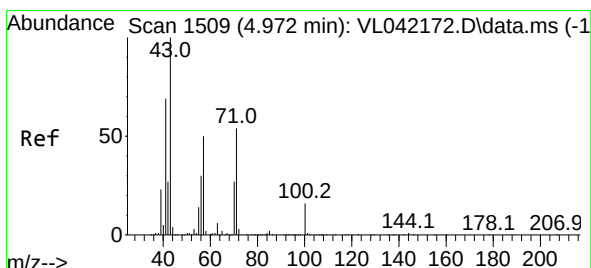
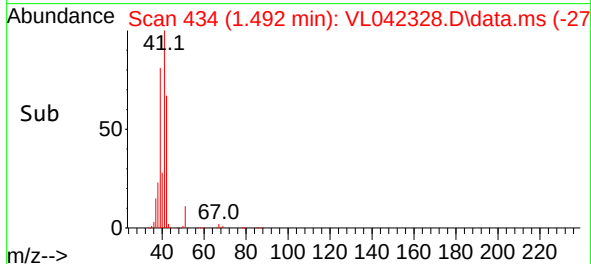
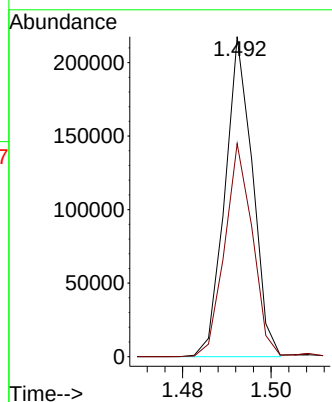
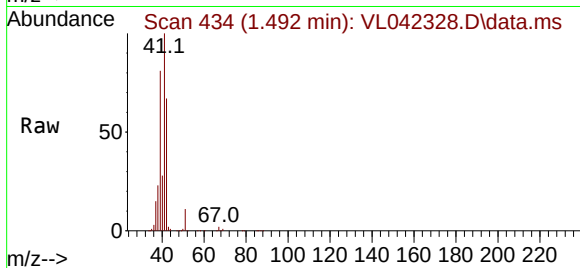




#9
Propene
Concen: 7.917 ppbv
RT: 1.492 min Scan# 41
Delta R.T. 0.010 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

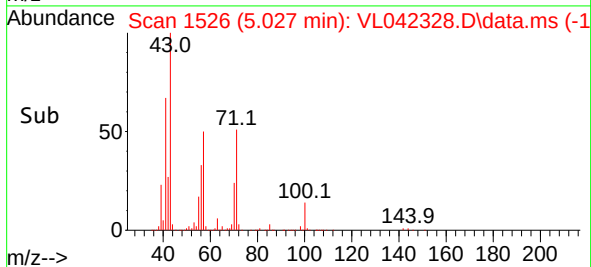
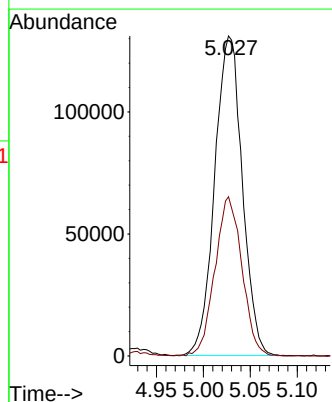
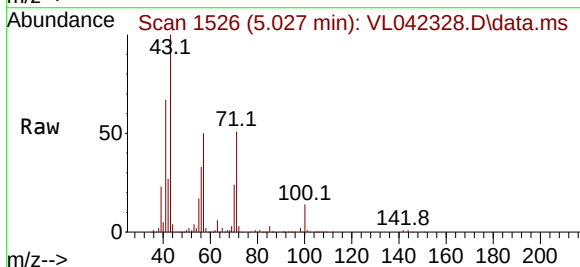
Instrument :
MSVOA_1
ClientSampleId :
VL0415ABS01

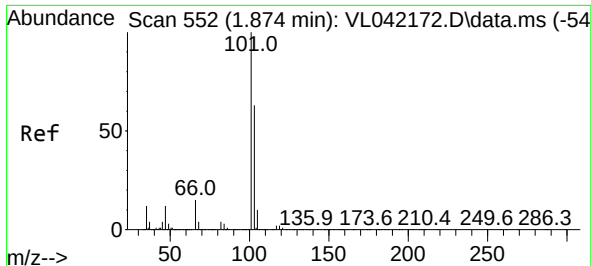
Tgt Ion: 41 Resp: 94136
Ion Ratio Lower Upper
41 100
42 68.2 55.4 83.2



#10
Heptane
Concen: 8.451 ppbv
RT: 5.027 min Scan# 1526
Delta R.T. 0.055 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 43 Resp: 267288
Ion Ratio Lower Upper
43 100
57 48.8 39.4 59.2

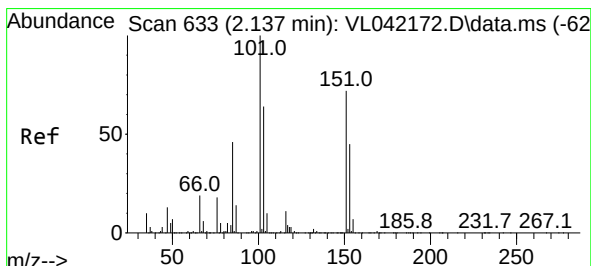
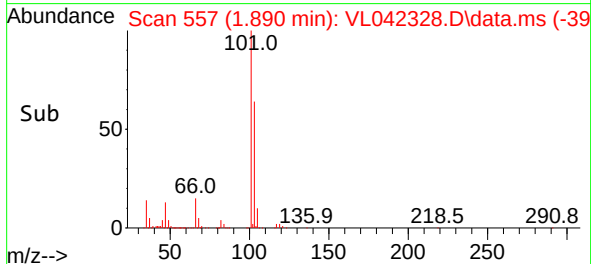
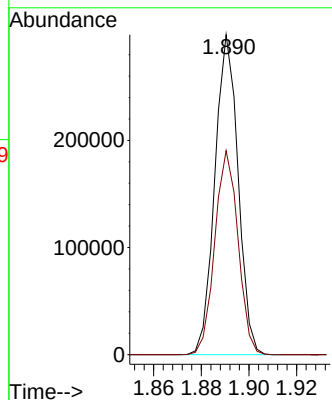
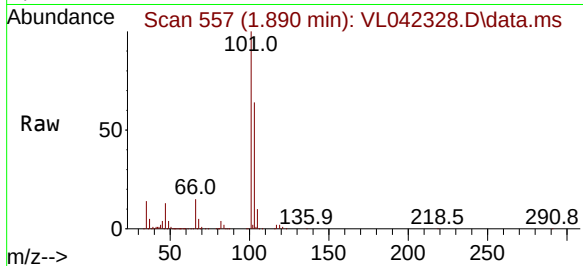




#11
Trichlorofluoromethane
Concen: 8.162 ppbv
RT: 1.890 min Scan# 51
Delta R.T. 0.016 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

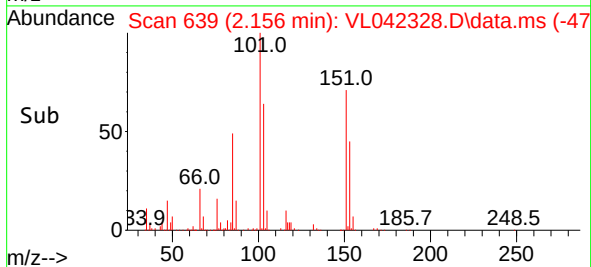
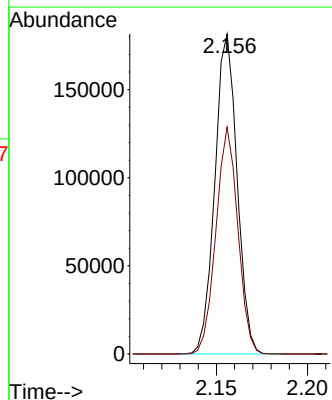
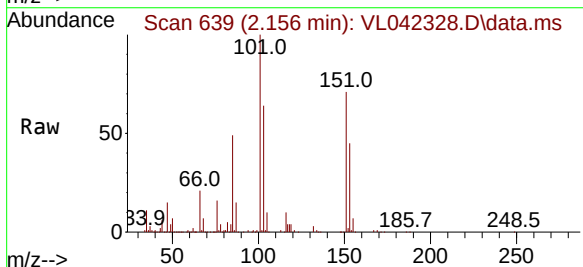
Instrument :
MSVOA_1
ClientSampleId :
VL0415ABS01

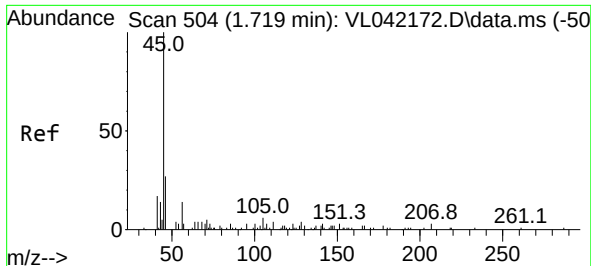
Tgt Ion:101 Resp: 201665
Ion Ratio Lower Upper
101 100
103 63.7 50.2 75.2



#12
1,1,2-Trichlorotrifluoroethane
Concen: 7.598 ppbv
RT: 2.156 min Scan# 639
Delta R.T. 0.019 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion:101 Resp: 154306
Ion Ratio Lower Upper
101 100
151 69.6 57.1 85.7

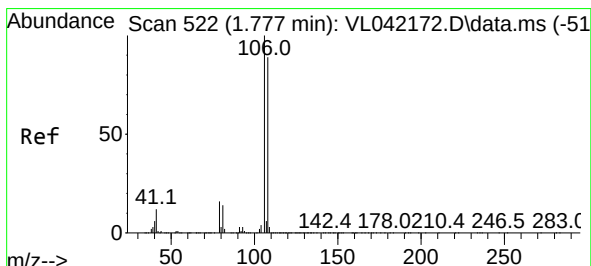
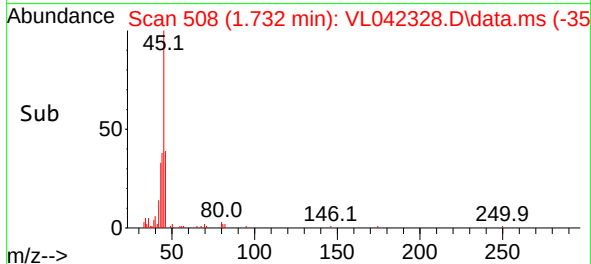
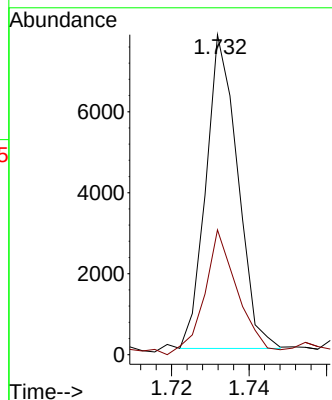
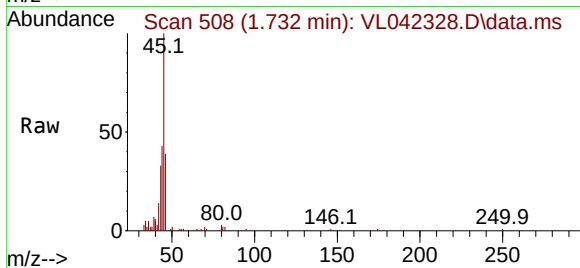




#13
 Ethanol
 Concen: 3.921 ppbv
 RT: 1.732 min Scan# 504
 Delta R.T. 0.013 min
 Lab File: VL042328.D
 Acq: 15 Apr 2025 12:54

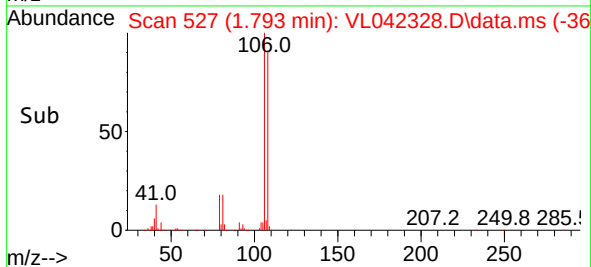
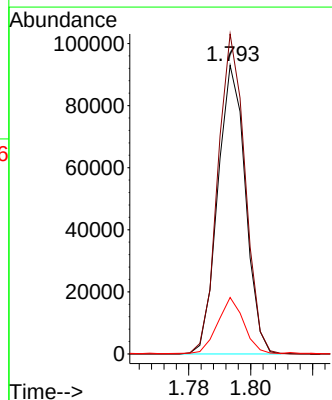
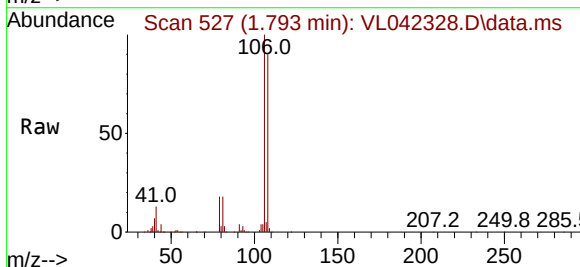
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0415ABS01

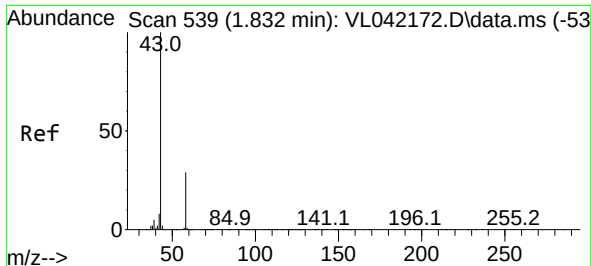
Tgt Ion: 45 Resp: 4407
 Ion Ratio Lower Upper
 45 100
 46 48.1 20.2 80.8



#14
 Bromoethene
 Concen: 7.408 ppbv
 RT: 1.793 min Scan# 527
 Delta R.T. 0.016 min
 Lab File: VL042328.D
 Acq: 15 Apr 2025 12:54

Tgt Ion: 108 Resp: 57635
 Ion Ratio Lower Upper
 108 100
 106 108.9 86.8 130.2
 79 19.8 15.0 22.6

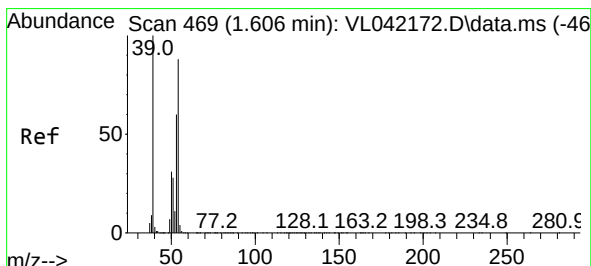
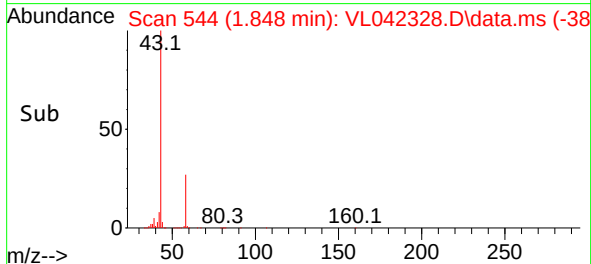
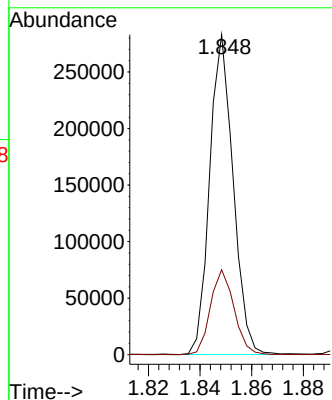
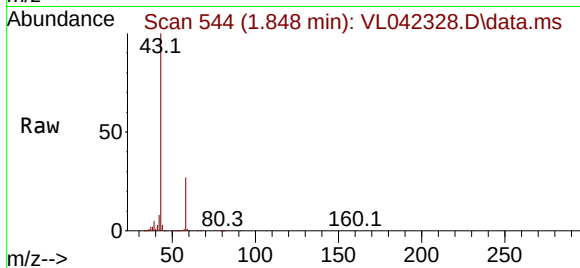




#15
Acetone
Concen: 7.430 ppbv
RT: 1.848 min Scan# 54
Delta R.T. 0.016 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

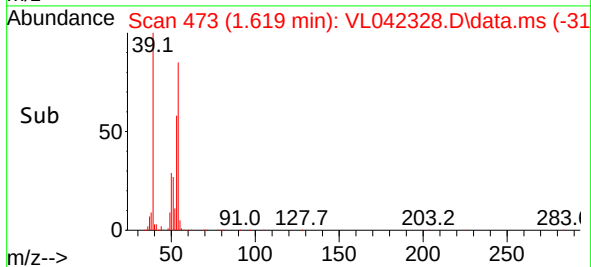
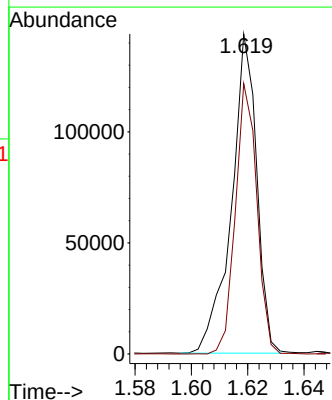
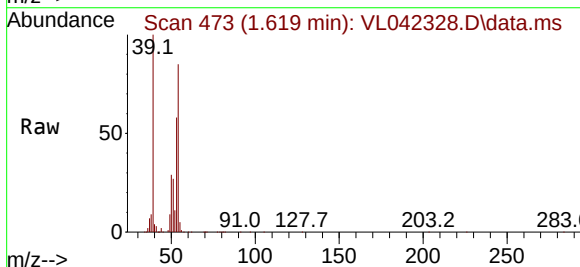
Instrument :
MSVOA_1
ClientSampleId :
VL0415ABS01

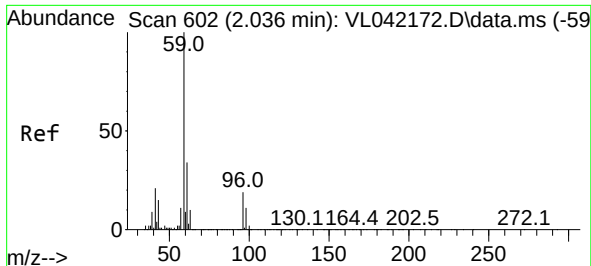
Tgt Ion: 43 Resp: 178724
Ion Ratio Lower Upper
43 100
58 26.8 23.2 34.8



#16
1,3-Butadiene
Concen: 7.617 ppbv
RT: 1.619 min Scan# 473
Delta R.T. 0.013 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 39 Resp: 89479
Ion Ratio Lower Upper
39 100
54 72.1 60.7 91.1





#17

tert-Butyl alcohol

Concen: 6.757 ppbv

RT: 2.055 min Scan# 608

Delta R.T. 0.019 min

Lab File: VL042328.D

Acq: 15 Apr 2025 12:54

Instrument :

MSVOA_L

ClientSampleId :

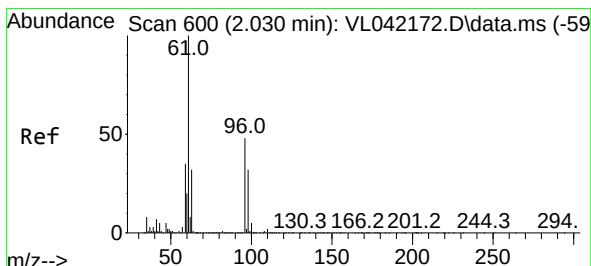
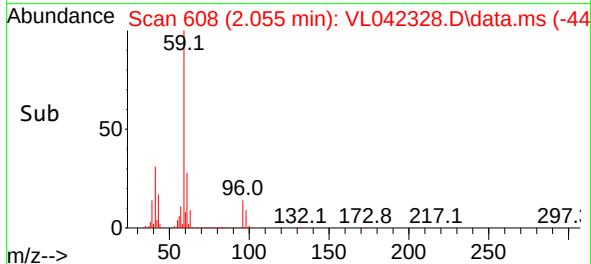
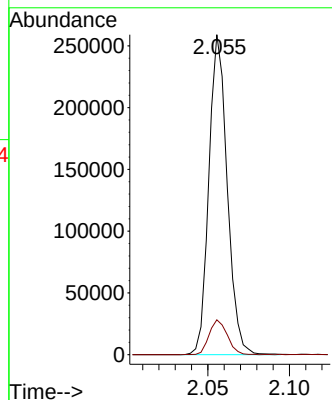
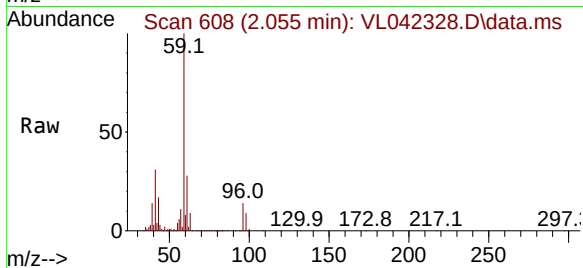
VL0415ABS01

Tgt Ion: 59 Resp: 202421

Ion Ratio Lower Upper

59 100

57 10.8 8.9 13.3



#18

1,1-Dichloroethene

Concen: 7.269 ppbv

RT: 2.049 min Scan# 606

Delta R.T. 0.019 min

Lab File: VL042328.D

Acq: 15 Apr 2025 12:54

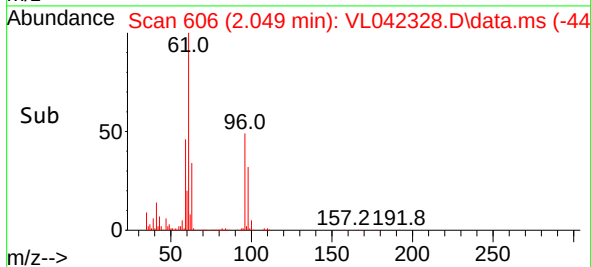
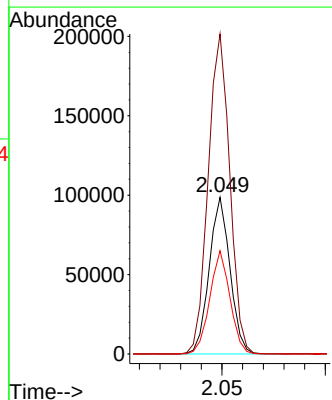
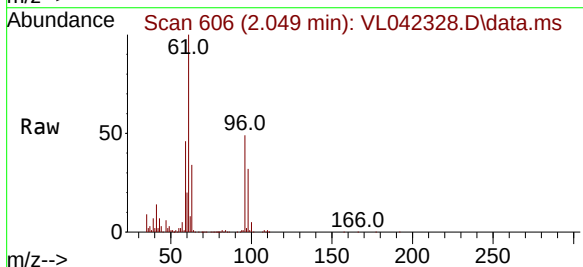
Tgt Ion: 96 Resp: 69013

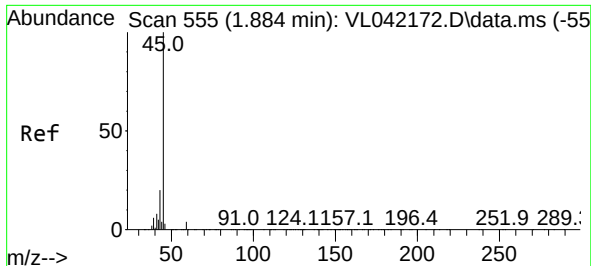
Ion Ratio Lower Upper

96 100

61 204.2 167.6 251.4

98 65.9 53.5 80.3

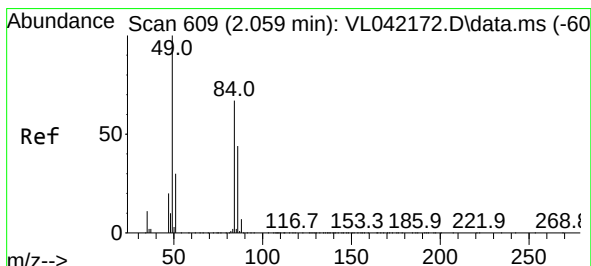
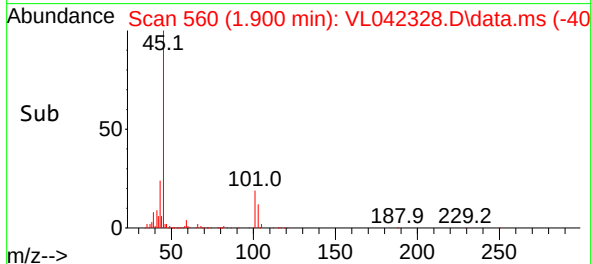
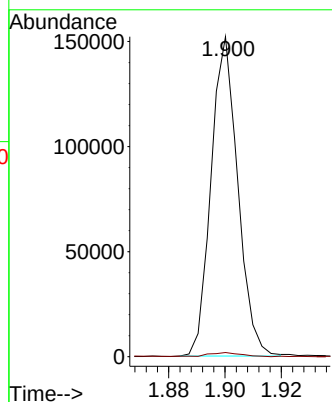
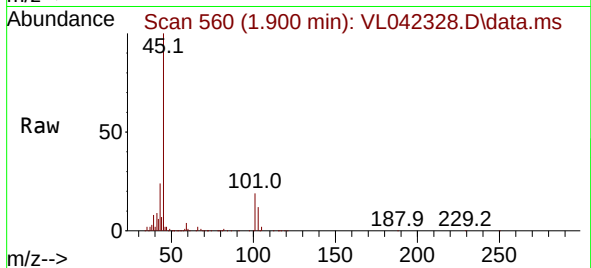




#19
Isopropyl Alcohol
Concen: 7.390 ppbv
RT: 1.900 min Scan# 501
Delta R.T. 0.016 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

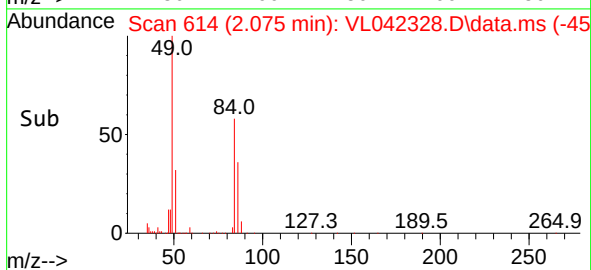
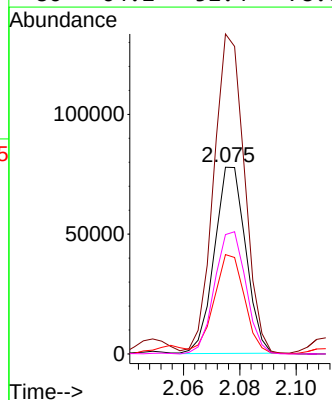
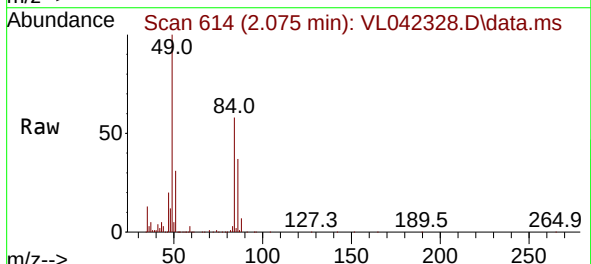
Instrument :
MSVOA_1
ClientSampleId :
VL0415ABS01

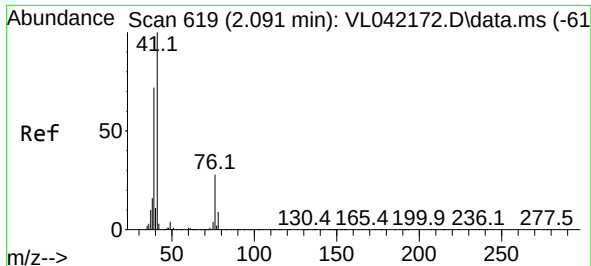
Tgt Ion: 45 Resp: 100289
Ion Ratio Lower Upper
45 100
58 47.9 36.9 55.3



#20
Methylene Chloride
Concen: 6.704 ppbv
RT: 2.075 min Scan# 614
Delta R.T. 0.016 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 84 Resp: 60054
Ion Ratio Lower Upper
84 100
49 171.6 120.2 180.4
51 53.0 37.4 56.0
86 64.2 52.4 78.6





#21

Allyl Chloride

Concen: 7.534 ppbv

RT: 2.111 min Scan# 61

Delta R.T. 0.019 min

Lab File: VL042328.D

Acq: 15 Apr 2025 12:54

Instrument :

MSVOA_L

ClientSampleId :

VL0415ABS01

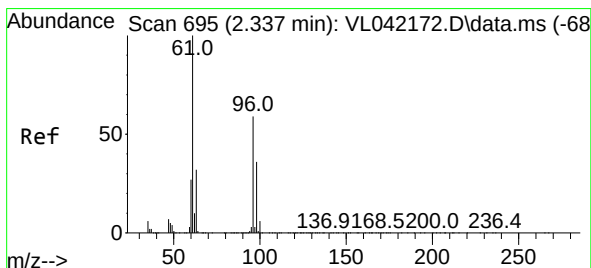
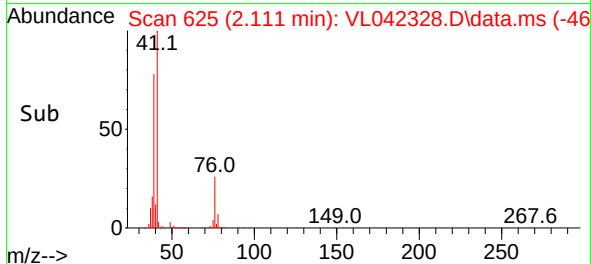
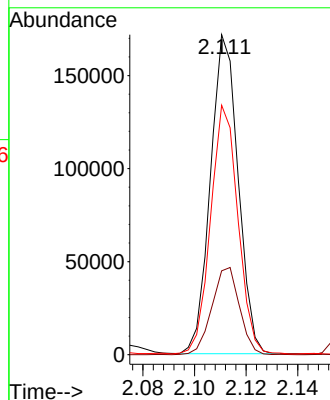
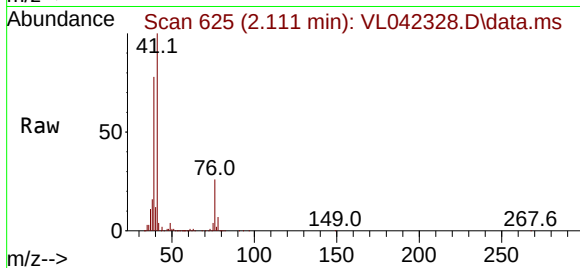
Tgt Ion: 41 Resp: 127800

Ion Ratio Lower Upper

41 100

76 27.3 24.1 36.1

39 76.8 61.1 91.7



#22

trans-1,2-Dichloroethene

Concen: 7.198 ppbv

RT: 2.360 min Scan# 702

Delta R.T. 0.022 min

Lab File: VL042328.D

Acq: 15 Apr 2025 12:54

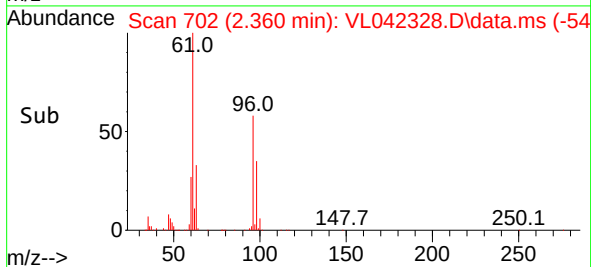
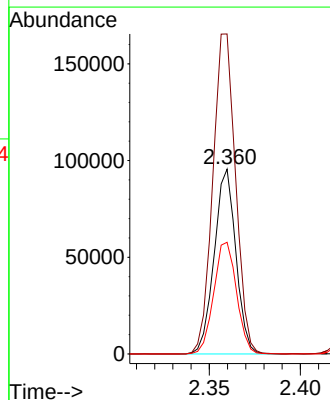
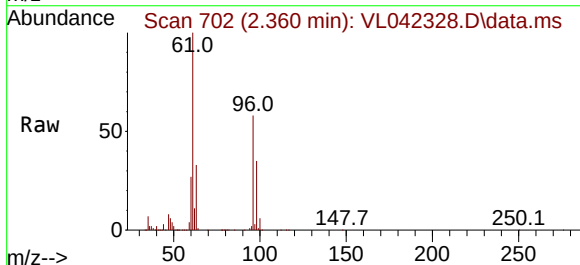
Tgt Ion: 96 Resp: 78991

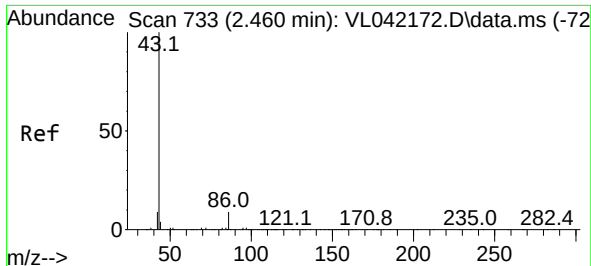
Ion Ratio Lower Upper

96 100

61 173.2 136.6 204.8

98 60.4 49.4 74.2



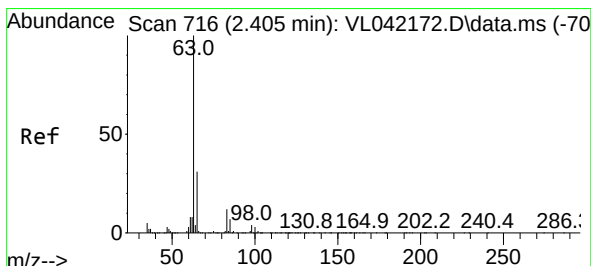
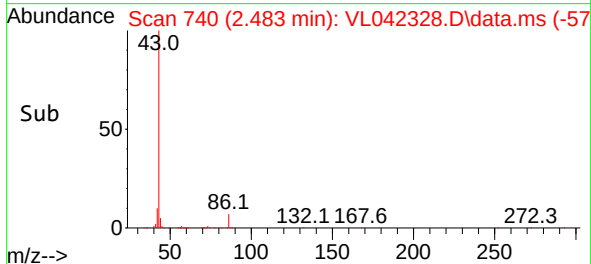
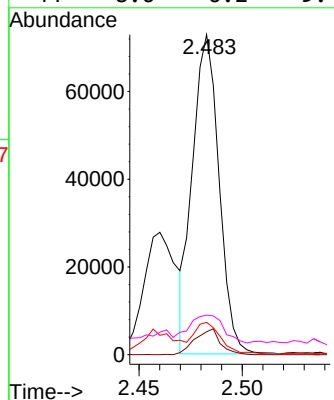
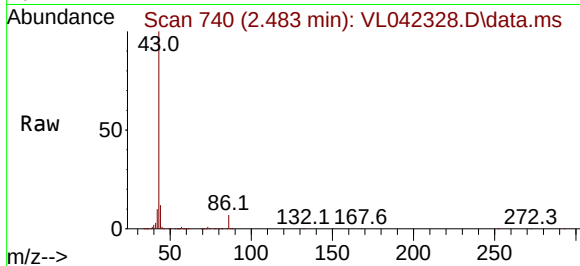


#23
Vinyl Acetate
Concen: 6.222 ppbv
RT: 2.483 min Scan# 741
Delta R.T. 0.022 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Instrument :
MSVOA_1
ClientSampleId :
VL0415ABS01

Tgt Ion: 43 Resp: 64777

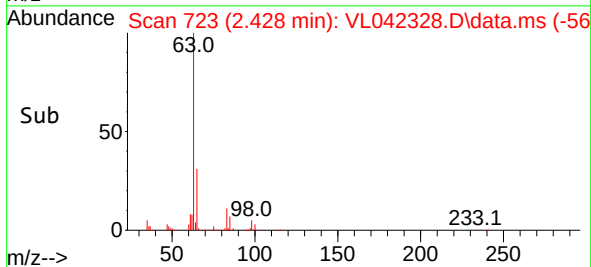
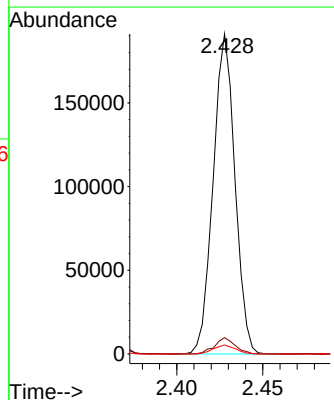
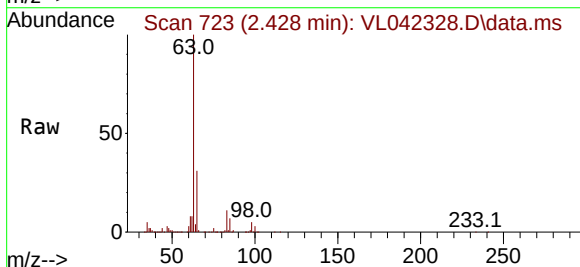
Ion	Ratio	Lower	Upper
43	100		
86	7.2	5.5	8.3
42	9.9	8.6	13.0
44	8.6	6.2	9.4

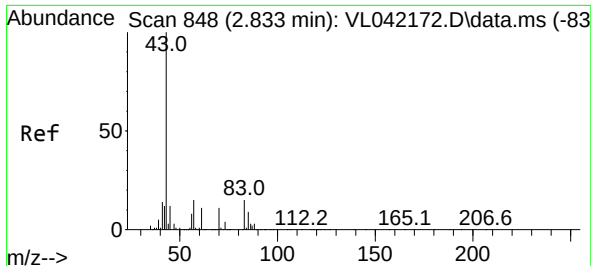


#24
1,1-Dichloroethane
Concen: 8.277 ppbv
RT: 2.428 min Scan# 723
Delta R.T. 0.022 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 63 Resp: 168373

Ion	Ratio	Lower	Upper
63	100		
98	5.1	2.3	6.8
100	2.8	1.6	4.7





#25

Ethyl Acetate

Concen: 8.732 ppbv

RT: 2.861 min Scan# 8

Delta R.T. 0.029 min

Lab File: VL042328.D

Acq: 15 Apr 2025 12:54

Instrument :

MSVOA_L

ClientSampleId :

VL0415ABS01

Tgt Ion: 43 Resp: 545140

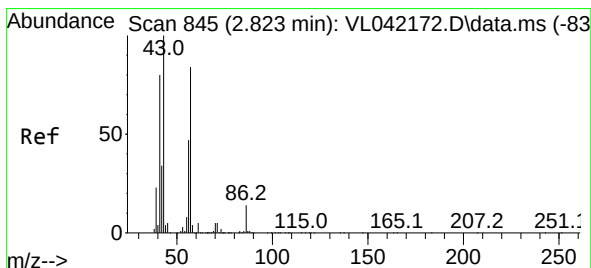
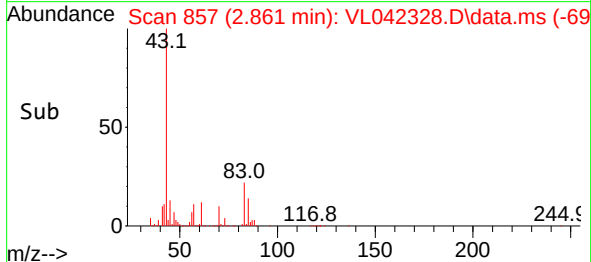
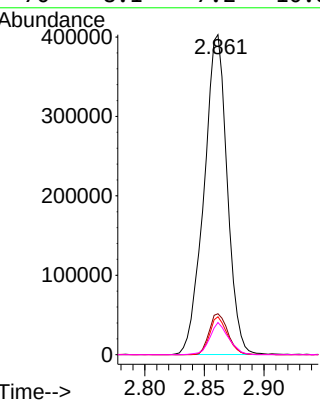
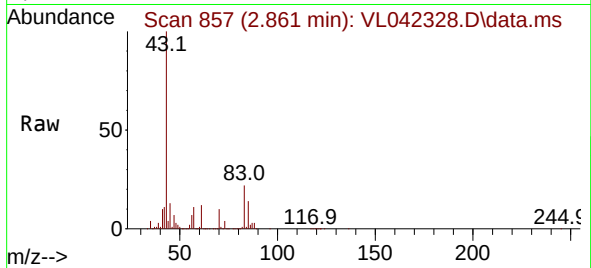
Ion Ratio Lower Upper

43 100

45 10.5 8.2 12.2

61 9.1 7.3 10.9

70 8.1 7.2 10.8



#26

Hexane

Concen: 8.528 ppbv

RT: 2.848 min Scan# 853

Delta R.T. 0.026 min

Lab File: VL042328.D

Acq: 15 Apr 2025 12:54

Tgt Ion: 57 Resp: 205629

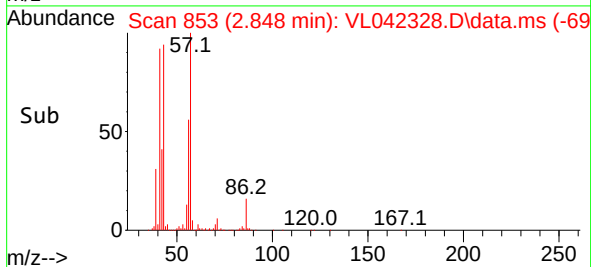
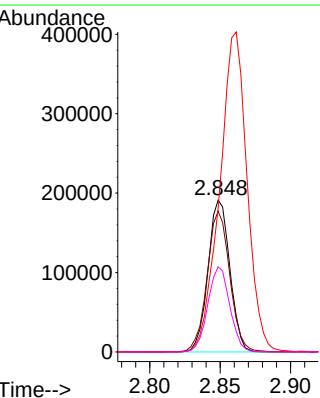
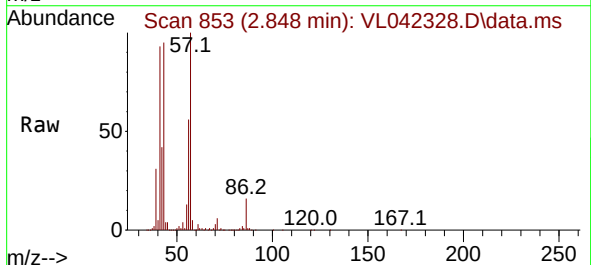
Ion Ratio Lower Upper

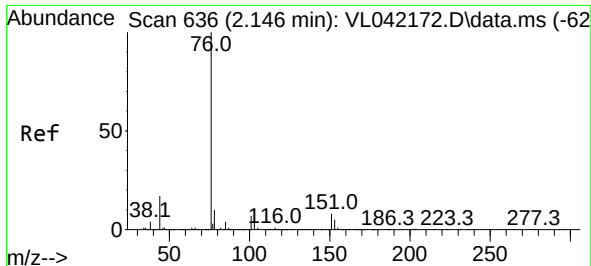
57 100

41 97.2 76.6 114.8

43 265.7 207.8 311.8

56 56.6 43.6 65.4

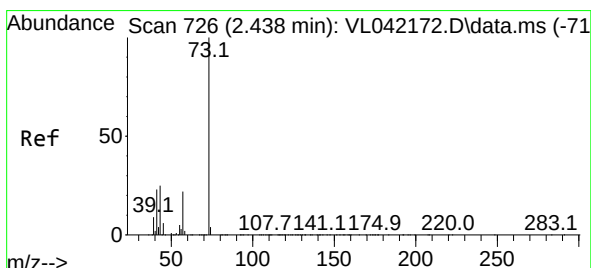
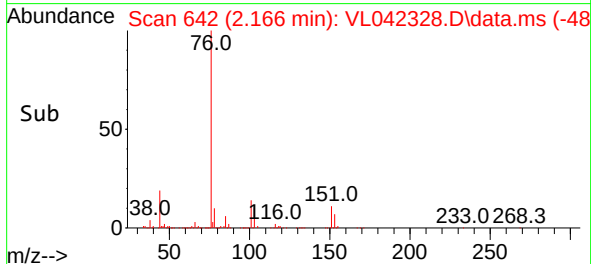
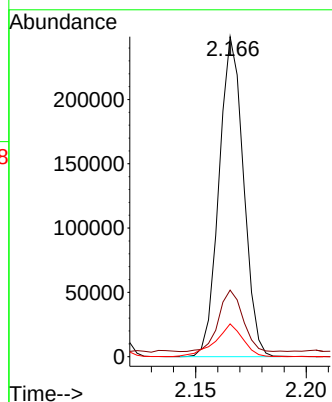
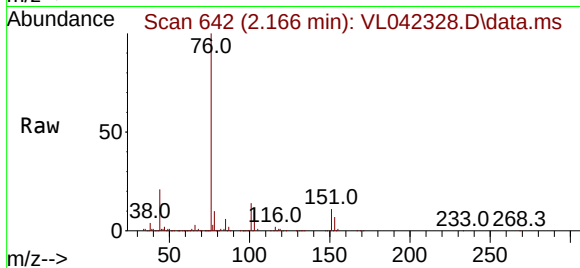




#27
Carbon Disulfide
Concen: 7.402 ppbv
RT: 2.166 min Scan# 642
Delta R.T. 0.019 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

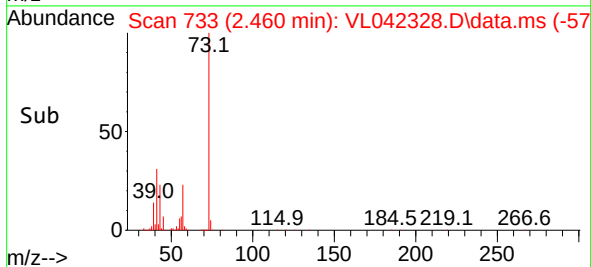
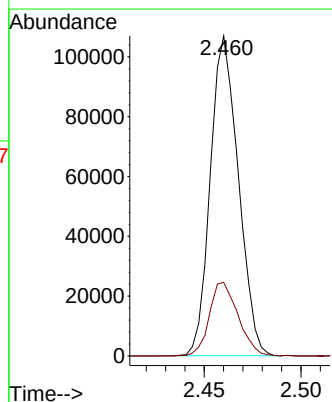
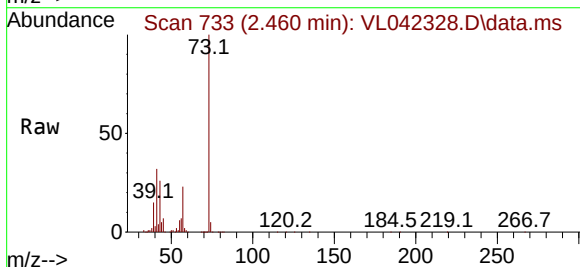
Instrument :
MSVOA_1
ClientSampleId :
VL0415ABS01

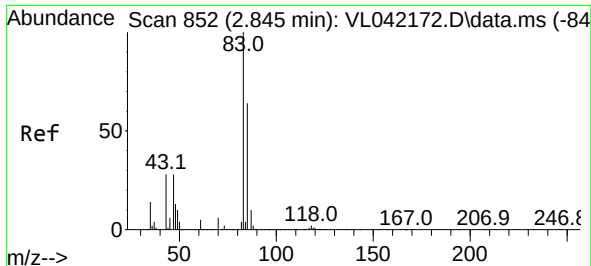
Tgt Ion: 76 Resp: 191388
Ion Ratio Lower Upper
76 100
44 19.3 14.7 22.1
78 11.6 9.3 13.9



#28
Methyl tert-Butyl Ether
Concen: 7.172 ppbv
RT: 2.460 min Scan# 733
Delta R.T. 0.022 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 73 Resp: 107667
Ion Ratio Lower Upper
73 100
57 23.7 20.5 30.7





#29

Chloroform

Concen: 8.763 ppbv

RT: 2.874 min Scan# 80

Delta R.T. 0.029 min

Lab File: VL042328.D

Acq: 15 Apr 2025 12:54

Instrument :

MSVOA_L

ClientSampleId :

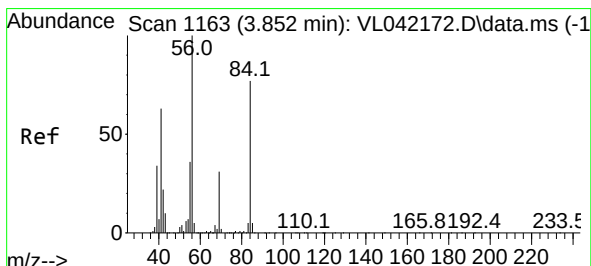
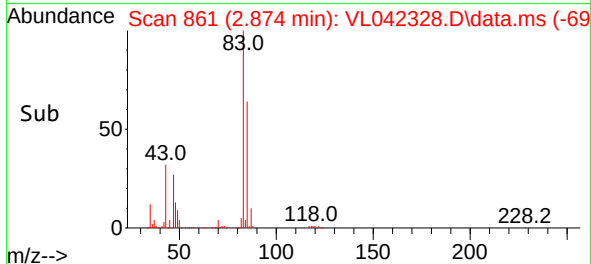
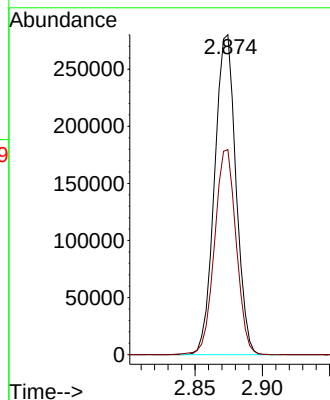
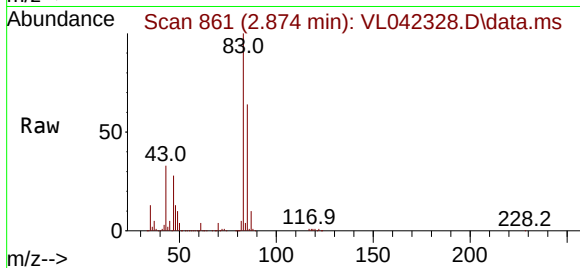
VL0415ABS01

Tgt Ion: 83 Resp: 309262

Ion Ratio Lower Upper

83 100

85 64.1 51.4 77.2



#30

Cyclohexane

Concen: 7.924 ppbv

RT: 3.891 min Scan# 1175

Delta R.T. 0.039 min

Lab File: VL042328.D

Acq: 15 Apr 2025 12:54

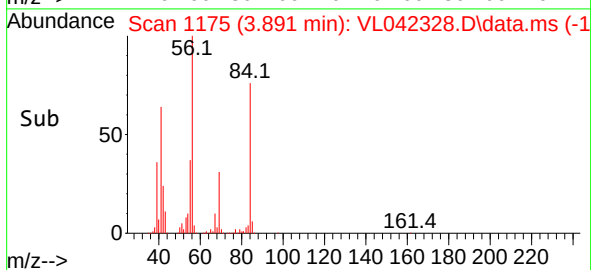
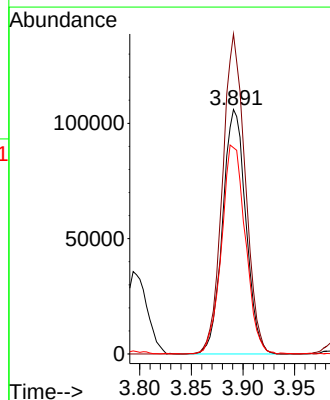
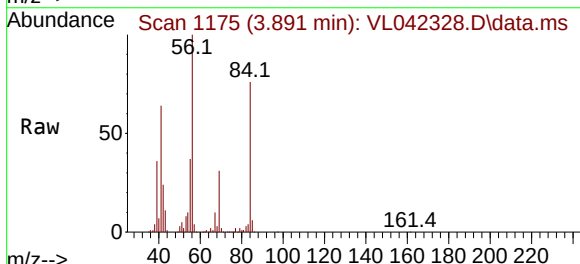
Tgt Ion: 84 Resp: 165914

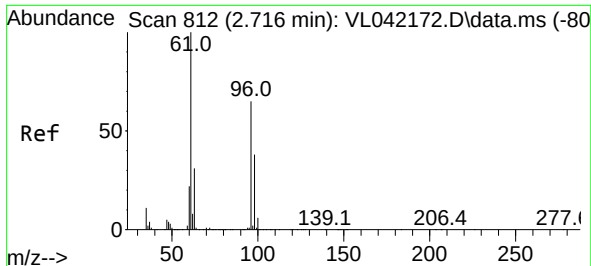
Ion Ratio Lower Upper

84 100

56 127.7 102.8 154.2

41 87.6 66.5 99.7

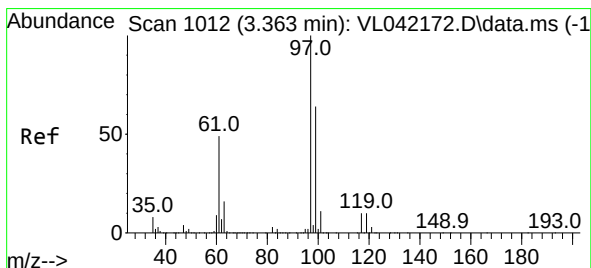
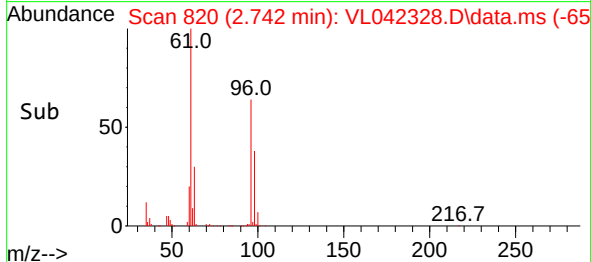
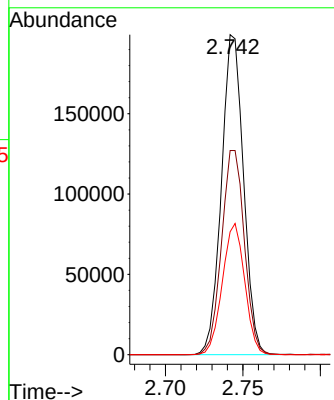
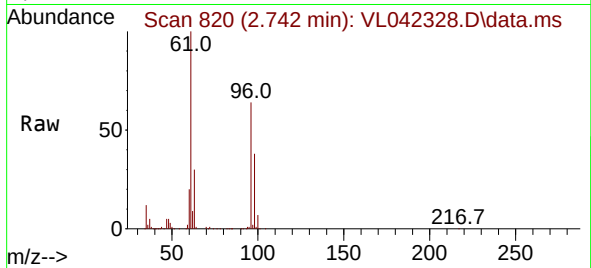




#31
cis-1,2-Dichloroethene
Concen: 8.074 ppbv
RT: 2.742 min Scan# 812
Delta R.T. 0.026 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

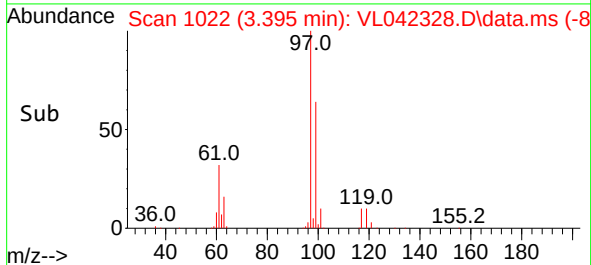
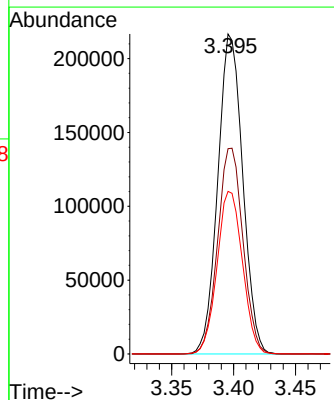
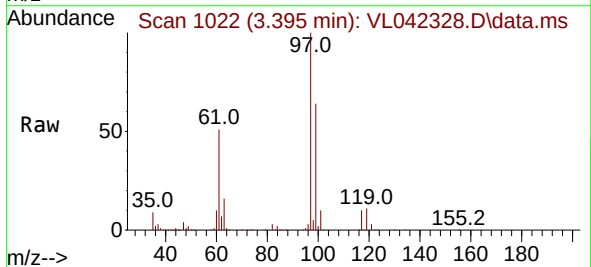
Instrument :
MSVOA_1
ClientSampleId :
VL0415ABS01

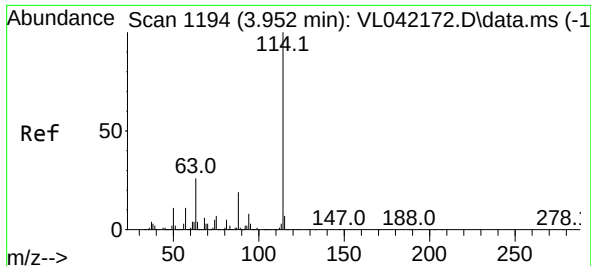
Tgt Ion: 61 Resp: 197651
Ion Ratio Lower Upper
61 100
96 63.8 51.8 77.8
98 38.4 30.6 46.0



#32
1,1,1-Trichloroethane
Concen: 7.528 ppbv
RT: 3.395 min Scan# 1022
Delta R.T. 0.032 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 97 Resp: 304143
Ion Ratio Lower Upper
97 100
99 65.2 51.5 77.3
61 51.8 38.7 58.1

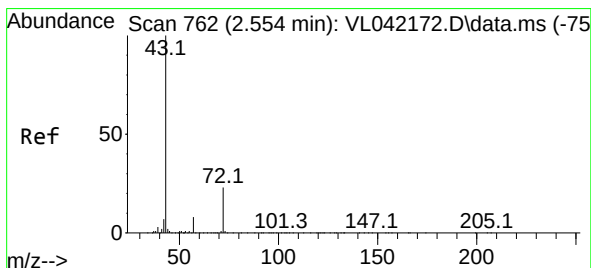
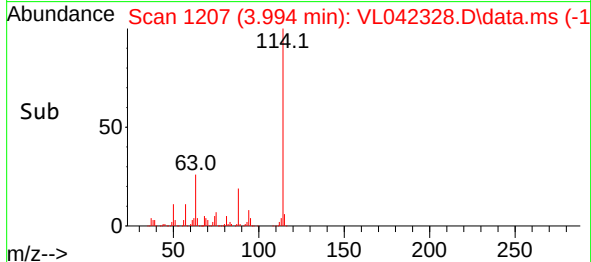
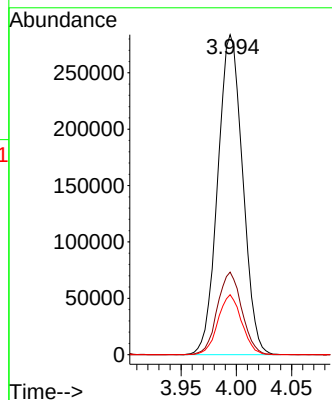
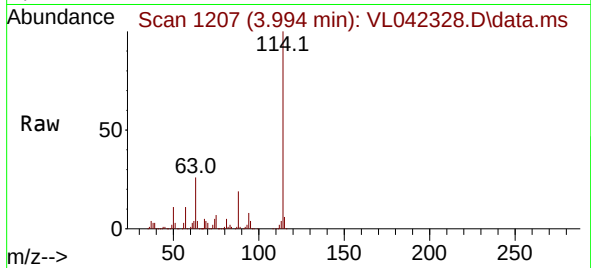




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.994 min Scan# 1194
Delta R.T. 0.042 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

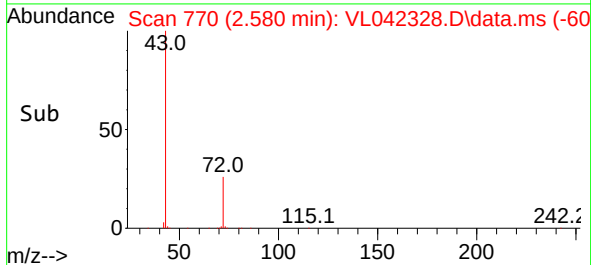
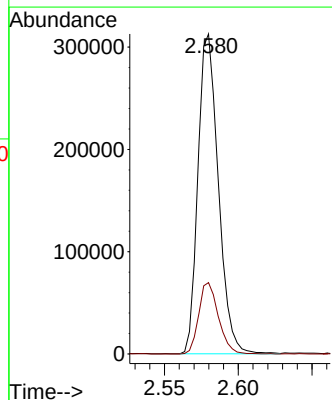
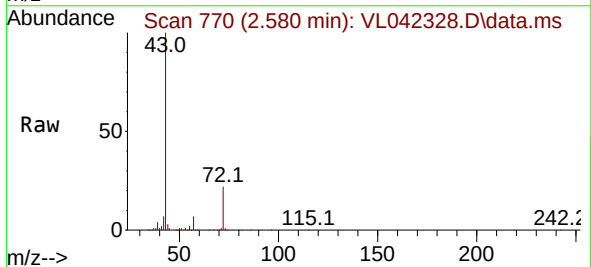
Instrument :
MSVOA_1
ClientSampleId :
VL0415ABS01

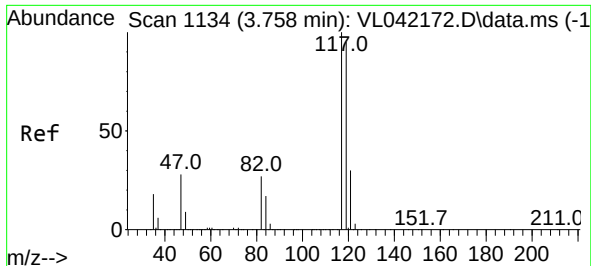
Tgt Ion:114 Resp: 444595
Ion Ratio Lower Upper
114 100
63 25.4 20.7 31.1
88 17.8 15.0 22.4



#34
2-Butanone
Concen: 9.323 ppbv
RT: 2.580 min Scan# 770
Delta R.T. 0.026 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 43 Resp: 300576
Ion Ratio Lower Upper
43 100
72 21.6 18.2 27.2

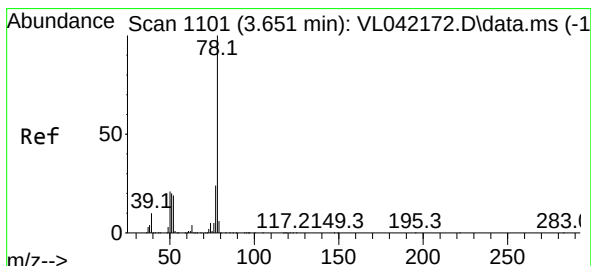
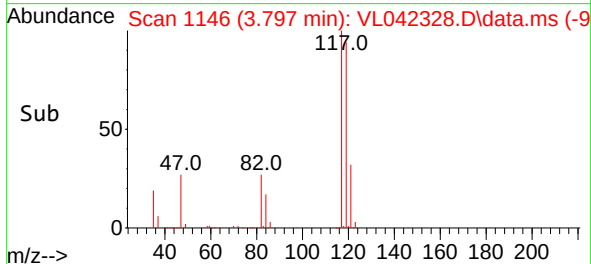
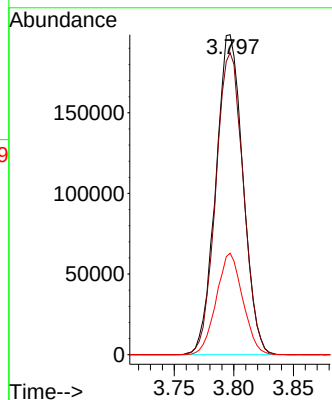
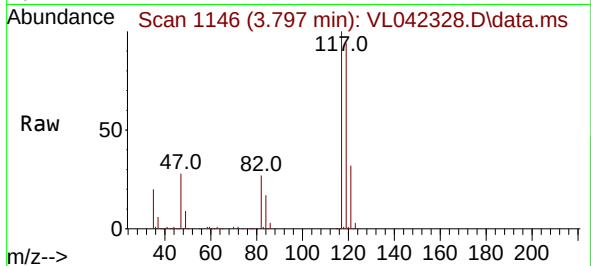




#35
Carbon Tetrachloride
Concen: 9.065 ppbv
RT: 3.797 min Scan# 1113
Delta R.T. 0.039 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

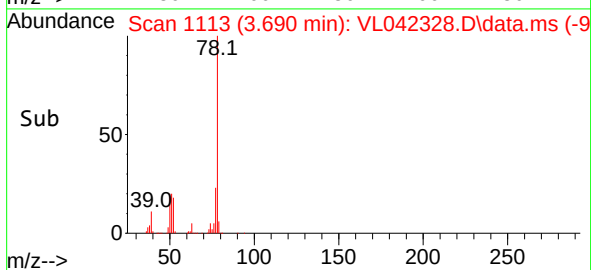
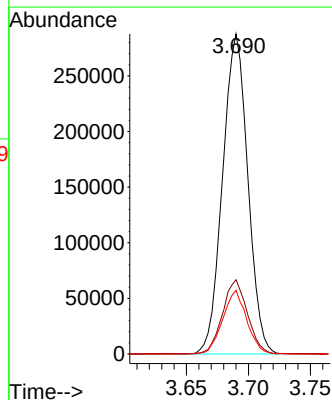
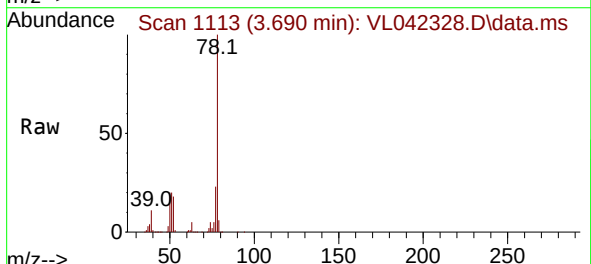
Instrument :
MSVOA_L
ClientSampleId :
VL0415ABS01

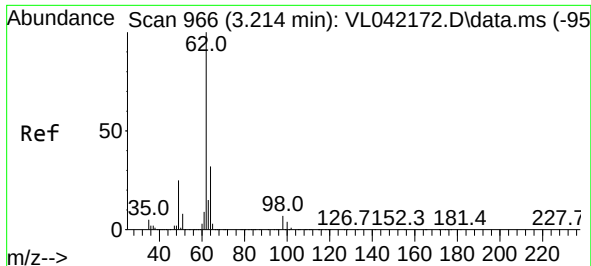
Tgt Ion:117 Resp: 314849
Ion Ratio Lower Upper
117 100
119 94.3 76.2 114.2
121 31.7 24.2 36.4



#36
Benzene
Concen: 9.256 ppbv
RT: 3.690 min Scan# 1113
Delta R.T. 0.039 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 78 Resp: 407959
Ion Ratio Lower Upper
78 100
77 23.1 19.1 28.7
50 19.9 16.6 24.8

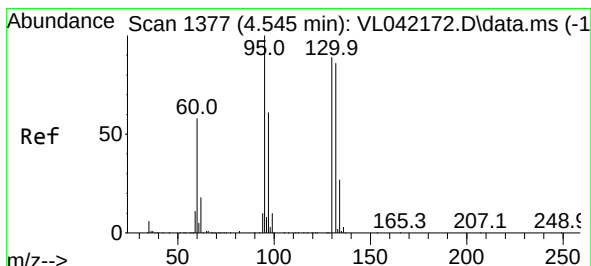
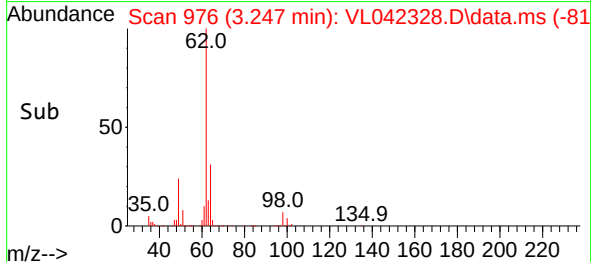
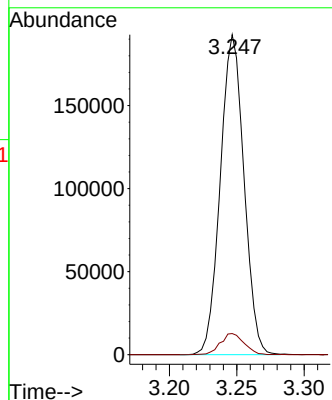
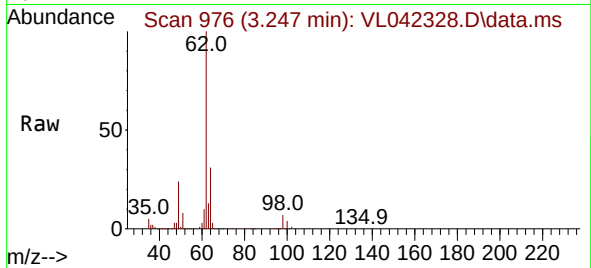




#37
1,2-Dichloroethane
Concen: 9.337 ppbv
RT: 3.247 min Scan# 91
Delta R.T. 0.032 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

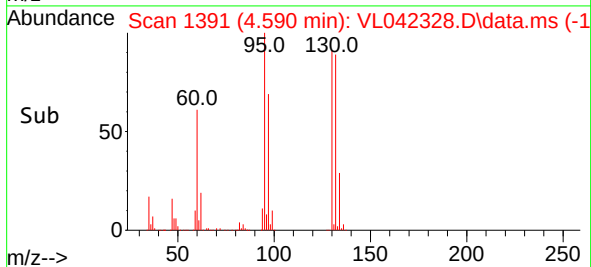
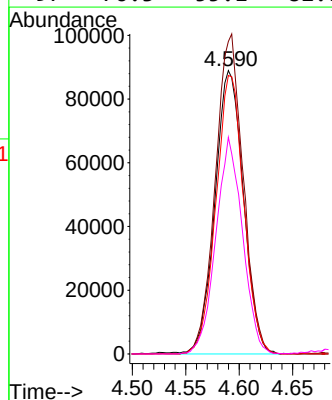
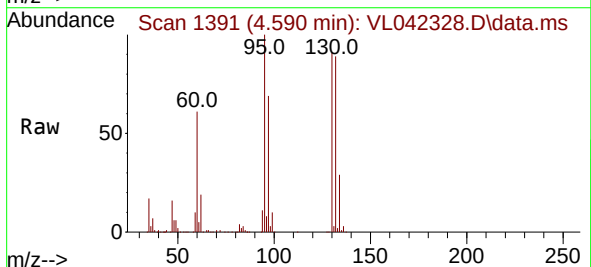
Instrument :
MSVOA_L
ClientSampleId :
VL0415ABS01

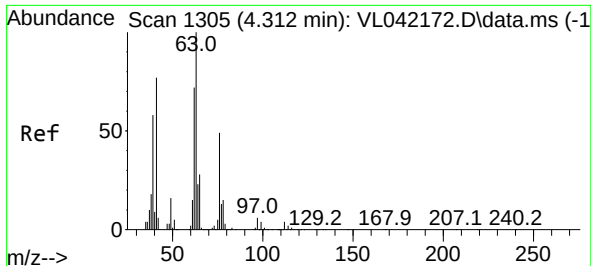
Tgt Ion: 62 Resp: 235609
Ion Ratio Lower Upper
62 100
98 6.6 5.4 8.2



#38
Trichloroethene
Concen: 8.954 ppbv
RT: 4.590 min Scan# 1391
Delta R.T. 0.045 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 130 Resp: 164664
Ion Ratio Lower Upper
130 100
95 110.3 89.8 134.8
132 98.2 77.4 116.2
97 76.3 55.1 82.7

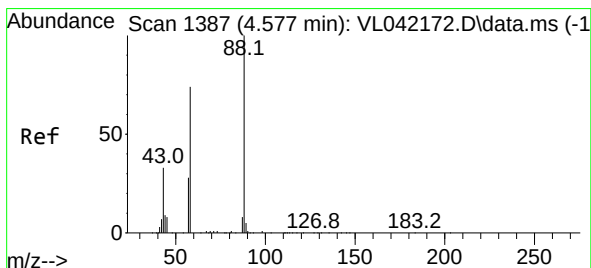
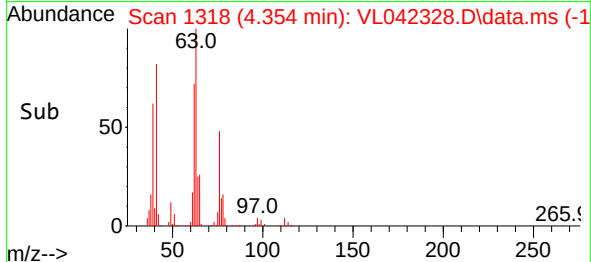
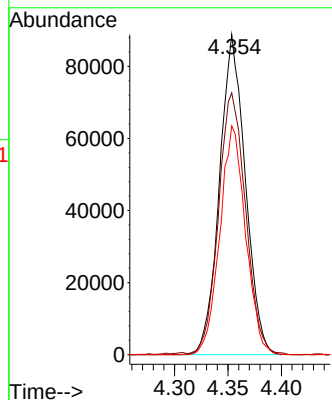
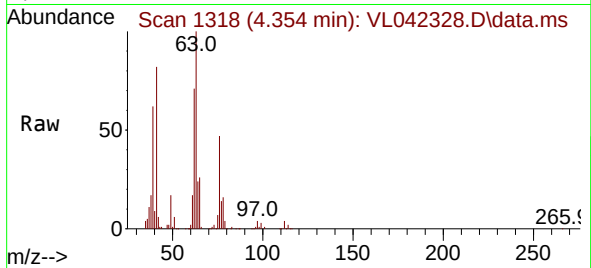




#39
1,2-Dichloropropane
Concen: 9.299 ppbv
RT: 4.354 min Scan# 11
Delta R.T. 0.042 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

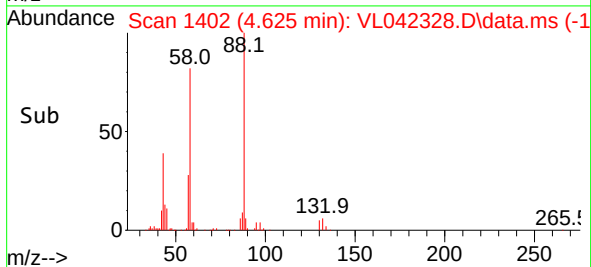
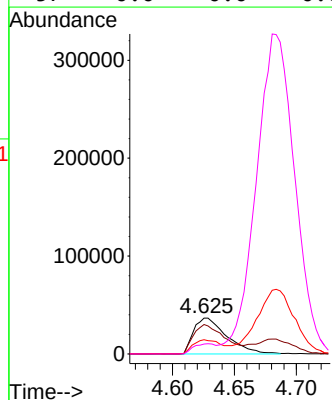
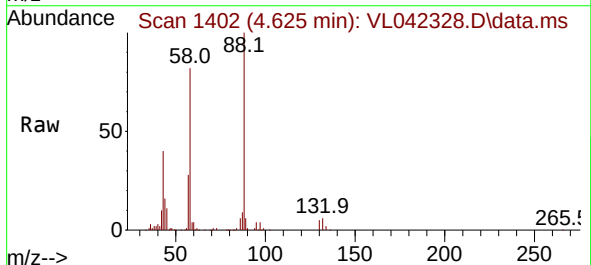
Instrument :
MSVOA_L
ClientSampleId :
VL0415ABS01

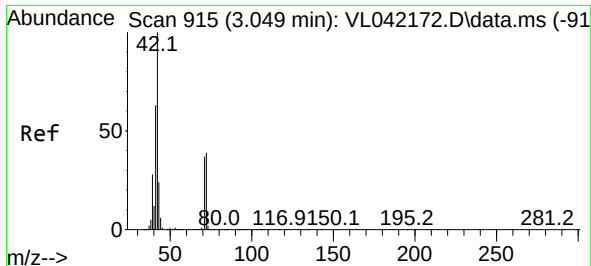
Tgt Ion: 63 Resp: 149260
Ion Ratio Lower Upper
63 100
41 81.2 61.7 92.5
62 71.5 57.6 86.4



#40
1,4-Dioxane
Concen: 8.072 ppbv
RT: 4.625 min Scan# 1402
Delta R.T. 0.048 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 88 Resp: 68773
Ion Ratio Lower Upper
88 100
58 75.9 62.7 94.1
43 34.0 23.0 34.4
57 0.0 0.0 0.0

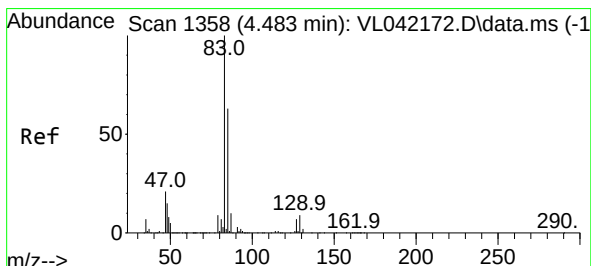
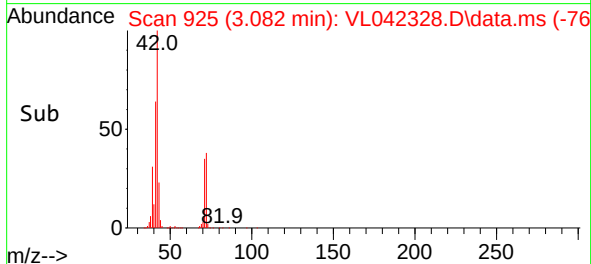
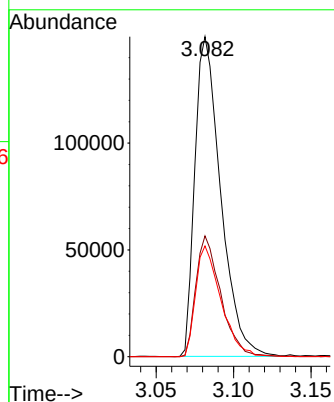
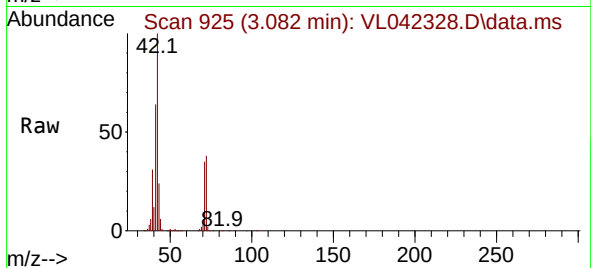




#41
Tetrahydrofuran
Concen: 9.361 ppbv
RT: 3.082 min Scan# 915
Delta R.T. 0.032 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

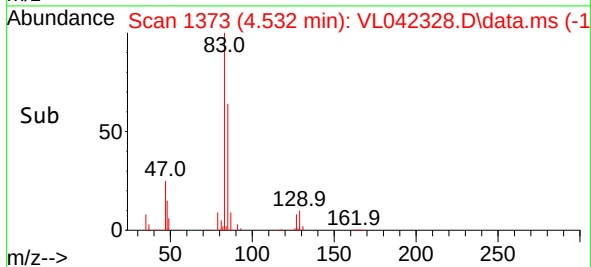
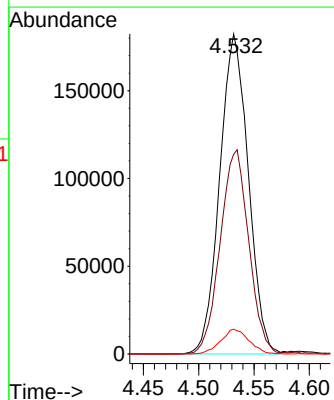
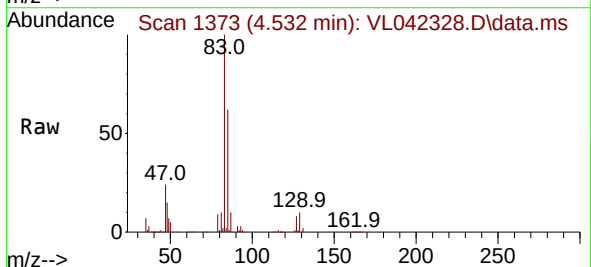
Instrument :
MSVOA_L
ClientSampleId :
VL0415ABS01

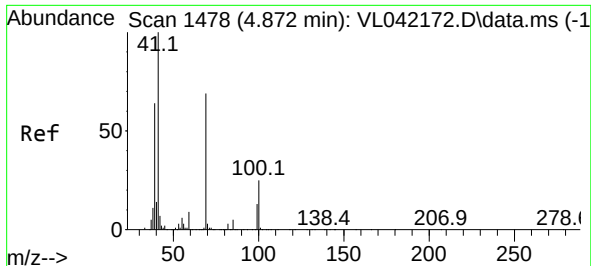
Tgt Ion: 42 Resp: 173776
Ion Ratio Lower Upper
42 100
72 36.4 31.4 47.0
71 33.9 30.2 45.4



#42
Bromodichloromethane
Concen: 9.414 ppbv
RT: 4.532 min Scan# 1373
Delta R.T. 0.048 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 83 Resp: 327497
Ion Ratio Lower Upper
83 100
85 62.4 50.5 75.7
127 7.7 5.9 8.9

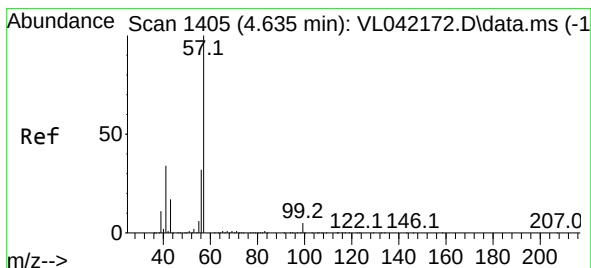
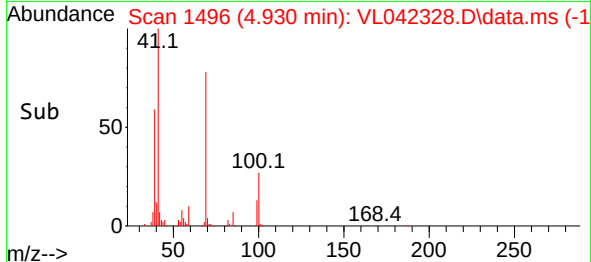
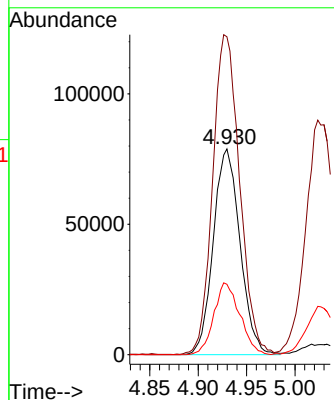
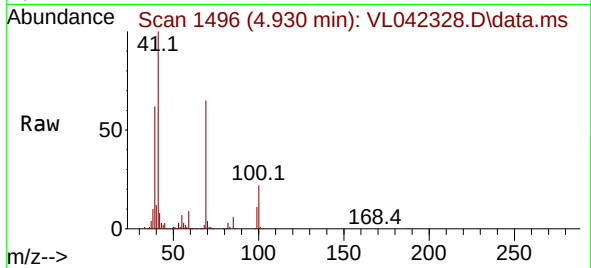




#43
Methyl Methacrylate
Concen: 8.121 ppbv
RT: 4.930 min Scan# 1419
Delta R.T. 0.058 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

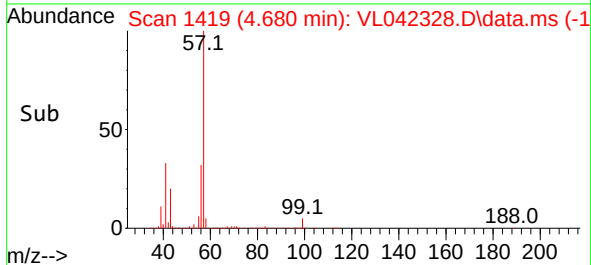
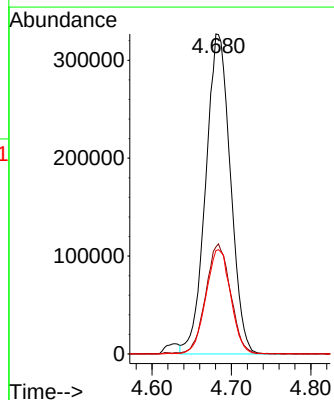
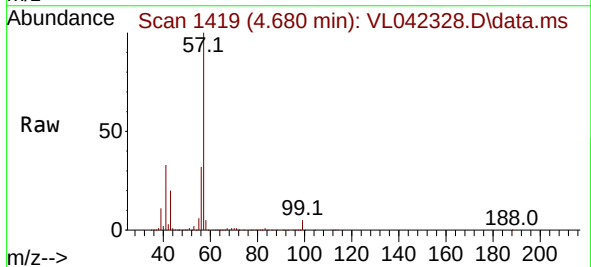
Instrument :
MSVOA_1
ClientSampleId :
VL0415ABS01

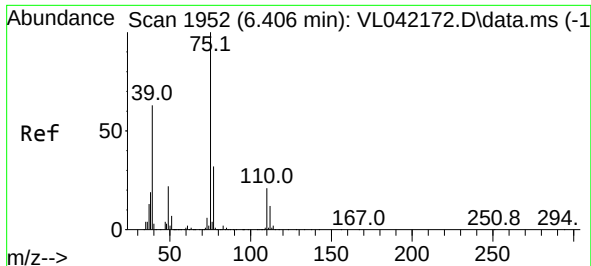
Tgt Ion: 69 Resp: 151531
Ion Ratio Lower Upper
69 100
41 156.5 123.8 185.6
100 33.9 28.4 42.6



#44
2,2,4-Trimethylpentane
Concen: 9.503 ppbv
RT: 4.680 min Scan# 1419
Delta R.T. 0.045 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 57 Resp: 707832
Ion Ratio Lower Upper
57 100
41 34.7 26.8 40.2
56 32.7 25.6 38.4

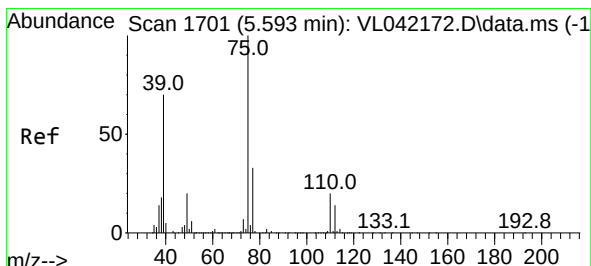
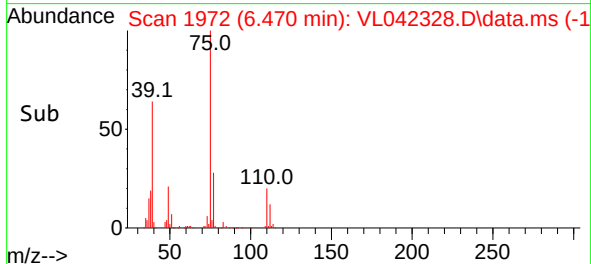
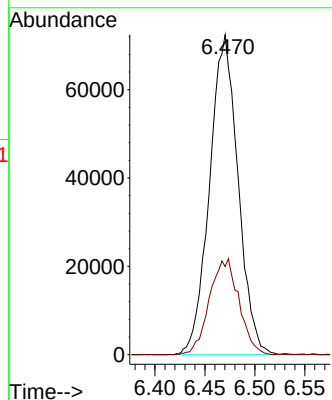
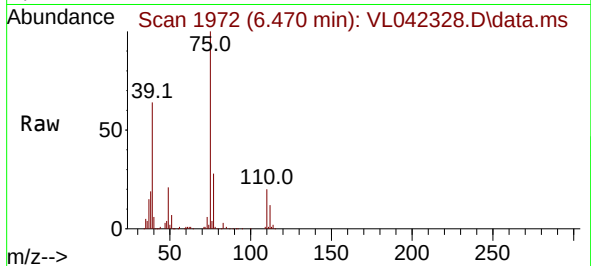




#45
 t-1,3-Dichloropropene
 Concen: 7.179 ppbv
 RT: 6.470 min Scan# 1952
 Delta R.T. 0.065 min
 Lab File: VL042328.D
 Acq: 15 Apr 2025 12:54

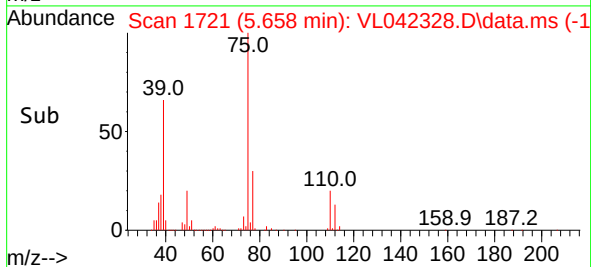
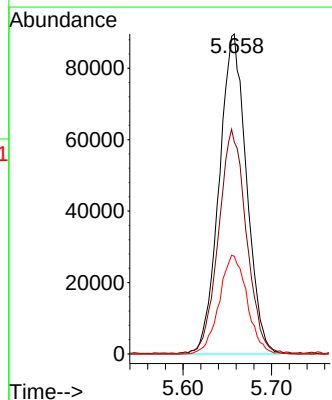
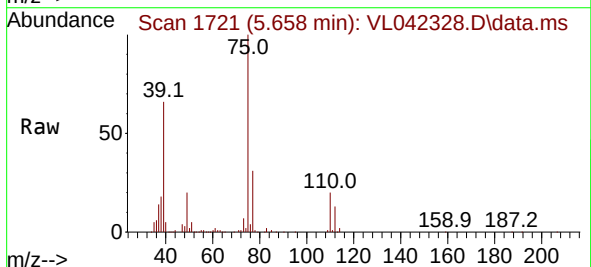
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0415ABS01

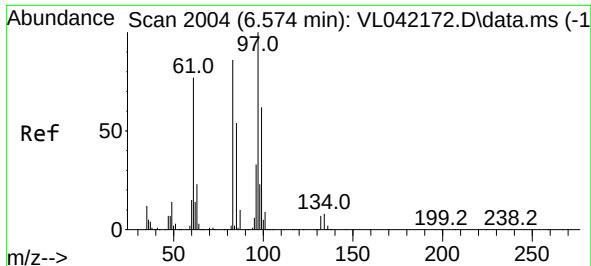
Tgt Ion: 75 Resp: 143714
 Ion Ratio Lower Upper
 75 100
 77 27.5 26.0 39.0



#46
 cis-1,3-Dichloropropene
 Concen: 7.841 ppbv
 RT: 5.658 min Scan# 1721
 Delta R.T. 0.065 min
 Lab File: VL042328.D
 Acq: 15 Apr 2025 12:54

Tgt Ion: 75 Resp: 192419
 Ion Ratio Lower Upper
 75 100
 39 65.8 55.8 83.6
 77 30.6 26.0 39.0

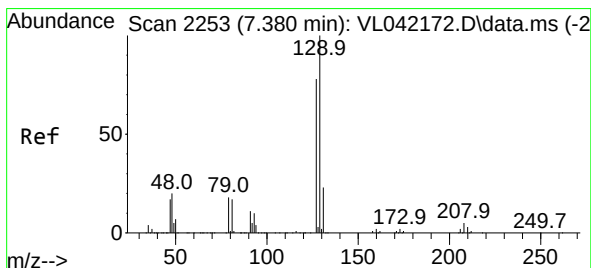
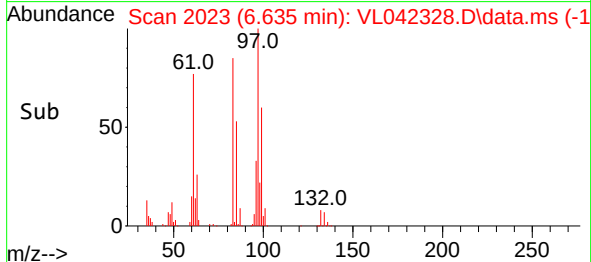
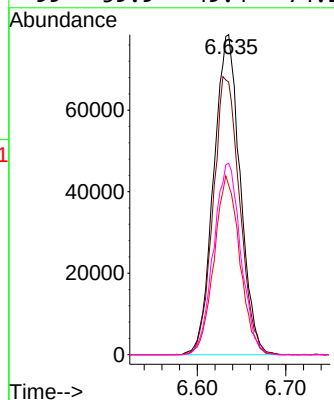
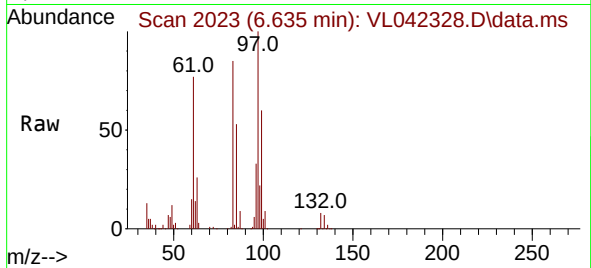




#47
1,1,2-Trichloroethane
Concen: 9.621 ppbv
RT: 6.635 min Scan# 2004
Delta R.T. 0.061 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

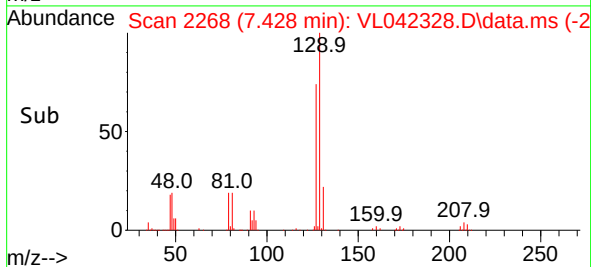
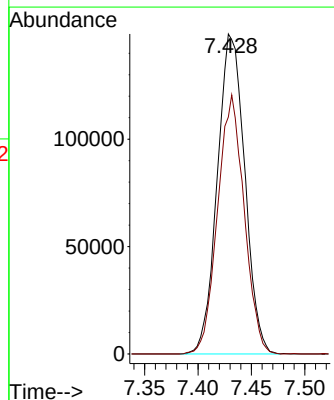
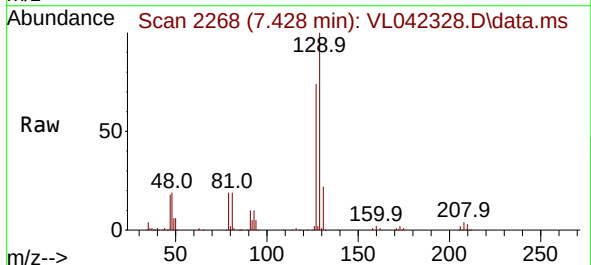
Instrument :
MSVOA_L
ClientSampleId :
VL0415ABS01

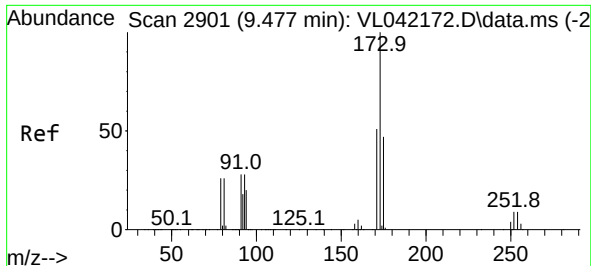
Tgt Ion:	97	Resp:	163251
Ion	Ratio	Lower	Upper
97	100		
83	85.2	69.2	103.8
85	52.9	43.1	64.7
99	59.9	49.4	74.2



#48
Dibromochloromethane
Concen: 9.256 ppbv
RT: 7.428 min Scan# 2268
Delta R.T. 0.048 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion:	129	Resp:	266192
Ion	Ratio	Lower	Upper
129	100		
127	78.3	39.1	117.2





#49

Bromoform

Concen: 9.168 ppbv

RT: 9.519 min Scan# 2901

Delta R.T. 0.042 min

Lab File: VL042328.D

Acq: 15 Apr 2025 12:54

Instrument :

MSVOA_L

ClientSampleId :

VL0415ABS01

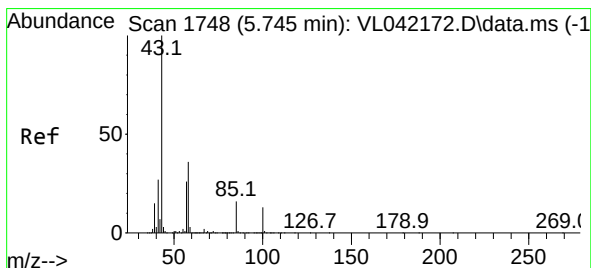
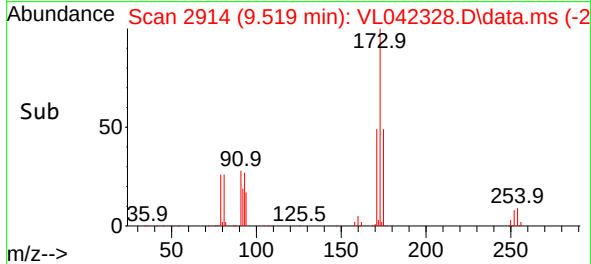
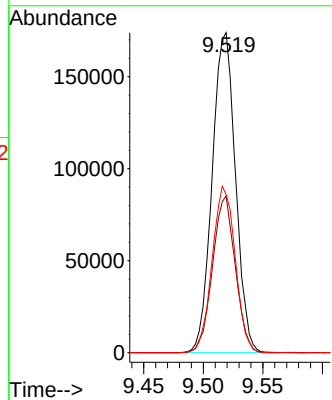
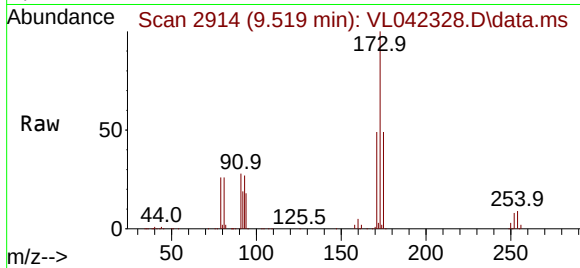
Tgt Ion:173 Resp: 236686

Ion Ratio Lower Upper

173 100

175 47.8 38.6 57.8

171 51.4 41.8 62.6



#50

4-Methyl-2-Pentanone

Concen: 8.416 ppbv

RT: 5.807 min Scan# 1767

Delta R.T. 0.061 min

Lab File: VL042328.D

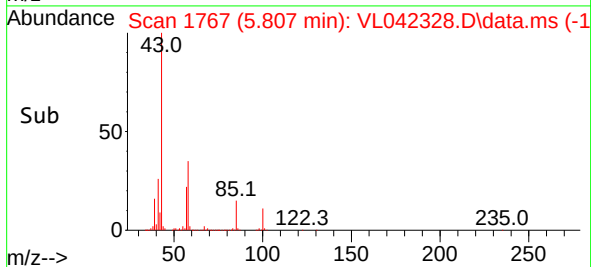
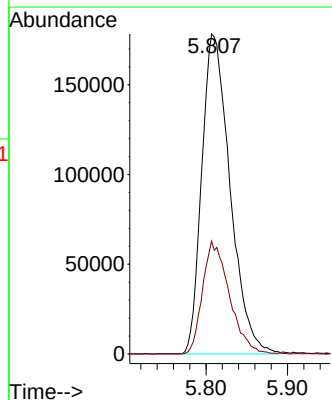
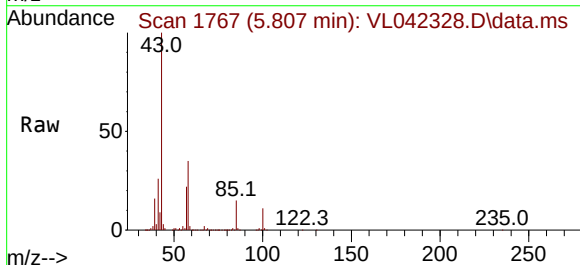
Acq: 15 Apr 2025 12:54

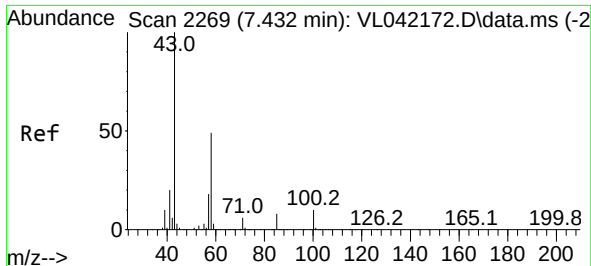
Tgt Ion: 43 Resp: 429988

Ion Ratio Lower Upper

43 100

58 33.5 29.0 43.6

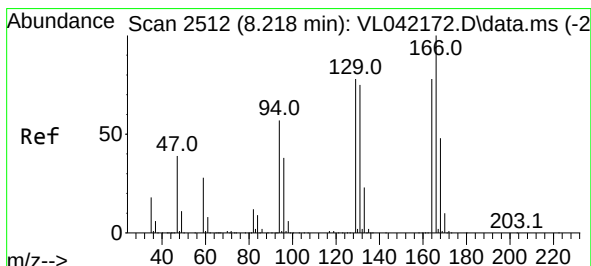
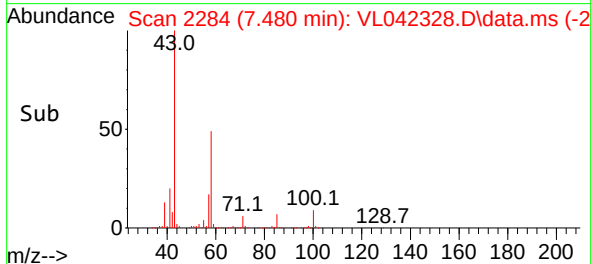
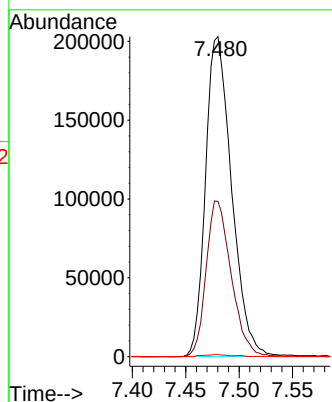
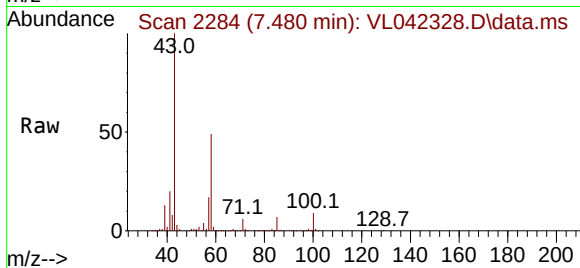




#51
2-Hexanone
Concen: 8.203 ppbv
RT: 7.480 min Scan# 21
Delta R.T. 0.048 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

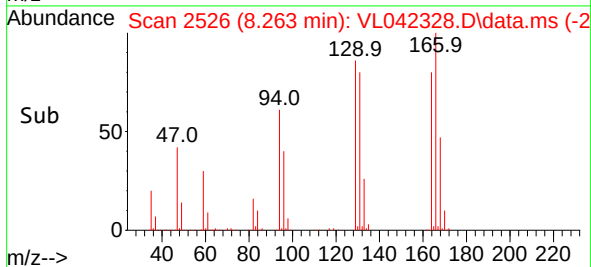
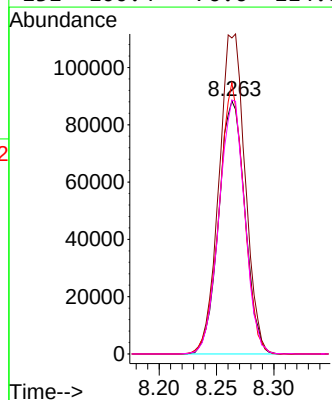
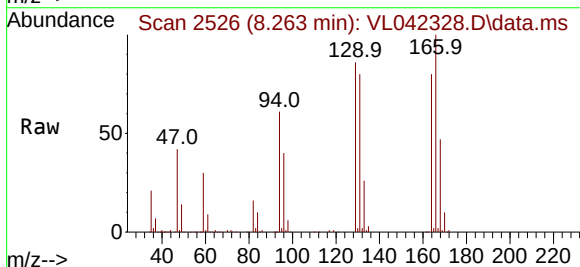
Instrument :
MSVOA_L
ClientSampleId :
VL0415ABS01

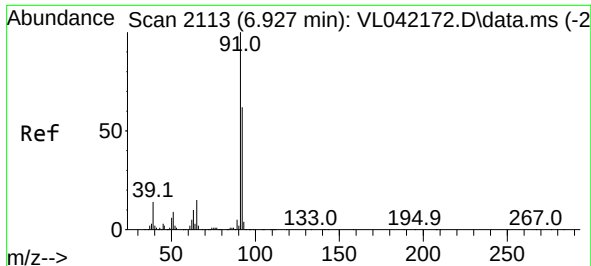
Tgt Ion: 43 Resp: 344172
Ion Ratio Lower Upper
43 100
58 47.1 39.7 59.5
98 0.8 0.1 0.1#



#52
Tetrachloroethene
Concen: 8.000 ppbv
RT: 8.263 min Scan# 2526
Delta R.T. 0.045 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 164 Resp: 139845
Ion Ratio Lower Upper
164 100
166 124.9 102.5 153.7
129 107.2 79.8 119.8
131 100.4 76.6 114.8

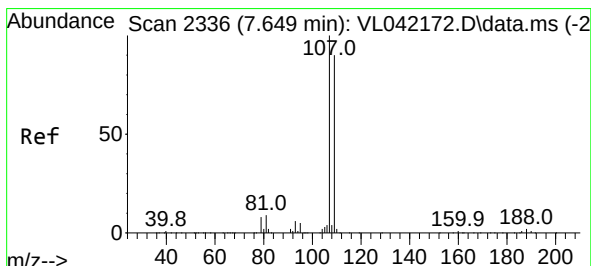
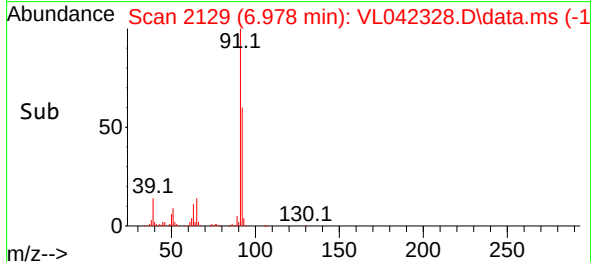
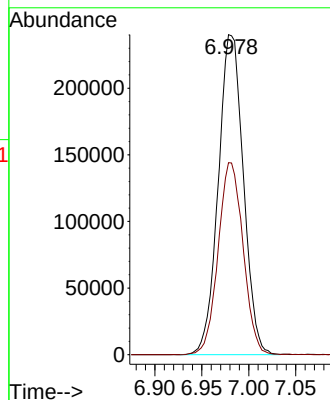
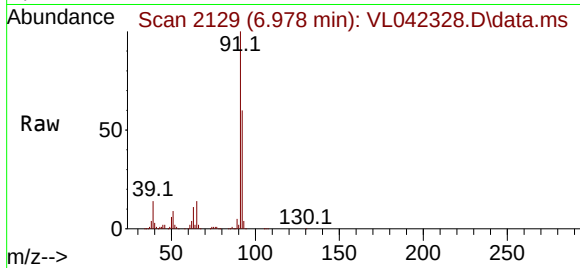




#53
Toluene
Concen: 8.559 ppbv
RT: 6.978 min Scan# 2113
Delta R.T. 0.052 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

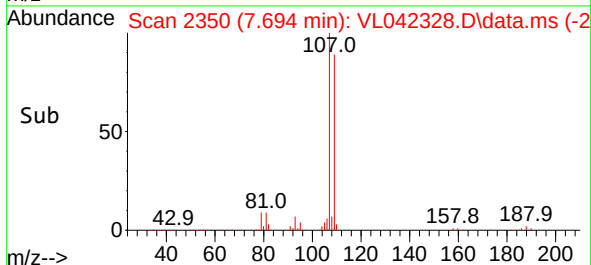
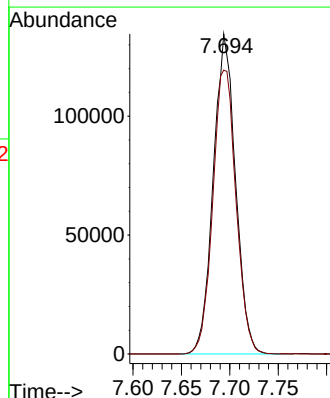
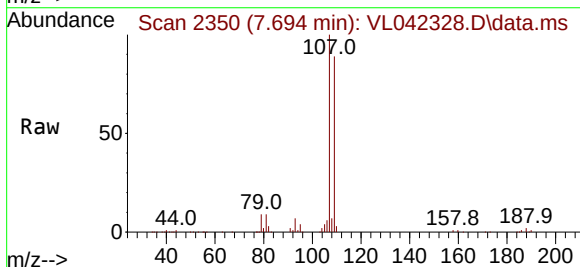
Instrument :
MSVOA_L
ClientSampleId :
VL0415ABS01

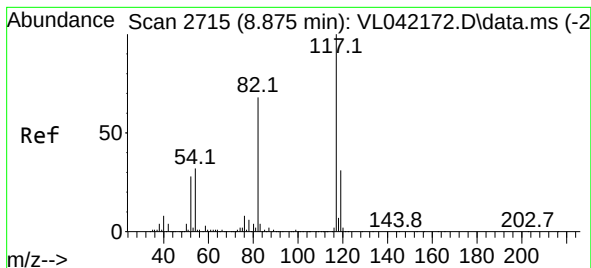
Tgt Ion: 91 Resp: 447178
Ion Ratio Lower Upper
91 100
92 59.6 48.4 72.6



#54
1,2-Dibromoethane
Concen: 9.089 ppbv
RT: 7.694 min Scan# 2350
Delta R.T. 0.045 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 107 Resp: 214982
Ion Ratio Lower Upper
107 100
109 88.7 72.2 108.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.917 min Scan# 21

Delta R.T. 0.042 min

Lab File: VL042328.D

Acq: 15 Apr 2025 12:54

Instrument :

MSVOA_1

ClientSampleId :

VL0415ABS01

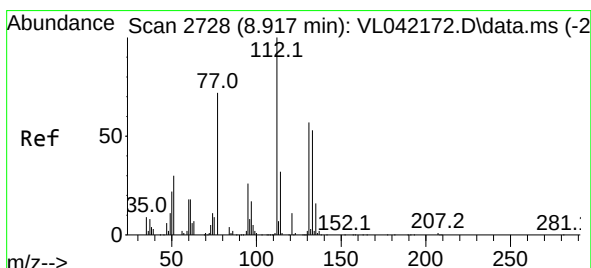
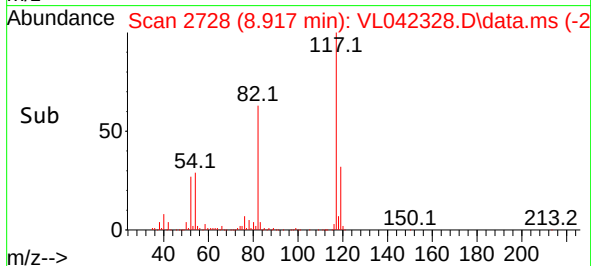
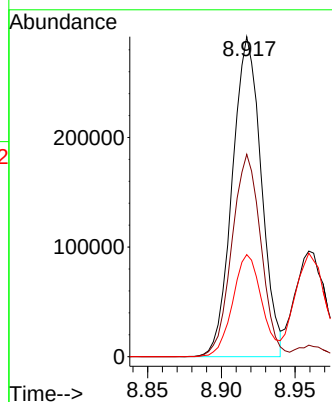
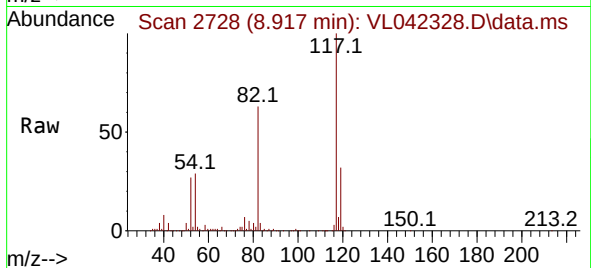
Tgt Ion:117 Resp: 399604

Ion Ratio Lower Upper

117 100

82 66.8 55.8 83.6

119 32.4 25.5 38.3



#56

1,1,1,2-Tetrachloroethane

Concen: 9.855 ppbv

RT: 8.959 min Scan# 2741

Delta R.T. 0.042 min

Lab File: VL042328.D

Acq: 15 Apr 2025 12:54

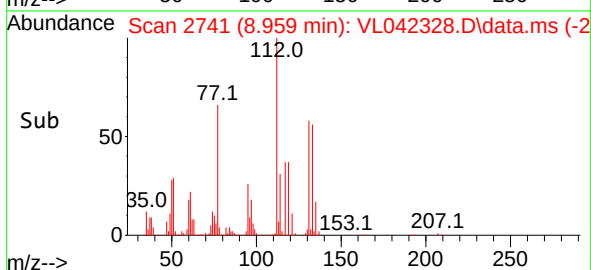
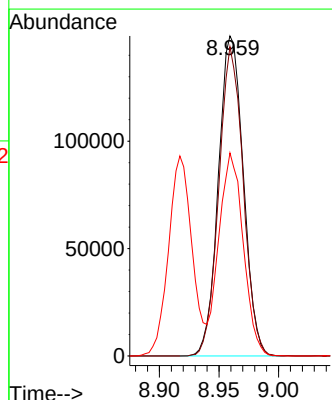
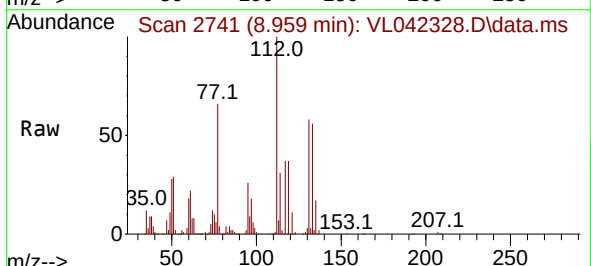
Tgt Ion:131 Resp: 216770

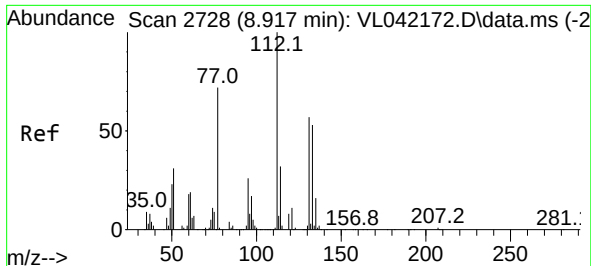
Ion Ratio Lower Upper

131 100

133 94.3 76.6 114.8

119 59.8 49.8 74.6

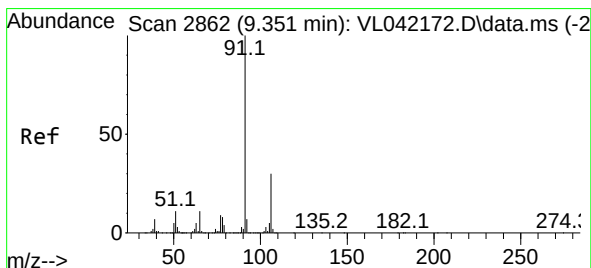
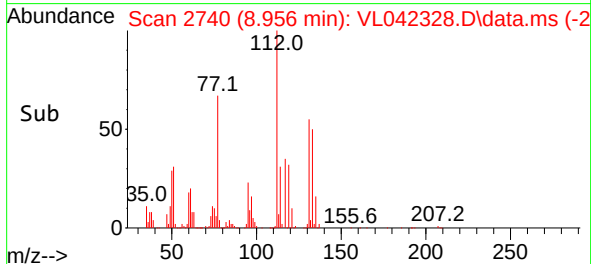
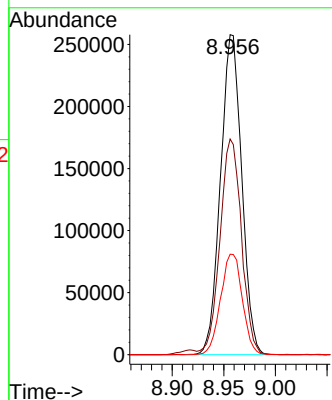
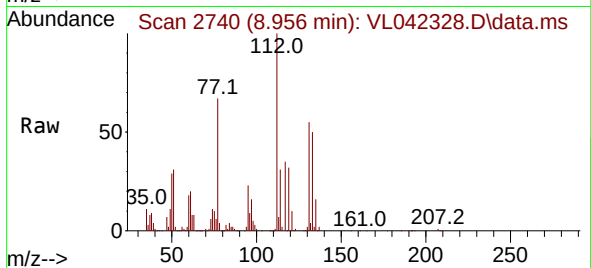




#57
Chlorobenzene
Concen: 9.739 ppbv
RT: 8.956 min Scan# 21
Delta R.T. 0.039 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

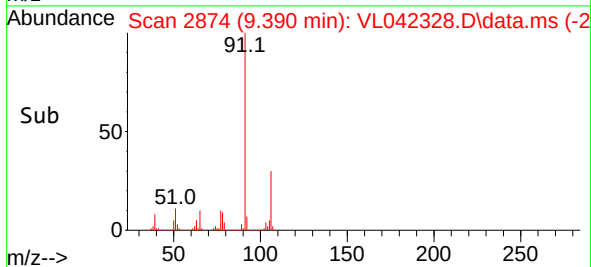
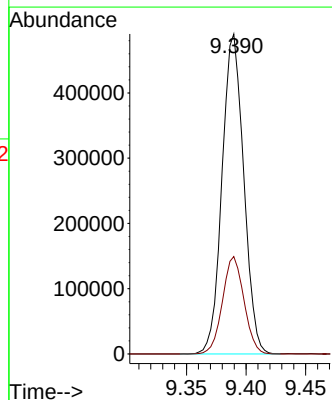
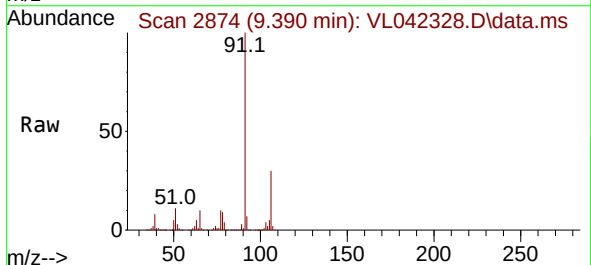
Instrument :
MSVOA_L
ClientSampleId :
VL0415ABS01

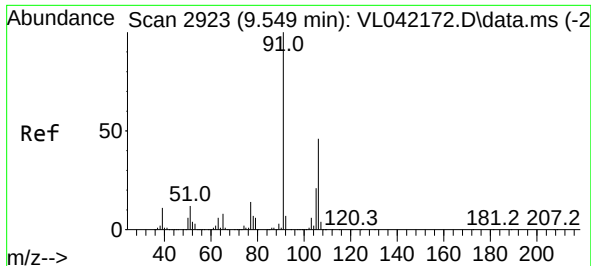
Tgt Ion:112 Resp: 369132
Ion Ratio Lower Upper
112 100
77 67.4 58.2 87.2
114 31.4 29.1 35.5



#58
Ethyl Benzene
Concen: 8.716 ppbv
RT: 9.390 min Scan# 2874
Delta R.T. 0.039 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 91 Resp: 618669
Ion Ratio Lower Upper
91 100
106 30.4 24.2 36.2





#59

m/p-Xylene

Concen: 9.001 ppbv

RT: 9.584 min Scan# 2923

Delta R.T. 0.035 min

Lab File: VL042328.D

Acq: 15 Apr 2025 12:54

Instrument :

MSVOA_1

ClientSampleId :

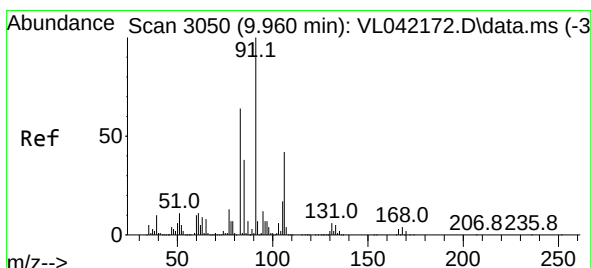
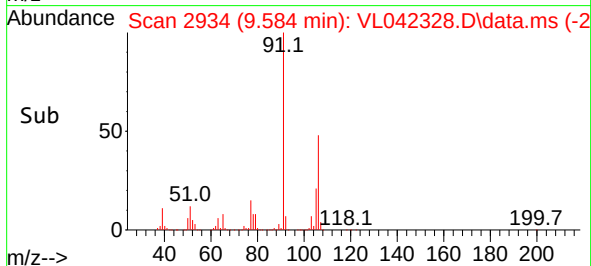
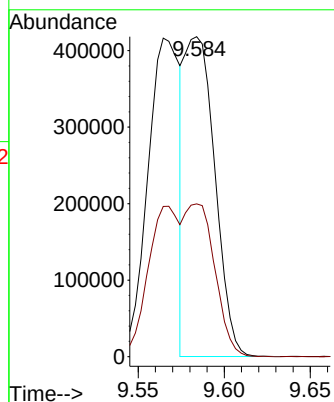
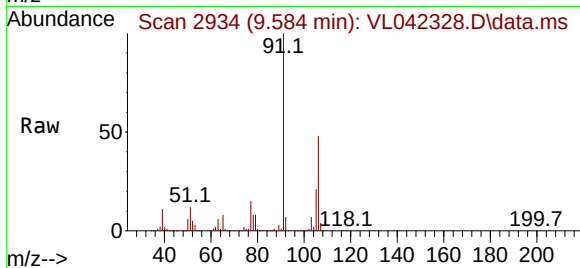
VL0415ABS01

Tgt Ion: 91 Resp: 510187

Ion Ratio Lower Upper

91 100

106 97.2 36.4 54.6#



#60

o-Xylene

Concen: 9.107 ppbv

RT: 9.995 min Scan# 3061

Delta R.T. 0.035 min

Lab File: VL042328.D

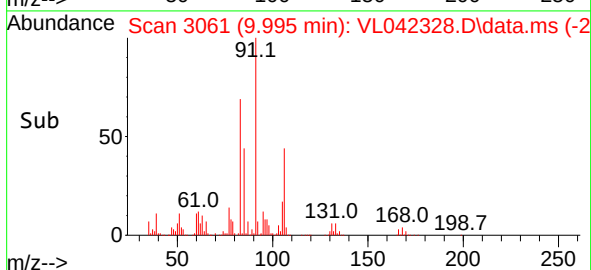
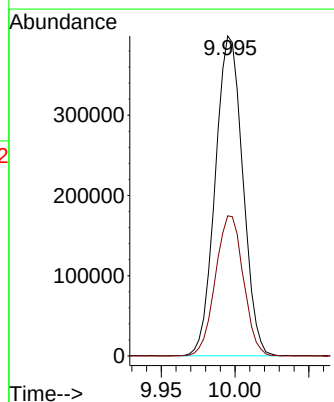
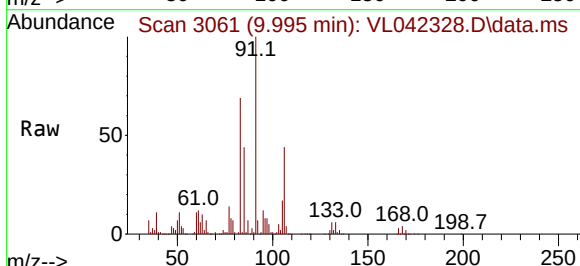
Acq: 15 Apr 2025 12:54

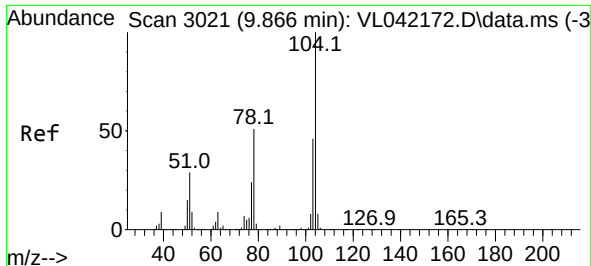
Tgt Ion: 91 Resp: 517471

Ion Ratio Lower Upper

91 100

106 44.5 20.8 62.5

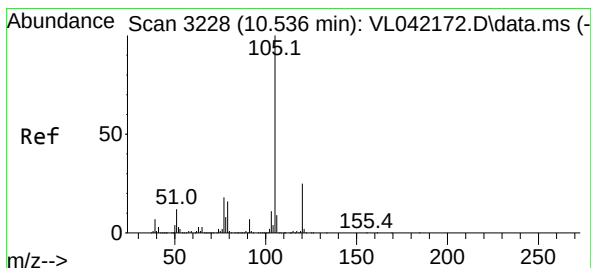
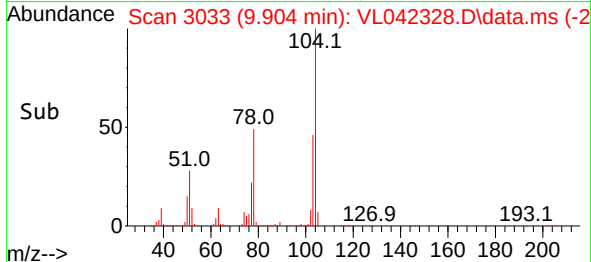
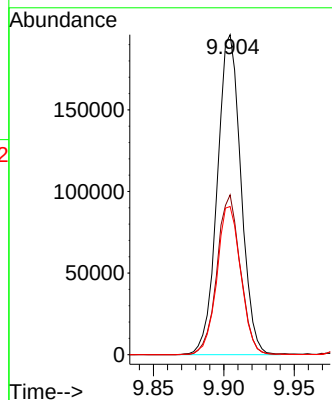
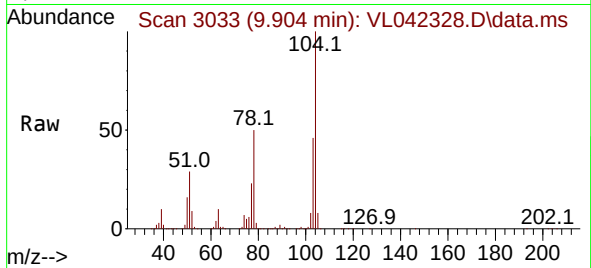




#61
Styrene
Concen: 8.168 ppbv
RT: 9.904 min Scan# 3021
Delta R.T. 0.039 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

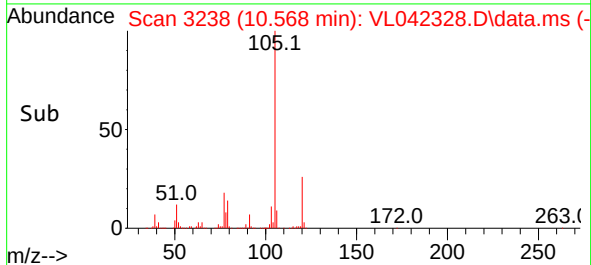
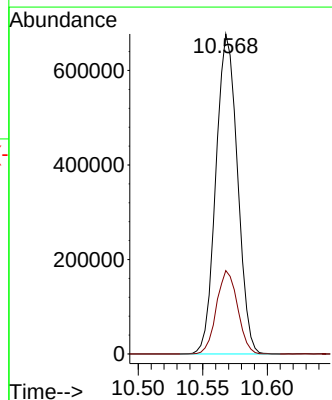
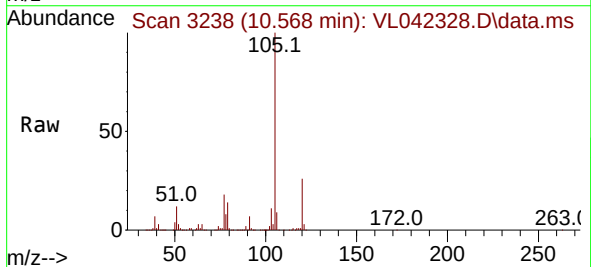
Instrument :
MSVOA_1
ClientSampleId :
VL0415ABS01

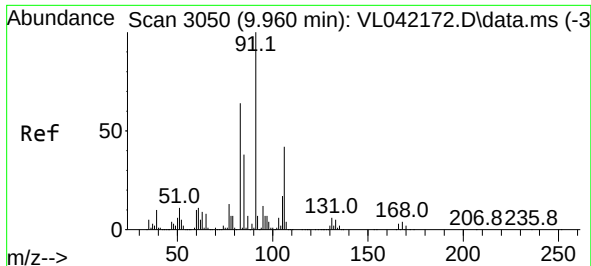
Tgt Ion:104 Resp: 229601
Ion Ratio Lower Upper
104 100
78 49.5 41.8 62.6
103 47.0 37.0 55.4



#62
Isopropylbenzene
Concen: 9.247 ppbv
RT: 10.568 min Scan# 3238
Delta R.T. 0.032 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion:105 Resp: 785673
Ion Ratio Lower Upper
105 100
120 25.5 19.9 29.9

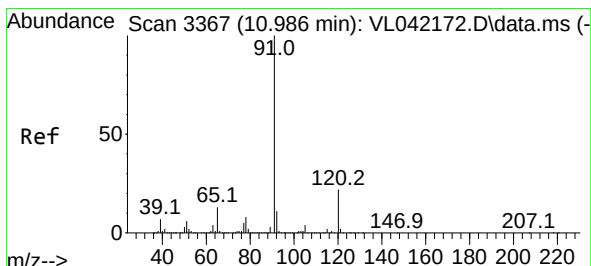
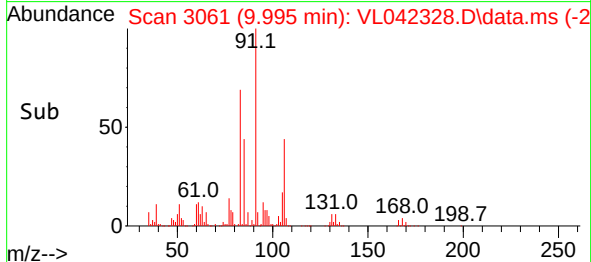
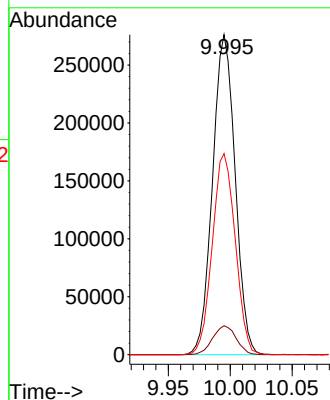
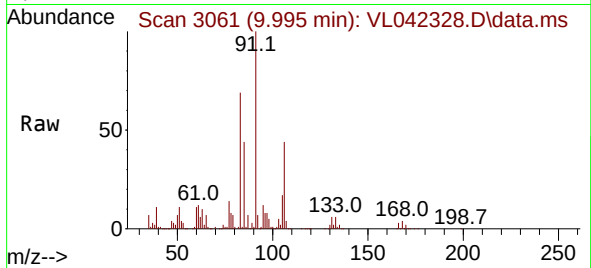




#63
1,1,2,2-Tetrachloroethane
Concen: 10.176 ppbv
RT: 9.995 min Scan# 3050
Delta R.T. 0.035 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

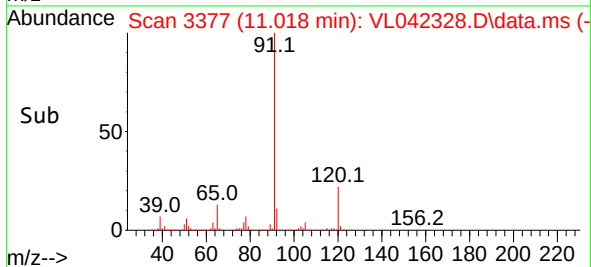
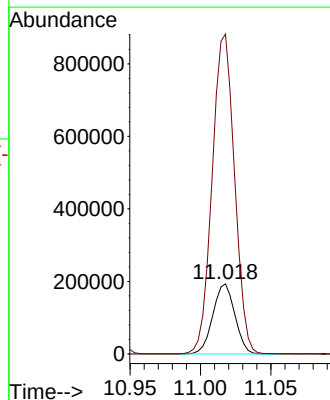
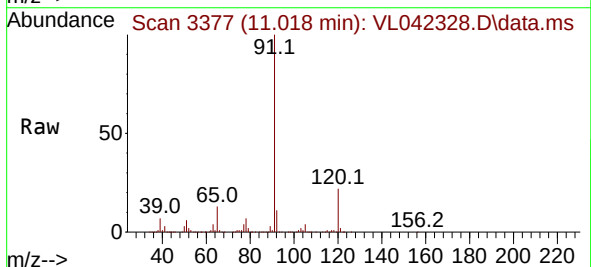
Instrument :
MSVOA_1
ClientSampleId :
VL0415ABS01

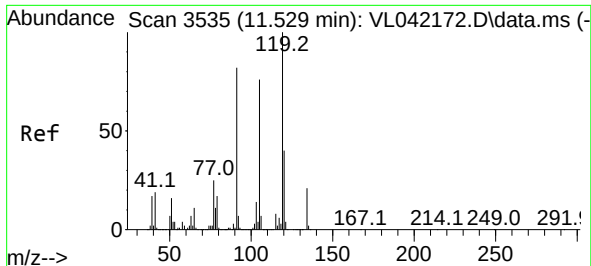
Tgt Ion: 83 Resp: 351308
Ion Ratio Lower Upper
83 100
131 9.4 4.8 14.4
85 63.9 32.5 97.5



#64
n-propylbenzene
Concen: 9.615 ppbv
RT: 11.018 min Scan# 3377
Delta R.T. 0.032 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 120 Resp: 210294
Ion Ratio Lower Upper
120 100
91 465.9 376.9 565.3

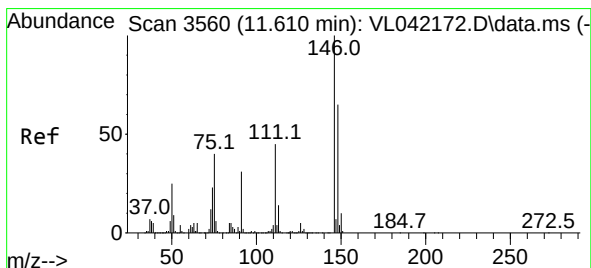
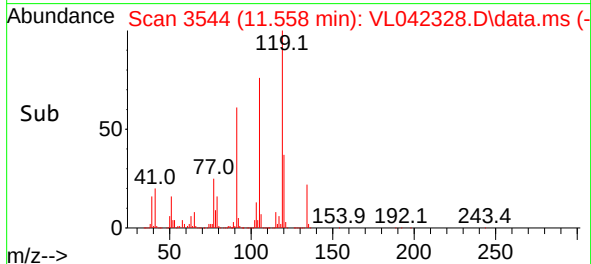
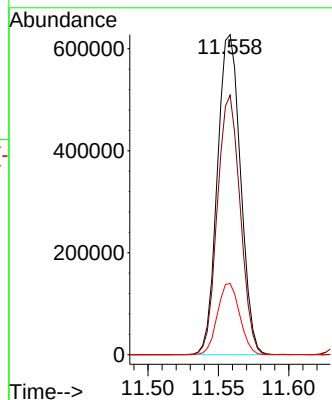
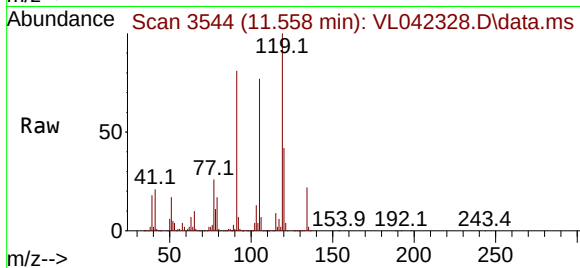




#65
 tert-Butylbenzene
 Concen: 9.149 ppbv
 RT: 11.558 min Scan# 31
 Delta R.T. 0.029 min
 Lab File: VL042328.D
 Acq: 15 Apr 2025 12:54

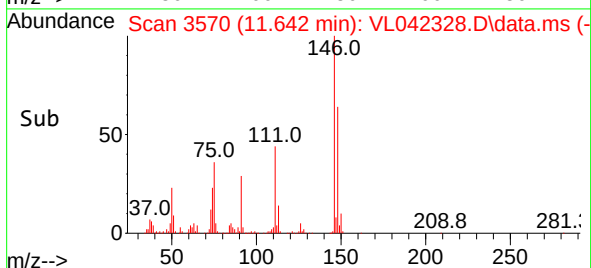
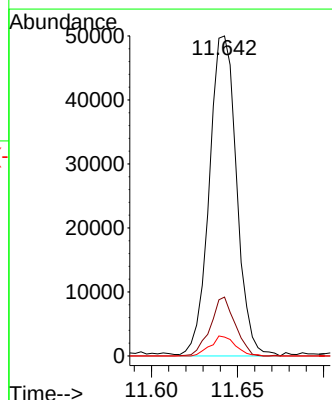
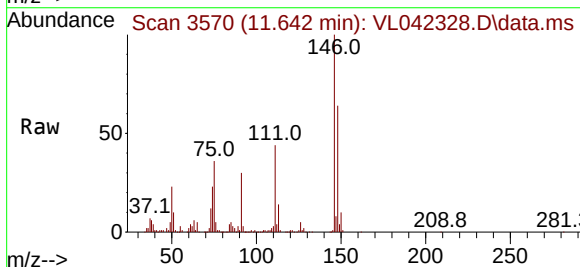
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0415ABS01

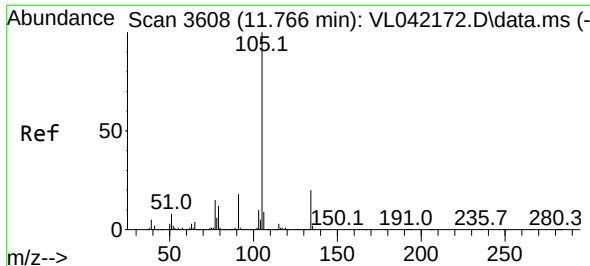
Tgt Ion:119 Resp: 718948
 Ion Ratio Lower Upper
 119 100
 91 79.8 66.0 99.0
 134 21.4 16.7 25.1



#66
 Benzyl Chloride
 Concen: 6.614 ppbv
 RT: 11.642 min Scan# 3570
 Delta R.T. 0.032 min
 Lab File: VL042328.D
 Acq: 15 Apr 2025 12:54

Tgt Ion: 91 Resp: 55150
 Ion Ratio Lower Upper
 91 100
 126 16.6 13.8 20.6
 128 5.7 4.5 6.7

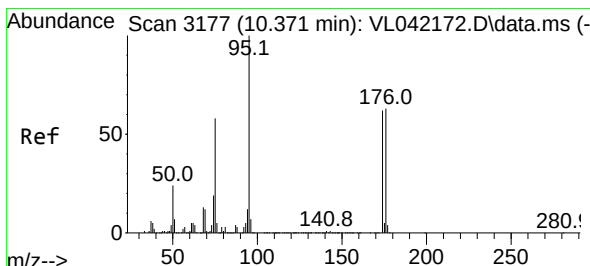
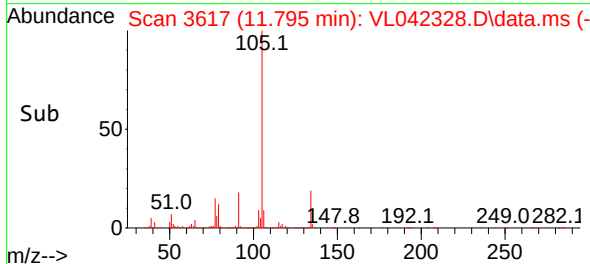
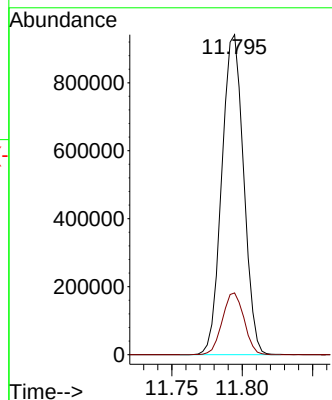
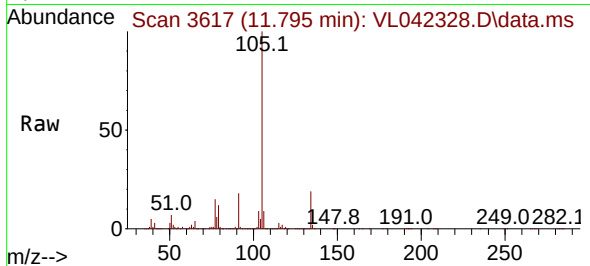




#67
 sec-Butylbenzene
 Concen: 9.328 ppbv
 RT: 11.795 min Scan# 3187
 Delta R.T. 0.029 min
 Lab File: VL042328.D
 Acq: 15 Apr 2025 12:54

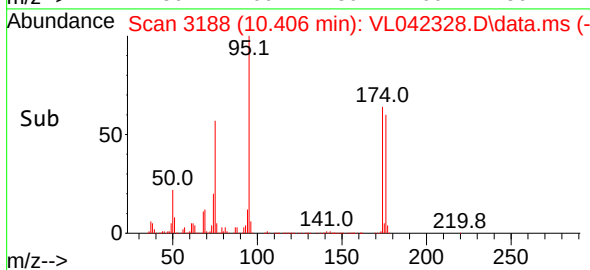
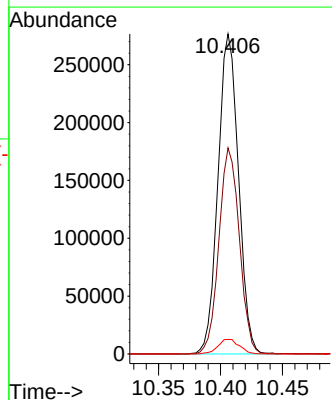
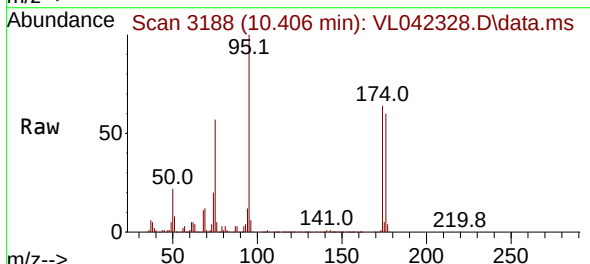
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0415ABS01

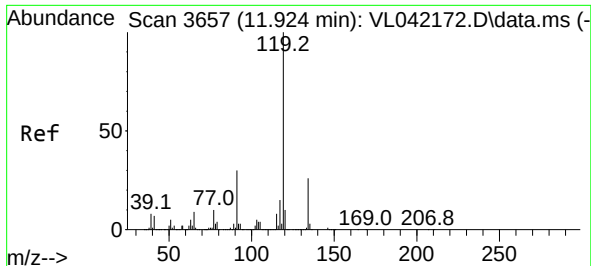
Tgt Ion:105 Resp: 1018861
 Ion Ratio Lower Upper
 105 100
 134 19.2 15.5 23.3



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.718 ppbv
 RT: 10.406 min Scan# 3188
 Delta R.T. 0.035 min
 Lab File: VL042328.D
 Acq: 15 Apr 2025 12:54

Tgt Ion: 95 Resp: 318902
 Ion Ratio Lower Upper
 95 100
 174 64.4 50.6 76.0
 175 4.8 3.8 5.6

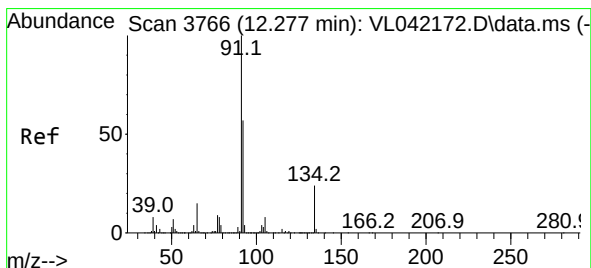
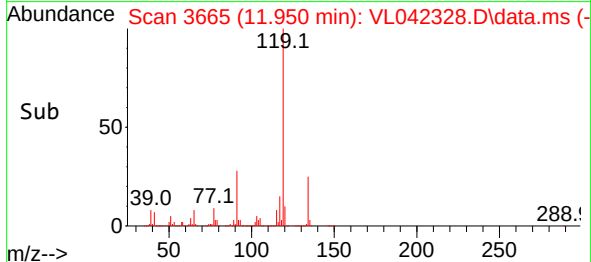
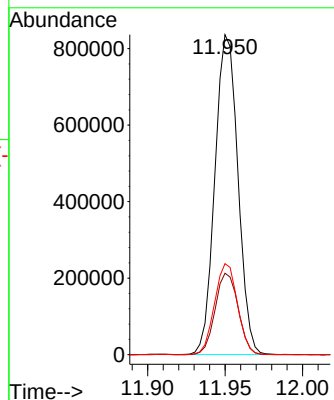
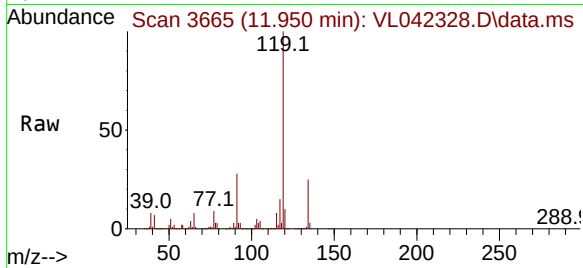




#69
p-Isopropyltoluene
Concen: 9.179 ppbv
RT: 11.950 min Scan# 30
Delta R.T. 0.026 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

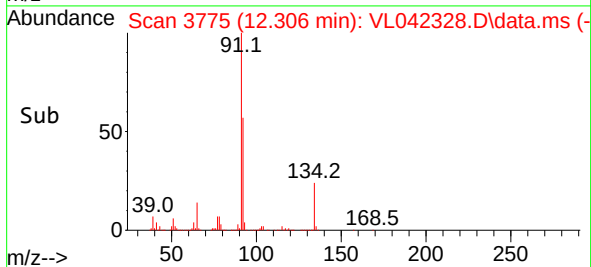
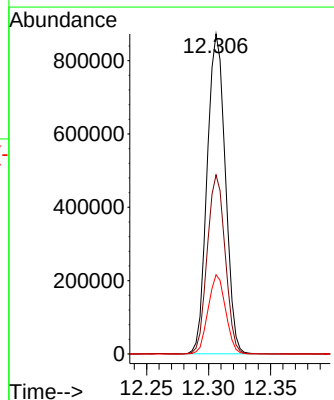
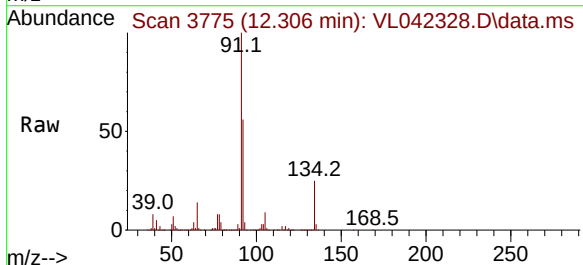
Instrument :
MSVOA_1
ClientSampleId :
VL0415ABS01

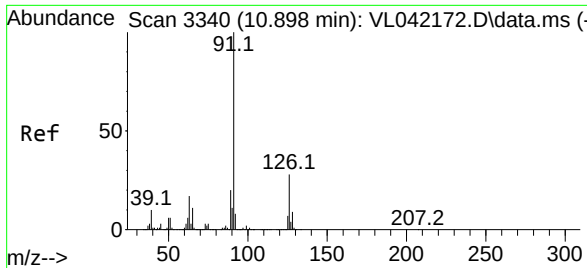
Tgt Ion:119 Resp: 863264
Ion Ratio Lower Upper
119 100
134 25.6 20.4 30.6
91 28.5 23.7 35.5



#70
n-Butylbenzene
Concen: 9.273 ppbv
RT: 12.306 min Scan# 3775
Delta R.T. 0.029 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 91 Resp: 891883
Ion Ratio Lower Upper
91 100
92 55.3 44.9 67.3
134 23.8 19.2 28.8

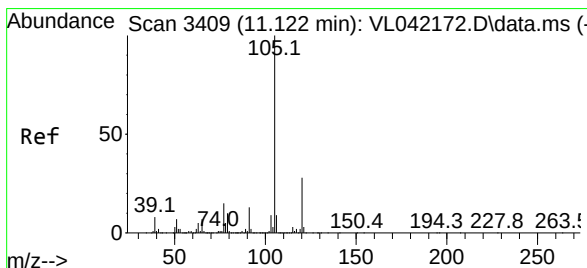
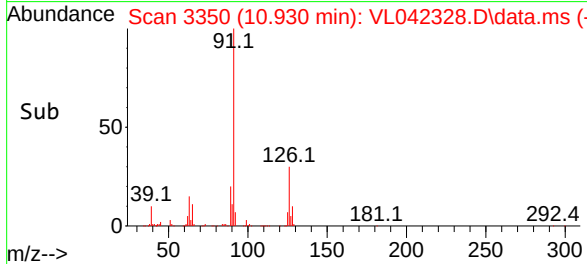
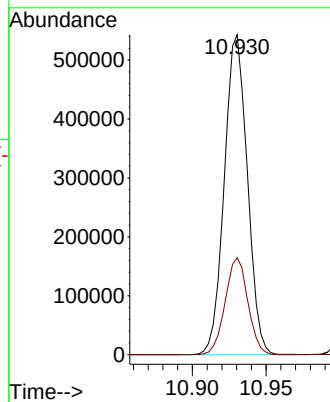
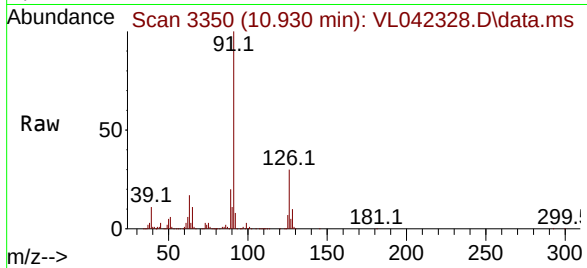




#71
2-Chlorotoluene
Concen: 8.953 ppbv
RT: 10.930 min Scan# 3118
Delta R.T. 0.032 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

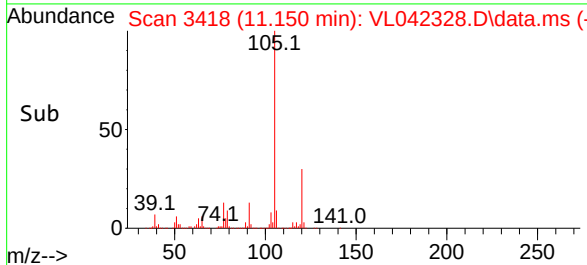
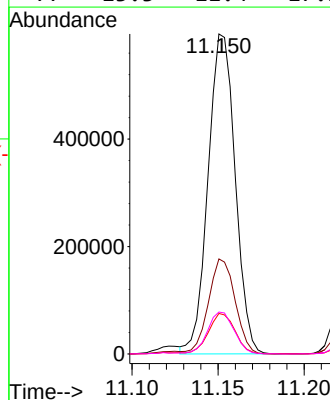
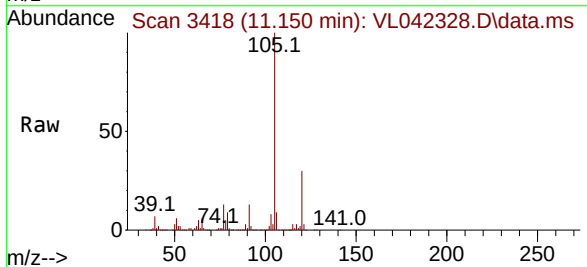
Instrument :
MSVOA_1
ClientSampleId :
VL0415ABS01

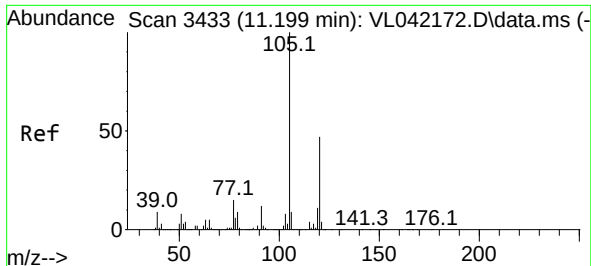
Tgt Ion: 91 Resp: 590408
Ion Ratio Lower Upper
91 100
126 29.8 11.6 46.4



#72
4-Ethyltoluene
Concen: 9.230 ppbv
RT: 11.150 min Scan# 3418
Delta R.T. 0.029 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 105 Resp: 652962
Ion Ratio Lower Upper
105 100
120 30.0 23.4 35.0
91 13.0 10.3 15.5
77 13.3 11.4 17.2

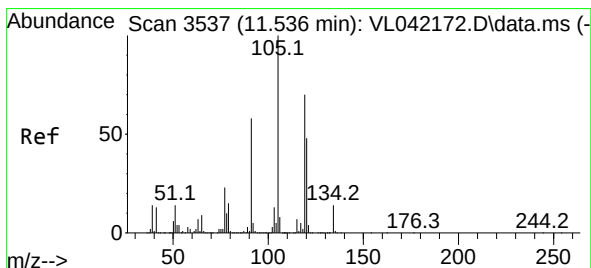
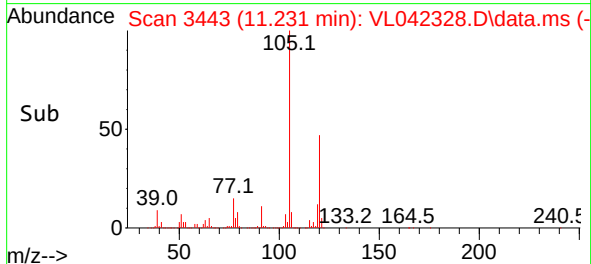
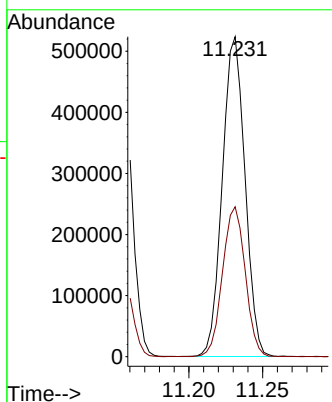
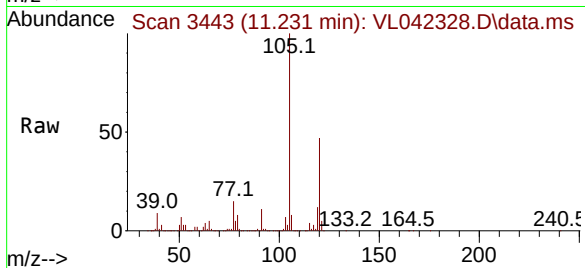




#73
 1,3,5-Trimethylbenzene
 Concen: 9.055 ppbv
 RT: 11.231 min Scan# 3433
 Delta R.T. 0.032 min
 Lab File: VL042328.D
 Acq: 15 Apr 2025 12:54

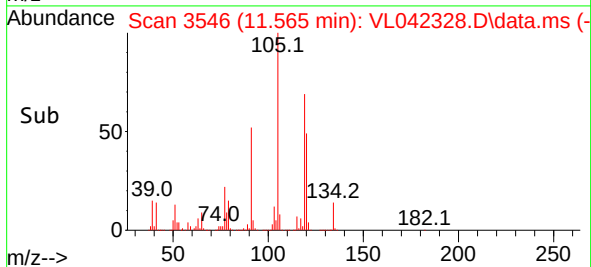
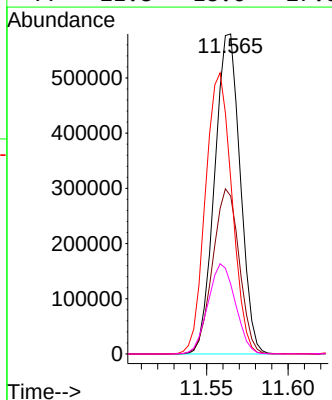
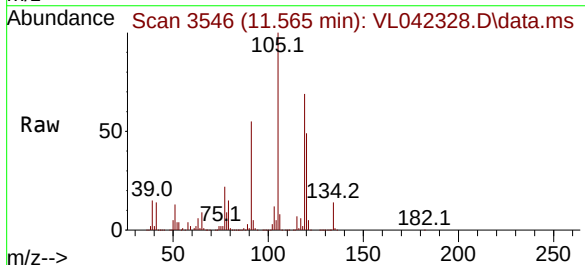
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0415ABS01

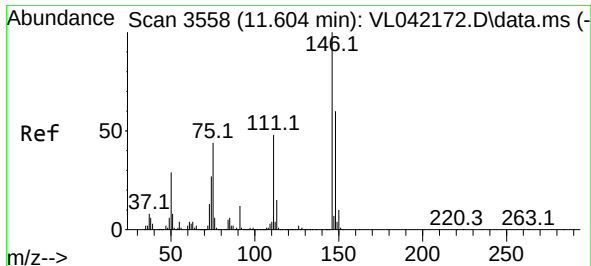
Tgt Ion:105 Resp: 559451
 Ion Ratio Lower Upper
 105 100
 120 46.8 37.4 56.0



#74
 1,2,4-Trimethylbenzene
 Concen: 8.883 ppbv
 RT: 11.565 min Scan# 3546
 Delta R.T. 0.029 min
 Lab File: VL042328.D
 Acq: 15 Apr 2025 12:54

Tgt Ion:105 Resp: 632271
 Ion Ratio Lower Upper
 105 100
 120 49.3 38.6 58.0
 91 54.7 46.2 69.2
 77 21.8 18.6 27.8

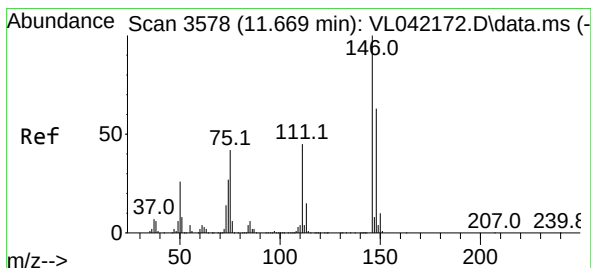
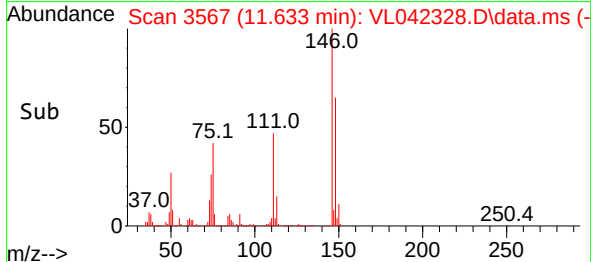
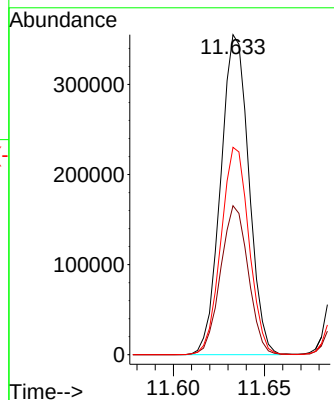
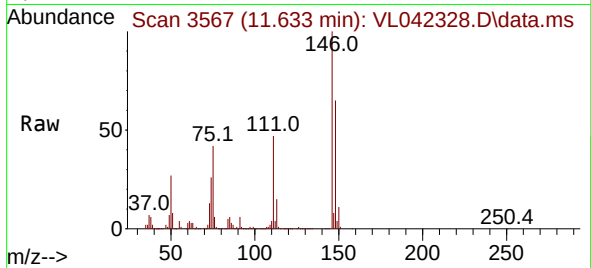




#75
1,3-Dichlorobenzene
Concen: 9.782 ppbv
RT: 11.633 min Scan# 3567
Delta R.T. 0.029 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

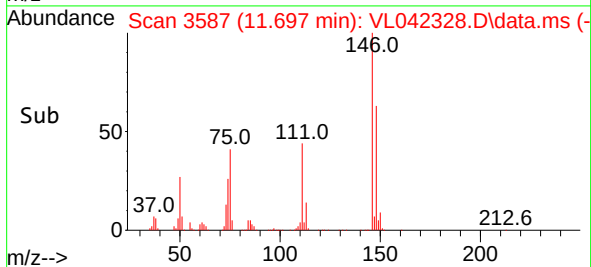
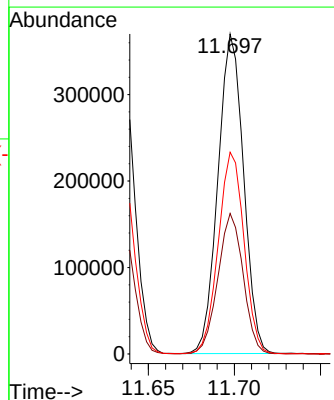
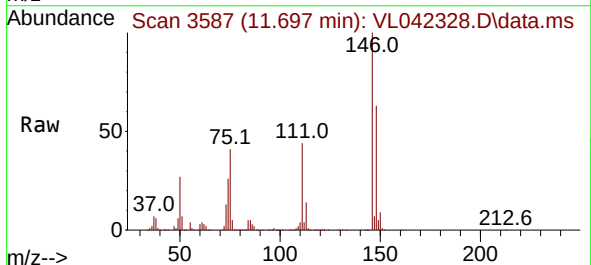
Instrument :
MSVOA_1
ClientSampleId :
VL0415ABS01

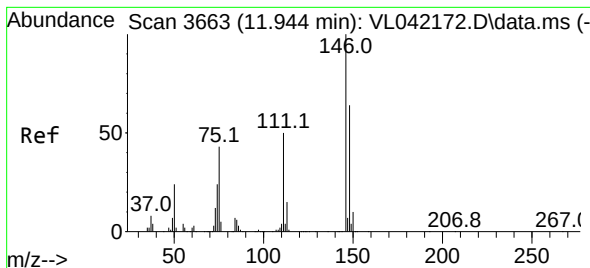
Tgt Ion:146 Resp: 381882
Ion Ratio Lower Upper
146 100
111 45.7 23.8 71.2
148 64.5 31.9 95.9



#76
1,4-Dichlorobenzene
Concen: 9.861 ppbv
RT: 11.697 min Scan# 3587
Delta R.T. 0.029 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion:146 Resp: 383116
Ion Ratio Lower Upper
146 100
111 43.4 23.0 69.0
148 63.6 31.9 95.7





#77

1,2-Dichlorobenzene

Concen: 10.175 ppbv

RT: 11.973 min Scan# 3

Delta R.T. 0.029 min

Lab File: VL042328.D

Acq: 15 Apr 2025 12:54

Instrument :

MSVOA_L

ClientSampleId :

VL0415ABS01

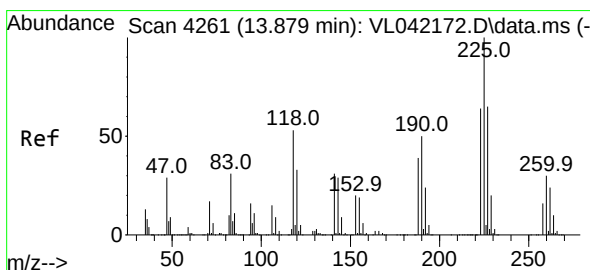
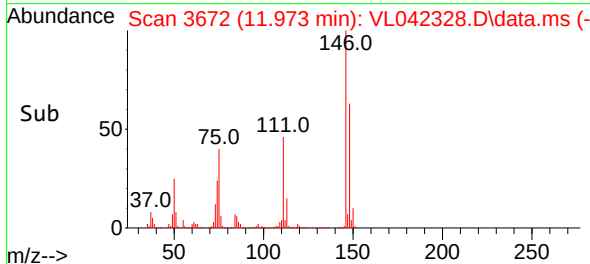
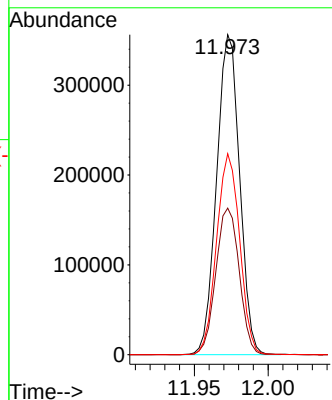
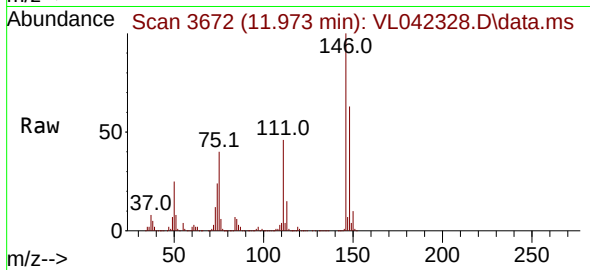
Tgt Ion:146 Resp: 386768

Ion Ratio Lower Upper

146 100

111 46.7 24.8 74.3

148 63.1 31.6 94.8



#78

Hexachloro-1,3-Butadiene

Concen: 8.138 ppbv

RT: 13.905 min Scan# 4269

Delta R.T. 0.026 min

Lab File: VL042328.D

Acq: 15 Apr 2025 12:54

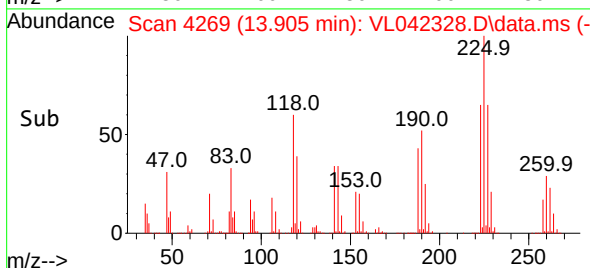
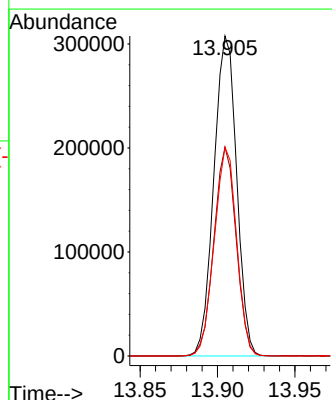
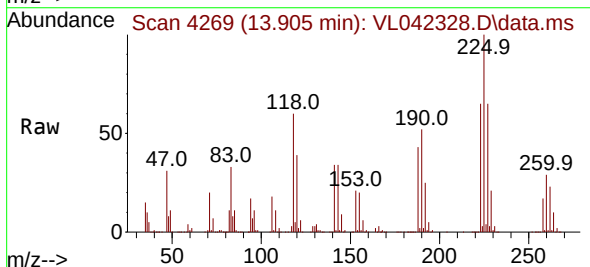
Tgt Ion:225 Resp: 314860

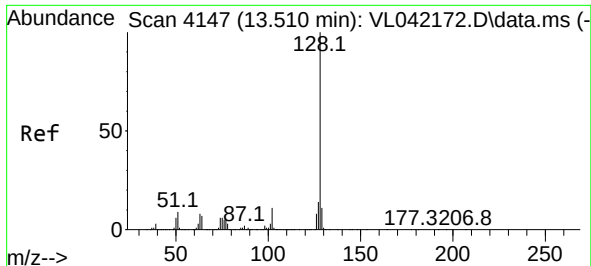
Ion Ratio Lower Upper

225 100

223 63.7 50.6 76.0

227 64.0 51.2 76.8

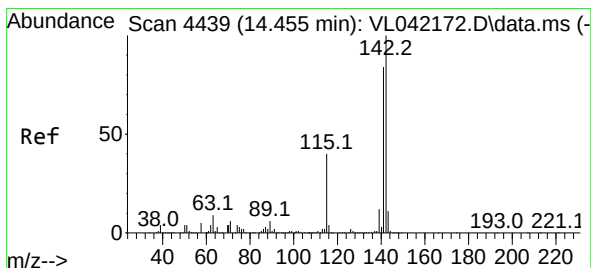
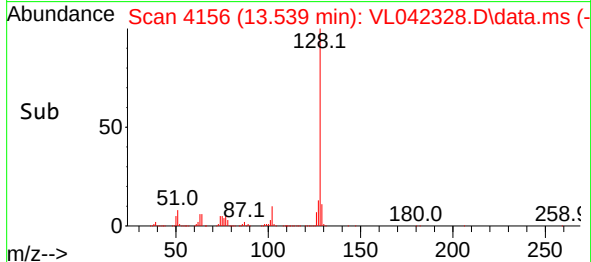
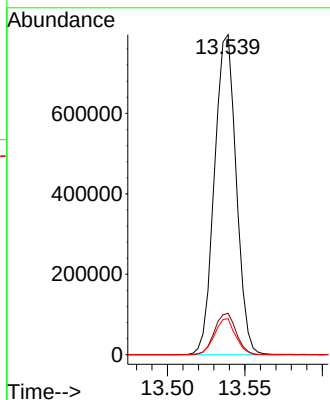
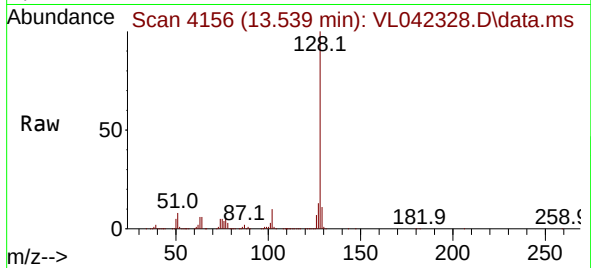




#79
Naphthalene
Concen: 9.989 ppbv
RT: 13.539 min Scan# 4147
Delta R.T. 0.029 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

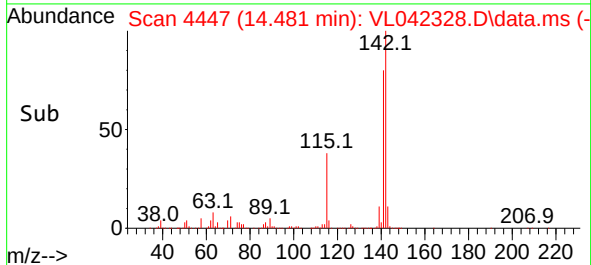
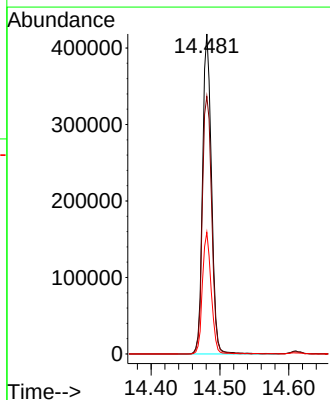
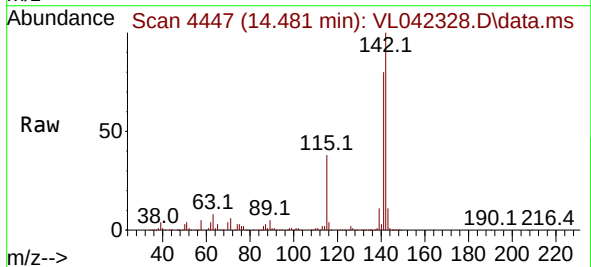
Instrument :
MSVOA_1
ClientSampleId :
VL0415ABS01

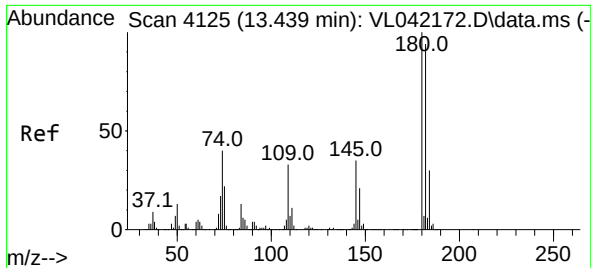
Tgt Ion:128 Resp: 777722
Ion Ratio Lower Upper
128 100
127 13.0 10.8 16.2
129 11.2 9.0 13.4



#80
Naphthalene,2-methyl-
Concen: 9.836 ppbv
RT: 14.481 min Scan# 4447
Delta R.T. 0.026 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

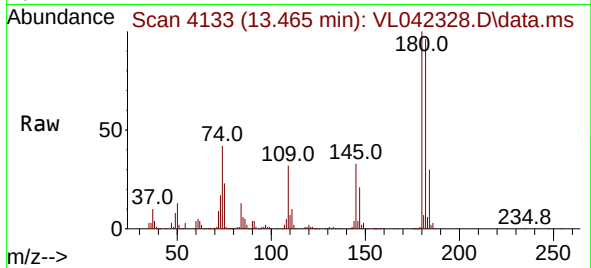
Tgt Ion:142 Resp: 375541
Ion Ratio Lower Upper
142 100
141 84.5 66.3 99.5
115 37.5 31.6 47.4





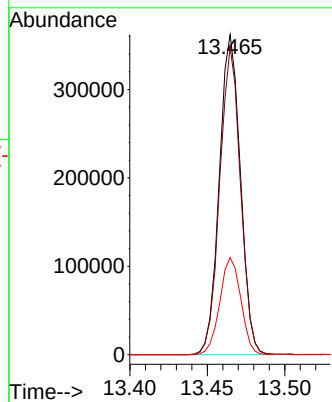
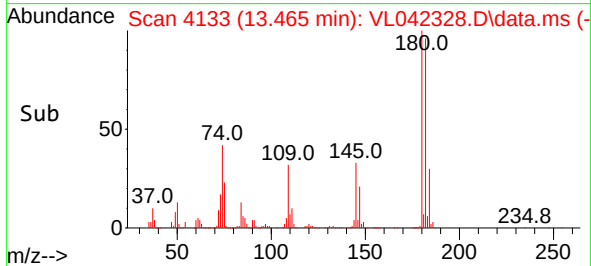
#81
 1,2,4-Trichlorobenzene
 Concen: 9.551 ppbv
 RT: 13.465 min Scan# 41
 Delta R.T. 0.026 min
 Lab File: VL042328.D
 Acq: 15 Apr 2025 12:54

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0415ABS01



Tgt Ion:180 Resp: 343011

Ion	Ratio	Lower	Upper
180	100		
182	94.8	75.1	112.7
184	30.3	24.4	36.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041525\
 Data File : VL042332.D
 Acq On : 15 Apr 2025 15:01
 Operator : SY/MD
 Sample : Q1665-10DL2 100X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B10-4-3242025DL2

Quant Time: Apr 16 01:32:29 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)

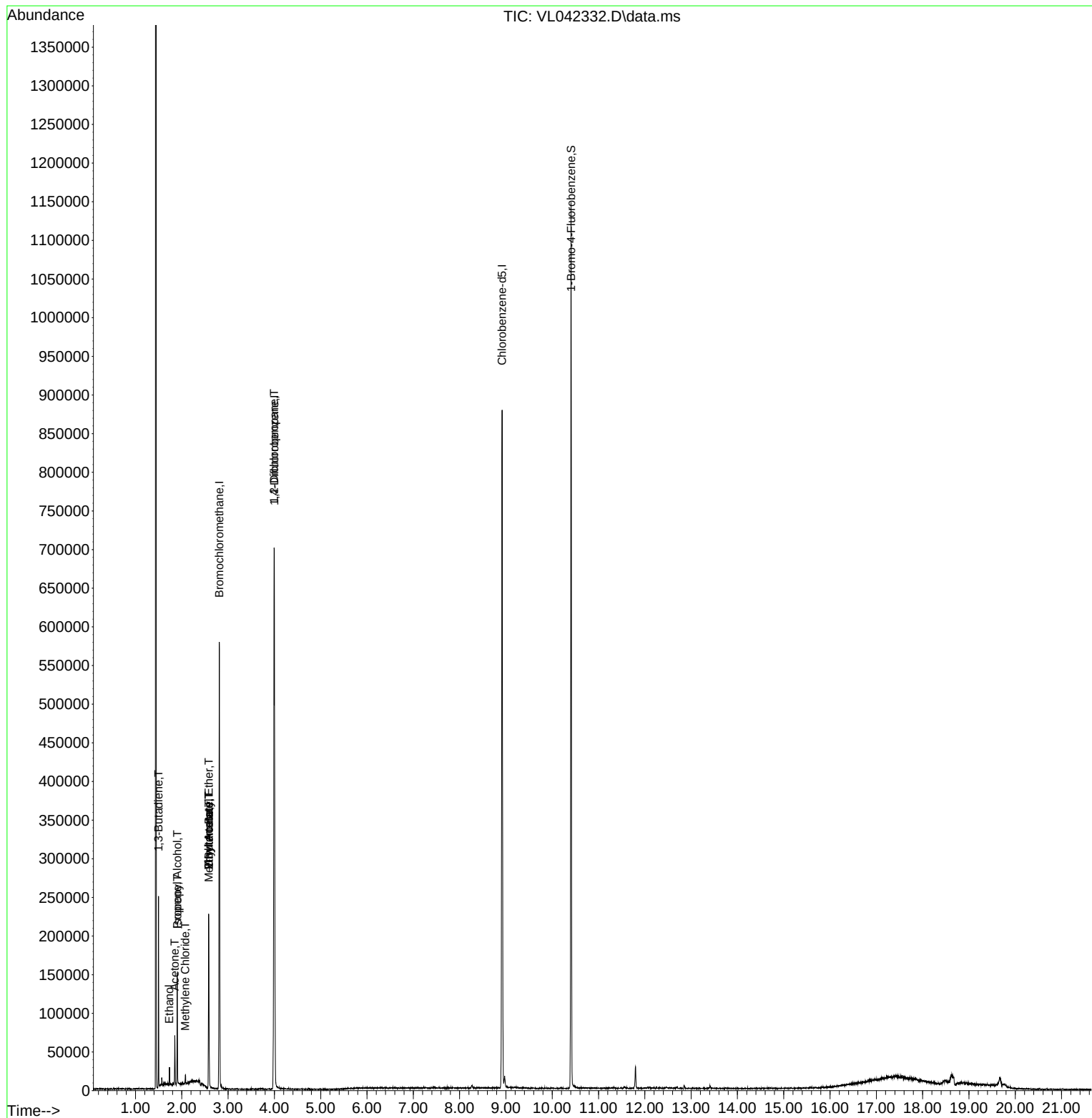
Internal Standards						
1) Bromochloromethane	2.810	49	164444	10.000	ppbv	0.03
33) 1,4-Difluorobenzene	3.998	114	385228	10.000	ppbv	0.05
55) Chlorobenzene-d5	8.917	117	327587	10.000	ppbv	0.04
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.406	95	251001	9.330	ppbv	0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.300%
Target Compounds						
					Qvalue	
9) Propene	1.900	41	5702	0.502	ppbv	98
13) Ethanol	1.732	45	8531	7.938	ppbv	83
15) Acetone	1.848	43	26934	1.171	ppbv	95
16) 1,3-Butadiene	1.499	39	26482	2.358	ppbv #	12
19) Isopropyl Alcohol	1.900	45	55262	4.259	ppbv #	34
20) Methylene Chloride	2.075	84	1828	0.213	ppbv #	78
23) Vinyl Acetate	2.580	43	135118	13.574	ppbv #	87
25) Ethyl Acetate	2.580	43	135118	2.264	ppbv #	76
28) Methyl tert-Butyl Ether	2.583	73	1168	0.081	ppbv #	1
34) 2-Butanone	2.580	43	135118	4.837	ppbv	97
39) 1,2-Dichloropropane	3.994	63	99113	7.126	ppbv #	23

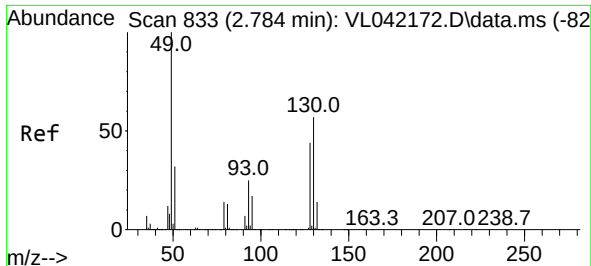
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041525\
Data File : VL042332.D
Acq On : 15 Apr 2025 15:01
Operator : SY/MD
Sample : Q1665-10DL2 100X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B10-4-3242025DL2

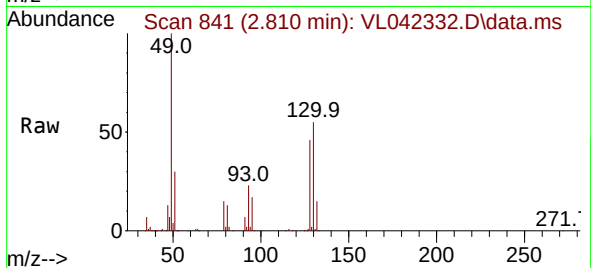
Quant Time: Apr 16 01:32:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration



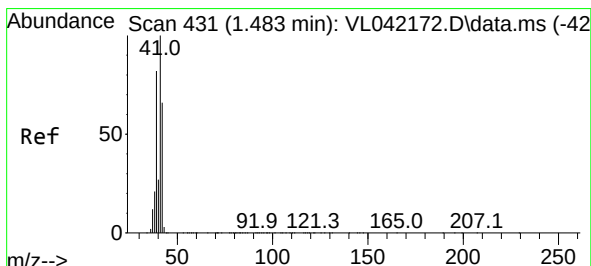
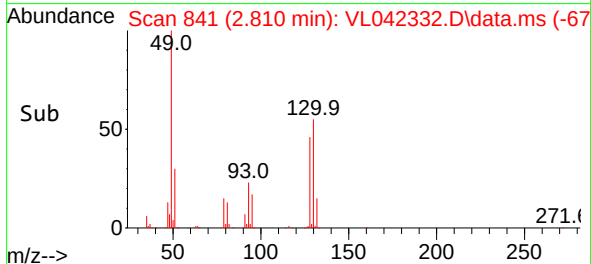
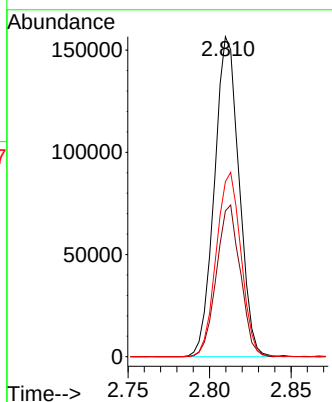


#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.810 min Scan# 841
Delta R.T. 0.026 min
Lab File: VL042332.D
Acq: 15 Apr 2025 15:01

Instrument :
MSVOA_1
ClientSampleId :
IA-B10-4-3242025DL2

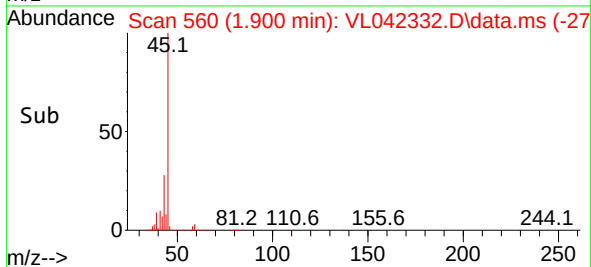
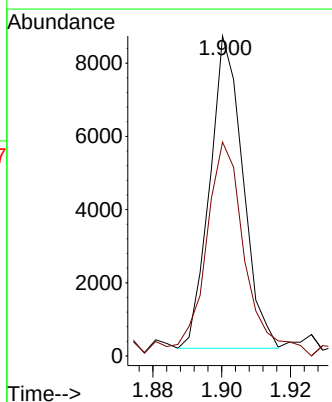
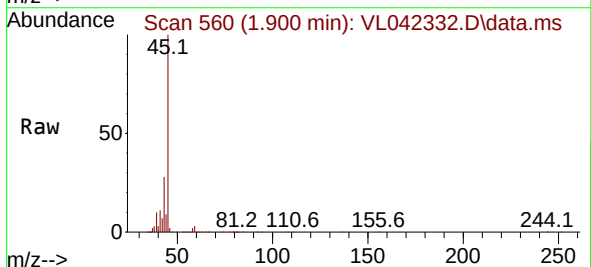


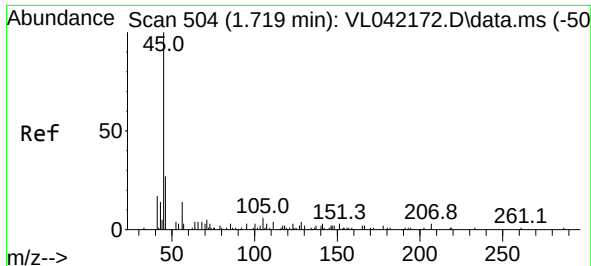
Tgt Ion: 49 Resp: 164444
Ion Ratio Lower Upper
49 100
128 46.1 22.9 68.5
130 57.7 28.8 86.4



#9
Propene
Concen: 0.502 ppbv
RT: 1.900 min Scan# 560
Delta R.T. 0.417 min
Lab File: VL042332.D
Acq: 15 Apr 2025 15:01

Tgt Ion: 41 Resp: 5702
Ion Ratio Lower Upper
41 100
42 70.7 55.4 83.2

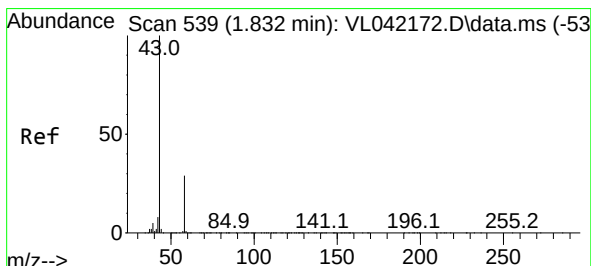
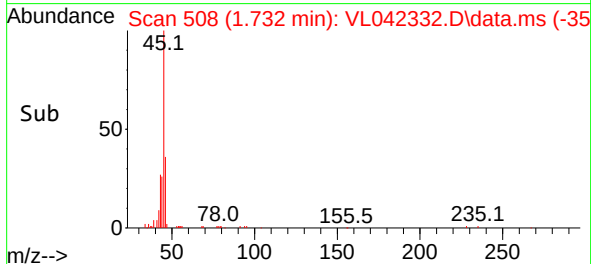
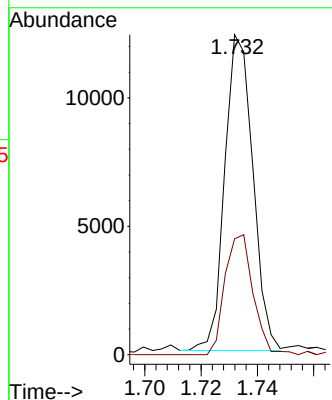
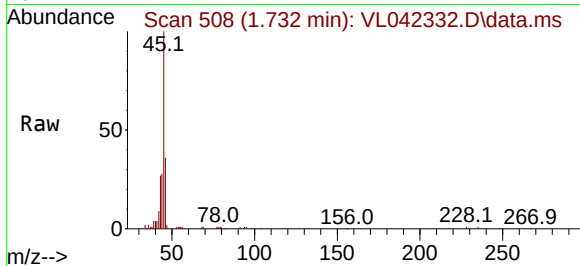




#13
Ethanol
Concen: 7.938 ppbv
RT: 1.732 min Scan# 504
Delta R.T. 0.013 min
Lab File: VL042332.D
Acq: 15 Apr 2025 15:01

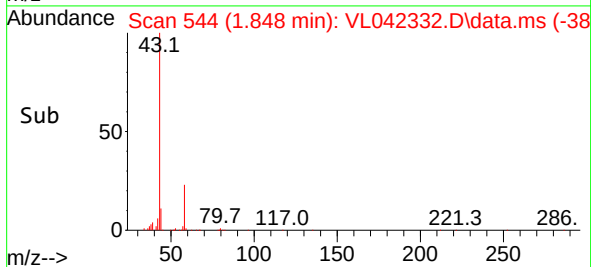
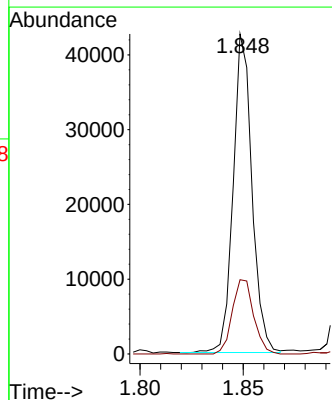
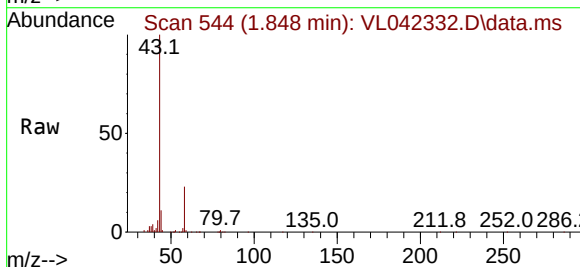
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-4-3242025DL2

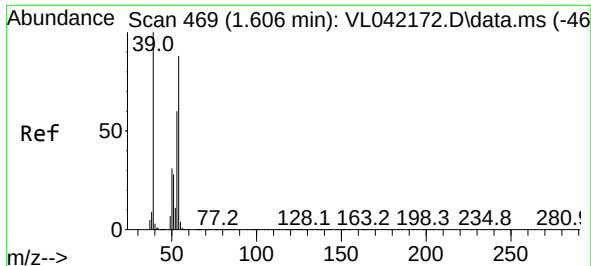
Tgt Ion: 45 Resp: 8531
Ion Ratio Lower Upper
45 100
46 39.0 20.2 80.8



#15
Acetone
Concen: 1.171 ppbv
RT: 1.848 min Scan# 544
Delta R.T. 0.016 min
Lab File: VL042332.D
Acq: 15 Apr 2025 15:01

Tgt Ion: 43 Resp: 26934
Ion Ratio Lower Upper
43 100
58 26.6 23.2 34.8





#16

1,3-Butadiene

Concen: 2.358 ppbv

RT: 1.499 min Scan# 41

Delta R.T. -0.107 min

Lab File: VL042332.D

Acq: 15 Apr 2025 15:01

Instrument :

MSVOA_L

ClientSampleId :

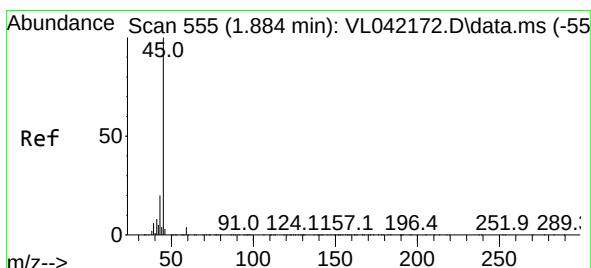
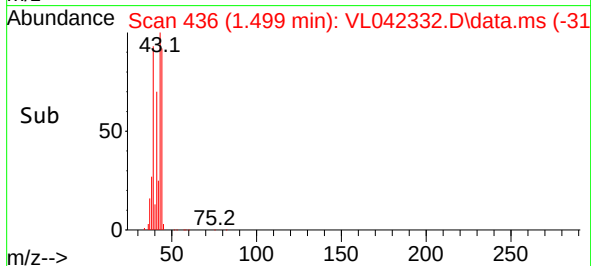
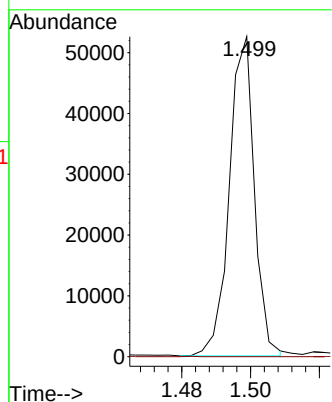
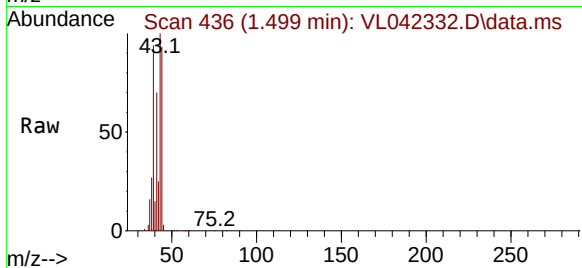
IA-B10-4-3242025DL2

Tgt Ion: 39 Resp: 26482

Ion Ratio Lower Upper

39 100

54 0.1 60.7 91.1#



#19

Isopropyl Alcohol

Concen: 4.259 ppbv

RT: 1.900 min Scan# 560

Delta R.T. 0.016 min

Lab File: VL042332.D

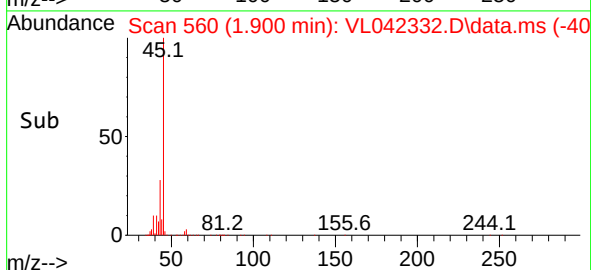
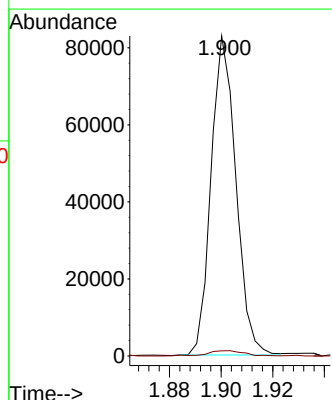
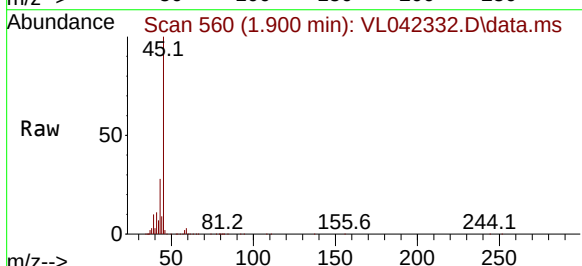
Acq: 15 Apr 2025 15:01

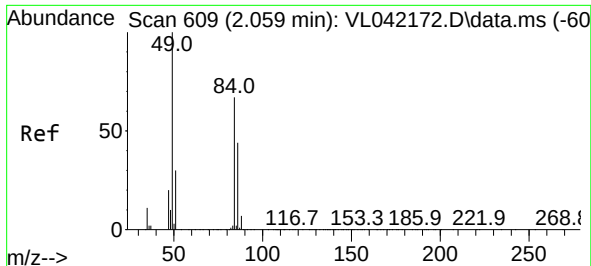
Tgt Ion: 45 Resp: 55262

Ion Ratio Lower Upper

45 100

58 2.5 36.9 55.3#

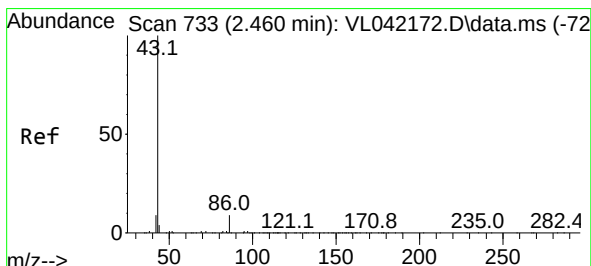
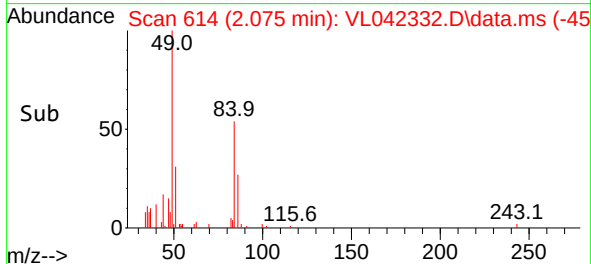
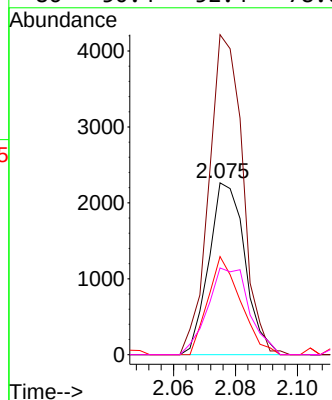
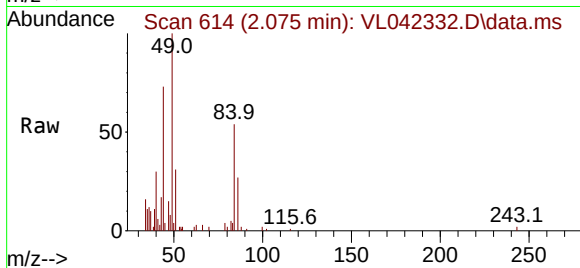




#20
Methylene Chloride
Concen: 0.213 ppbv
RT: 2.075 min Scan# 614
Delta R.T. 0.016 min
Lab File: VL042332.D
Acq: 15 Apr 2025 15:01

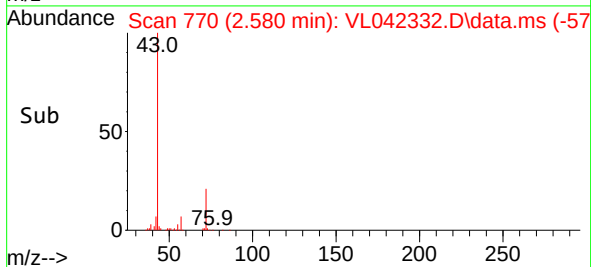
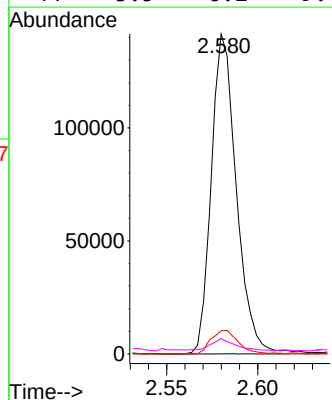
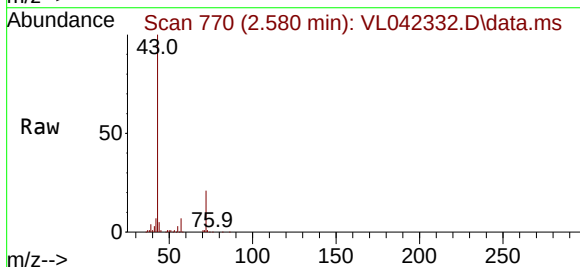
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-4-3242025DL2

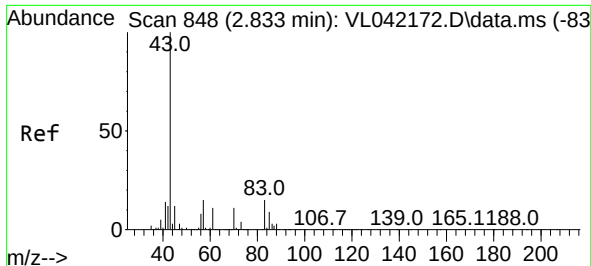
Tgt Ion:	84	Resp:	1828
Ion	Ratio	Lower	Upper
84	100		
49	182.7	120.2	180.4#
51	57.1	37.4	56.0#
86	50.4	52.4	78.6#



#23
Vinyl Acetate
Concen: 13.574 ppbv
RT: 2.580 min Scan# 770
Delta R.T. 0.120 min
Lab File: VL042332.D
Acq: 15 Apr 2025 15:01

Tgt Ion:	43	Resp:	135118
Ion	Ratio	Lower	Upper
43	100		
86	0.1	5.5	8.3#
42	7.2	8.6	13.0#
44	3.5	6.2	9.4#

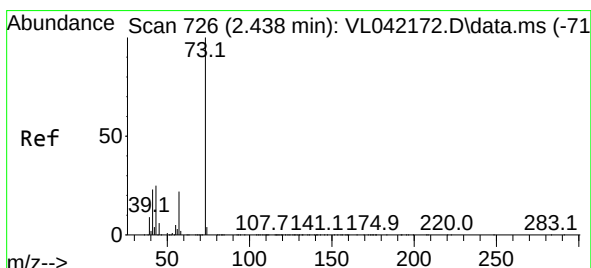
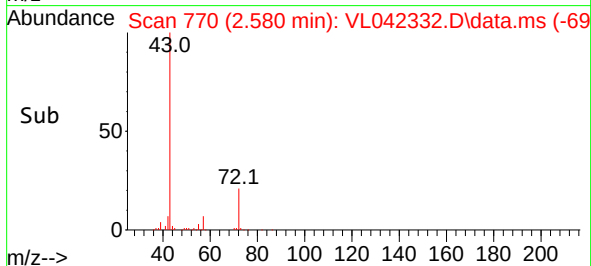
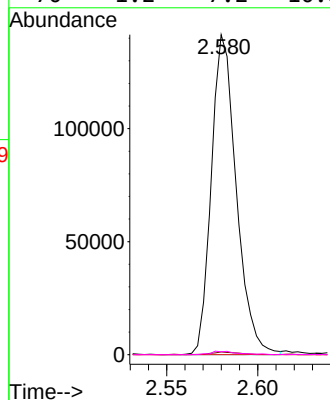
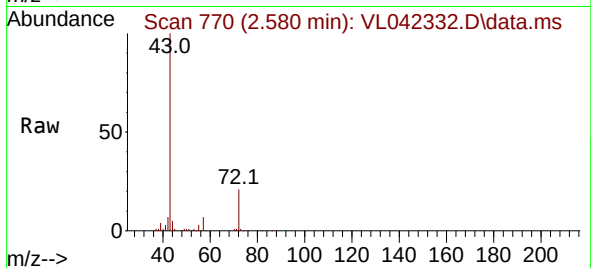




#25
Ethyl Acetate
Concen: 2.264 ppbv
RT: 2.580 min Scan# 711
Delta R.T. -0.253 min
Lab File: VL042332.D
Acq: 15 Apr 2025 15:01

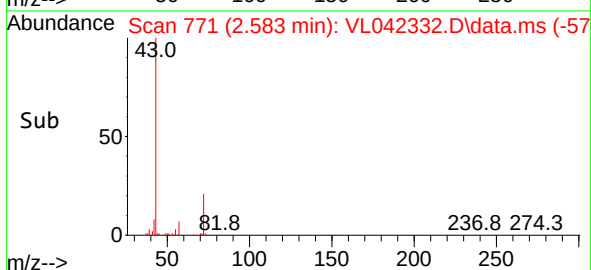
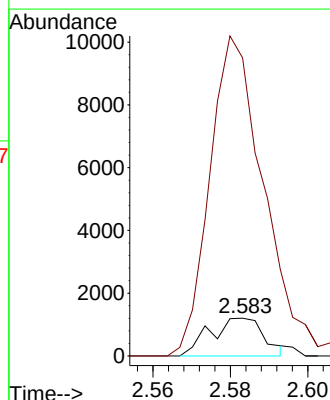
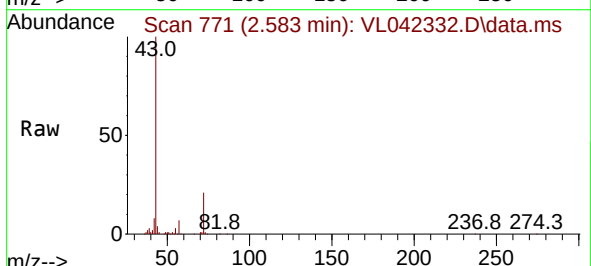
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-4-3242025DL2

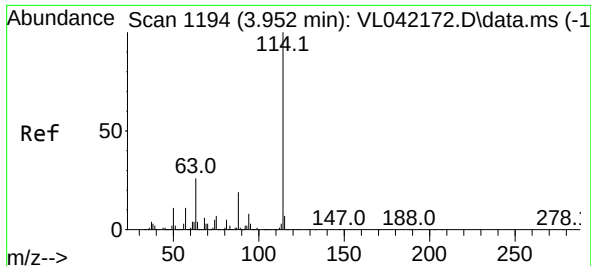
Tgt Ion: 43	Resp: 135118
Ion Ratio	Lower Upper
43 100	
45 1.1	8.2 12.2#
61 0.0	7.3 10.9#
70 1.2	7.2 10.8#



#28
Methyl tert-Butyl Ether
Concen: 0.081 ppbv
RT: 2.583 min Scan# 771
Delta R.T. 0.146 min
Lab File: VL042332.D
Acq: 15 Apr 2025 15:01

Tgt Ion: 73	Resp: 1168		
Ion Ratio	Lower	Upper	
73 100			
57 849.7	20.5	30.7#	





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.998 min Scan# 11

Delta R.T. 0.045 min

Lab File: VL042332.D

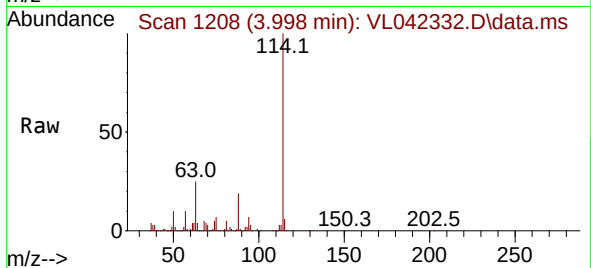
Acq: 15 Apr 2025 15:01

Instrument :

MSVOA_L

ClientSampleId :

IA-B10-4-3242025DL2



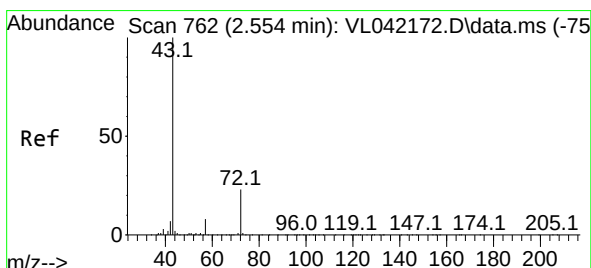
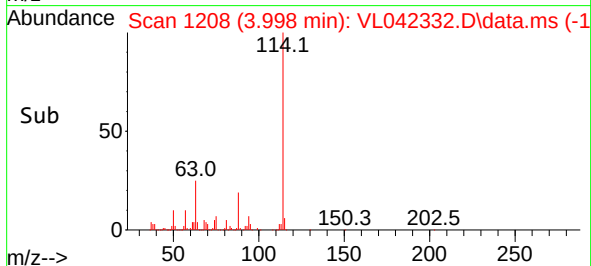
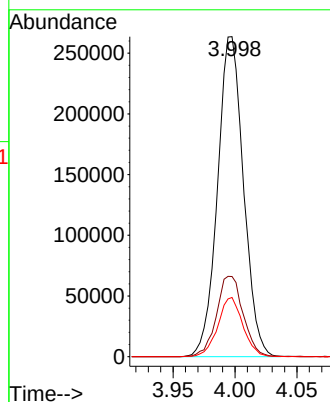
Tgt Ion:114 Resp: 385228

Ion Ratio Lower Upper

114 100

63 25.9 20.7 31.1

88 17.9 15.0 22.4



#34

2-Butanone

Concen: 4.837 ppbv

RT: 2.580 min Scan# 770

Delta R.T. 0.026 min

Lab File: VL042332.D

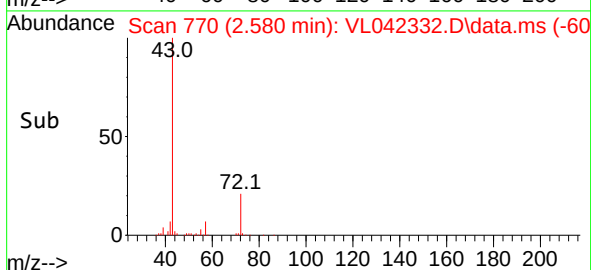
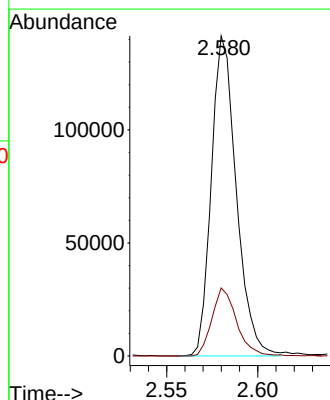
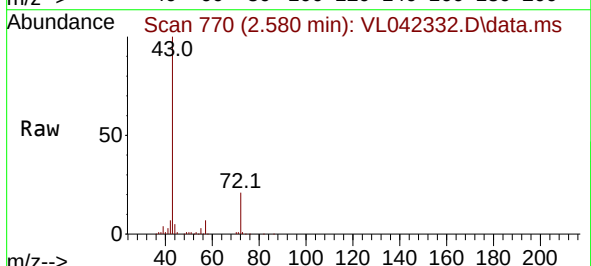
Acq: 15 Apr 2025 15:01

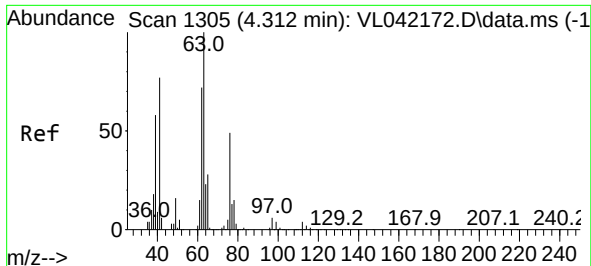
Tgt Ion: 43 Resp: 135118

Ion Ratio Lower Upper

43 100

72 21.0 18.2 27.2





#39

1,2-Dichloropropane

Concen: 7.126 ppbv

RT: 3.994 min Scan# 11

Delta R.T. -0.317 min

Lab File: VL042332.D

Acq: 15 Apr 2025 15:01

Instrument :

MSVOA_L

ClientSampleId :

IA-B10-4-3242025DL2

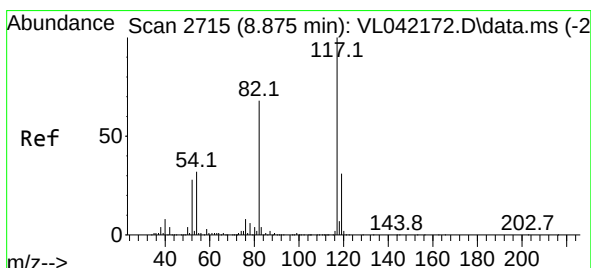
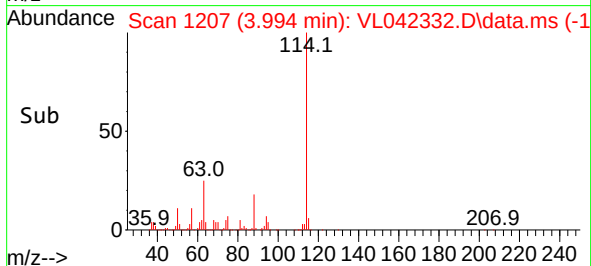
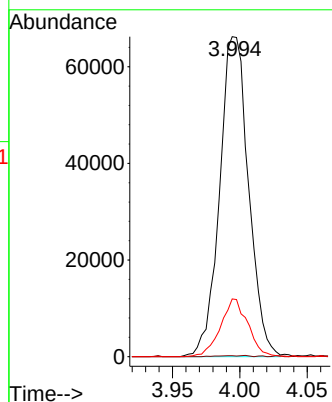
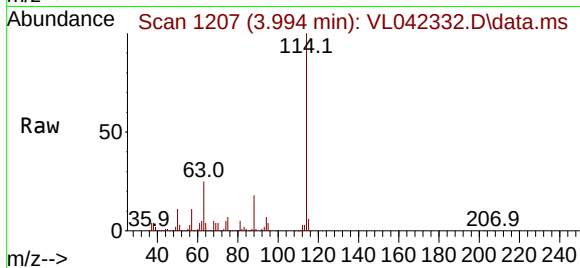
Tgt Ion: 63 Resp: 99113

Ion Ratio Lower Upper

63 100

41 0.6 61.7 92.5#

62 18.1 57.6 86.4#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.917 min Scan# 2728

Delta R.T. 0.042 min

Lab File: VL042332.D

Acq: 15 Apr 2025 15:01

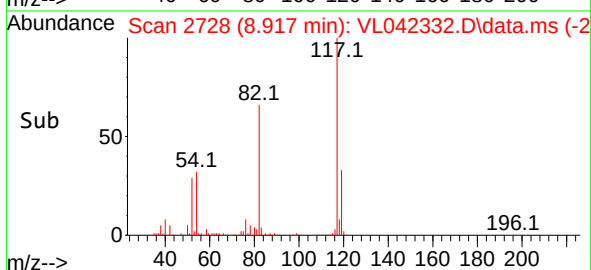
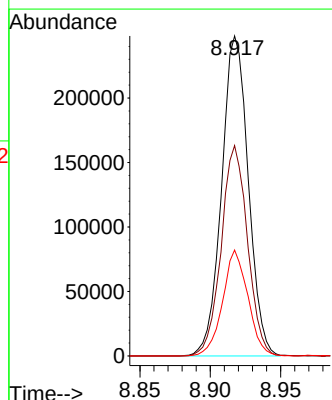
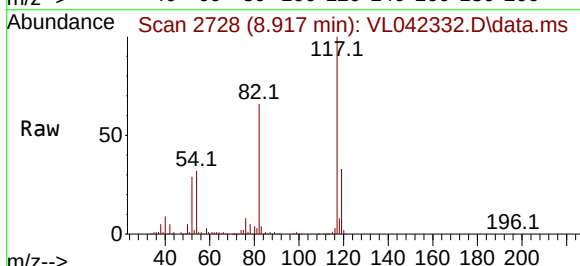
Tgt Ion: 117 Resp: 327587

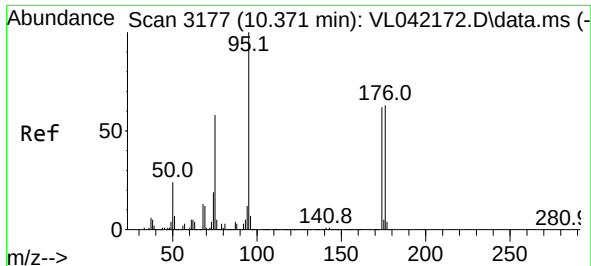
Ion Ratio Lower Upper

117 100

82 64.9 55.8 83.6

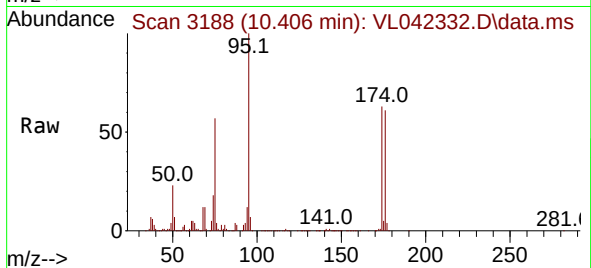
119 31.5 25.5 38.3



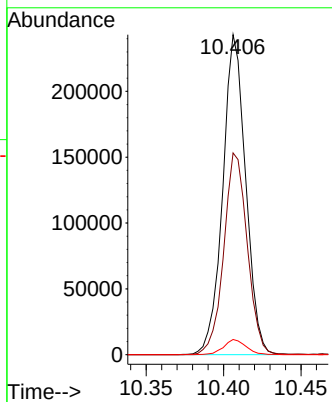
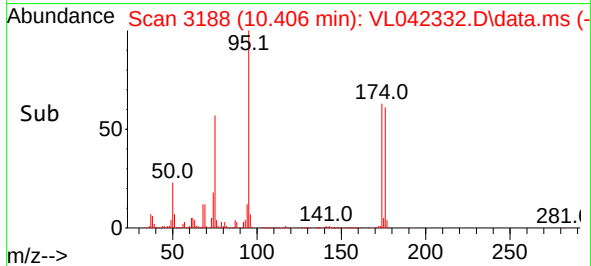


#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.330 ppbv
 RT: 10.406 min Scan# 31
 Delta R.T. 0.035 min
 Lab File: VL042332.D
 Acq: 15 Apr 2025 15:01

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B10-4-3242025DL2



Tgt Ion: 95 Resp: 251001
 Ion Ratio Lower Upper
 95 100
 174 64.9 50.6 76.0
 175 4.6 3.8 5.6



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

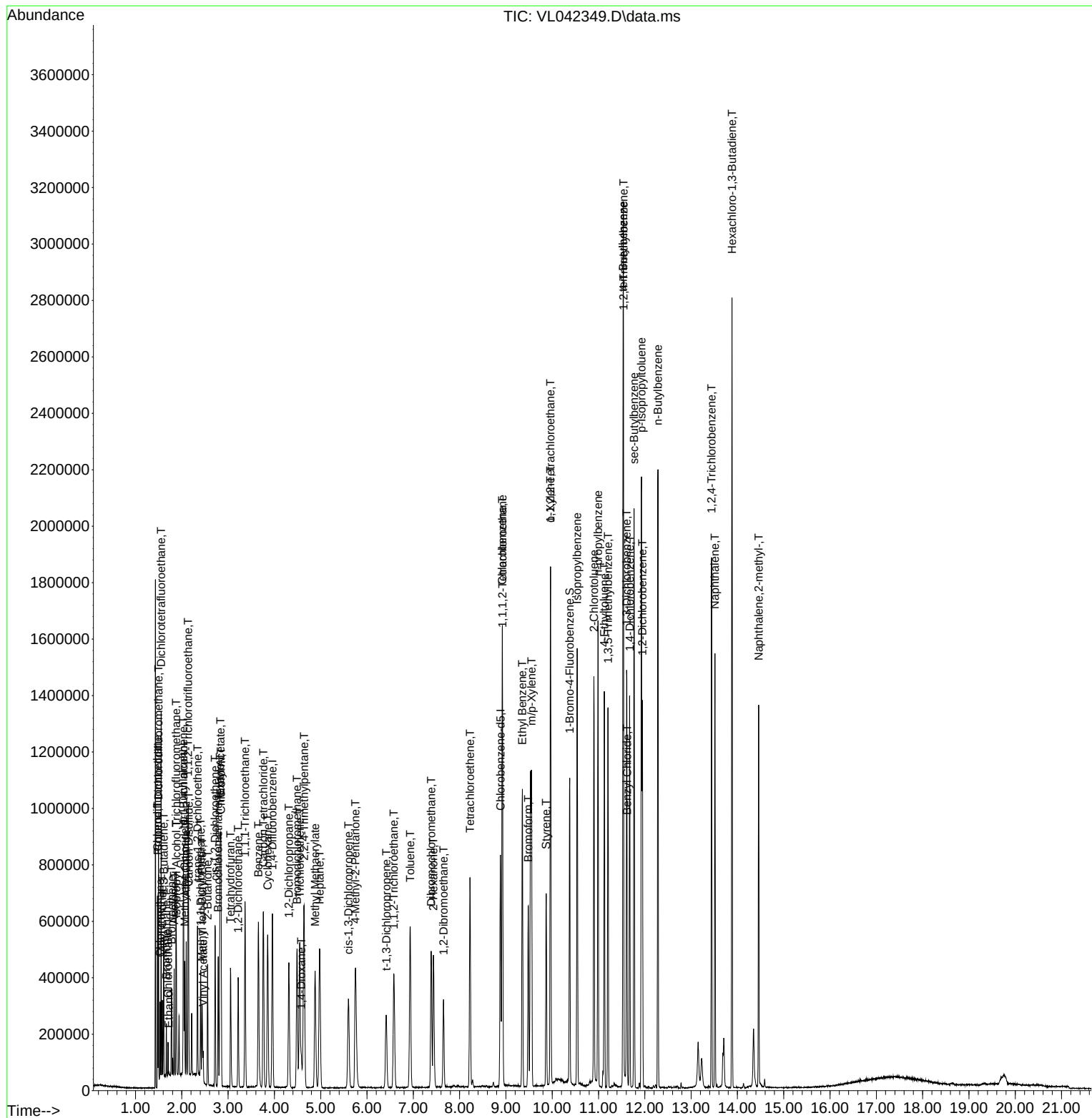
Quant Time: Apr 18 01:25:08 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 01:24:29 2025
 Response via : Initial Calibration

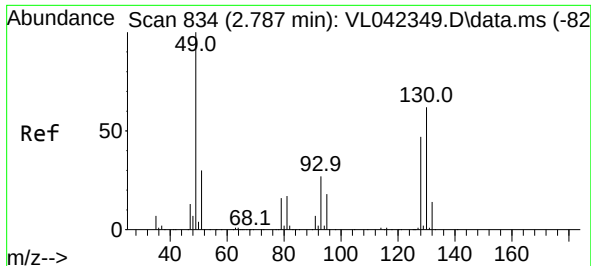
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.600	75	208811	9.377	ppbv	100
47) 1,1,2-Trichloroethane	6.580	97	137898	9.181	ppbv	100
48) Dibromochloromethane	7.386	129	248954	9.388	ppbv	100
49) Bromoform	9.480	173	225706	9.734	ppbv	100
50) 4-Methyl-2-Pentanone	5.752	43	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

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

- 1
- 2
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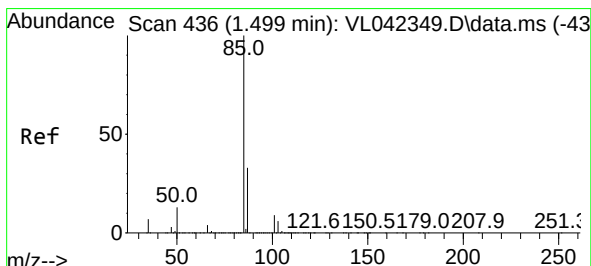
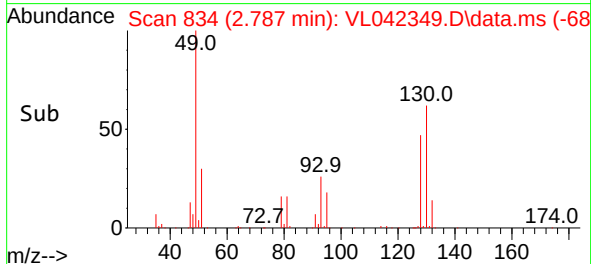
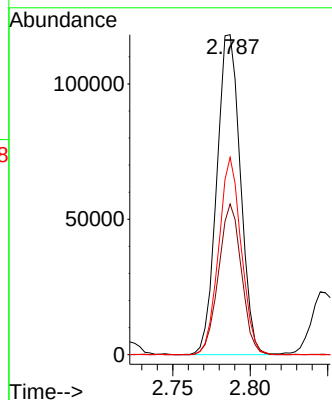
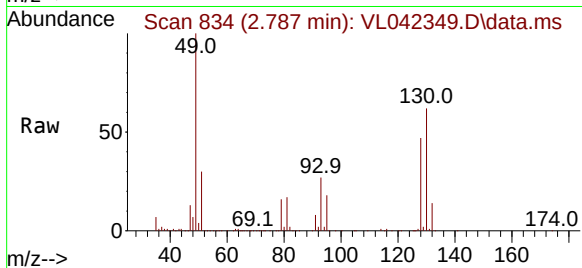




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 834
Delta R.T. -0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

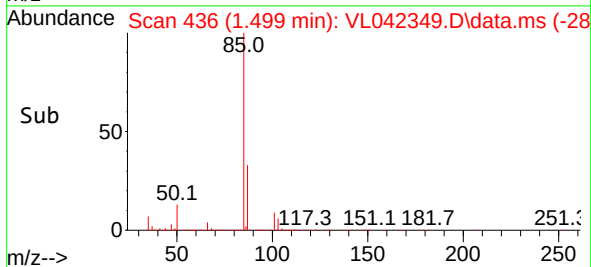
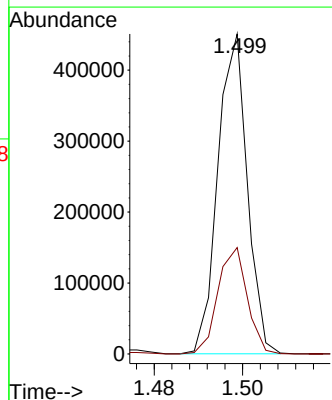
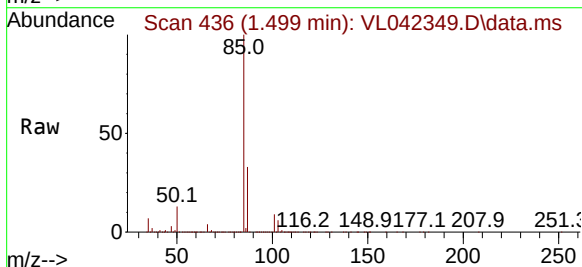
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

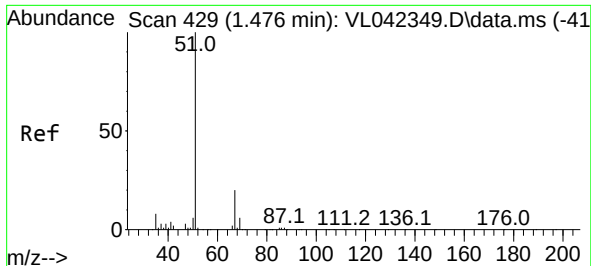
Tgt Ion: 49 Resp: 125455
Ion Ratio Lower Upper
49 100
128 45.6 22.8 68.4
130 58.7 29.3 88.0



#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

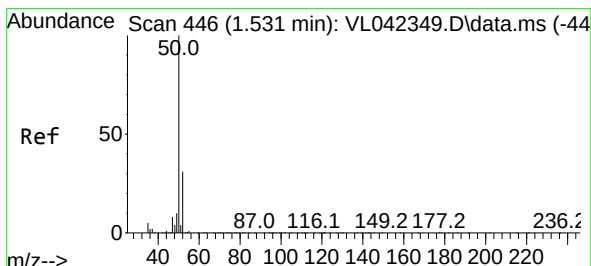
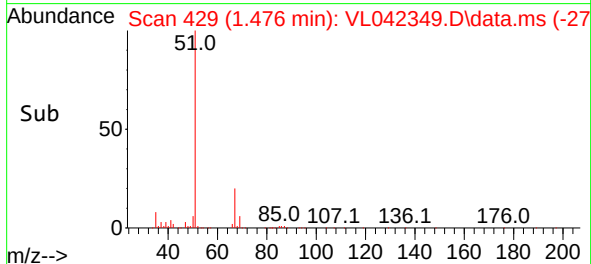
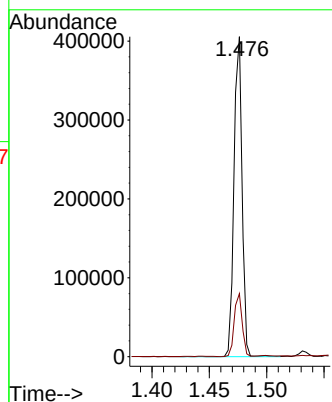
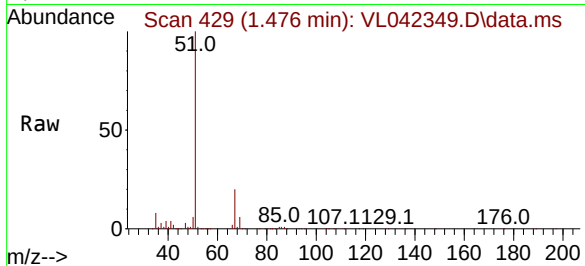




#3
Chlorodifluoromethane
Concen: 9.350 ppbv
RT: 1.476 min Scan# 429
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

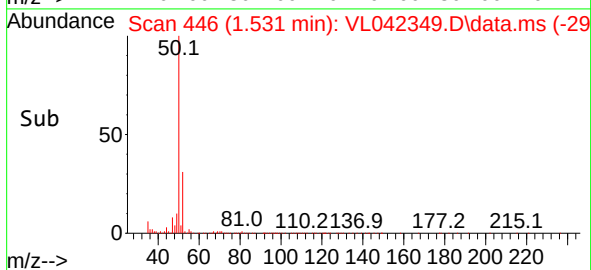
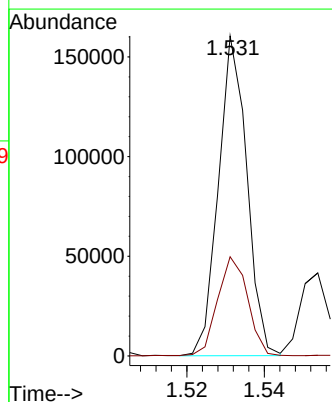
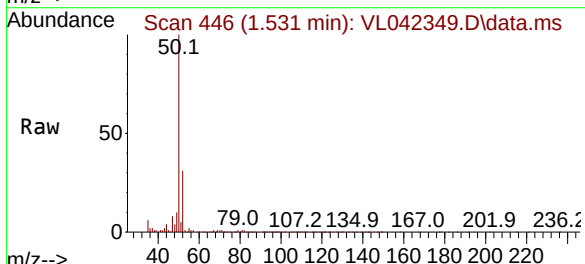
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

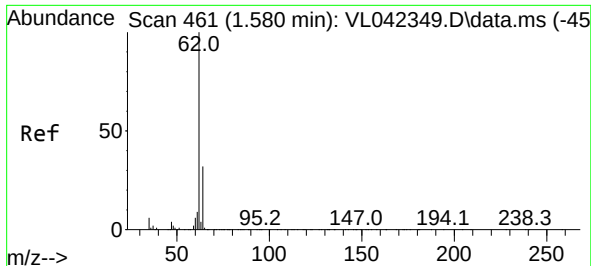
Tgt Ion: 51 Resp: 197334
Ion Ratio Lower Upper
51 100
67 20.3 16.2 24.4



#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

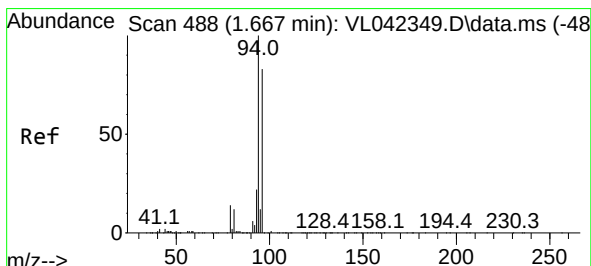
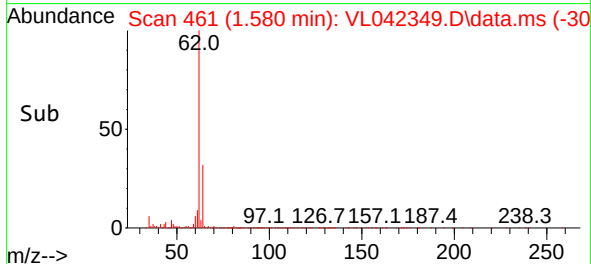
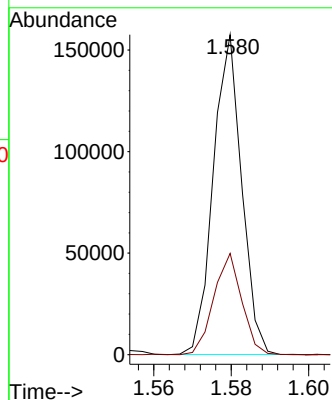
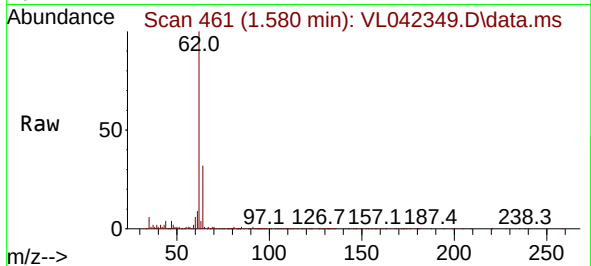




#5
Vinyl Chloride
Concen: 8.385 ppbv
RT: 1.580 min Scan# 461
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

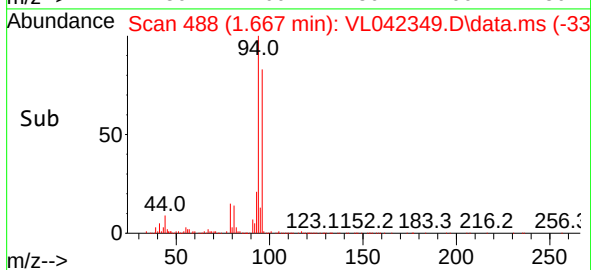
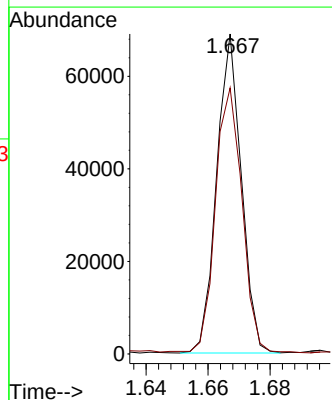
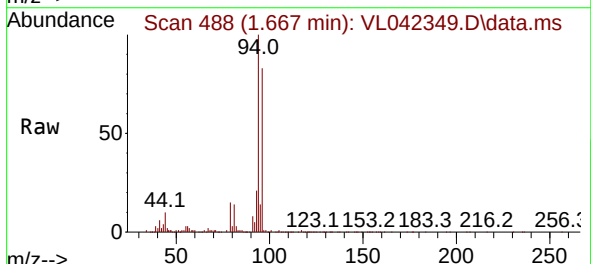
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

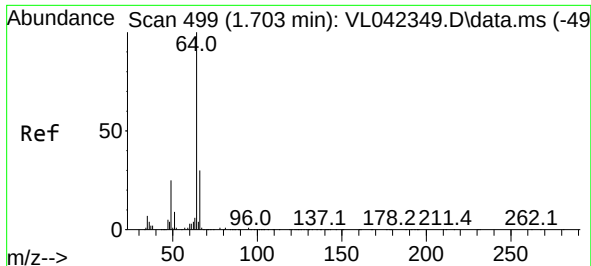
Tgt Ion: 62 Resp: 80068
Ion Ratio Lower Upper
62 100
64 31.7 25.4 38.0



#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

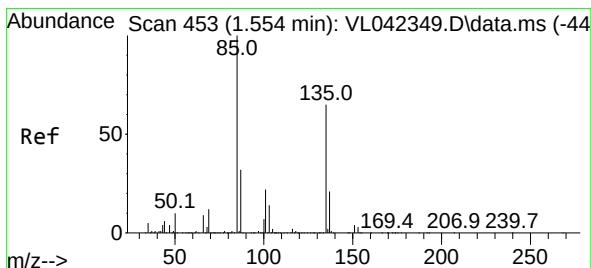
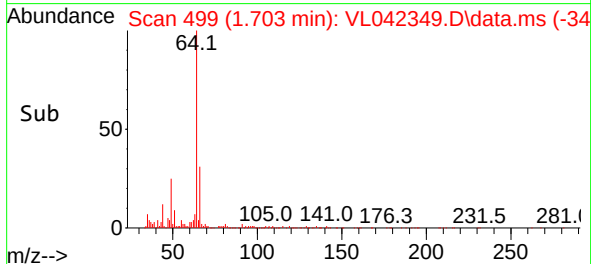
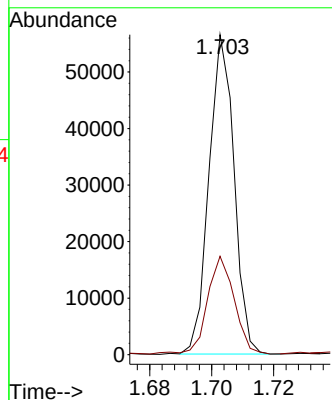
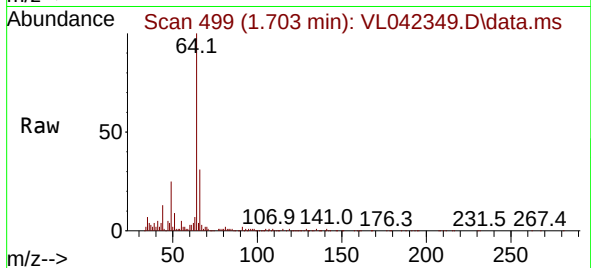




#7
Chloroethane
Concen: 9.182 ppbv
RT: 1.703 min Scan# 499
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

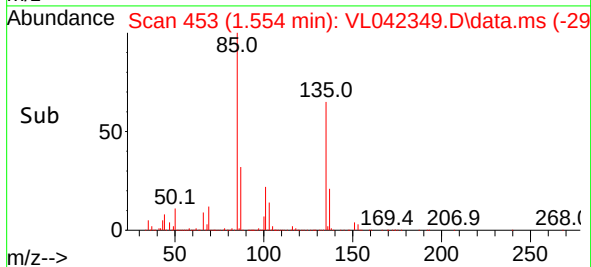
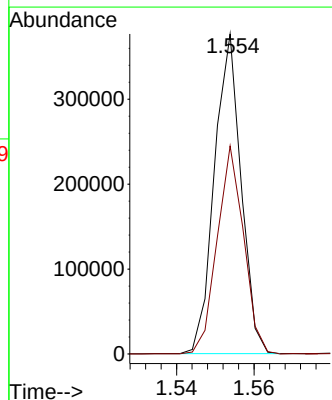
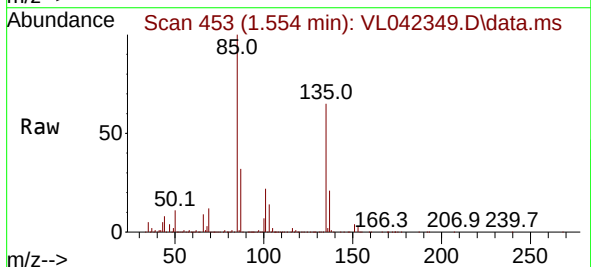
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

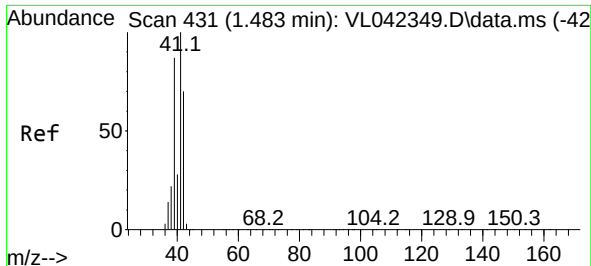
Tgt Ion: 64 Resp: 31705
Ion Ratio Lower Upper
64 100
66 30.8 24.6 37.0



#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 :

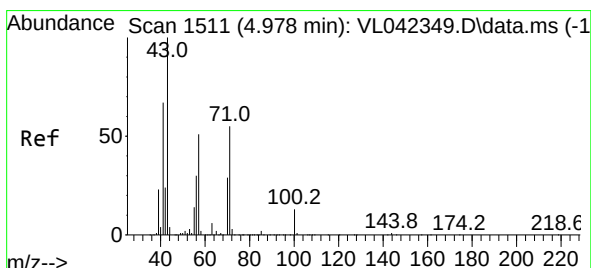
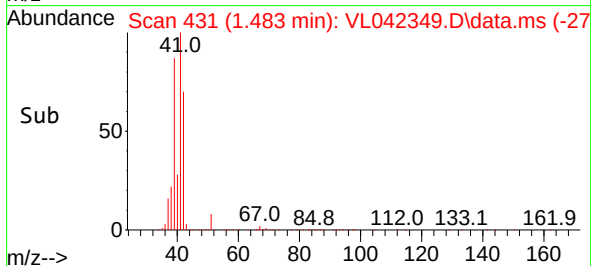
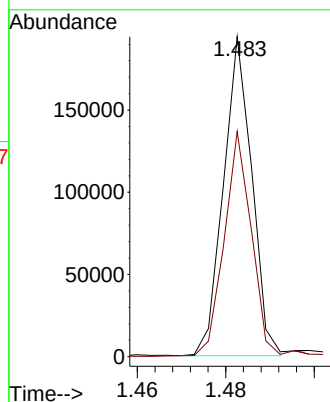
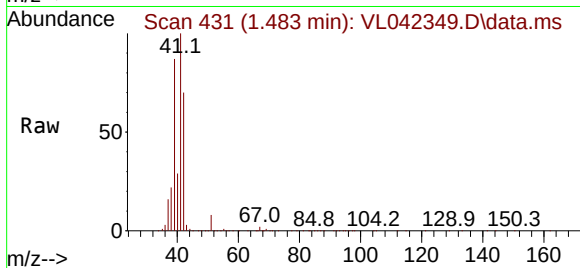
VSTDICCC010

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

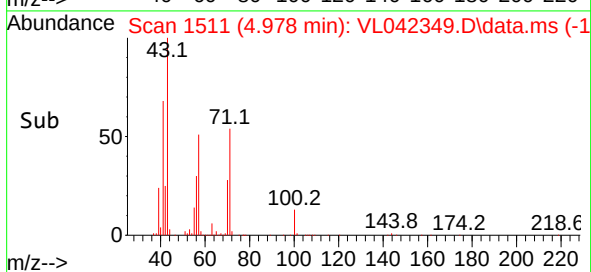
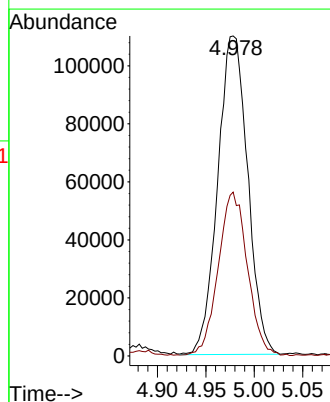
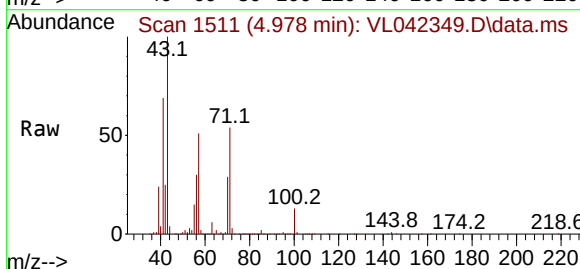
Acq: 17 Apr 2025 09:44

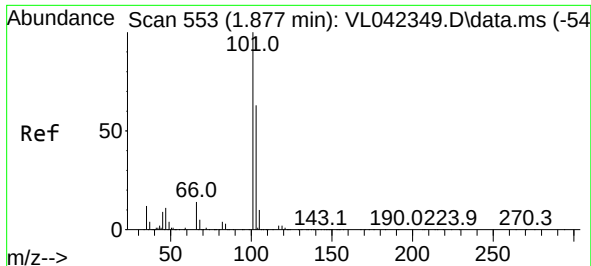
Tgt Ion: 43 Resp: 236341

Ion Ratio Lower Upper

43 100

57 49.9 39.9 59.9

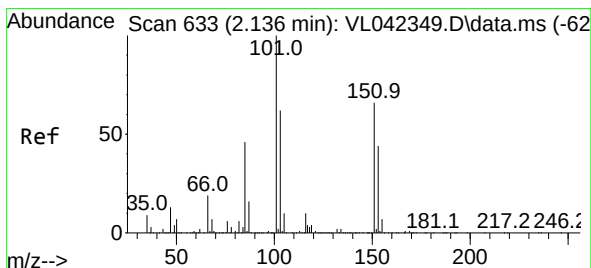
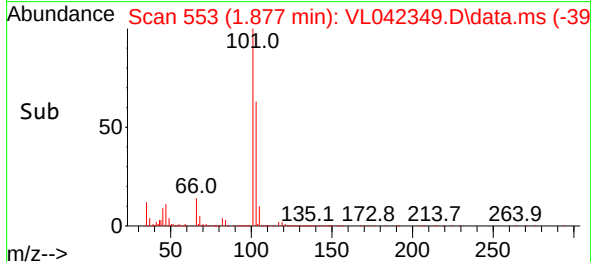
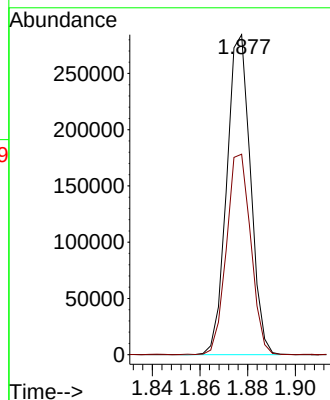
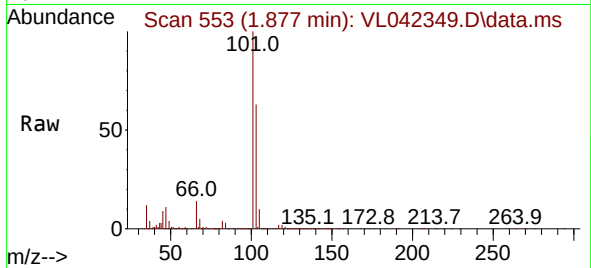




#11
Trichlorofluoromethane
Concen: 9.327 ppbv
RT: 1.877 min Scan# 511
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

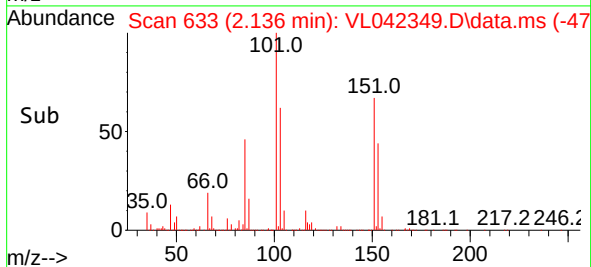
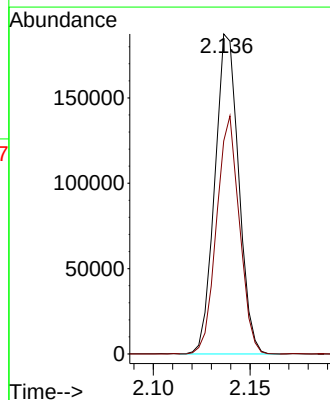
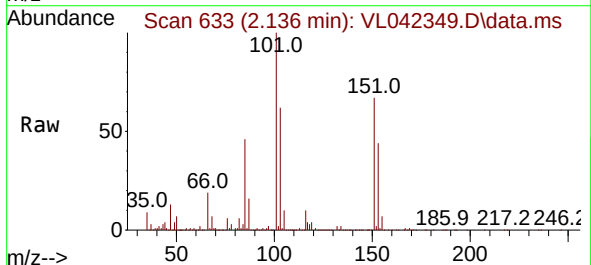
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

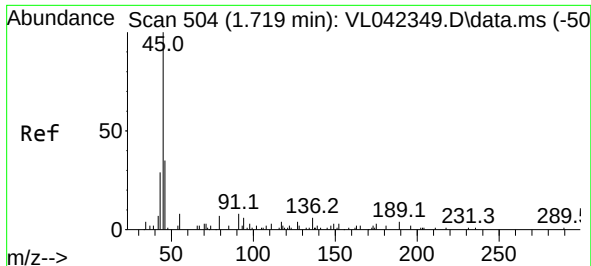
Tgt Ion:101 Resp: 196596
Ion Ratio Lower Upper
101 100
103 62.6 50.1 75.1



#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

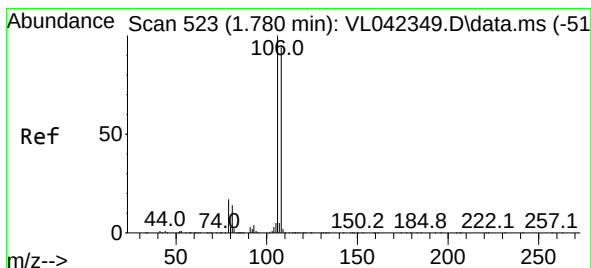
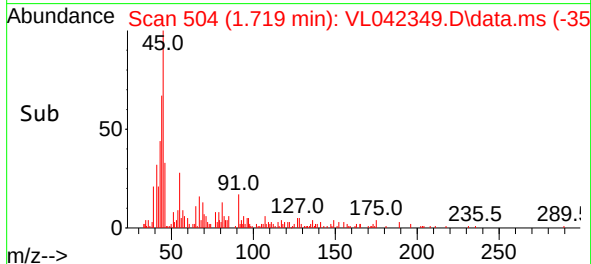
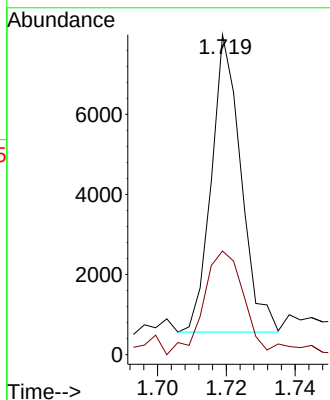
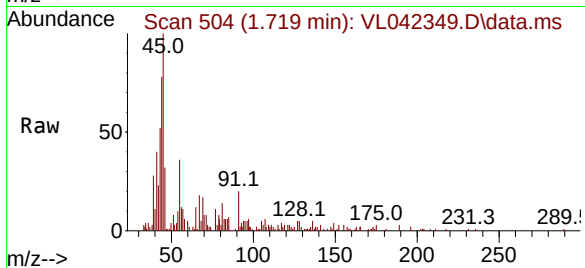




#13
Ethanol
Concen: 5.651 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

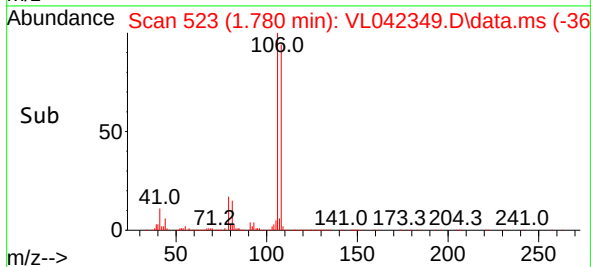
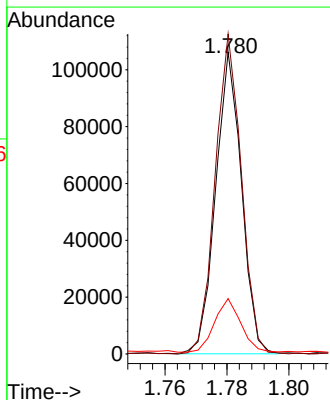
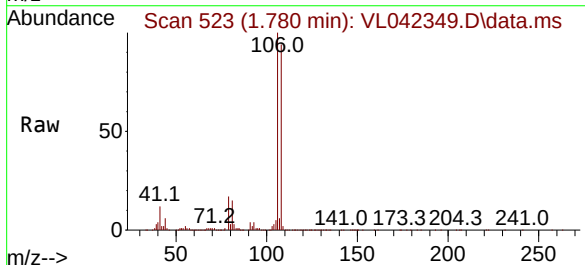
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

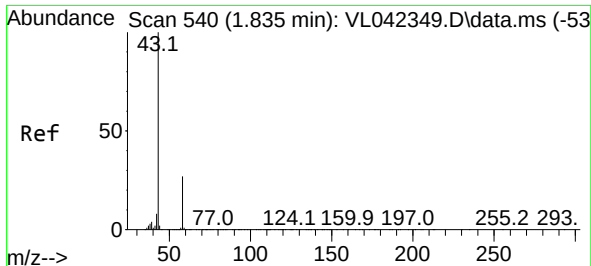
Tgt Ion: 45 Resp: 4439
Ion Ratio Lower Upper
45 100
46 54.8 21.9 87.7



#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

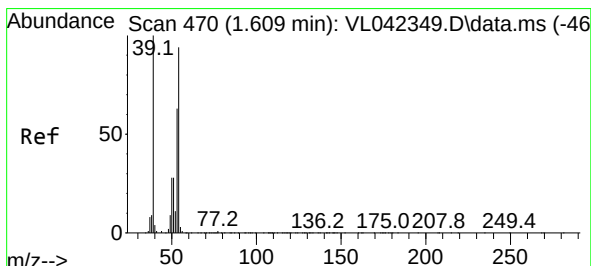
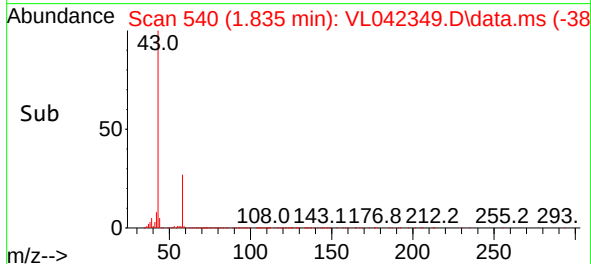
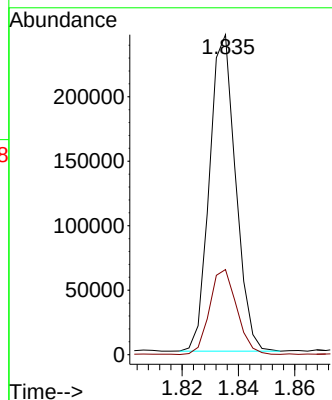
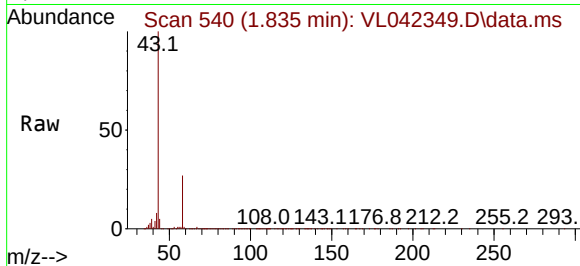




#15
Acetone
Concen: 7.717 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

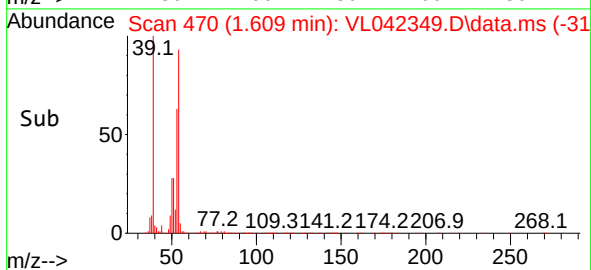
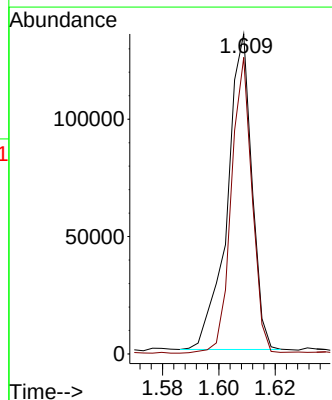
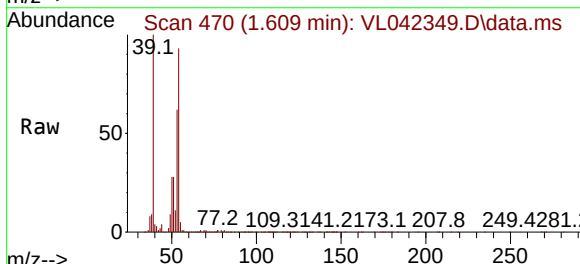
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

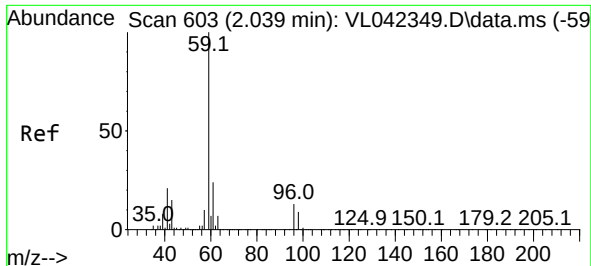
Tgt Ion: 43 Resp: 158490
Ion Ratio Lower Upper
43 100
58 28.0 22.4 33.6



#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

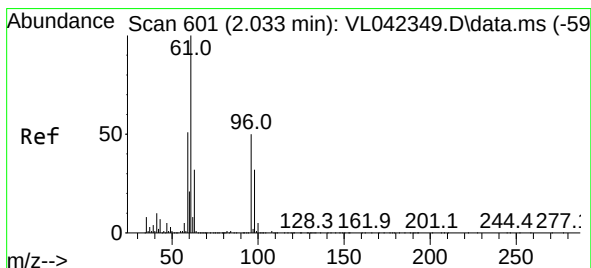
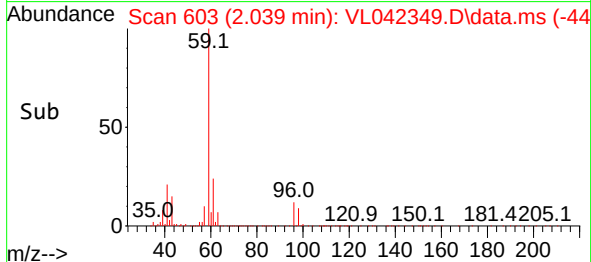
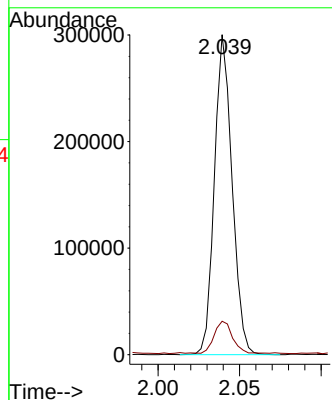
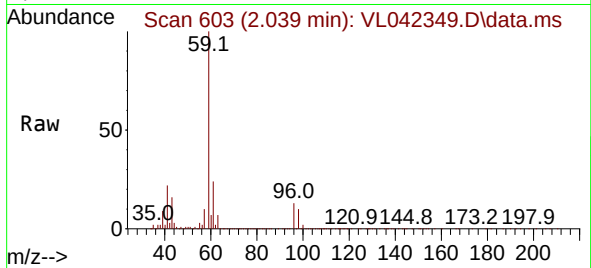




#17
 tert-Butyl alcohol
 Concen: 8.891 ppbv
 RT: 2.039 min Scan# 603
 Delta R.T. 0.000 min
 Lab File: VL042349.D
 Acq: 17 Apr 2025 09:44

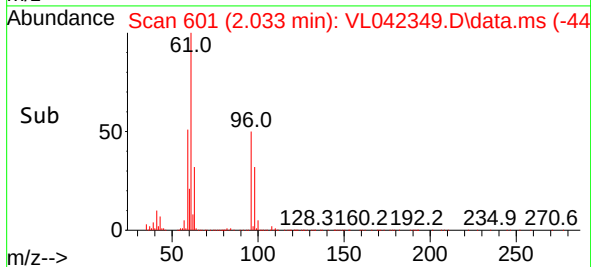
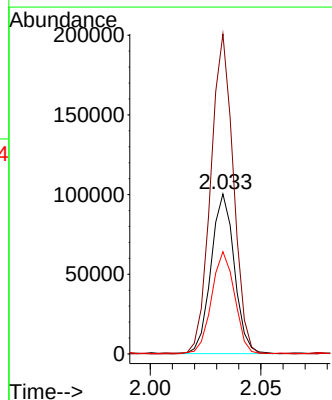
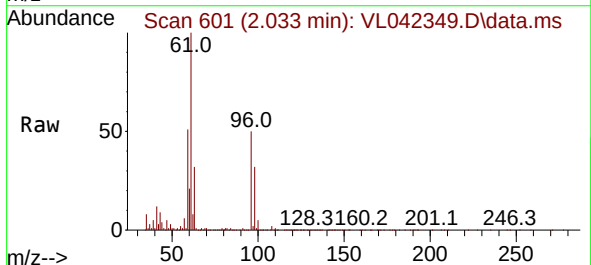
Instrument : MSVOA_1
 ClientSampleId : VSTDICCC010

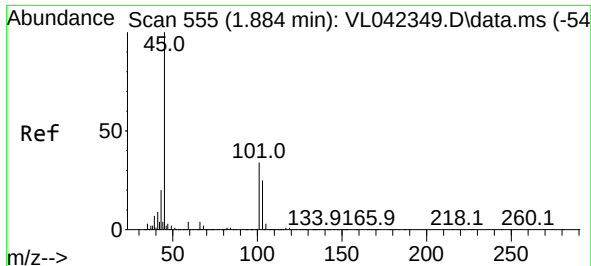
Tgt Ion: 59 Resp: 226280
 Ion Ratio Lower Upper
 59 100
 57 10.9 8.7 13.1



#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

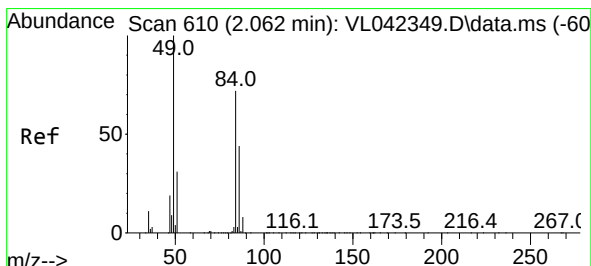
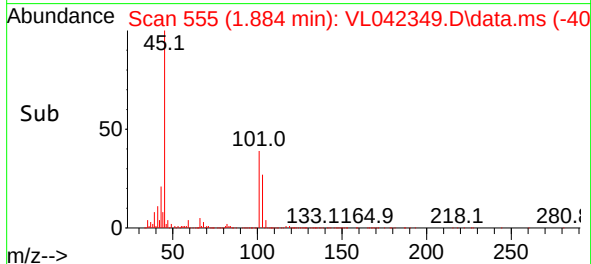
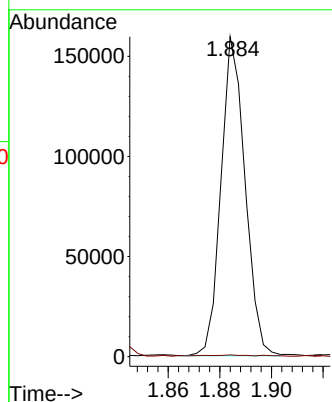
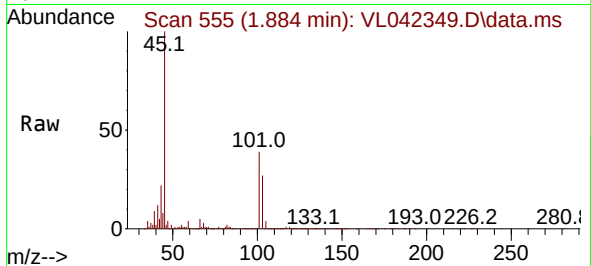




#19
Isopropyl Alcohol
Concen: 9.031 ppbv
RT: 1.884 min Scan# 511
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

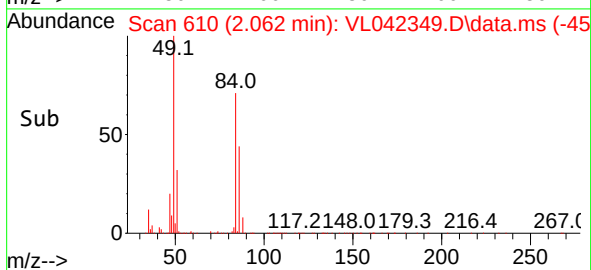
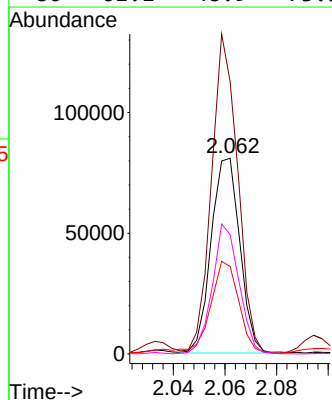
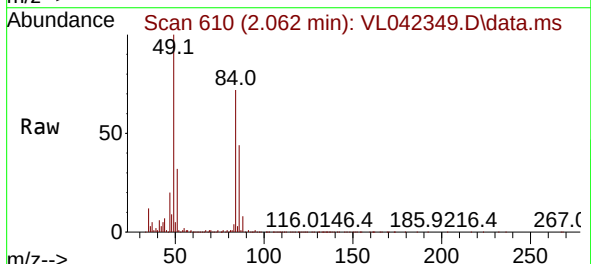
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

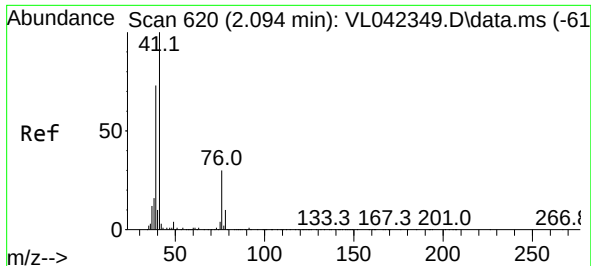
Tgt Ion: 45 Resp: 103029
Ion Ratio Lower Upper
45 100
58 43.1 34.5 51.7



#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

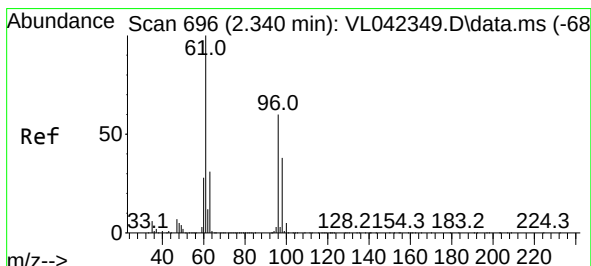
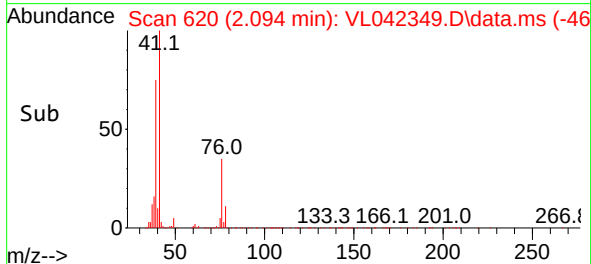
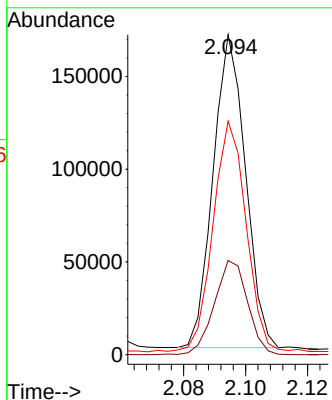
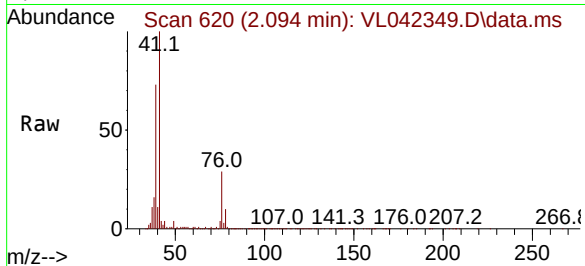




#21
 Allyl Chloride
 Concen: 8.611 ppbv
 RT: 2.094 min Scan# 61
 Delta R.T. 0.000 min
 Lab File: VL042349.D
 Acq: 17 Apr 2025 09:44

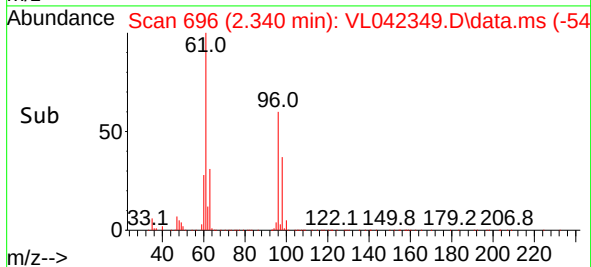
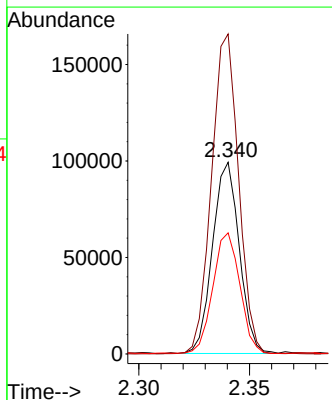
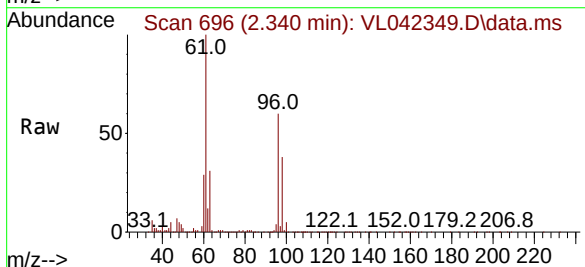
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

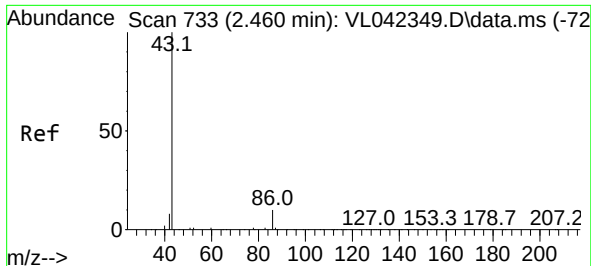
Tgt Ion: 41 Resp: 122115
 Ion Ratio Lower Upper
 41 100
 76 31.0 24.8 37.2
 39 75.7 60.6 90.8



#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

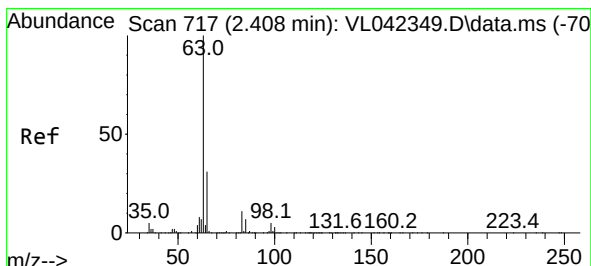
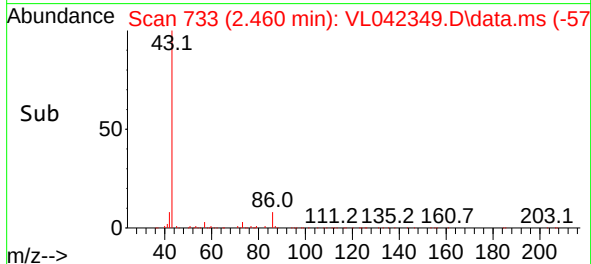
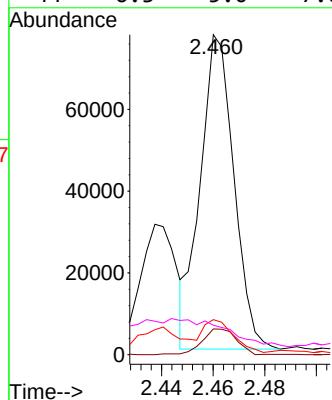
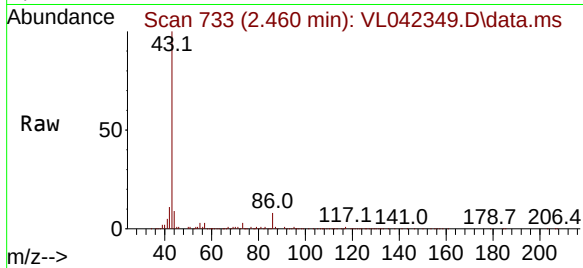




#23
 Vinyl Acetate
 Concen: 8.378 ppbv
 RT: 2.460 min Scan# 717
 Delta R.T. 0.000 min
 Lab File: VL042349.D
 Acq: 17 Apr 2025 09:44

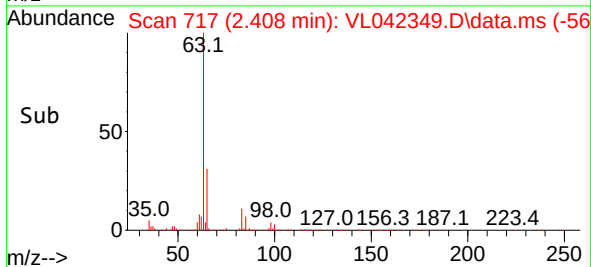
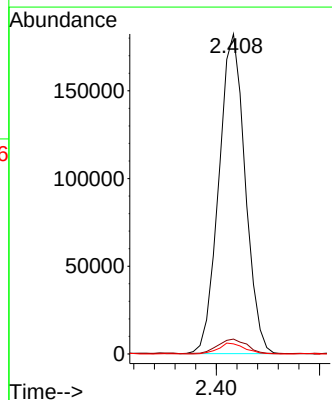
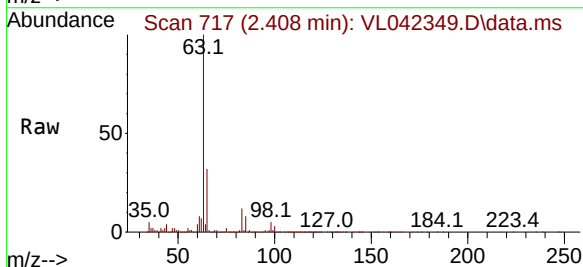
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

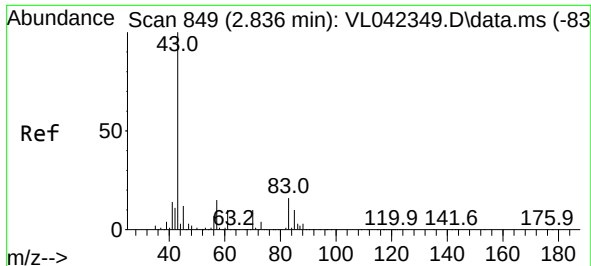
Tgt Ion:	43	Resp:	69649
Ion Ratio	Lower	Upper	
43	100		
86	8.1	6.5	9.7
42	9.8	7.8	11.8
44	6.3	5.0	7.6



#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



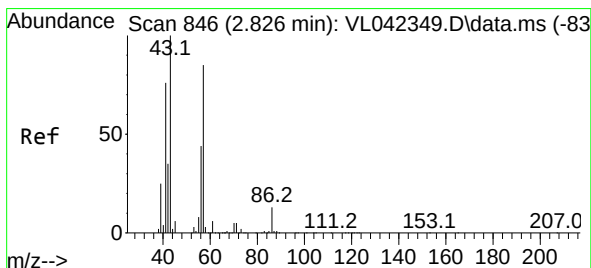
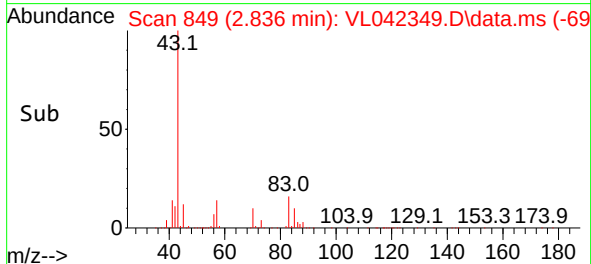
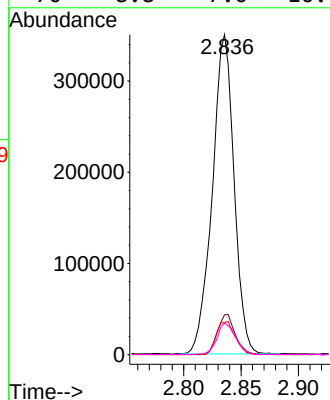
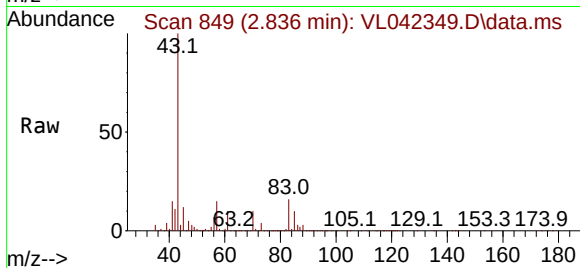


#25
Ethyl Acetate
Concen: 9.110 ppbv
RT: 2.836 min Scan# 849
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

Tgt Ion: 43 Resp: 461315

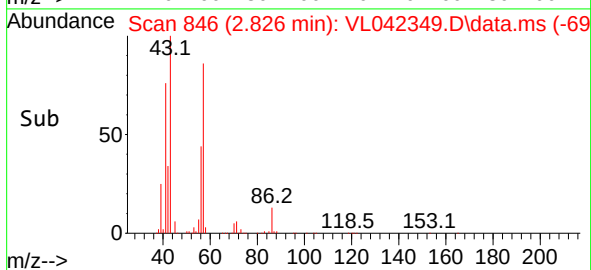
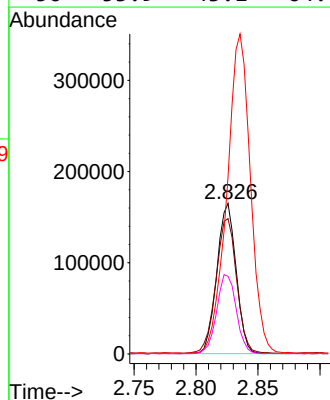
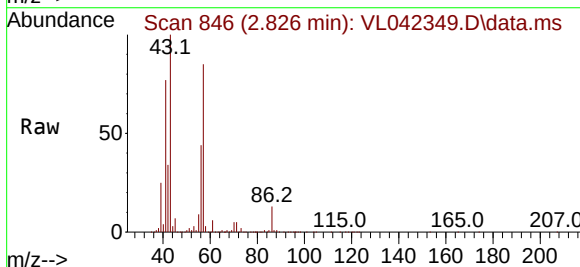
Ion	Ratio	Lower	Upper
43	100		
45	10.4	8.3	12.5
61	9.1	7.3	10.9
70	8.8	7.0	10.6

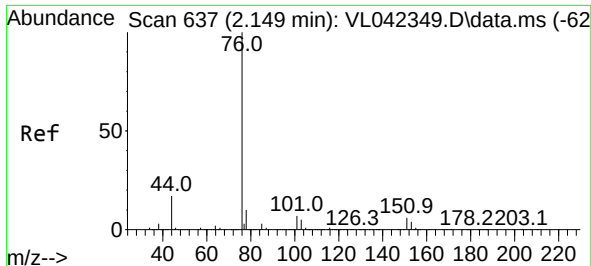


#26
Hexane
Concen: 8.720 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

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

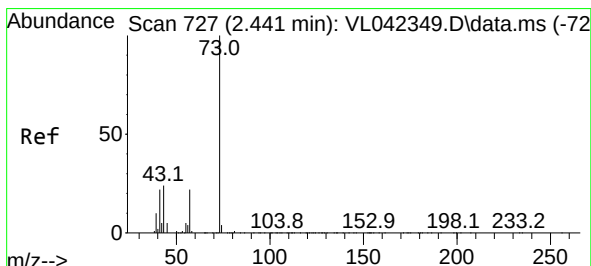
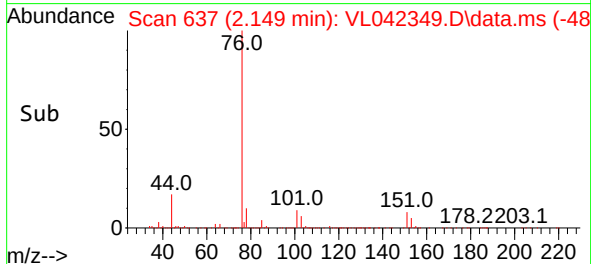
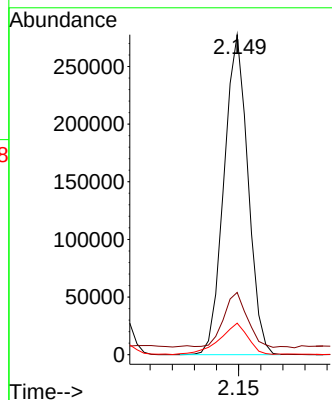
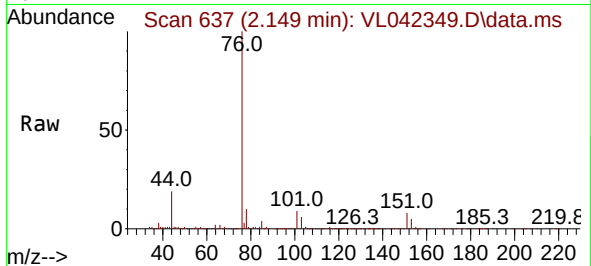




#27
Carbon Disulfide
Concen: 9.539 ppbv
RT: 2.149 min Scan# 61
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

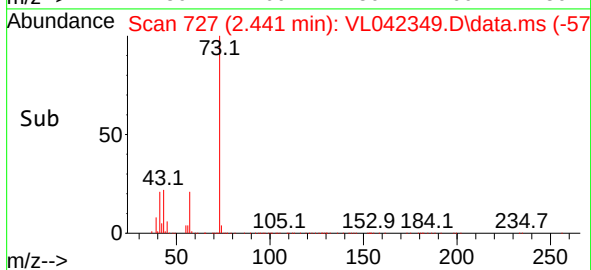
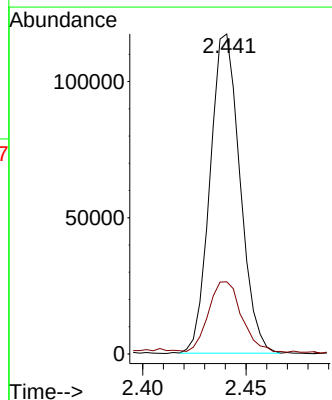
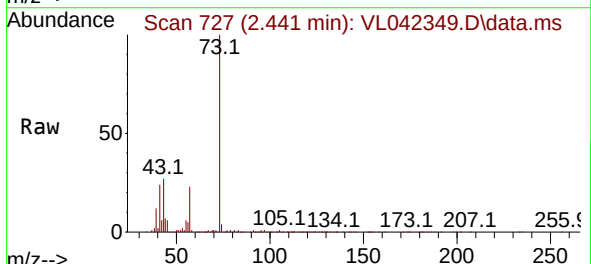
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

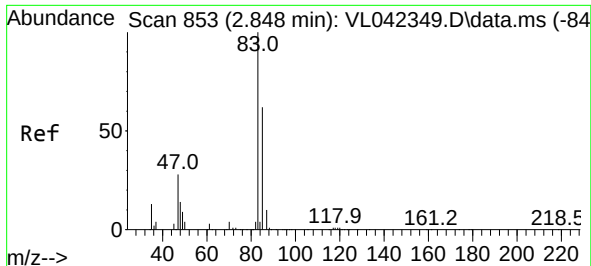
Tgt Ion: 76 Resp: 209297
Ion Ratio Lower Upper
76 100
44 19.4 15.5 23.3
78 11.6 9.3 13.9



#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 :

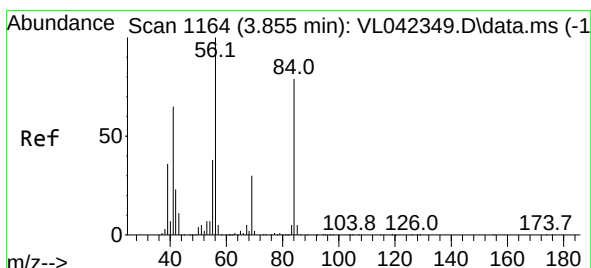
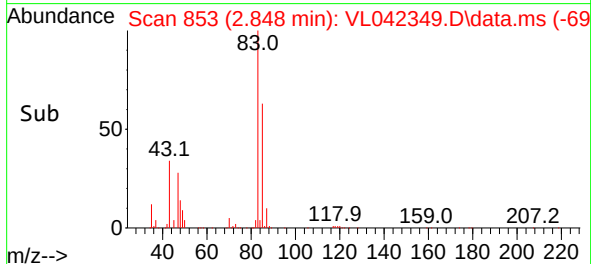
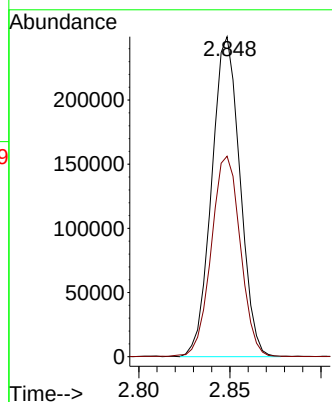
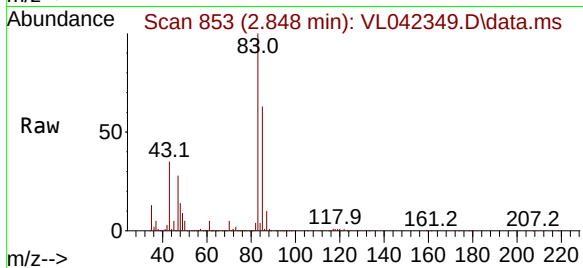
VSTDICCC010

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

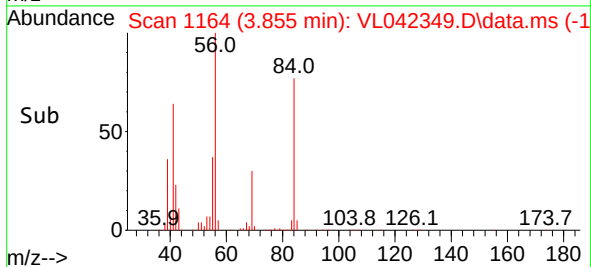
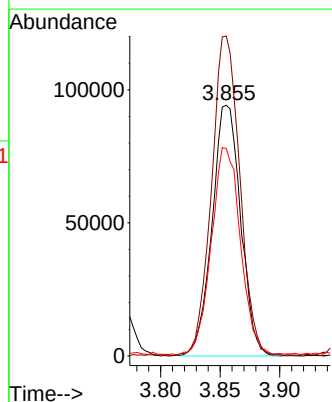
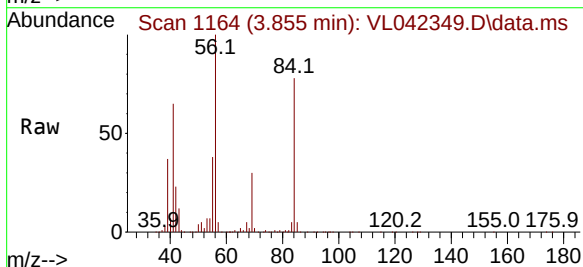
Tgt Ion: 84 Resp: 157035

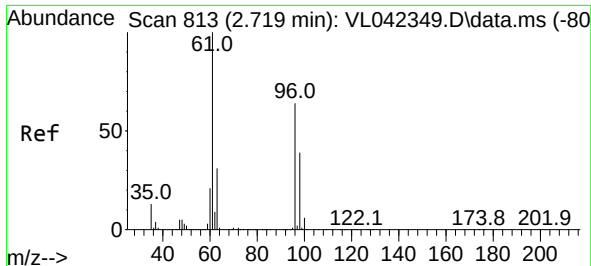
Ion Ratio Lower Upper

84 100

56 126.2 101.0 151.4

41 84.2 67.4 101.0

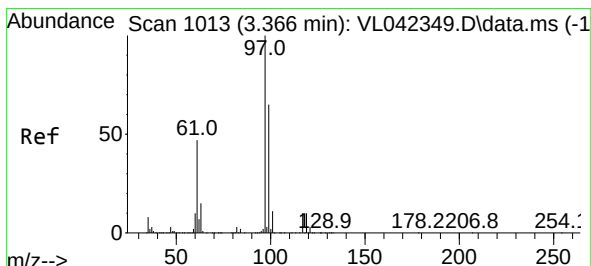
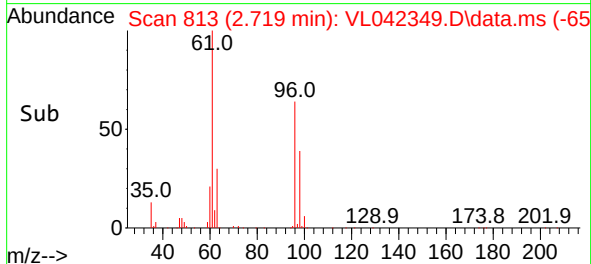
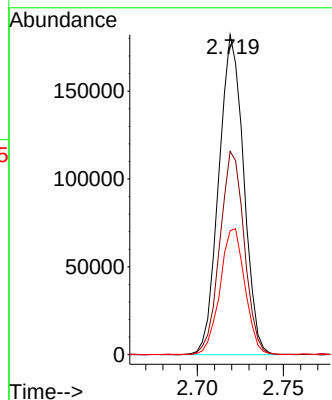
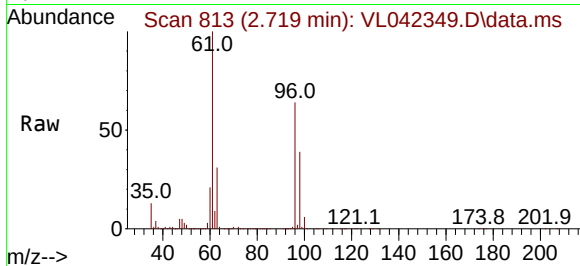




#31
 cis-1,2-Dichloroethene
 Concen: 9.397 ppbv
 RT: 2.719 min Scan# 813
 Delta R.T. 0.000 min
 Lab File: VL042349.D
 Acq: 17 Apr 2025 09:44

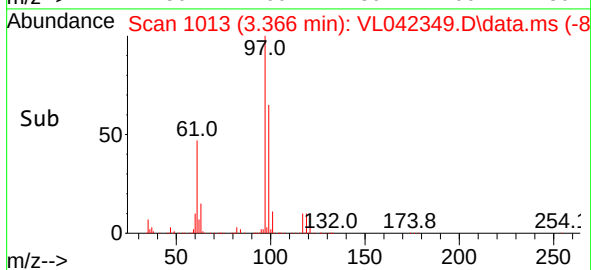
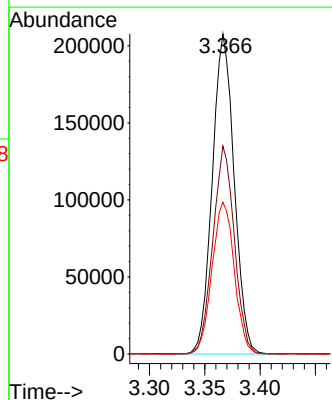
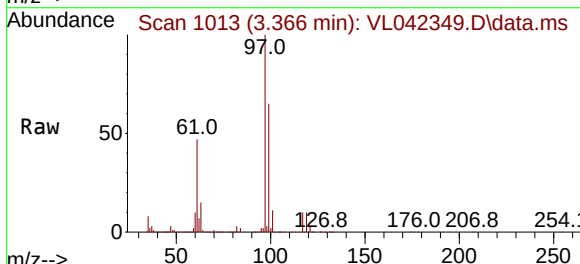
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

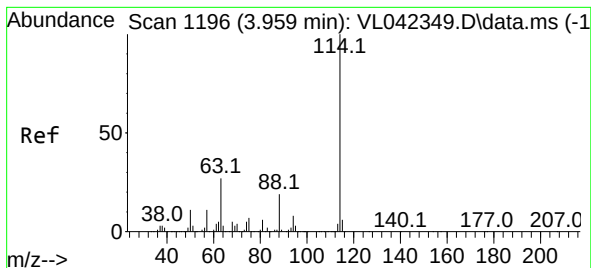
Tgt Ion: 61 Resp: 183082
 Ion Ratio Lower Upper
 61 100
 96 63.5 50.8 76.2
 98 38.6 30.9 46.3



#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

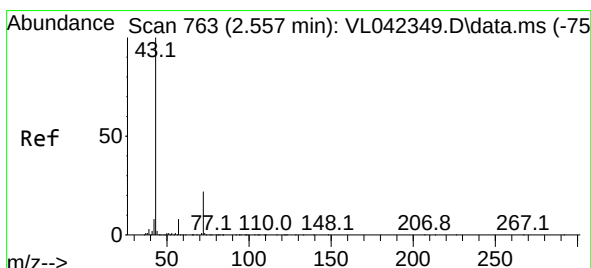
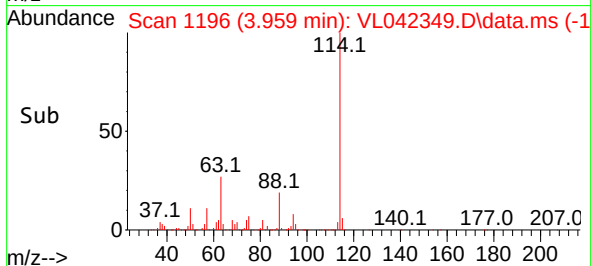
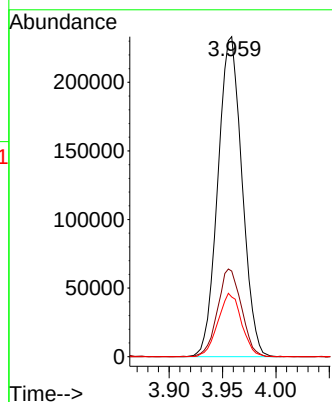
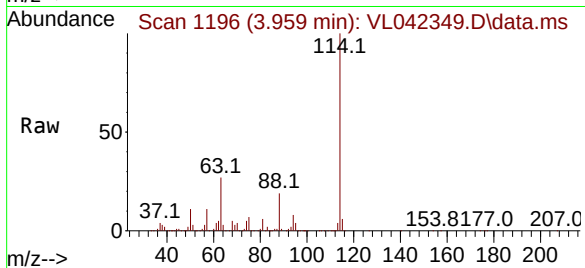
Tgt Ion:114 Resp: 366544

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

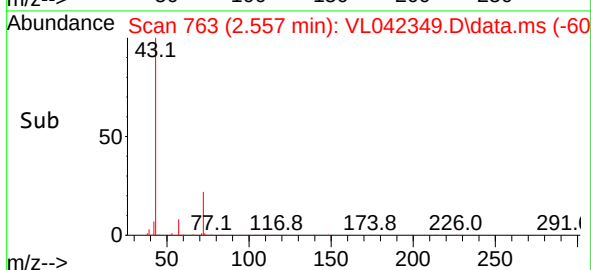
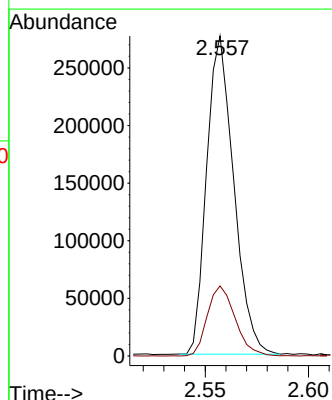
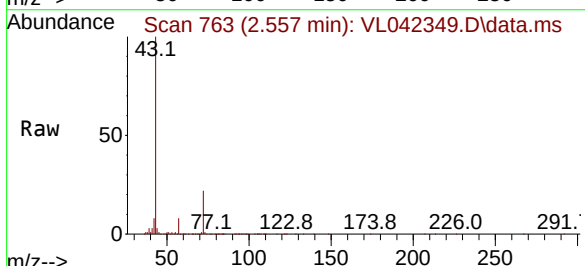
Acq: 17 Apr 2025 09:44

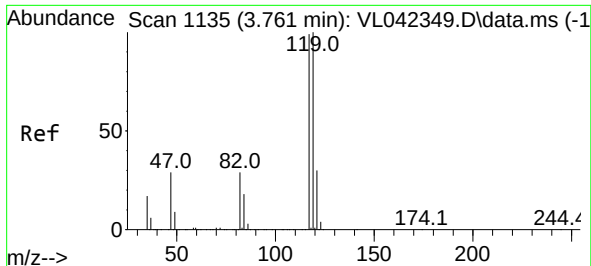
Tgt Ion: 43 Resp: 251704

Ion Ratio Lower Upper

43 100

72 22.7 18.2 27.2

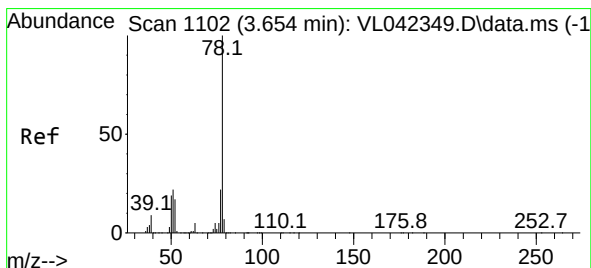
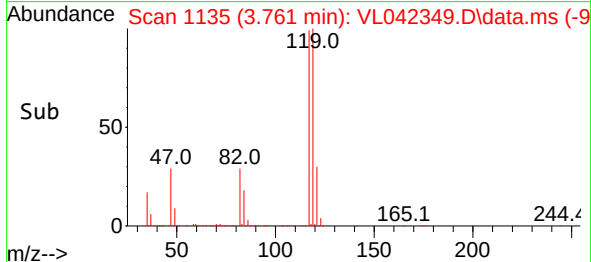
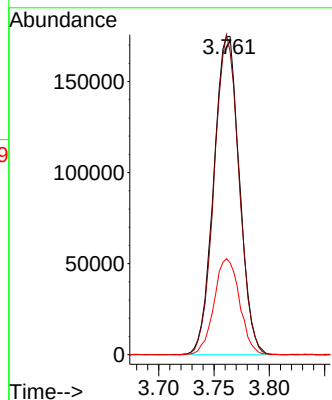
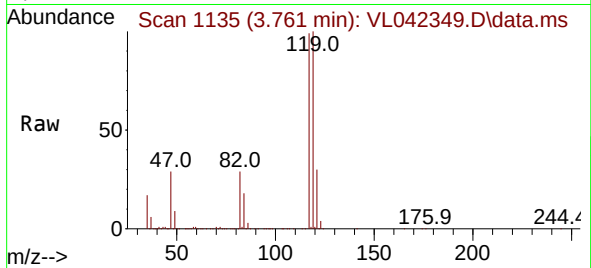




#35
Carbon Tetrachloride
Concen: 8.513 ppbv
RT: 3.761 min Scan# 1135
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

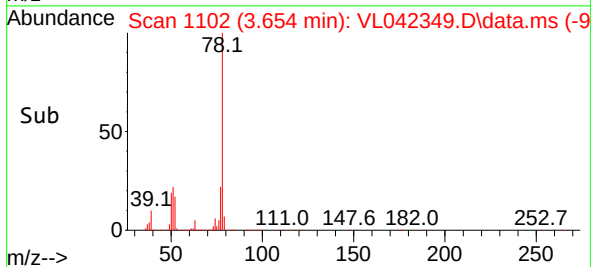
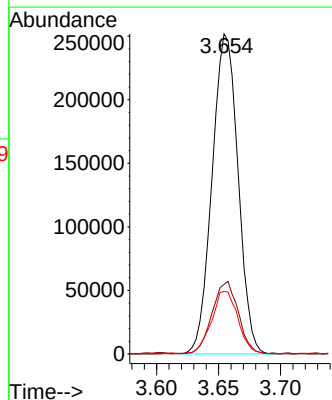
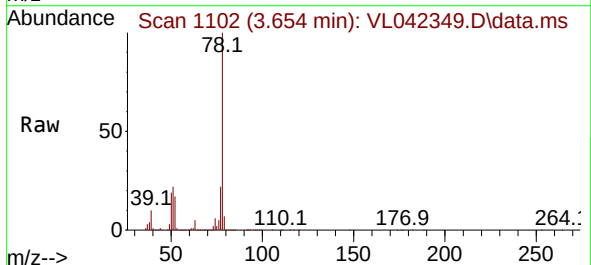
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

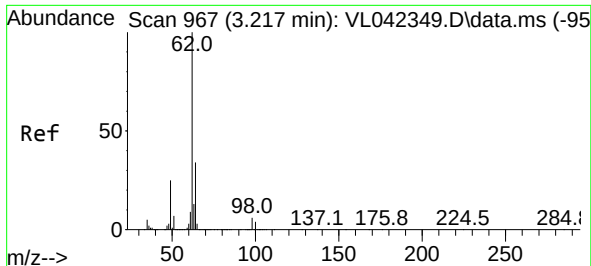
Tgt Ion:117 Resp: 282402
Ion Ratio Lower Upper
117 100
119 100.6 80.5 120.7
121 30.2 24.2 36.2



#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 :

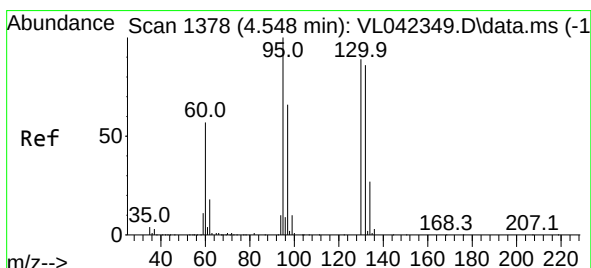
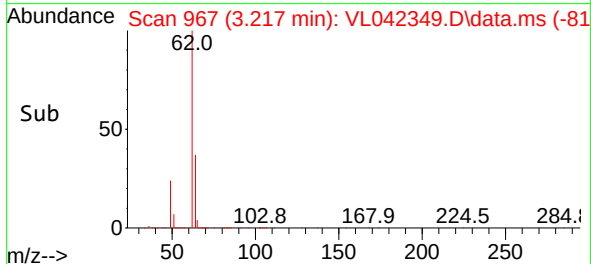
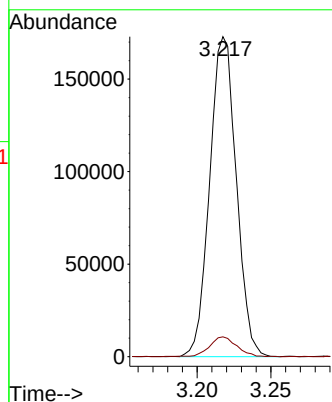
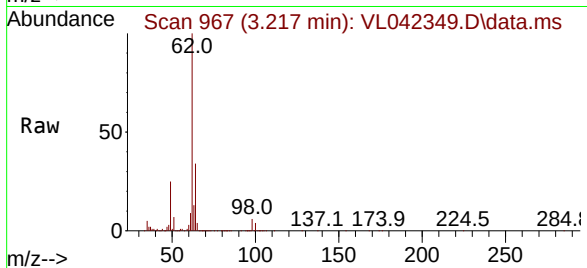
VSTDICCC010

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

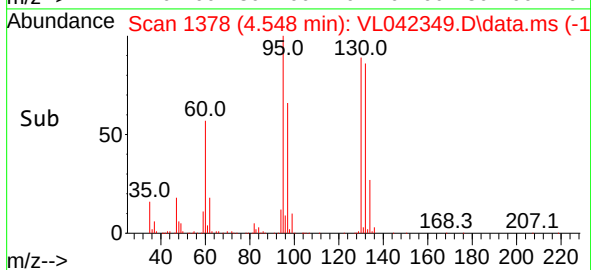
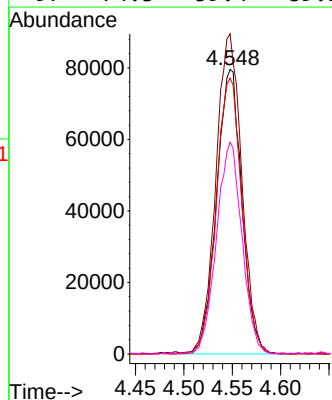
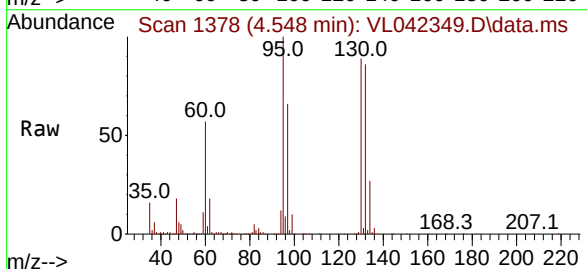
Ion Ratio Lower Upper

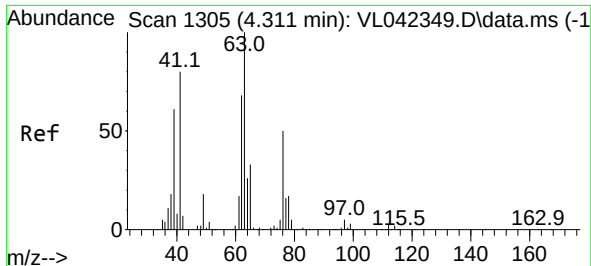
130 100

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

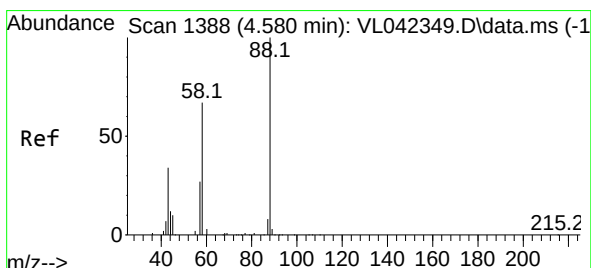
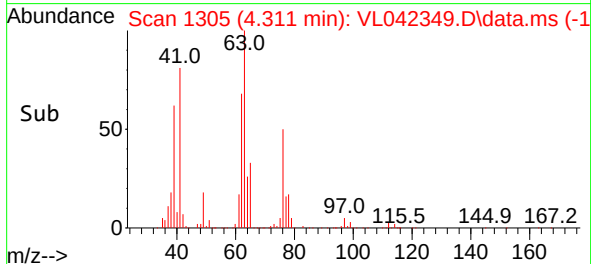
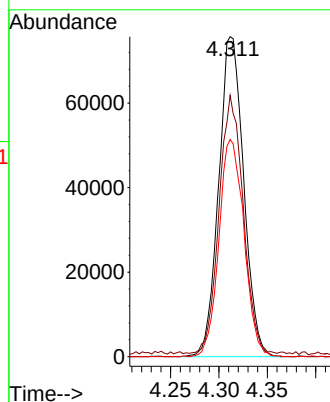
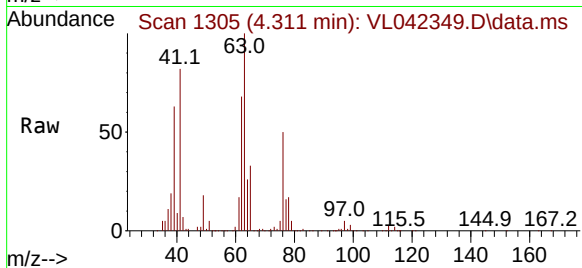
Tgt Ion: 63 Resp: 135605

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

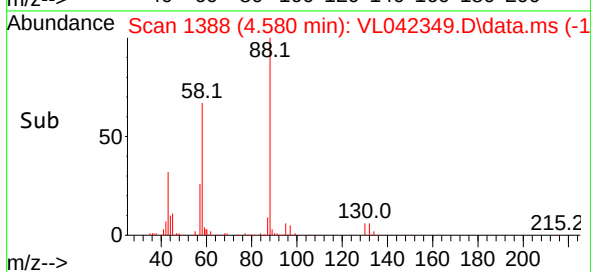
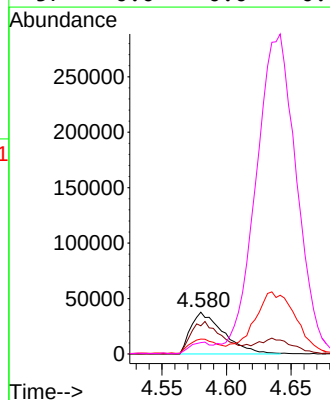
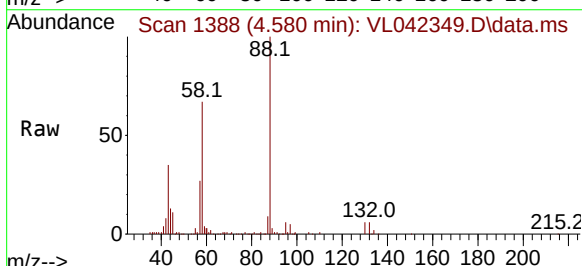
Ion Ratio Lower Upper

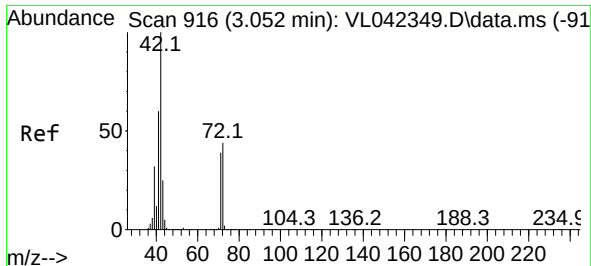
88 100

58 76.7 61.4 92.0

43 29.0 23.2 34.8

57 0.0 0.0 0.0

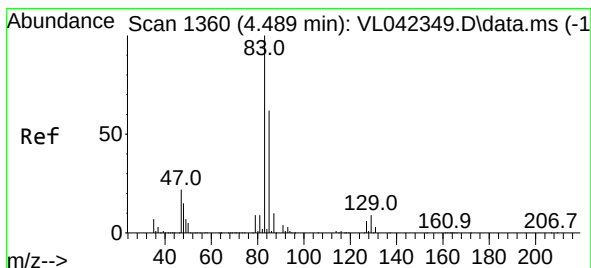
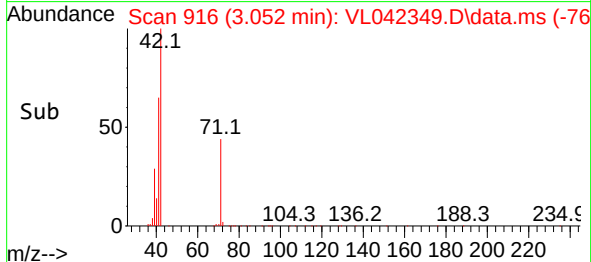
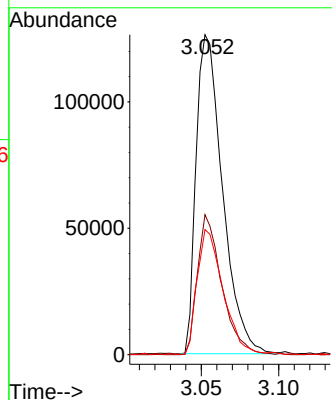
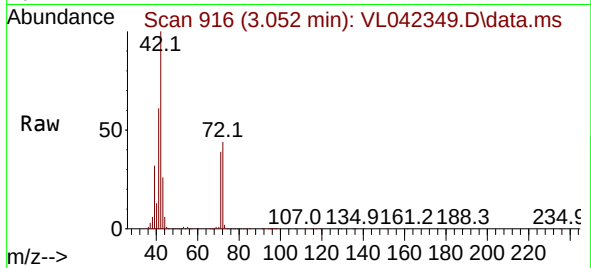




#41
Tetrahydrofuran
Concen: 8.950 ppbv
RT: 3.052 min Scan# 916
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

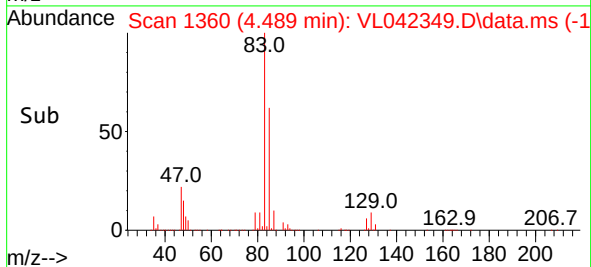
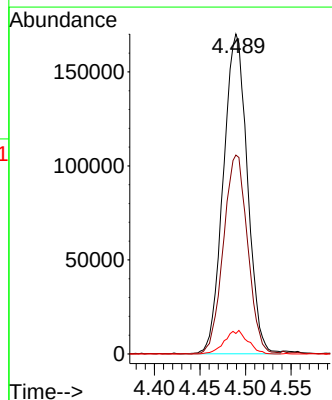
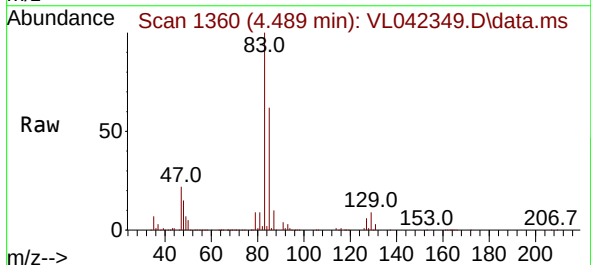
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

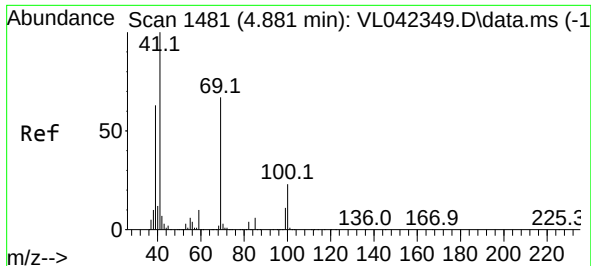
Tgt Ion: 42 Resp: 149905
Ion Ratio Lower Upper
42 100
72 40.4 32.3 48.5
71 39.3 31.4 47.2



#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

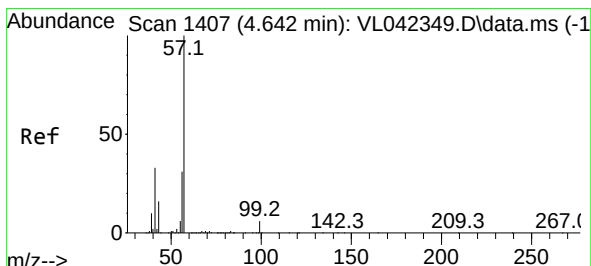
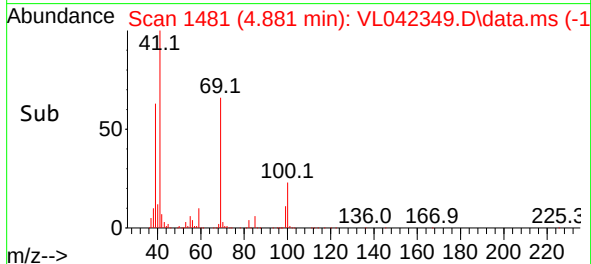
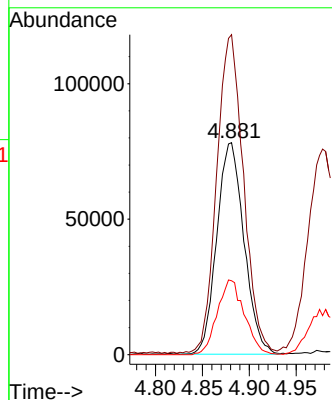
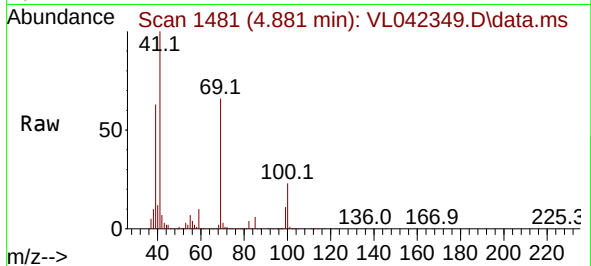




#43
Methyl Methacrylate
Concen: 8.876 ppbv
RT: 4.881 min Scan# 1481
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

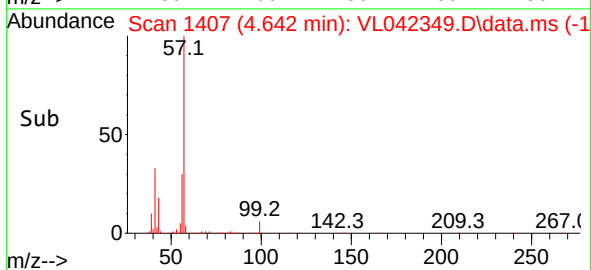
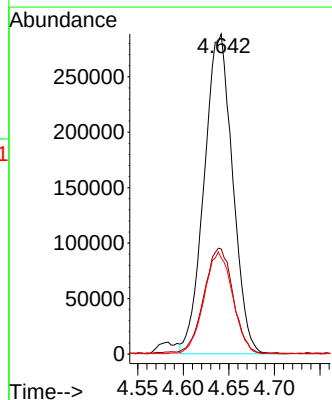
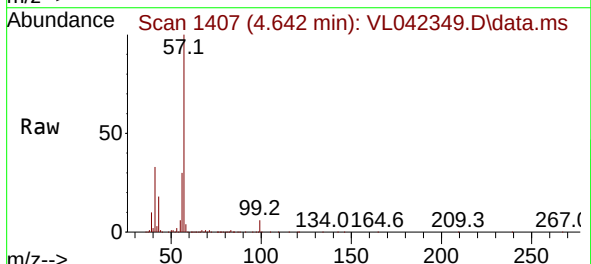
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

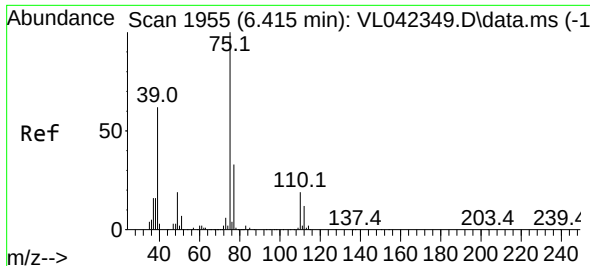
Tgt Ion: 69 Resp: 157501
Ion Ratio Lower Upper
69 100
41 148.2 118.6 177.8
100 35.2 28.2 42.2



#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

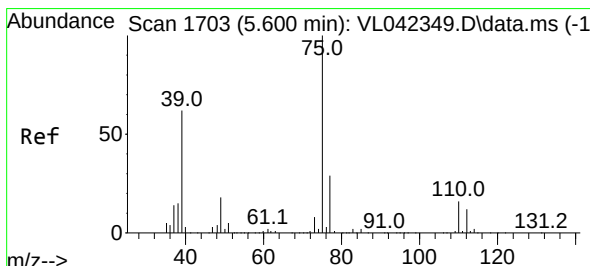
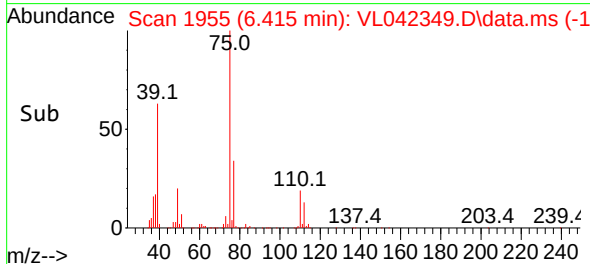
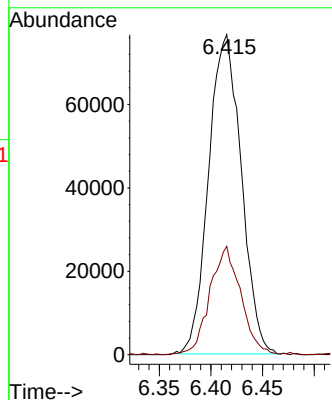
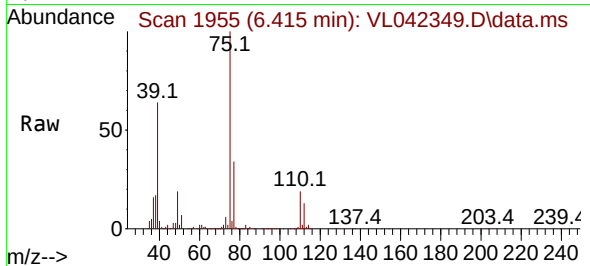




#45
 t-1,3-Dichloropropene
 Concen: 9.233 ppbv
 RT: 6.415 min Scan# 1955
 Delta R.T. 0.000 min
 Lab File: VL042349.D
 Acq: 17 Apr 2025 09:44

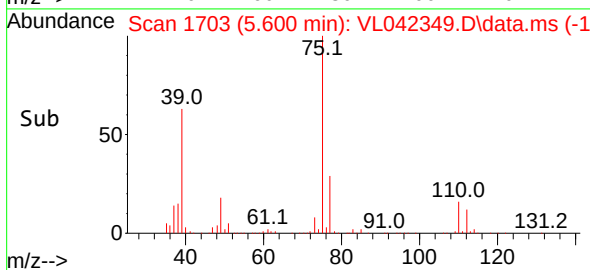
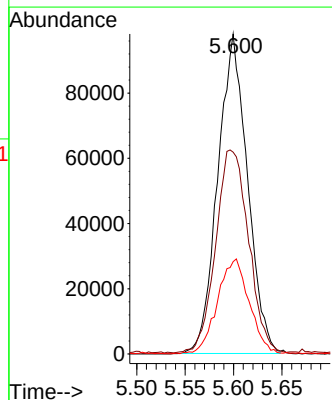
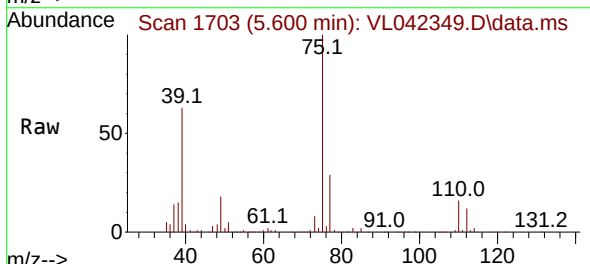
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

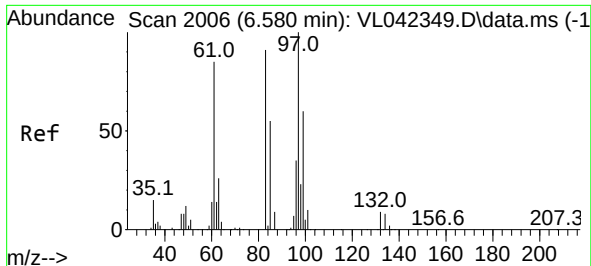
Tgt Ion: 75 Resp: 168223
 Ion Ratio Lower Upper
 75 100
 77 33.8 27.0 40.6



#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

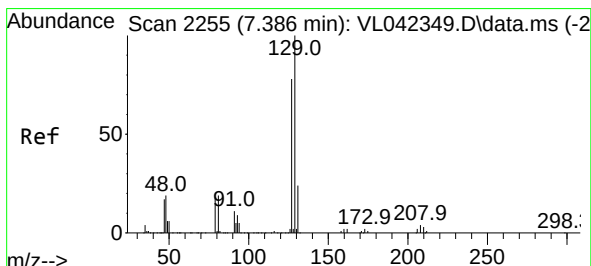
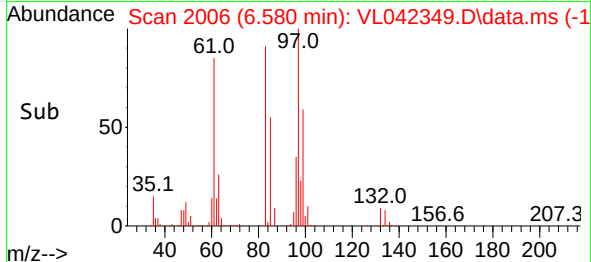
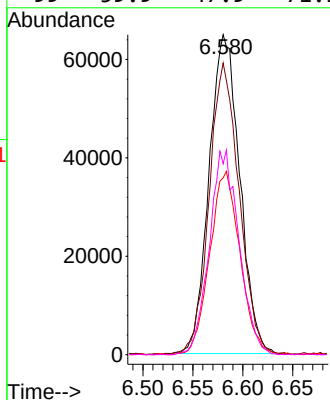
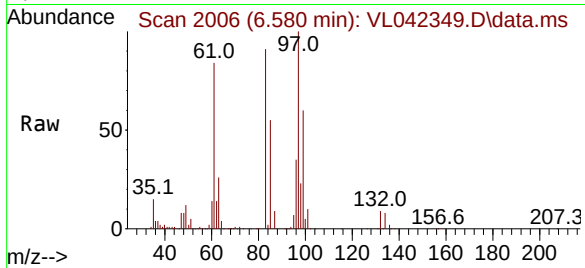




#47
1,1,2-Trichloroethane
Concen: 9.181 ppbv
RT: 6.580 min Scan# 2006
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

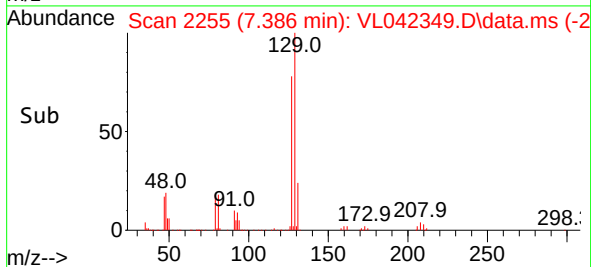
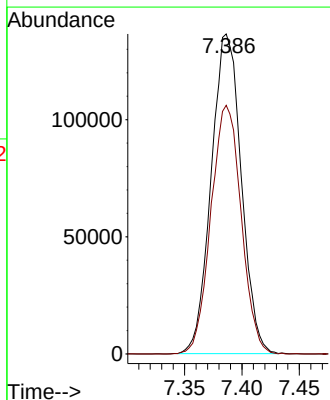
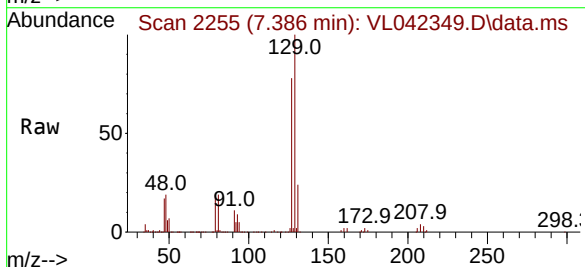
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

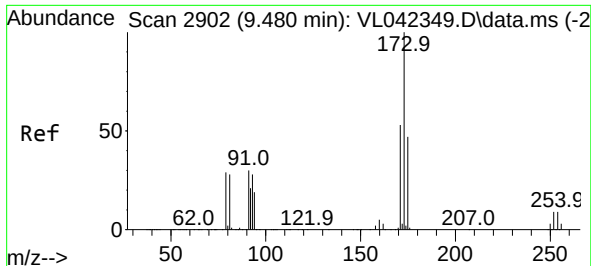
Tgt Ion:	97	Resp:	137898
Ion	Ratio	Lower	Upper
97	100		
83	91.0	72.8	109.2
85	55.3	44.2	66.4
99	59.9	47.9	71.9



#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

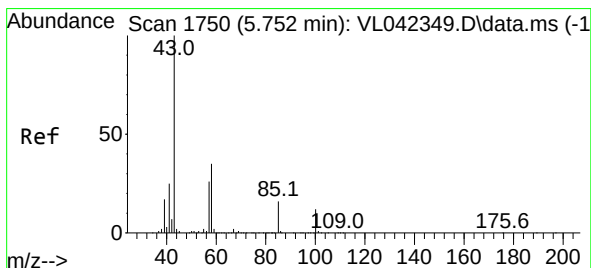
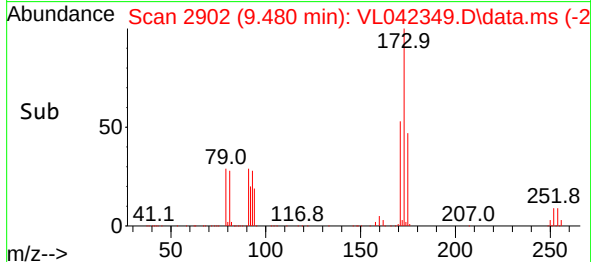
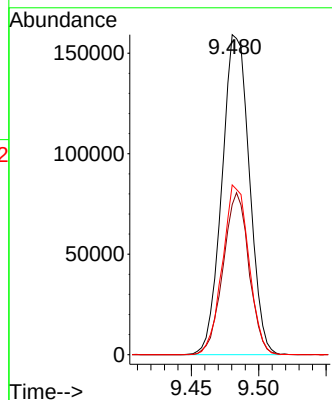
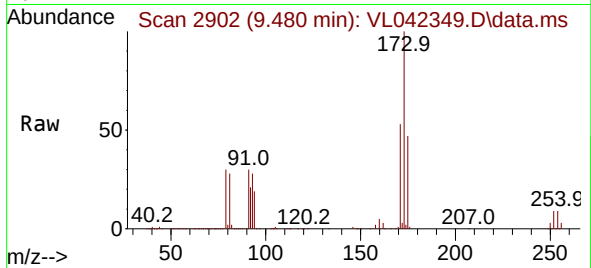




#49
Bromoform
Concen: 9.734 ppbv
RT: 9.480 min Scan# 2902
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

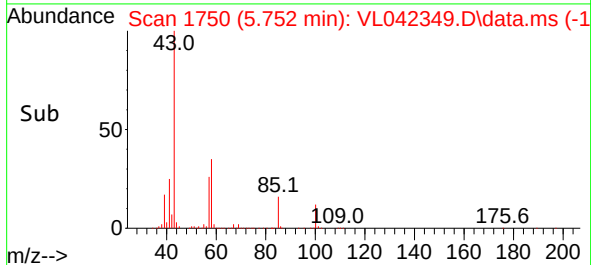
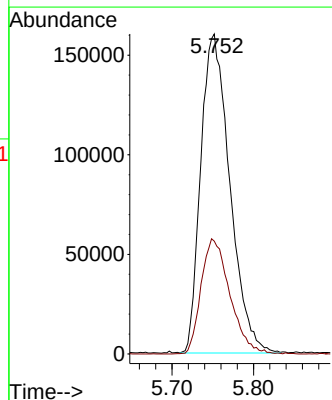
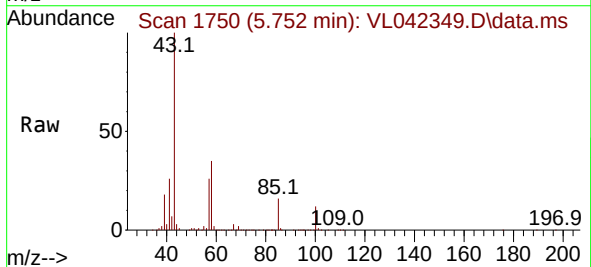
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

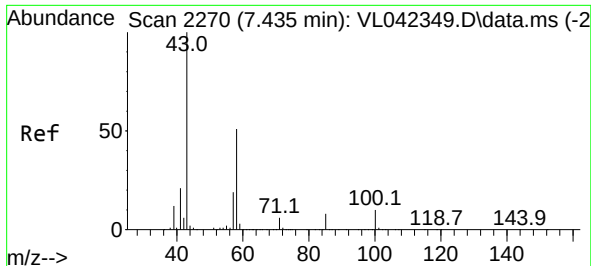
Tgt Ion:173 Resp: 225706
Ion Ratio Lower Upper
173 100
175 47.7 38.2 57.2
171 51.1 40.9 61.3



#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

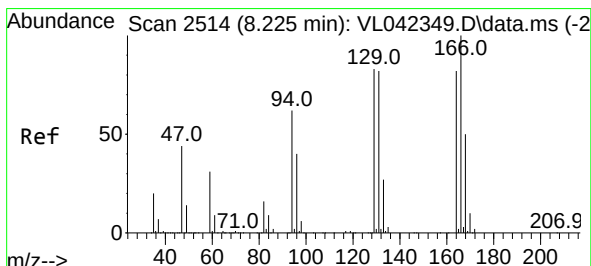
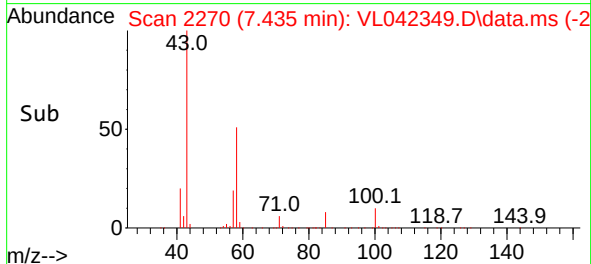
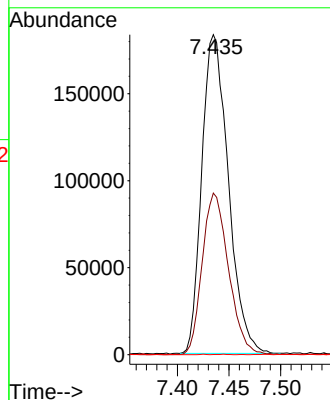
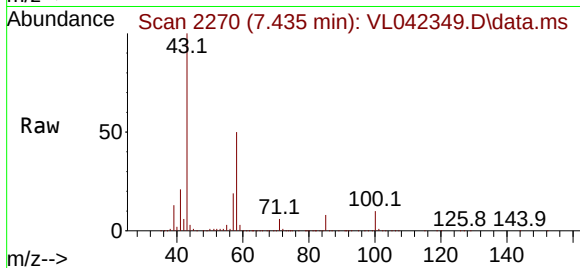




#51
2-Hexanone
Concen: 7.511 ppbv
RT: 7.435 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

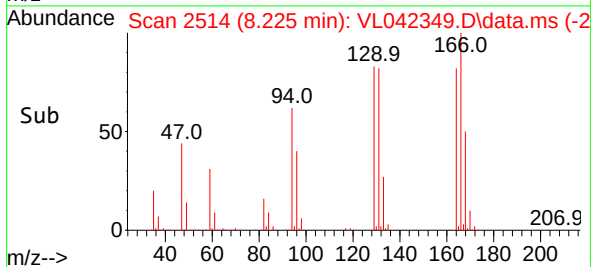
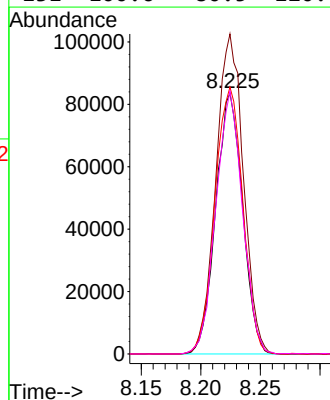
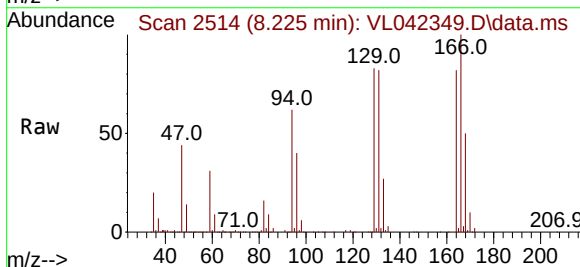
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

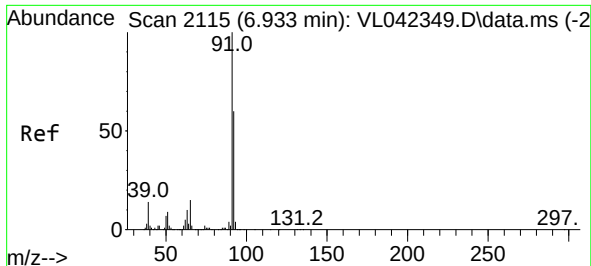
Tgt Ion: 43 Resp: 327165
Ion Ratio Lower Upper
43 100
58 50.3 40.2 60.4
98 0.1 0.1 0.1



#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

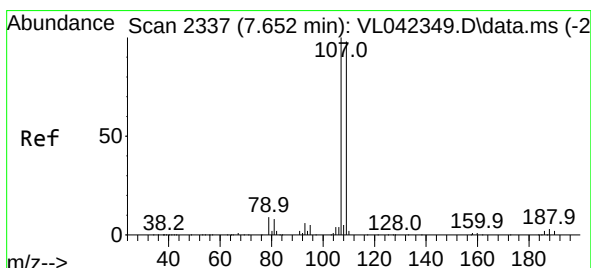
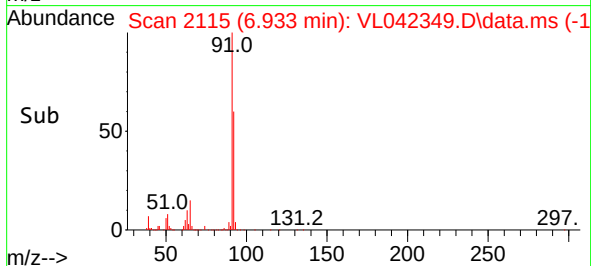
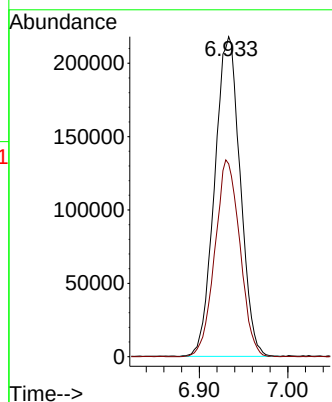
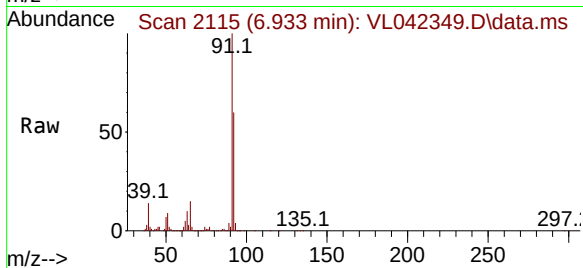




#53
Toluene
Concen: 9.216 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

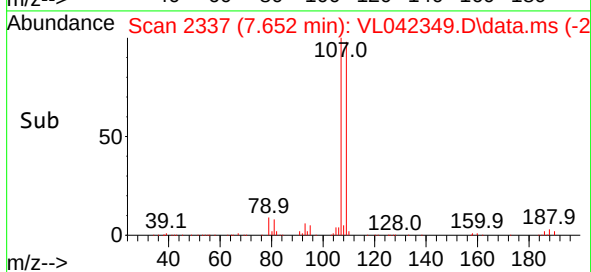
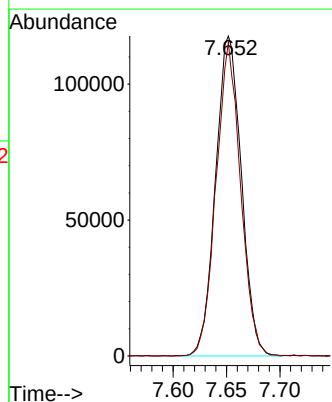
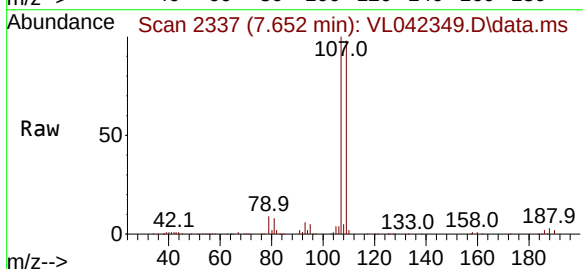
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

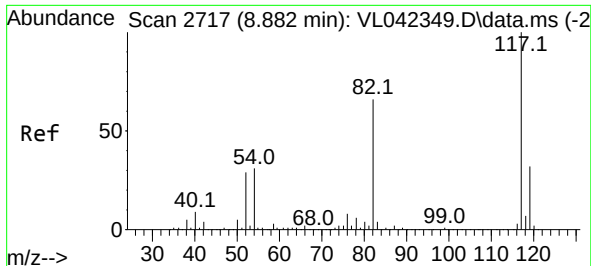
Tgt Ion: 91 Resp: 437258
Ion Ratio Lower Upper
91 100
92 60.3 48.2 72.4



#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

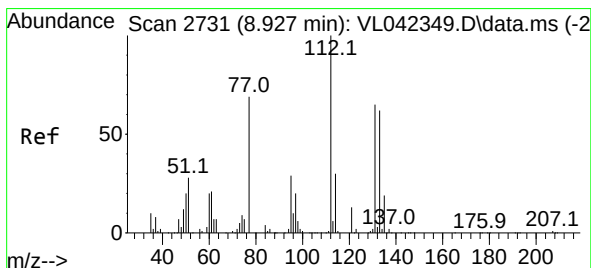
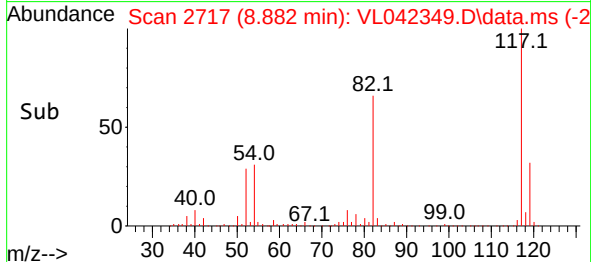
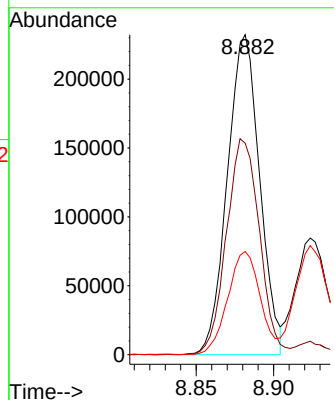
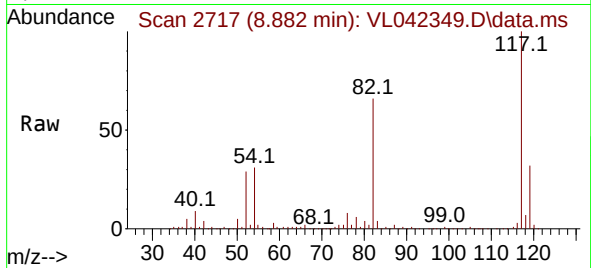




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2717
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

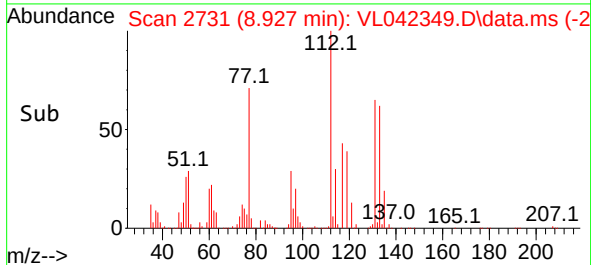
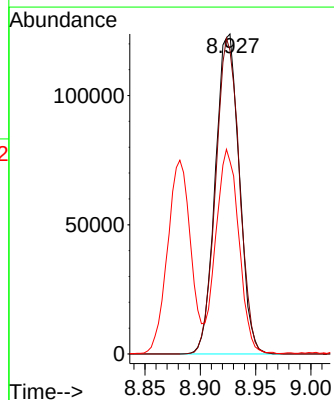
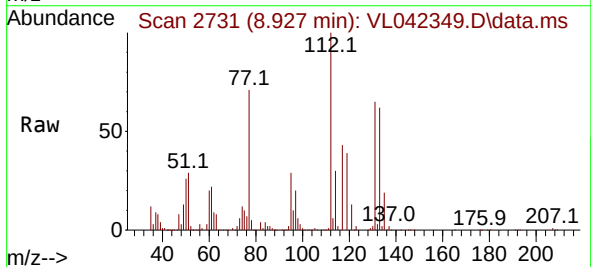
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

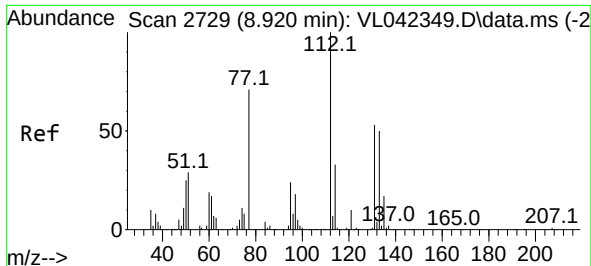
Tgt Ion:117 Resp: 338126
Ion Ratio Lower Upper
117 100
82 72.2 57.8 86.6
119 31.5 25.2 37.8



#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

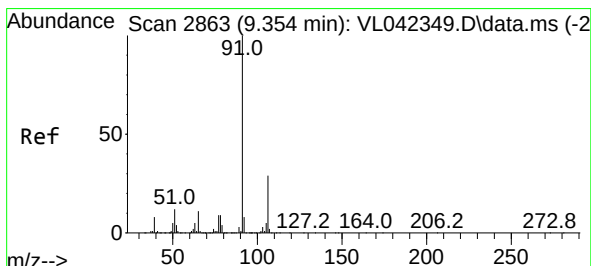
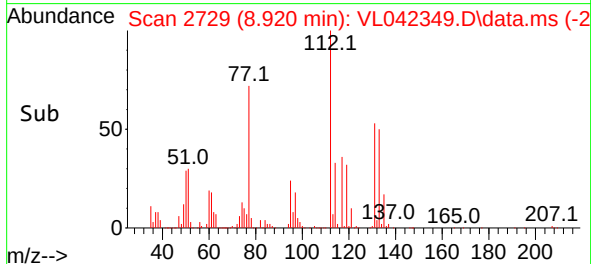
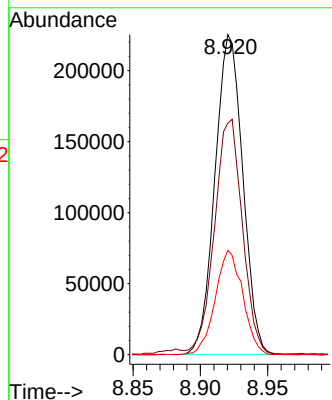
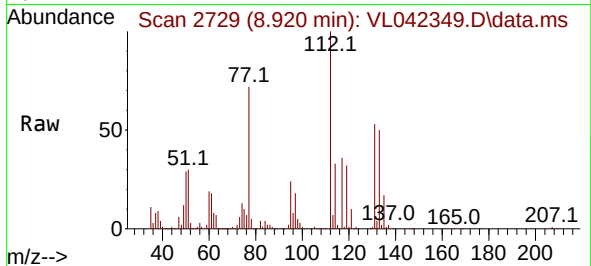




#57
Chlorobenzene
Concen: 9.187 ppbv
RT: 8.920 min Scan# 211
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

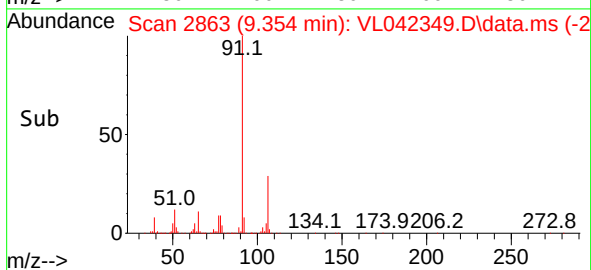
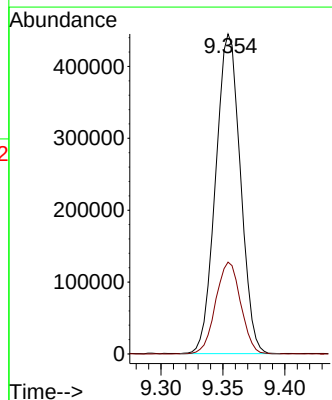
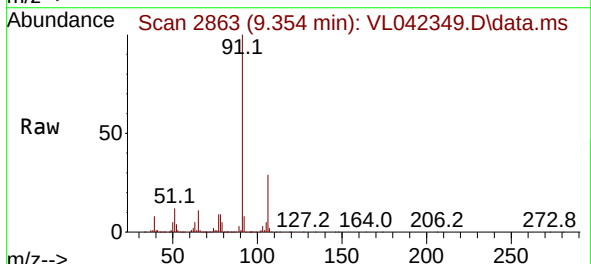
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

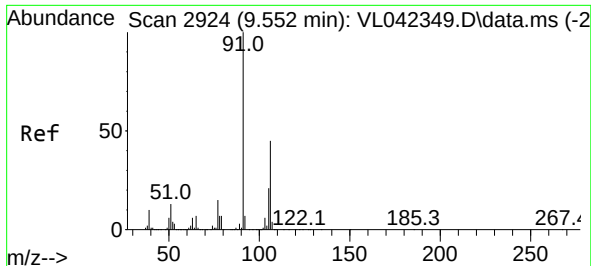
Tgt Ion:112 Resp: 323084
Ion Ratio Lower Upper
112 100
77 72.2 57.8 86.6
114 32.6 29.3 35.9



#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

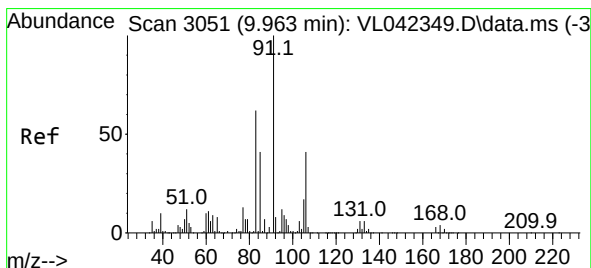
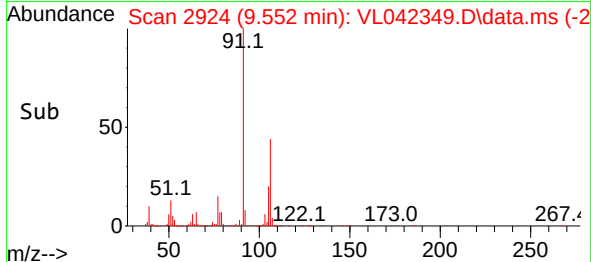
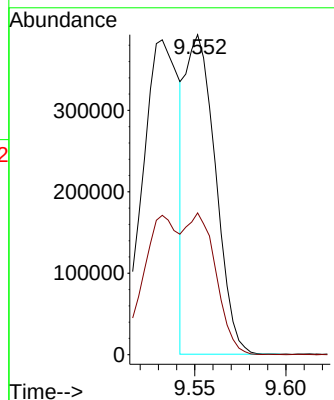
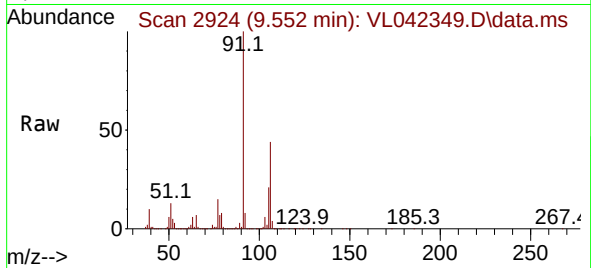




#59
m/p-Xylene
Concen: 8.299 ppbv
RT: 9.552 min Scan# 2924
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

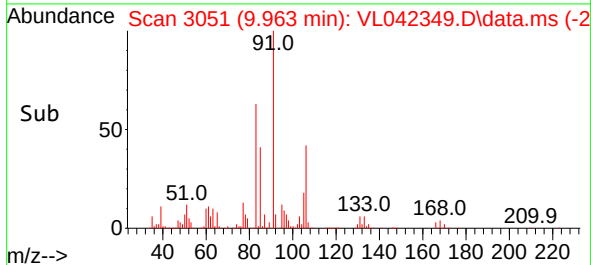
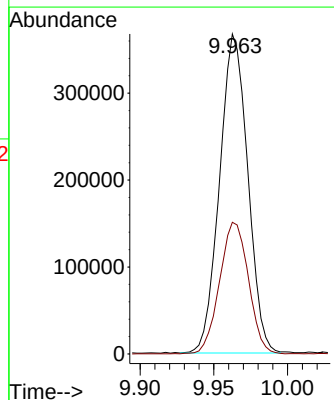
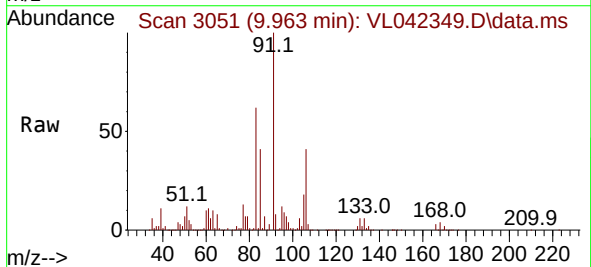
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

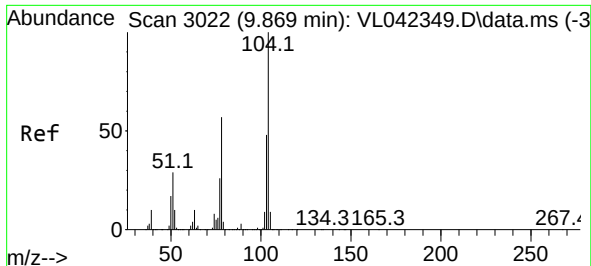
Tgt Ion: 91 Resp: 449222
Ion Ratio Lower Upper
91 100
106 97.0 35.4 53.2#



#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

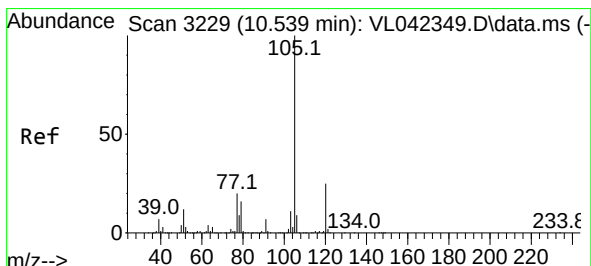
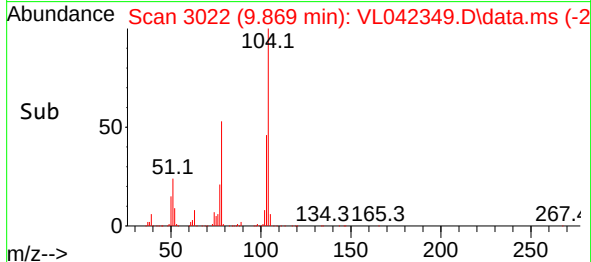
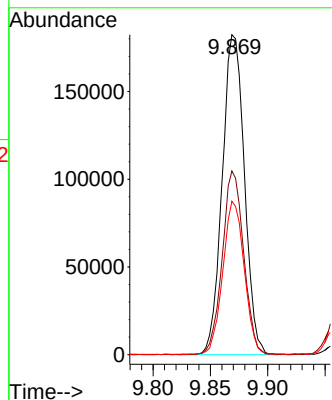
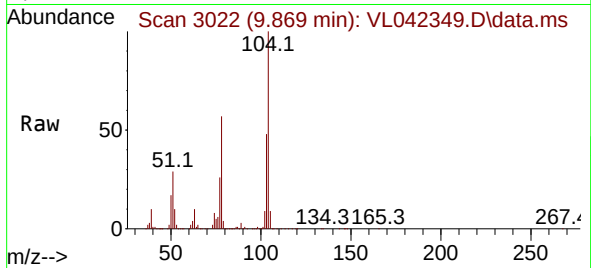




#61
Styrene
Concen: 9.464 ppbv
RT: 9.869 min Scan# 3022
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

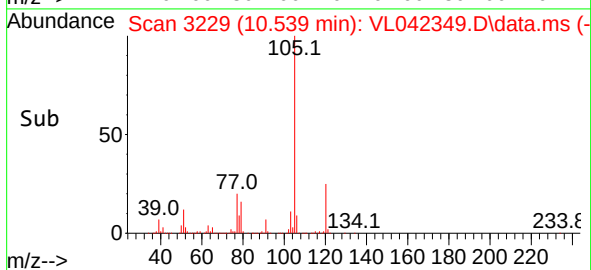
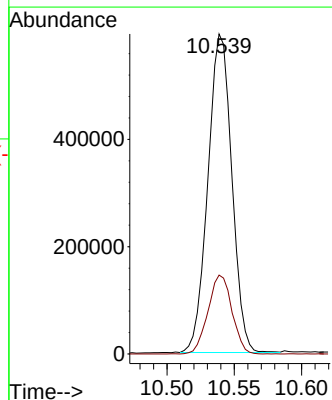
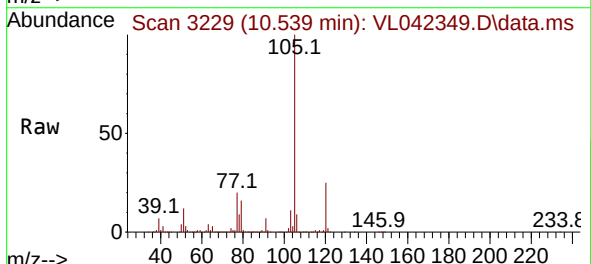
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

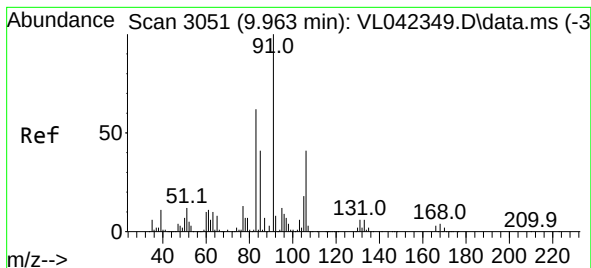
Tgt Ion:104 Resp: 245487
Ion Ratio Lower Upper
104 100
78 55.7 44.6 66.8
103 46.7 37.4 56.0



#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

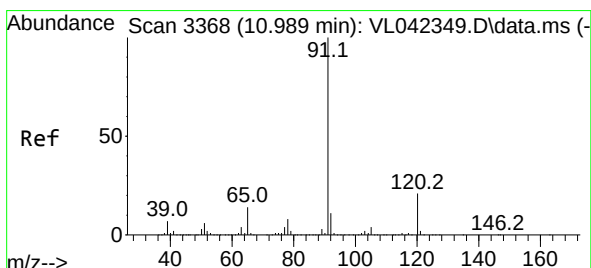
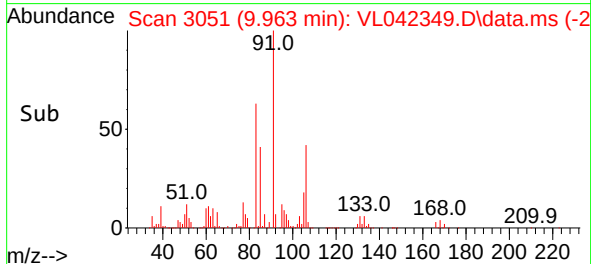
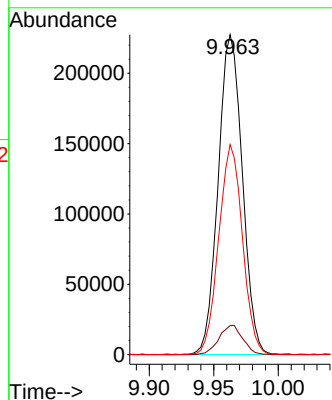
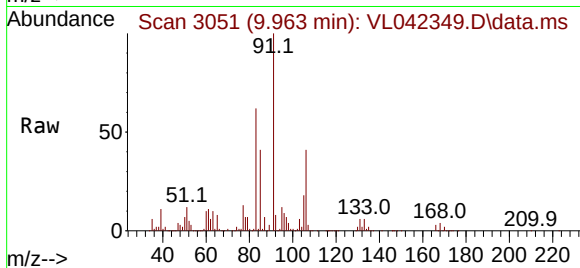
Tgt Ion: 83 Resp: 295041

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

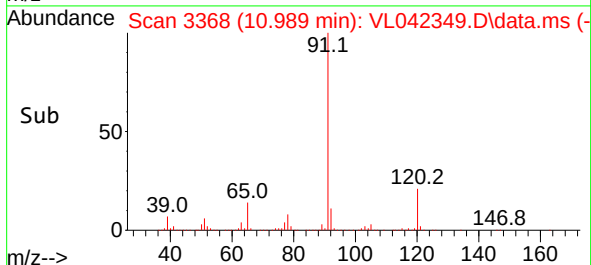
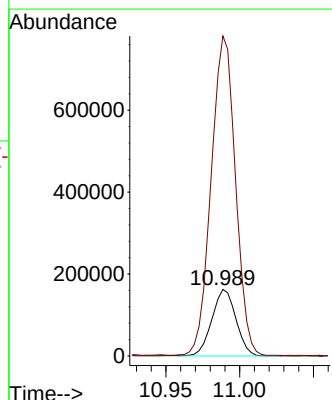
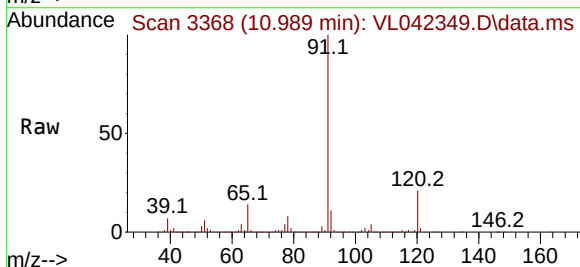
Acq: 17 Apr 2025 09:44

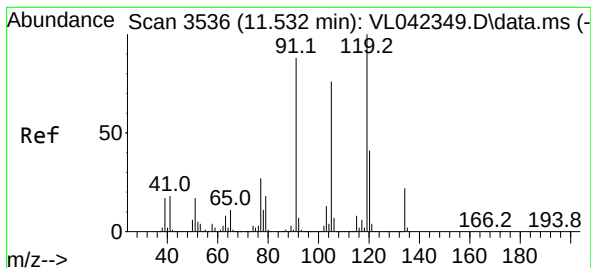
Tgt Ion: 120 Resp: 183390

Ion Ratio Lower Upper

120 100

91 490.5 392.4 588.6

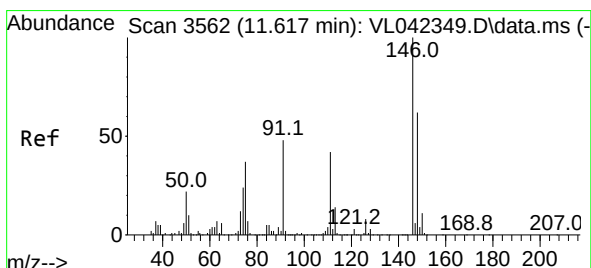
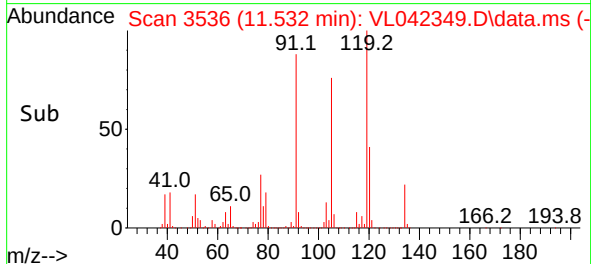
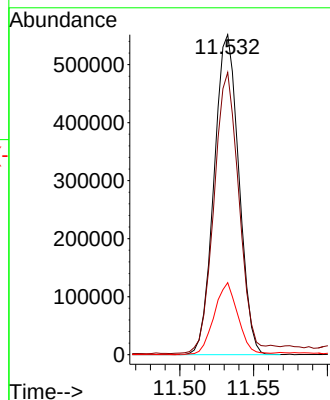
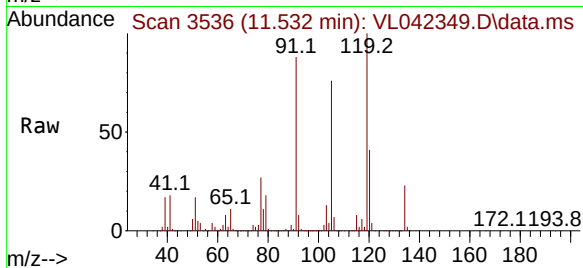




#65
tert-Butylbenzene
Concen: 8.795 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

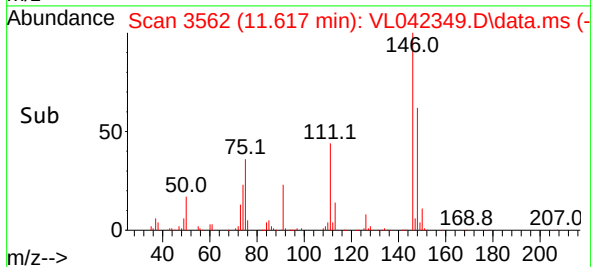
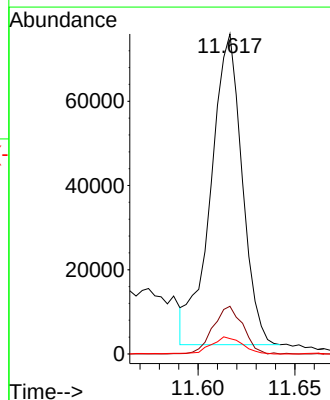
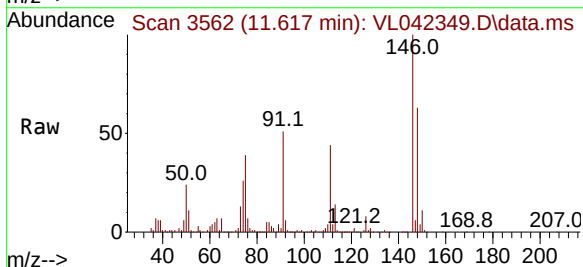
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

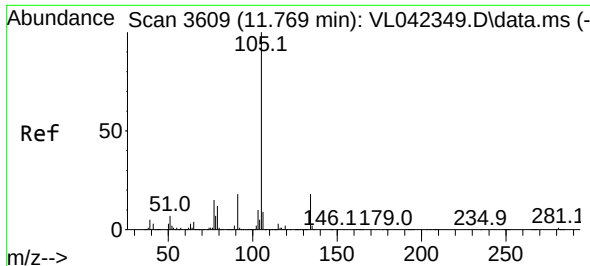
Tgt Ion:119 Resp: 644953
Ion Ratio Lower Upper
119 100
91 93.2 74.6 111.8
134 23.5 18.8 28.2



#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

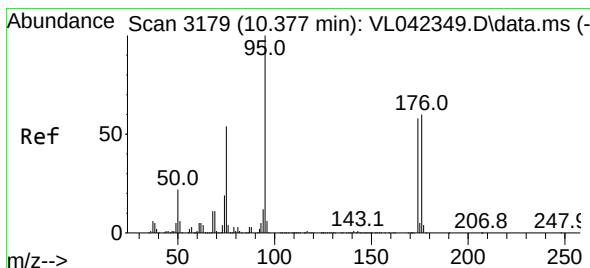
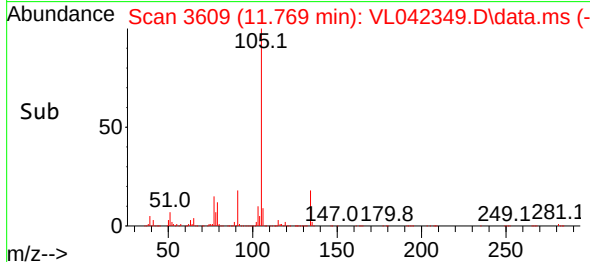
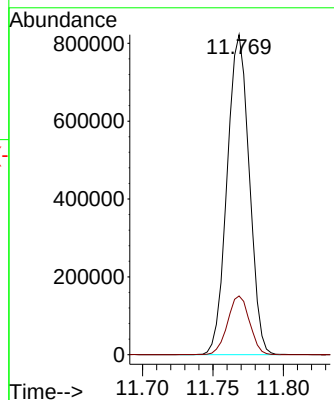
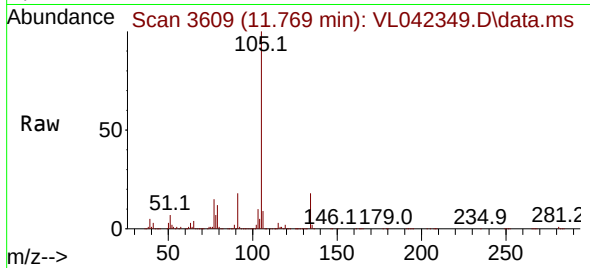




#67
 sec-Butylbenzene
 Concen: 8.824 ppbv
 RT: 11.769 min Scan# 3609
 Delta R.T. 0.000 min
 Lab File: VL042349.D
 Acq: 17 Apr 2025 09:44

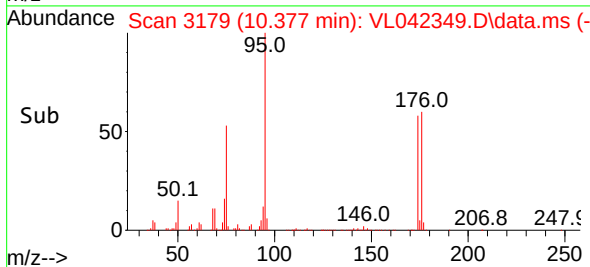
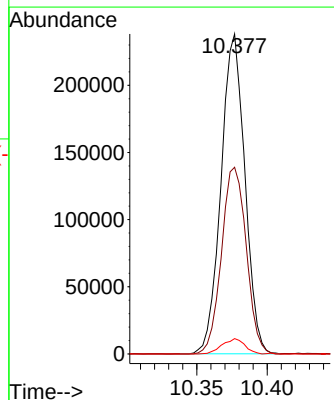
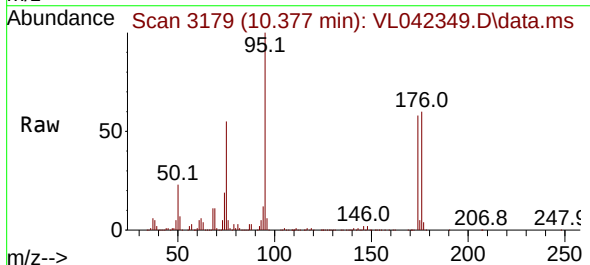
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

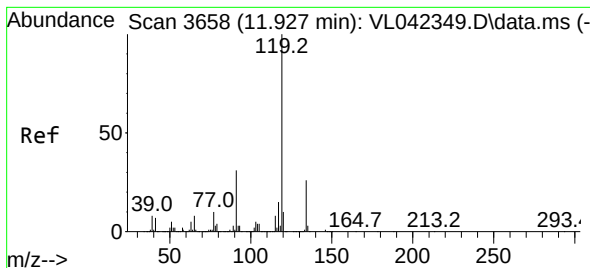
Tgt Ion:105 Resp: 900074
 Ion Ratio Lower Upper
 105 100
 134 18.2 14.6 21.8



#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

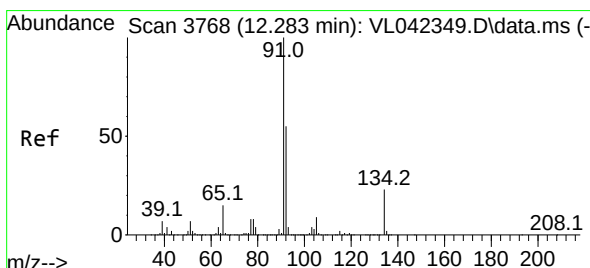
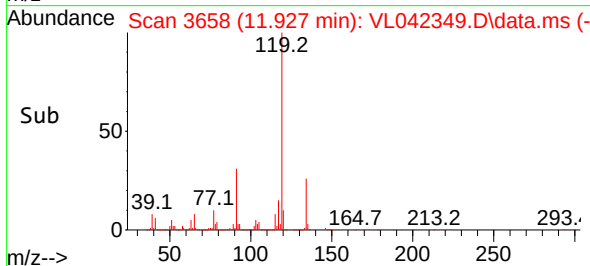
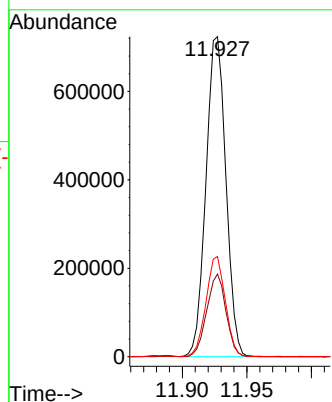
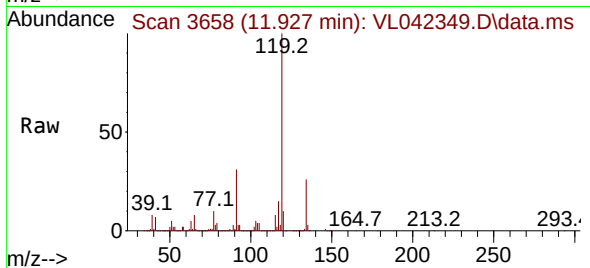




#69
p-Isopropyltoluene
Concen: 8.790 ppbv
RT: 11.927 min Scan# 3658
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

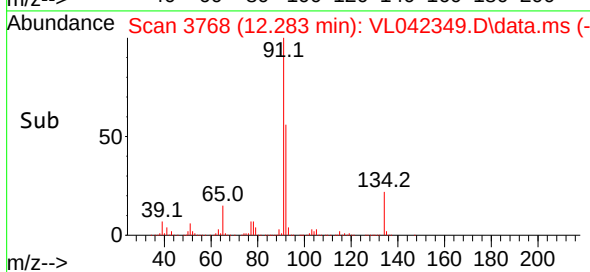
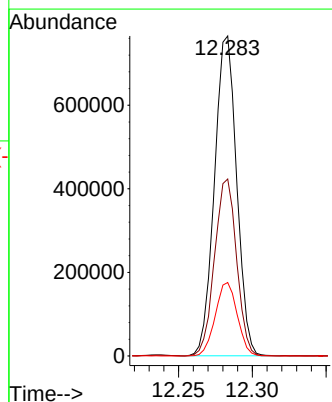
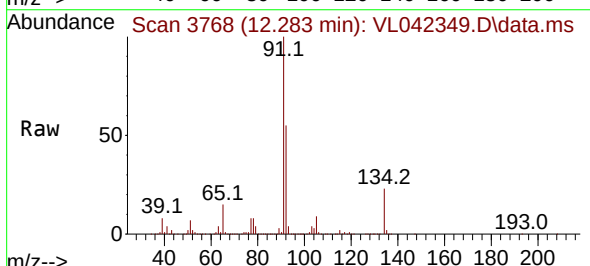
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

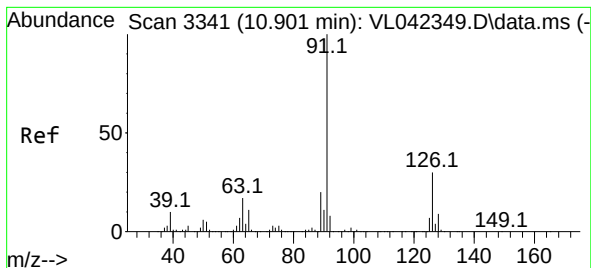
Tgt Ion:119 Resp: 778987
Ion Ratio Lower Upper
119 100
134 25.0 20.0 30.0
91 30.5 24.4 36.6



#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# 31

Delta R.T. 0.000 min

Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

Instrument :

MSVOA_1

ClientSampleId :

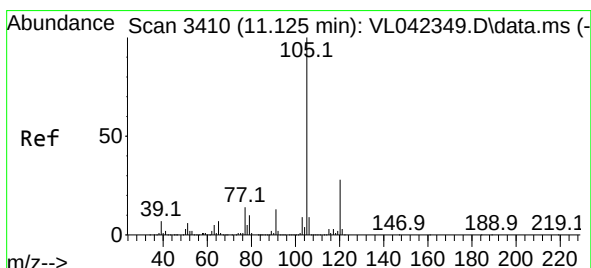
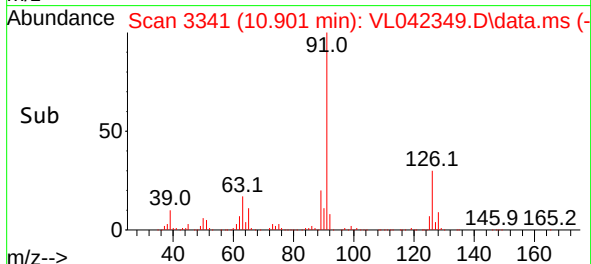
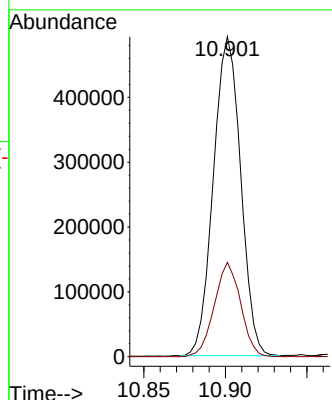
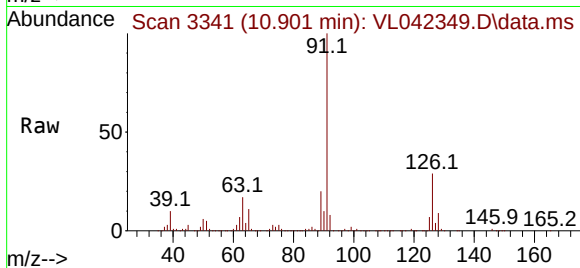
VSTDICCC010

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

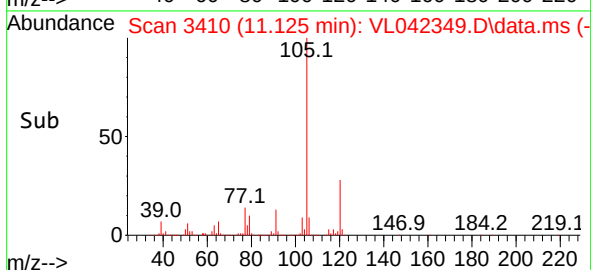
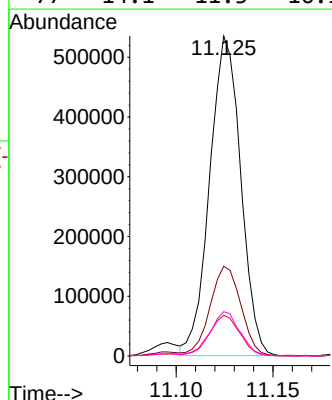
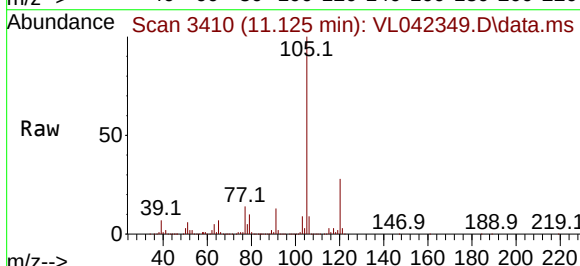
Ion Ratio Lower Upper

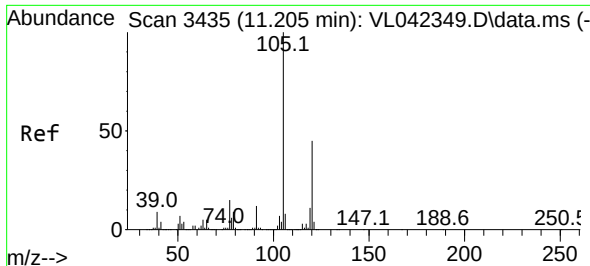
105 100

120 29.0 23.2 34.8

91 13.0 10.4 15.6

77 14.1 11.3 16.9

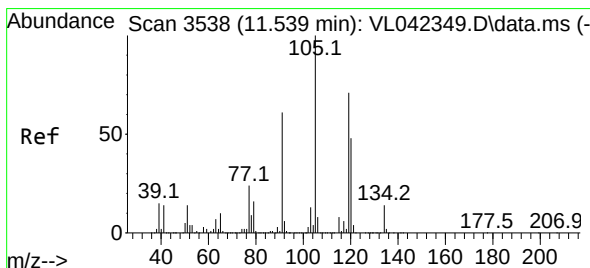
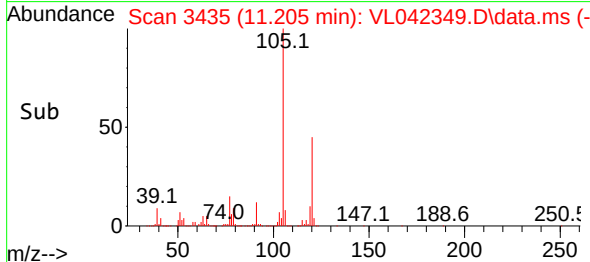
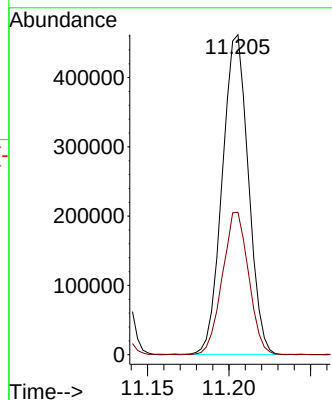
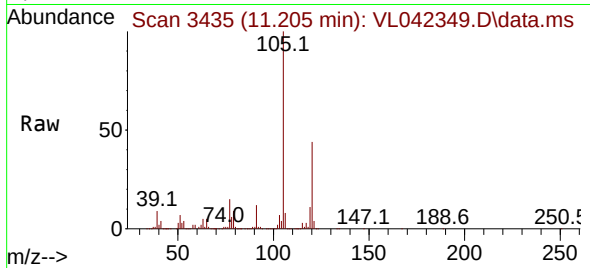




#73
 1,3,5-Trimethylbenzene
 Concen: 8.743 ppbv
 RT: 11.205 min Scan# 3435
 Delta R.T. 0.000 min
 Lab File: VL042349.D
 Acq: 17 Apr 2025 09:44

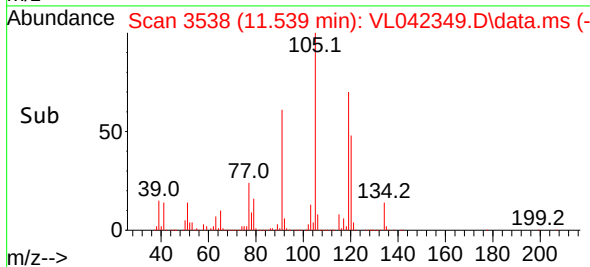
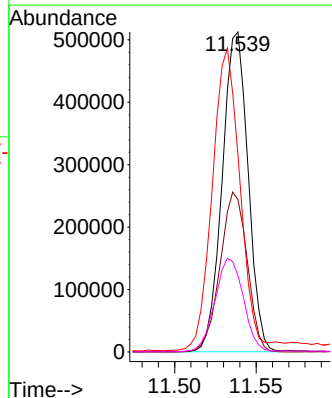
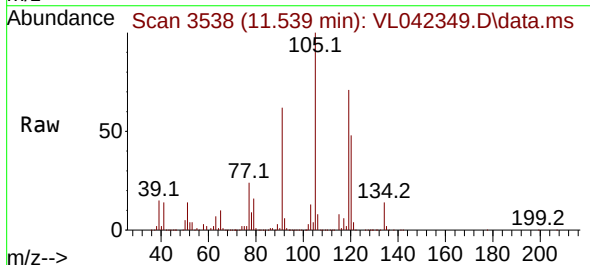
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

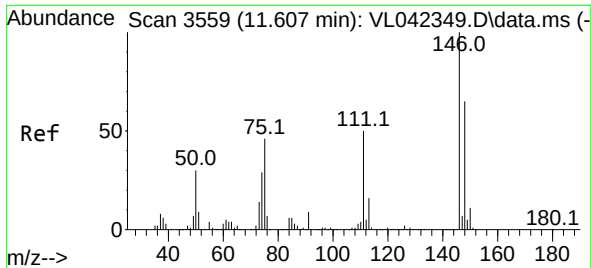
Tgt Ion:105 Resp: 512855
 Ion Ratio Lower Upper
 105 100
 120 44.5 35.6 53.4



#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

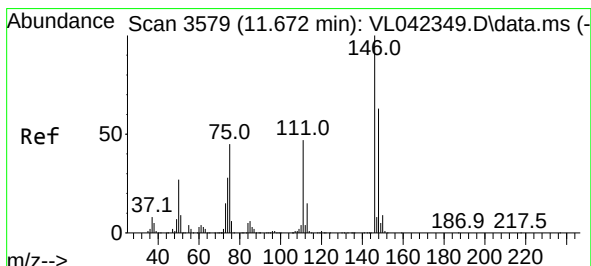
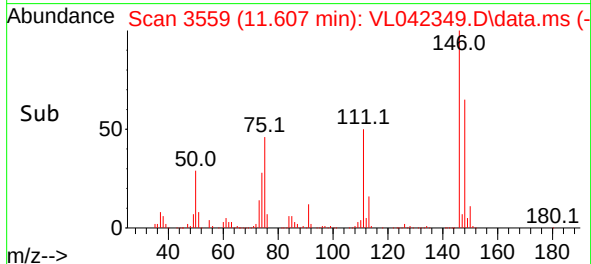
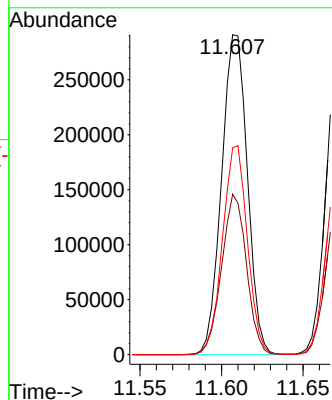
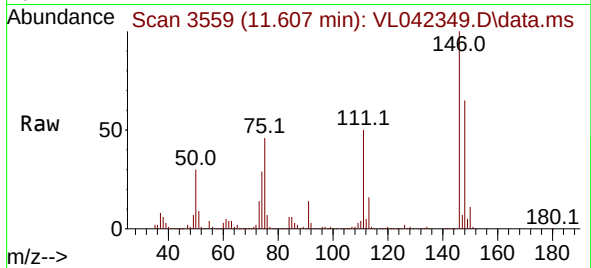




#75
1,3-Dichlorobenzene
Concen: 8.997 ppbv
RT: 11.607 min Scan# 3559
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

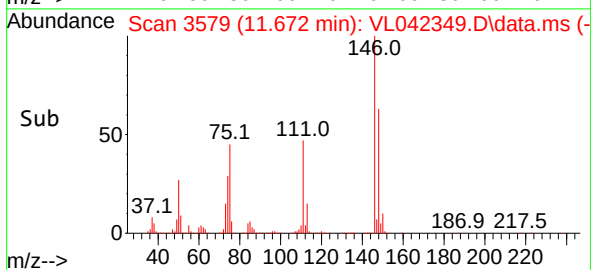
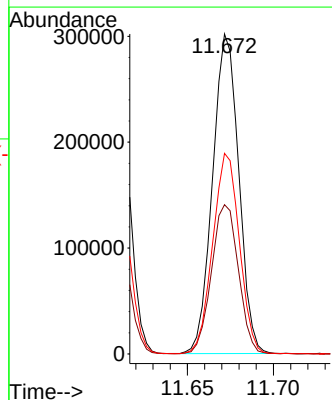
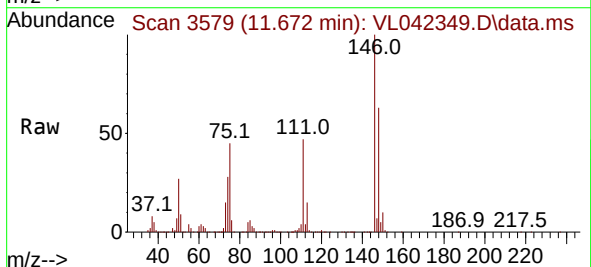
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

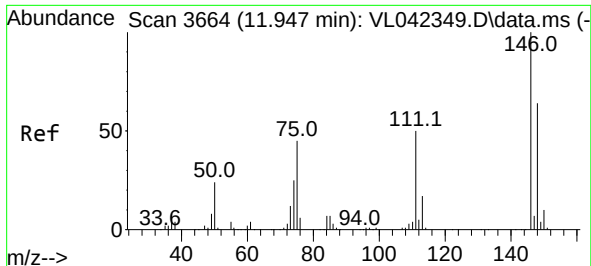
Tgt Ion:146 Resp: 320380
Ion Ratio Lower Upper
146 100
111 48.5 24.3 72.8
148 63.2 31.6 94.8



#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

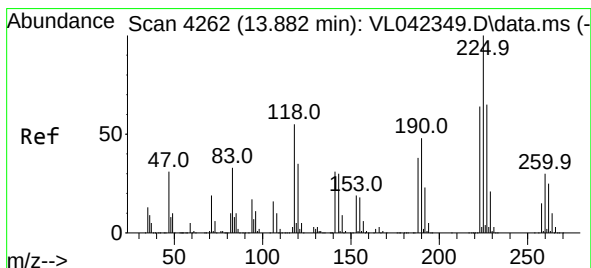
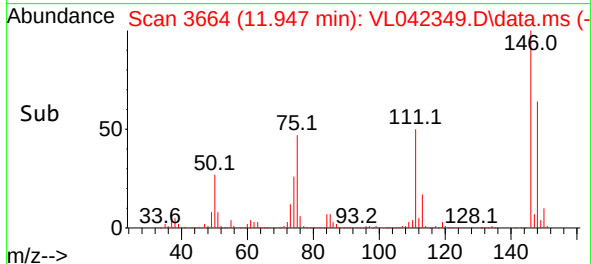
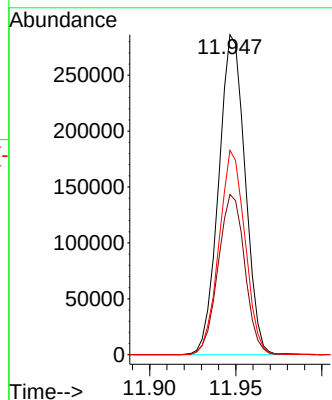
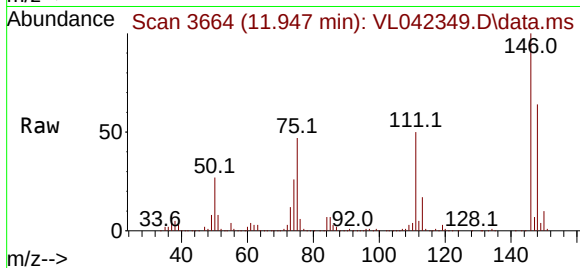




#77
1,2-Dichlorobenzene
Concen: 8.832 ppbv
RT: 11.947 min Scan# 3664
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

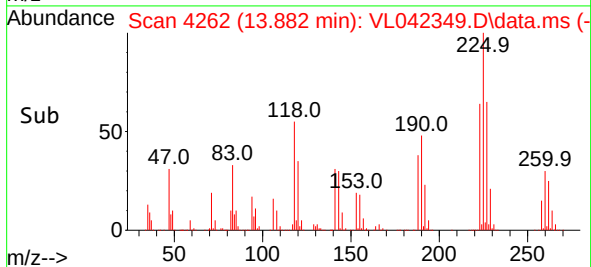
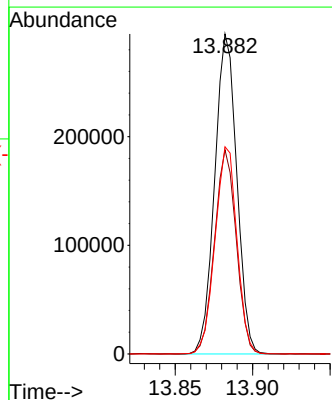
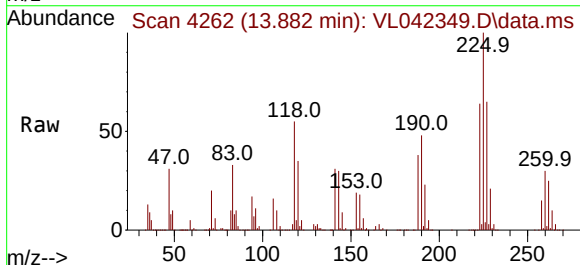
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

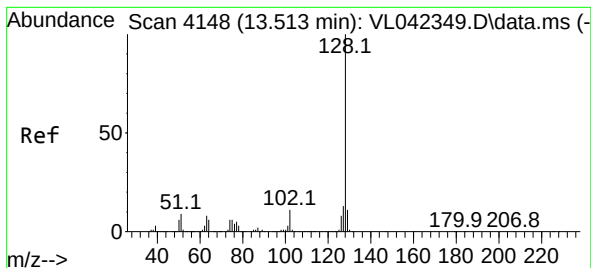
Tgt Ion:146 Resp: 305822
Ion Ratio Lower Upper
146 100
111 50.6 25.3 75.9
148 63.0 31.5 94.5



#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_1

ClientSampleId :

VSTDICCC010

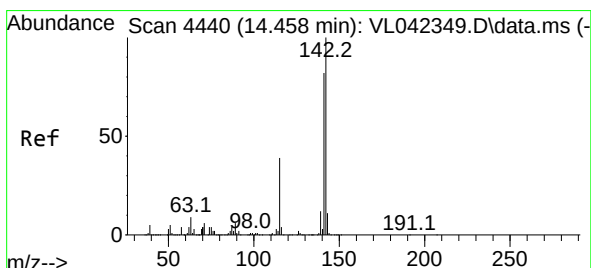
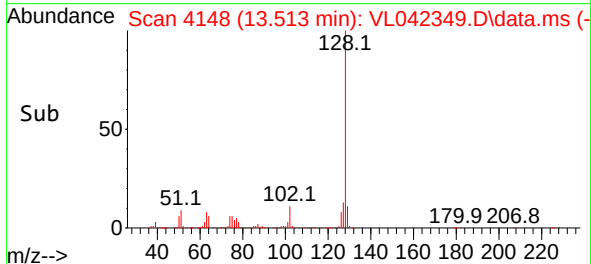
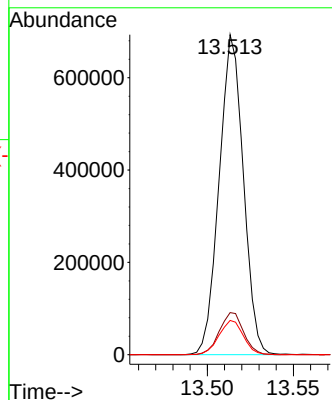
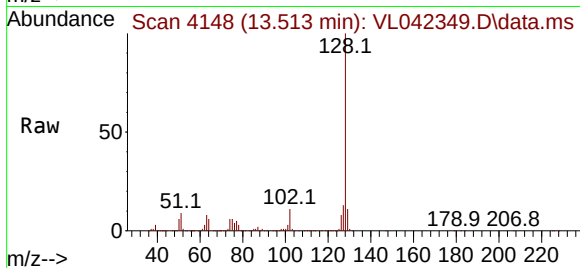
Tgt Ion:128 Resp: 677578

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

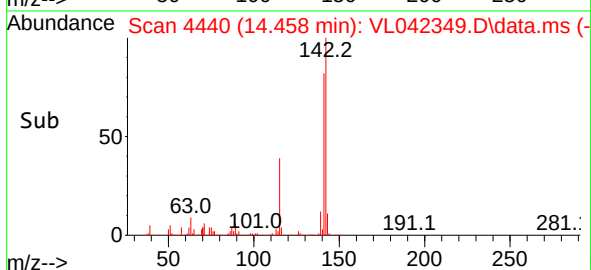
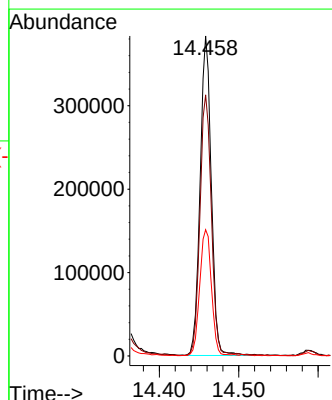
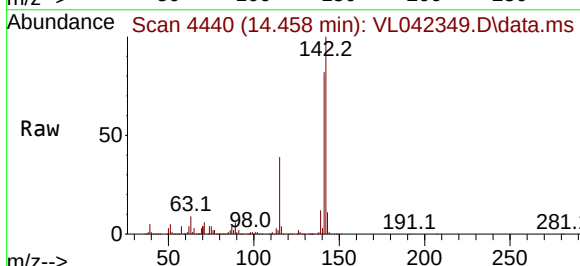
Tgt Ion:142 Resp: 376995

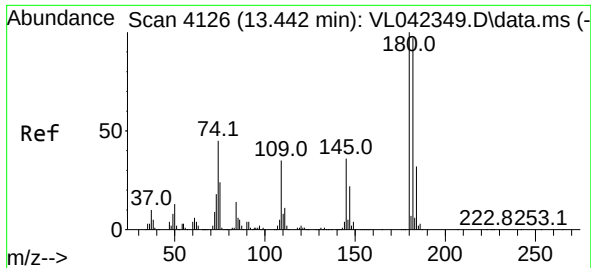
Ion Ratio Lower Upper

142 100

141 83.5 66.8 100.2

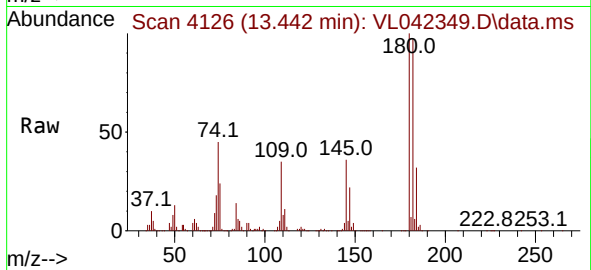
115 41.8 33.4 50.2





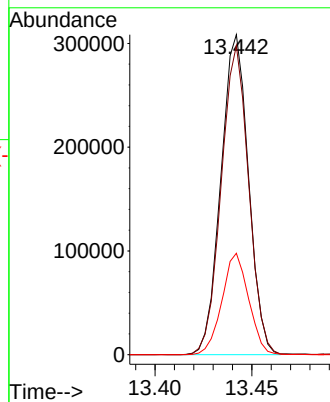
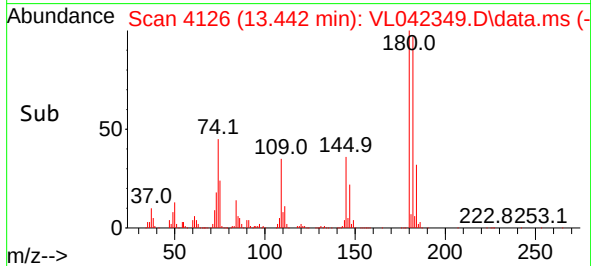
#81
 1,2,4-Trichlorobenzene
 Concen: 8.702 ppbv
 RT: 13.442 min Scan# 41
 Delta R.T. 0.000 min
 Lab File: VL042349.D
 Acq: 17 Apr 2025 09:44

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

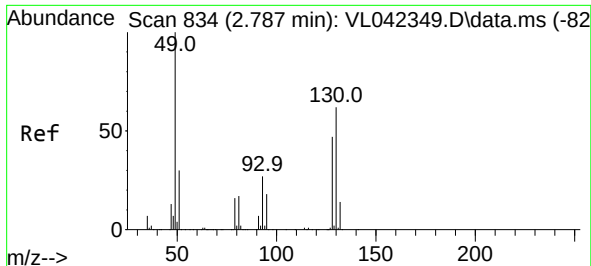
Quant Time: Apr 18 01:26:23 2025
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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 01:24:29 2025
 Response via : Initial Calibration

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

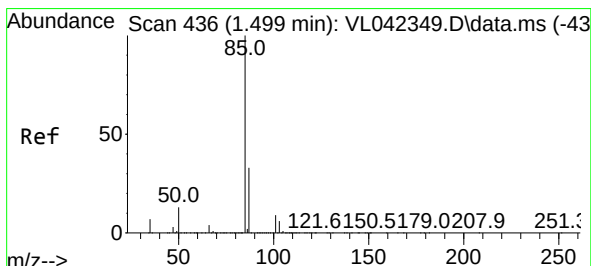
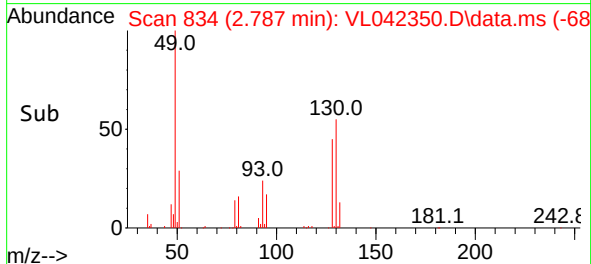
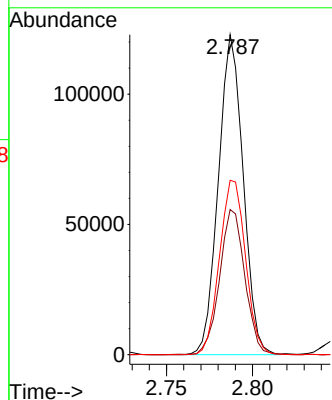
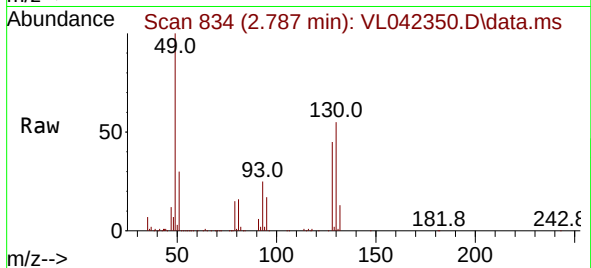
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- 13
- 14
- 15
- 16
- 17
- 18



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

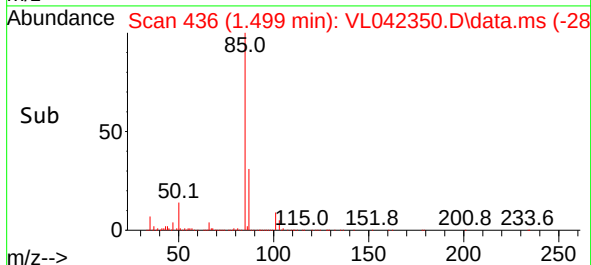
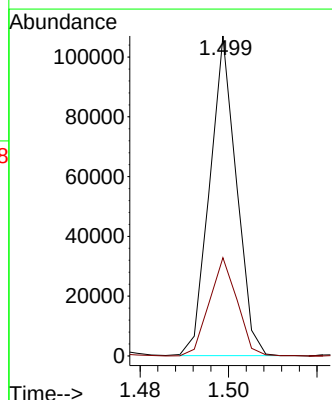
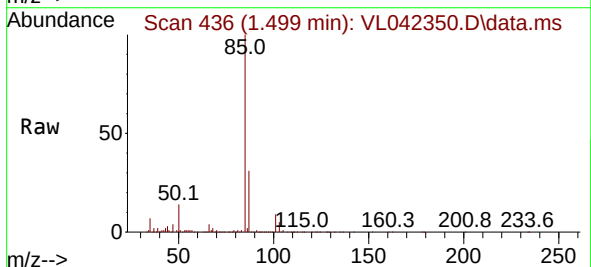
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC002

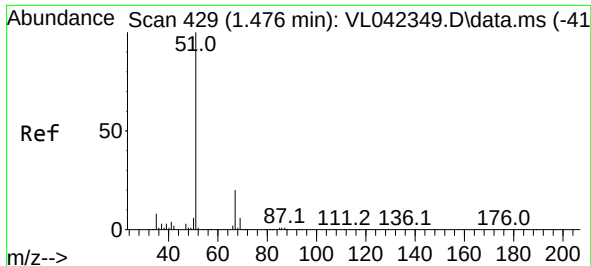
Tgt Ion: 49 Resp: 123206
Ion Ratio Lower Upper
49 100
128 46.2 22.8 68.4
130 57.3 29.3 88.0



#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

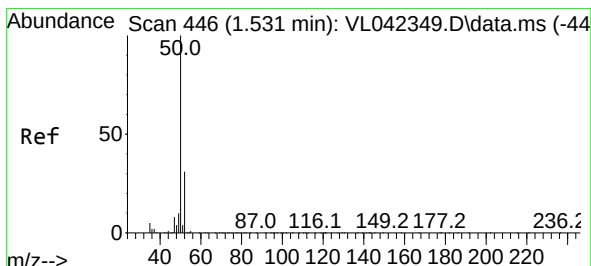
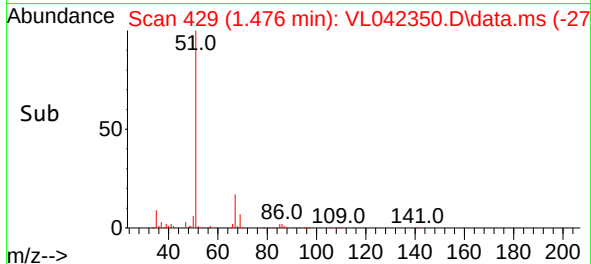
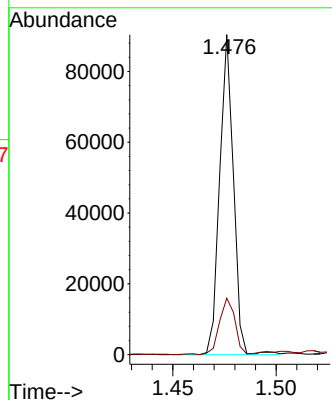
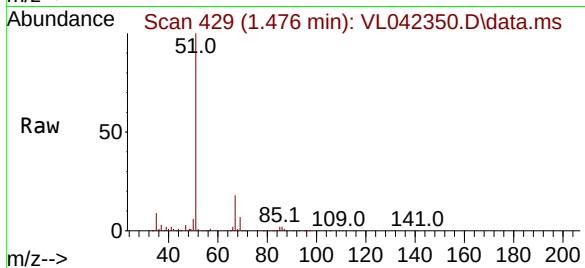




#3
Chlorodifluoromethane
Concen: 2.019 ppbv
RT: 1.476 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

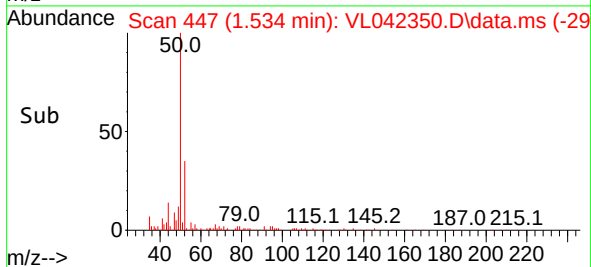
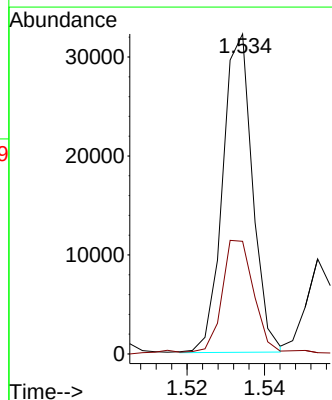
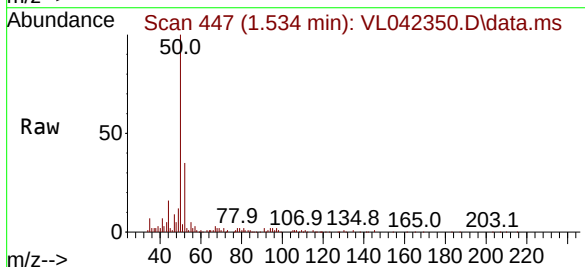
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

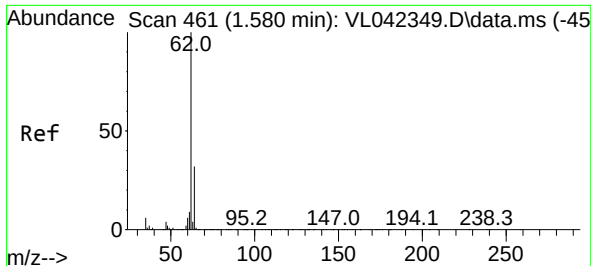
Tgt Ion: 51 Resp: 41853
Ion Ratio Lower Upper
51 100
67 21.7 16.2 24.4



#4
Chloromethane
Concen: 2.005 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 50 Resp: 17272
Ion Ratio Lower Upper
50 100
52 34.9 24.7 37.1

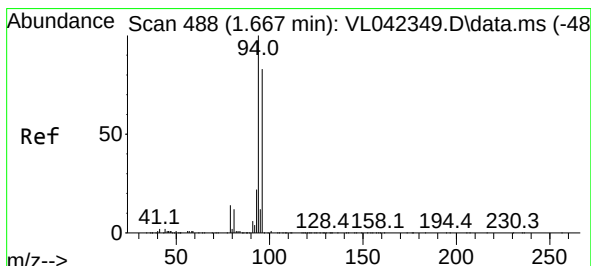
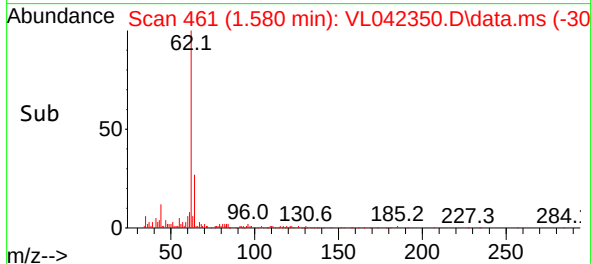
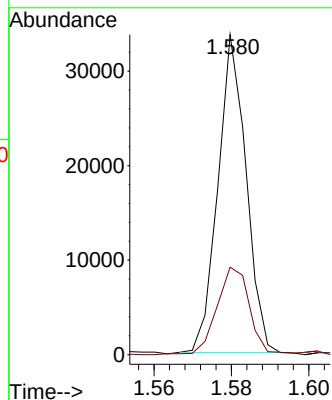
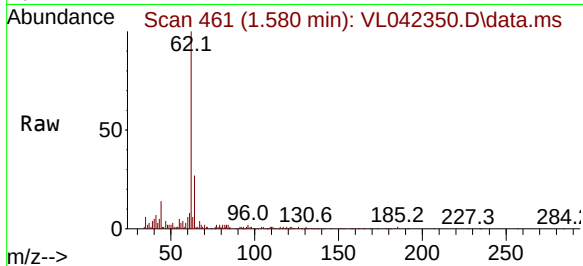




#5
 Vinyl Chloride
 Concen: 1.811 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. -0.000 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17

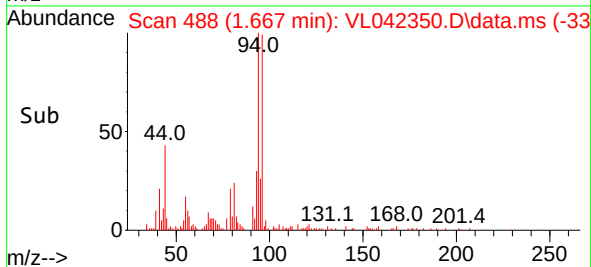
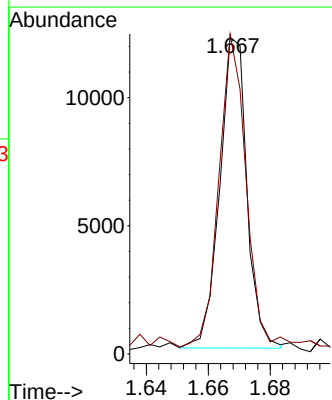
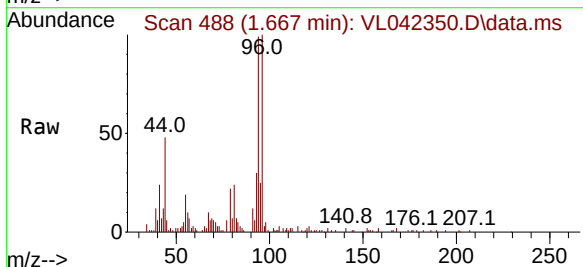
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC002

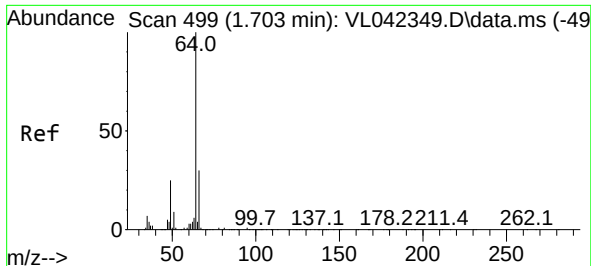
Tgt Ion: 62 Resp: 16979
 Ion Ratio Lower Upper
 62 100
 64 27.2 25.4 38.0



#6
 Bromomethane
 Concen: 1.821 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. -0.000 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17

Tgt Ion: 94 Resp: 7398
 Ion Ratio Lower Upper
 94 100
 96 100.8 66.2 99.2#

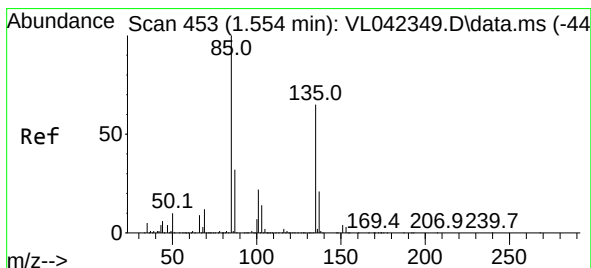
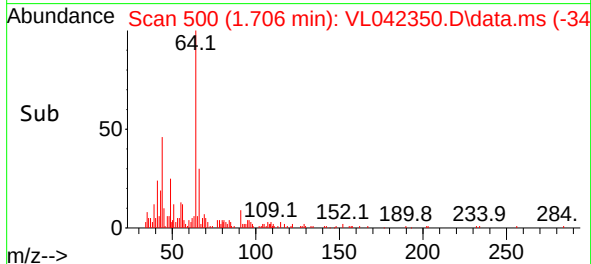
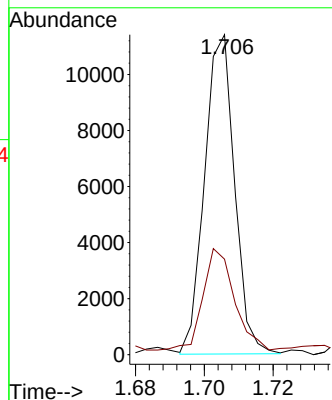
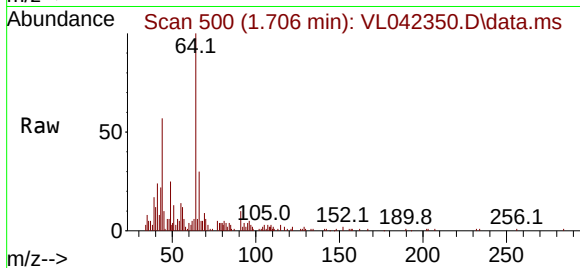




#7
Chloroethane
Concen: 2.031 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

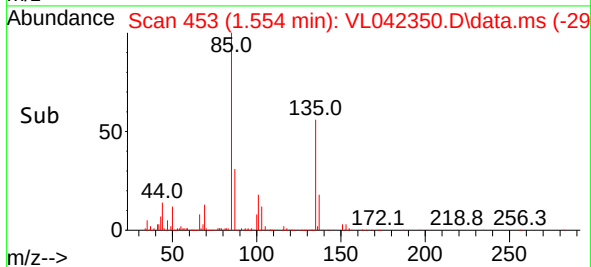
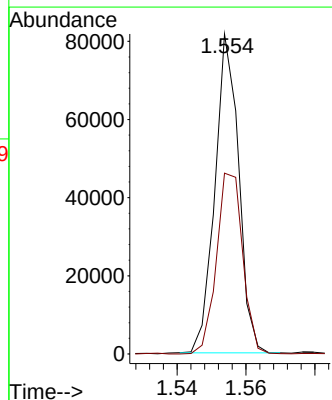
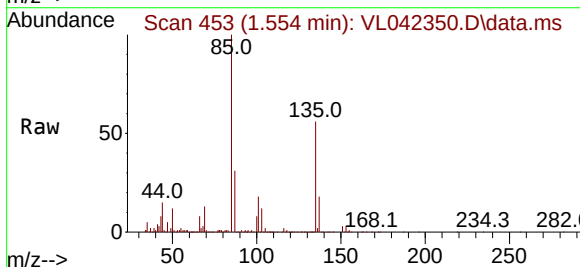
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC002

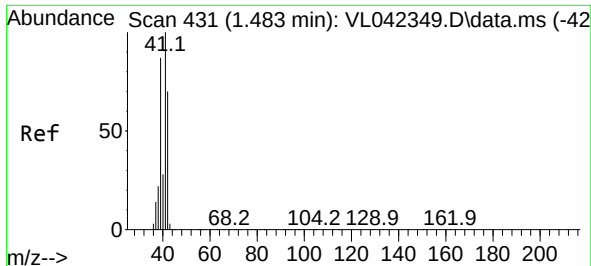
Tgt Ion: 64 Resp: 6889
Ion Ratio Lower Upper
64 100
66 29.8 24.6 37.0



#8
Dichlorotetrafluoroethane
Concen: 2.084 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 85 Resp: 38955
Ion Ratio Lower Upper
85 100
135 63.3 52.2 78.2

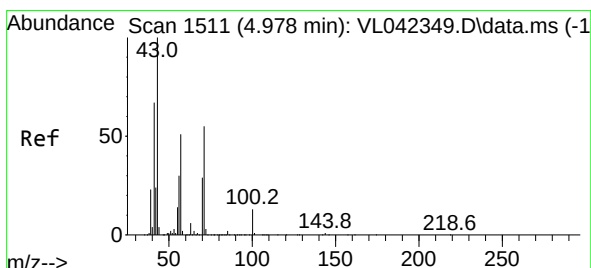
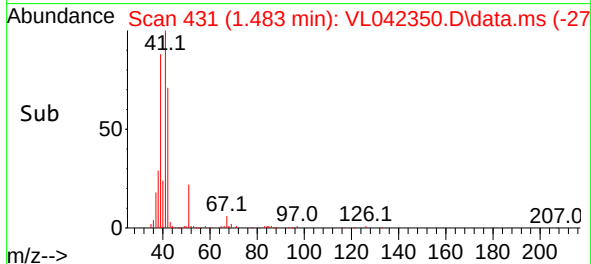
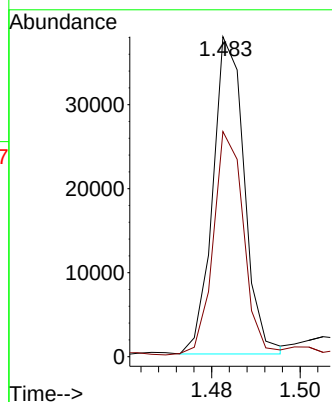
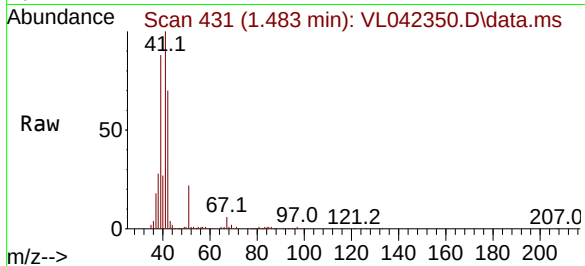




#9
Propene
Concen: 1.978 ppbv
RT: 1.483 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

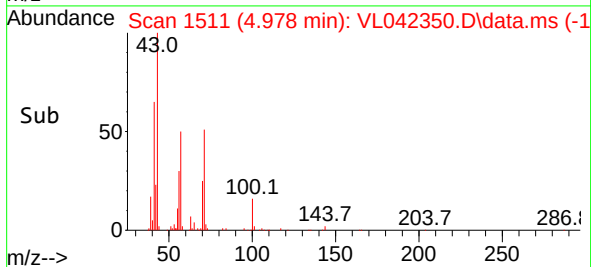
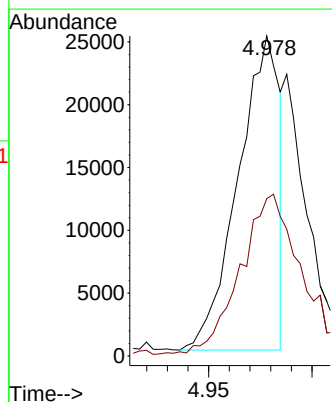
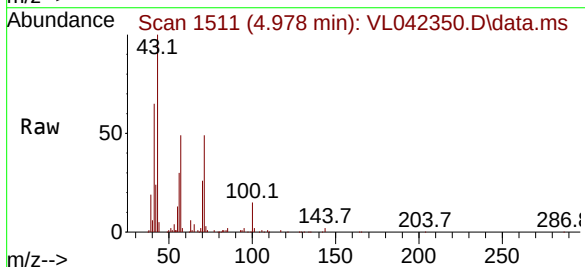
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC002

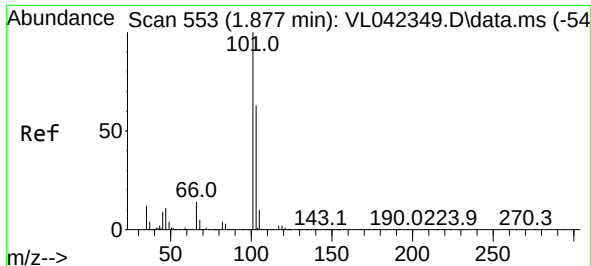
Tgt Ion: 41 Resp: 18671
Ion Ratio Lower Upper
41 100
42 72.7 56.2 84.4



#10
Heptane
Concen: 1.364 ppbv
RT: 4.978 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 43 Resp: 34658
Ion Ratio Lower Upper
43 100
57 75.9 39.9 59.9#

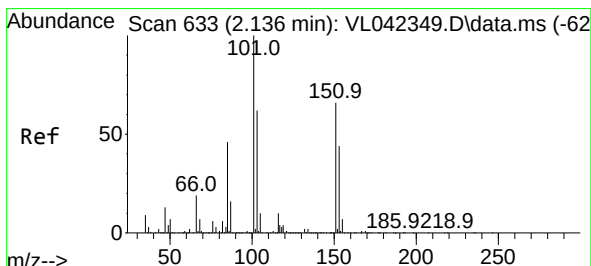
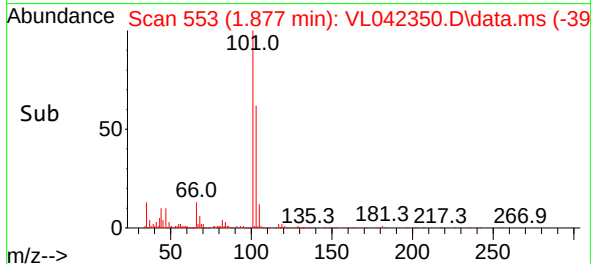
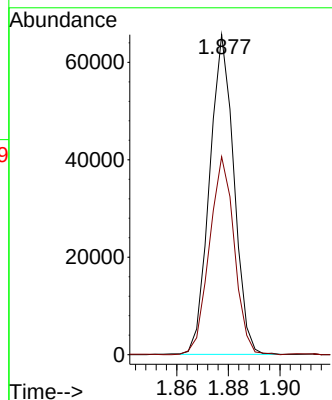
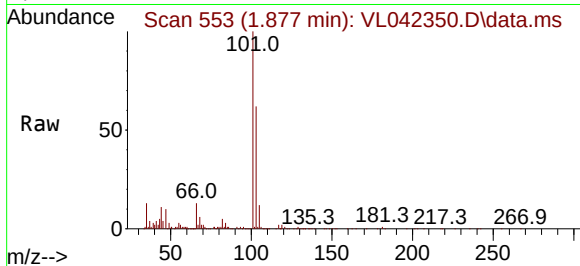




#11
 Trichlorofluoromethane
 Concen: 2.079 ppbv
 RT: 1.877 min Scan# 51
 Delta R.T. -0.000 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17

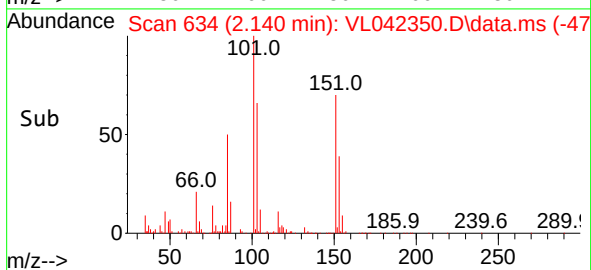
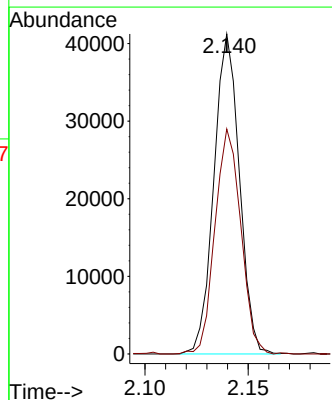
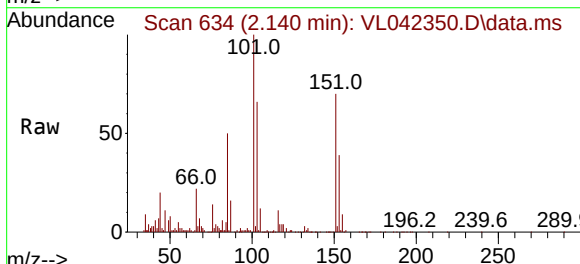
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

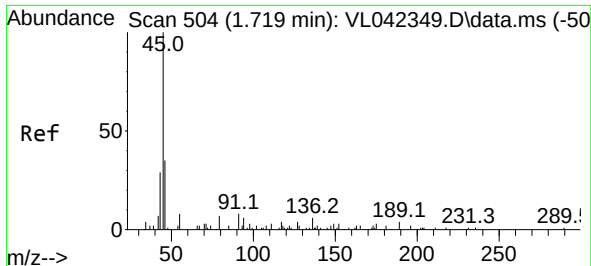
Tgt Ion:101 Resp: 43035
 Ion Ratio Lower Upper
 101 100
 103 61.9 50.1 75.1



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 2.092 ppbv
 RT: 2.140 min Scan# 634
 Delta R.T. 0.003 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17

Tgt Ion:101 Resp: 35415
 Ion Ratio Lower Upper
 101 100
 151 71.5 57.0 85.6

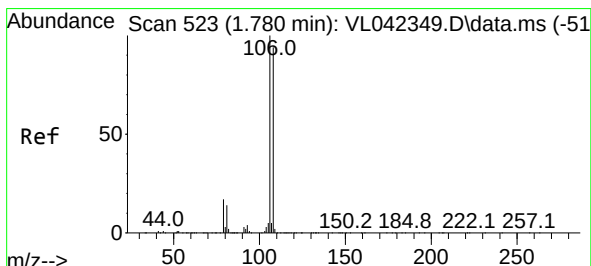
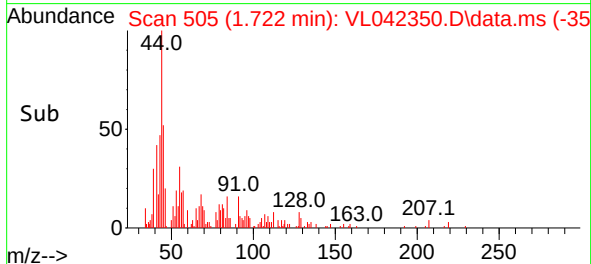
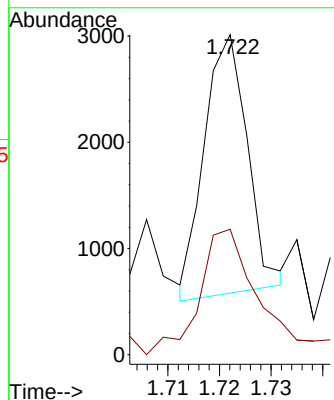
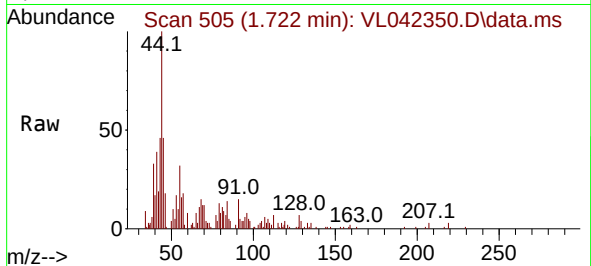




#13
Ethanol
Concen: 1.837 ppbv
RT: 1.722 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

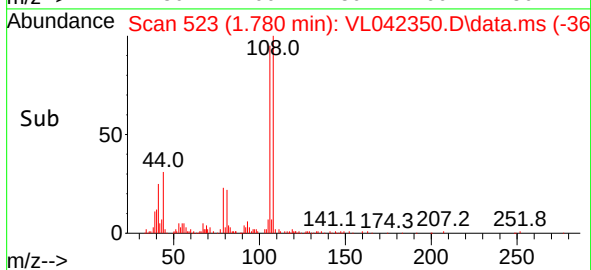
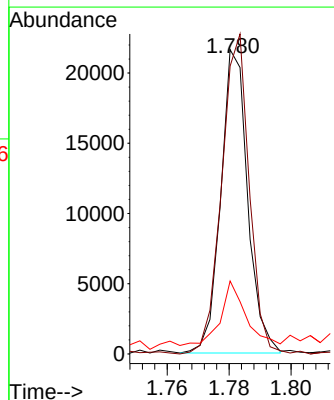
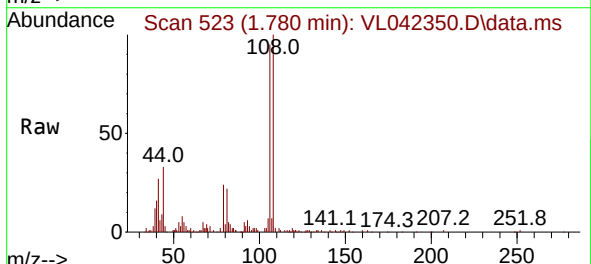
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC002

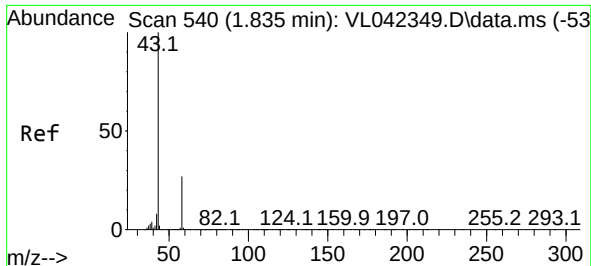
Tgt Ion: 45 Resp: 1417
Ion Ratio Lower Upper
45 100
46 84.1 21.9 87.7



#14
Bromoethene
Concen: 2.045 ppbv
RT: 1.780 min Scan# 523
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 108 Resp: 13049
Ion Ratio Lower Upper
108 100
106 110.2 85.9 128.9
79 34.0 13.9 20.9#

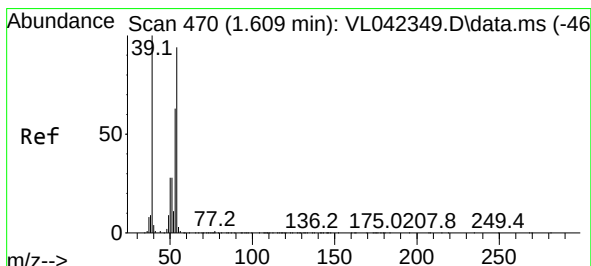
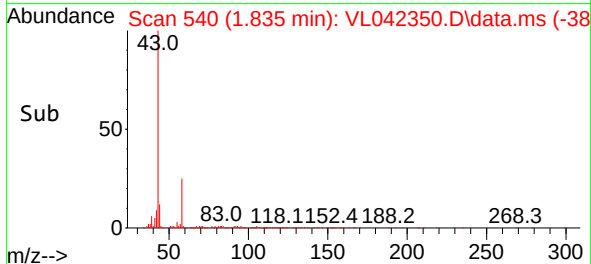
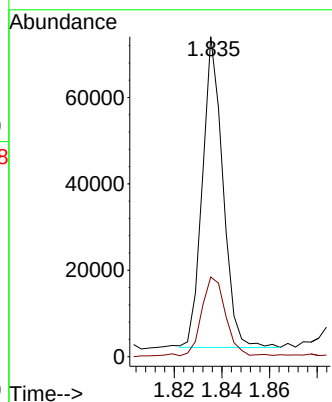
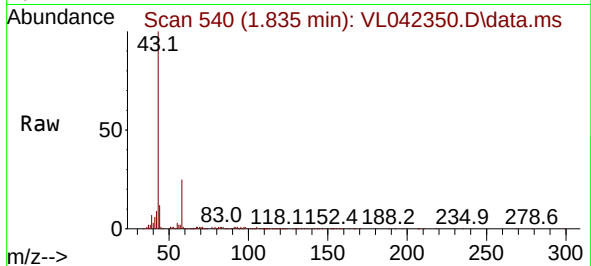




#15
Acetone
Concen: 2.129 ppbv
RT: 1.835 min Scan# 540
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

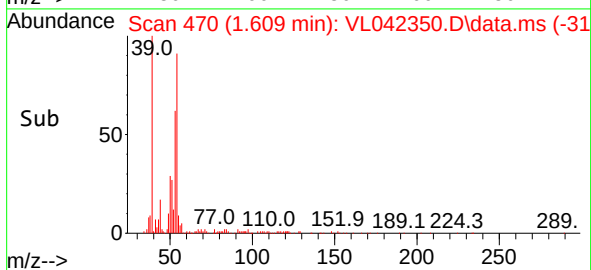
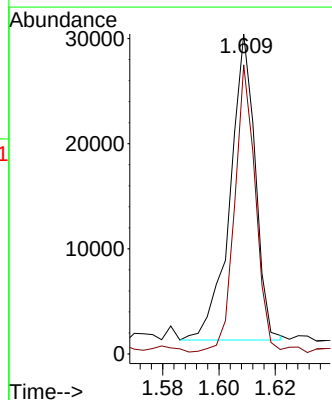
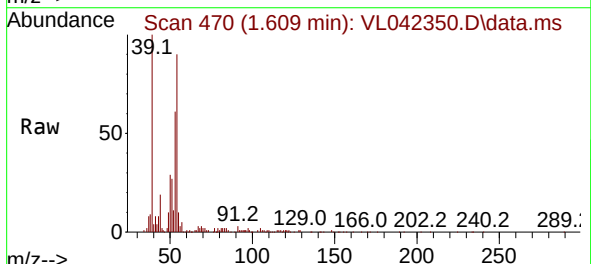
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

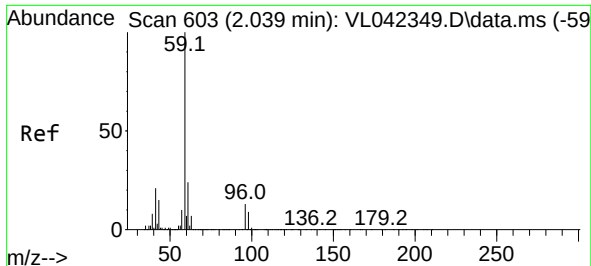
Tgt Ion: 43 Resp: 42949
Ion Ratio Lower Upper
43 100
58 31.4 22.4 33.6



#16
1,3-Butadiene
Concen: 1.912 ppbv
RT: 1.609 min Scan# 470
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 39 Resp: 18110
Ion Ratio Lower Upper
39 100
54 77.2 64.9 97.3

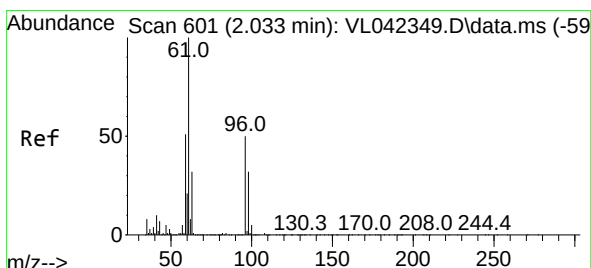
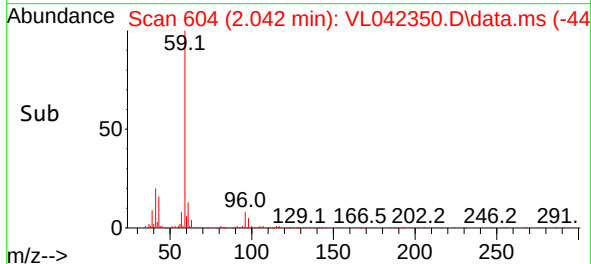
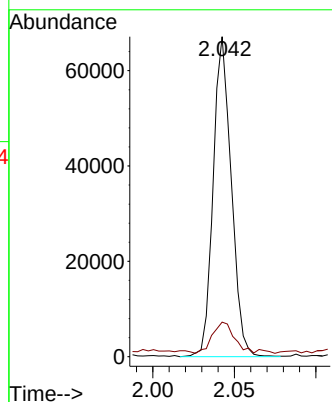
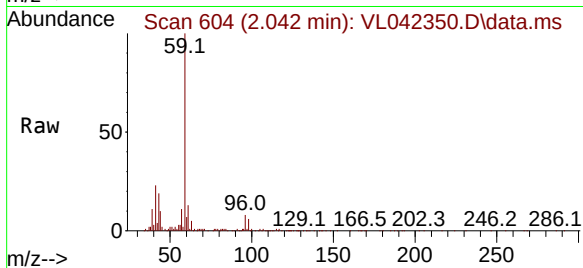




#17
tert-Butyl alcohol
Concen: 2.074 ppbv
RT: 2.042 min Scan# 603
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

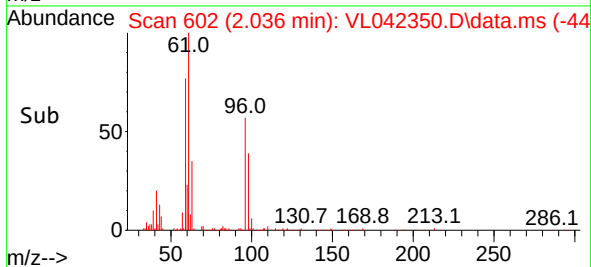
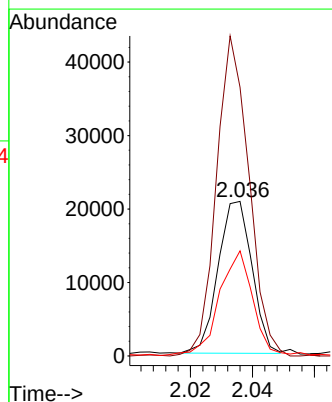
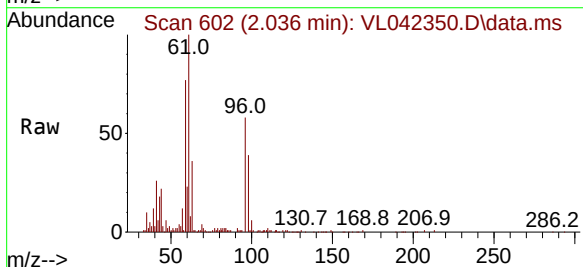
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC002

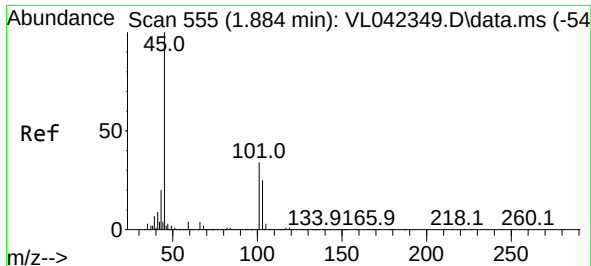
Tgt Ion: 59 Resp: 51829
Ion Ratio Lower Upper
59 100
57 13.2 8.7 13.1#



#18
1,1-Dichloroethene
Concen: 1.928 ppbv
RT: 2.036 min Scan# 602
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 96 Resp: 15690
Ion Ratio Lower Upper
96 100
61 176.1 160.2 240.2
98 67.2 51.0 76.4

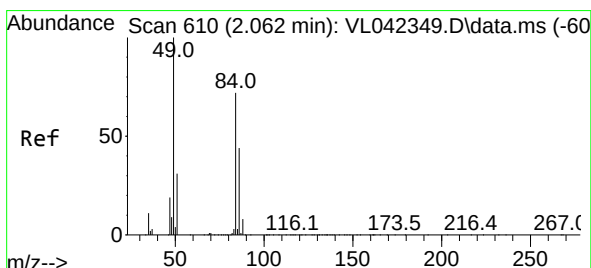
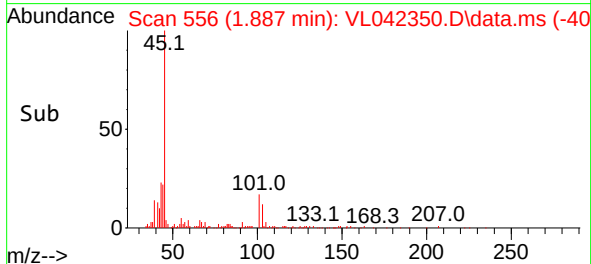
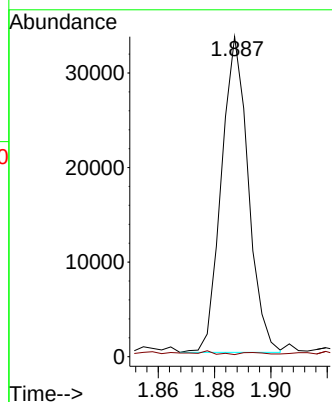
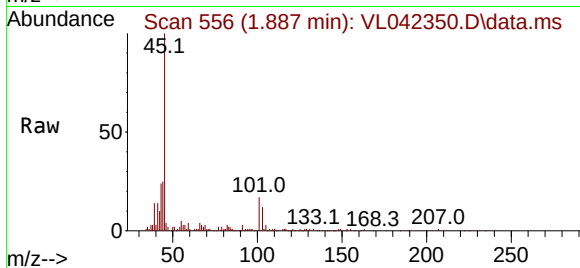




#19
Isopropyl Alcohol
Concen: 1.973 ppbv
RT: 1.887 min Scan# 511
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

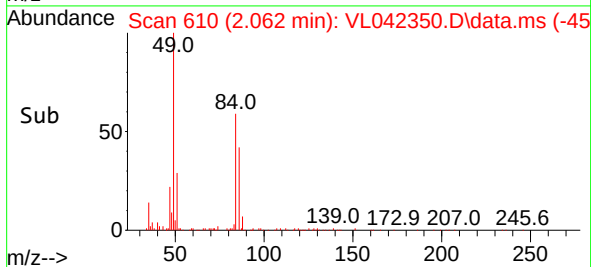
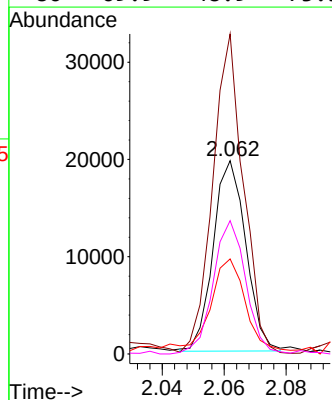
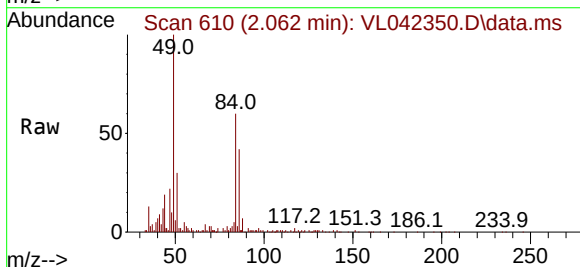
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC002

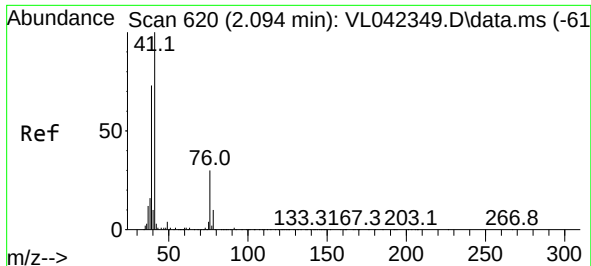
Tgt Ion: 45 Resp: 22106
Ion Ratio Lower Upper
45 100
58 3.6 34.5 51.7#



#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

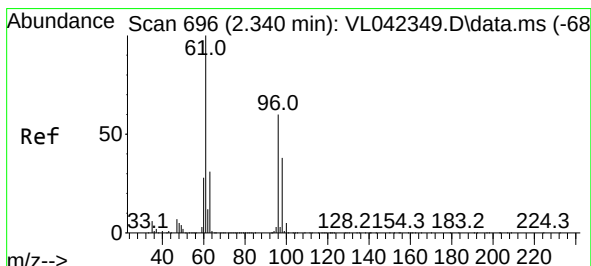
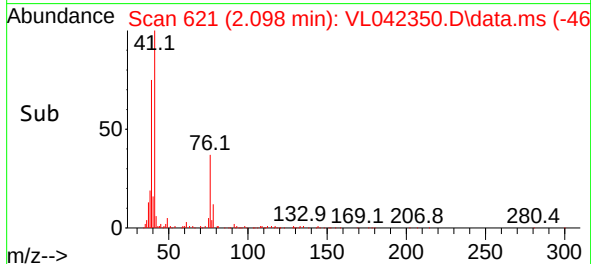
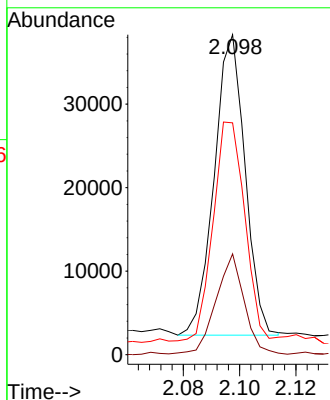
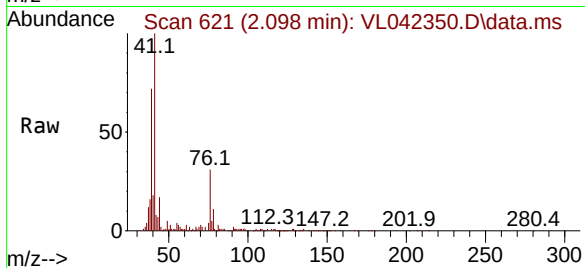




#21
 Allyl Chloride
 Concen: 1.963 ppbv
 RT: 2.098 min Scan# 61
 Delta R.T. 0.003 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17

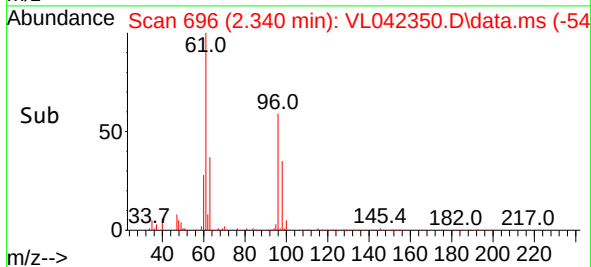
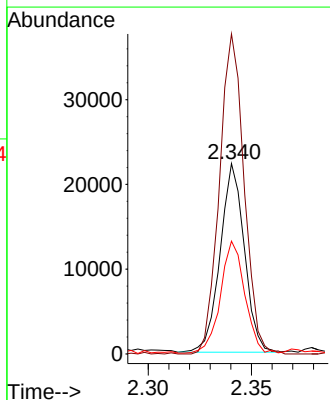
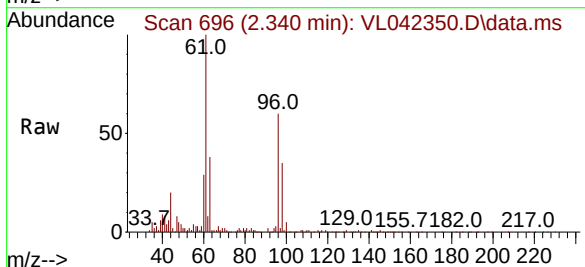
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

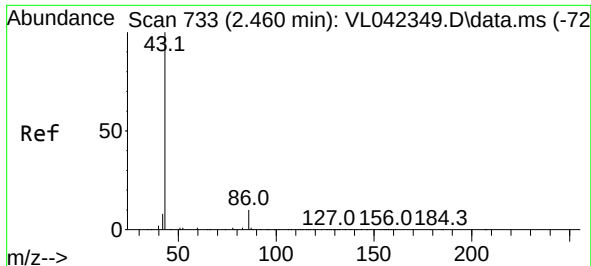
Tgt Ion: 41 Resp: 27340
 Ion Ratio Lower Upper
 41 100
 76 31.9 24.8 37.2
 39 81.2 60.6 90.8



#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

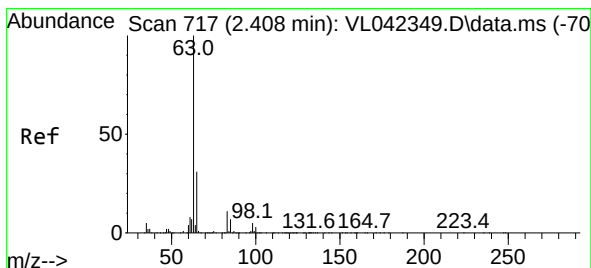
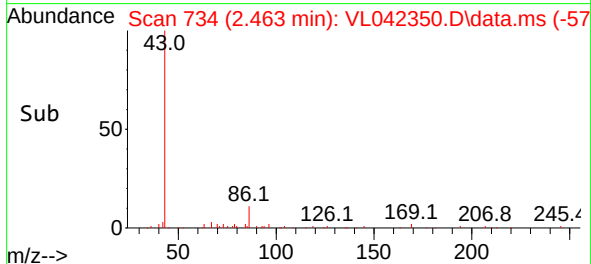
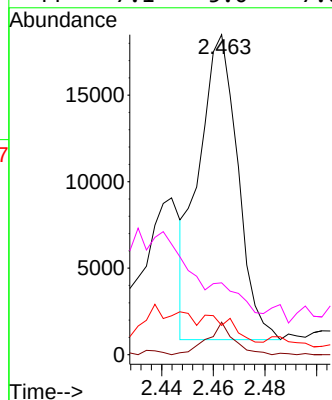
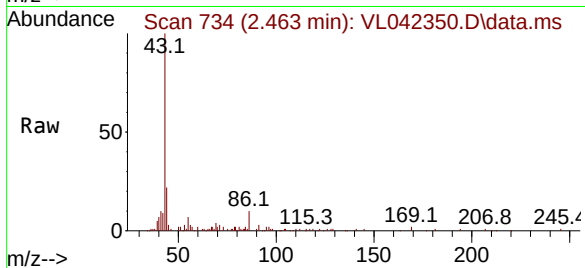




#23
 Vinyl Acetate
 Concen: 2.260 ppbv
 RT: 2.463 min Scan# 718
 Delta R.T. 0.003 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17

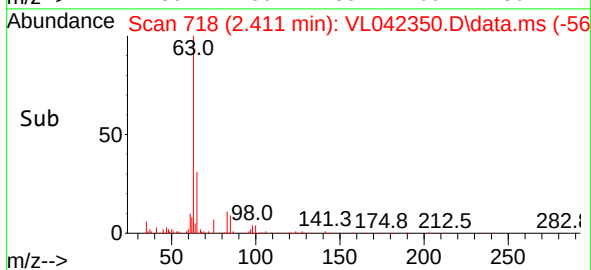
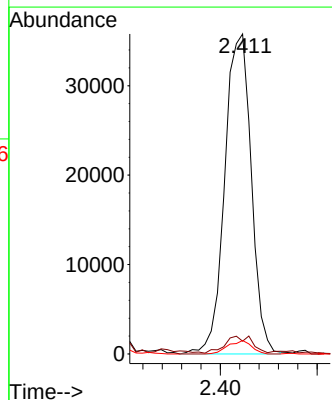
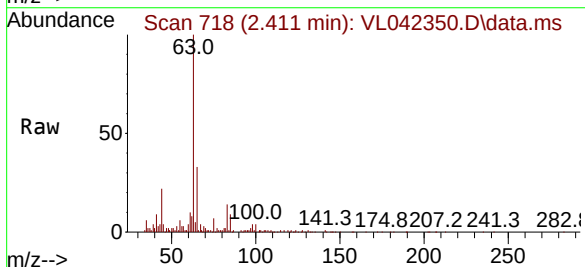
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC002

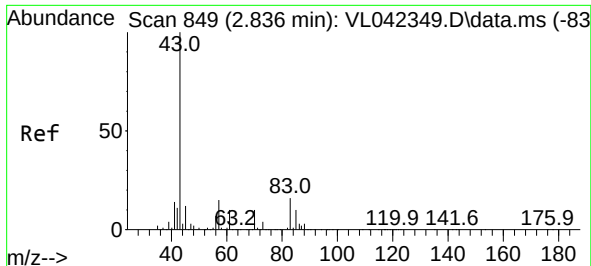
Tgt Ion:	43	Resp:	18454
Ion	Ratio	Lower	Upper
43	100		
86	10.2	6.5	9.7#
42	3.7	7.8	11.8#
44	7.1	5.0	7.6



#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



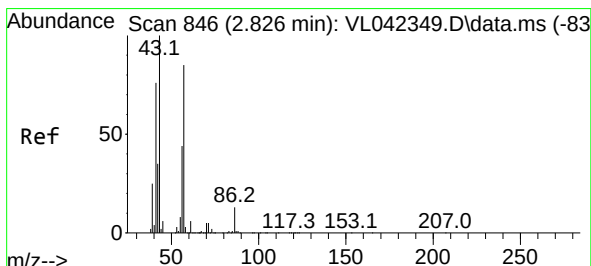
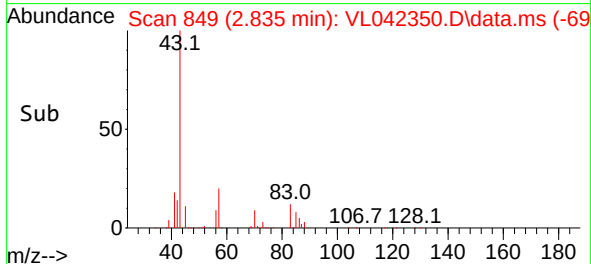
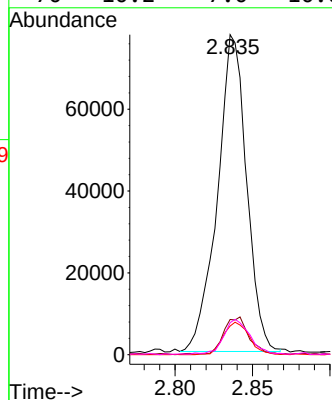
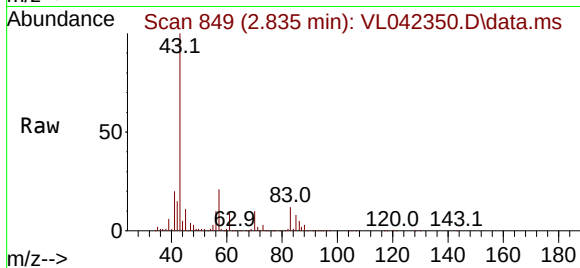


#25
Ethyl Acetate
Concen: 2.040 ppbv
RT: 2.835 min Scan# 849
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 43 Resp: 101467

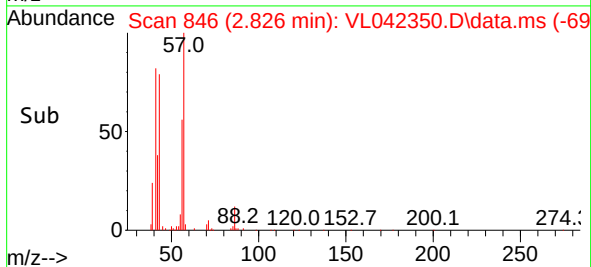
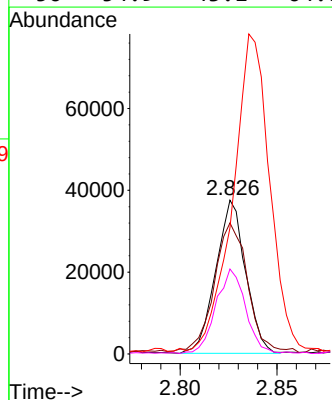
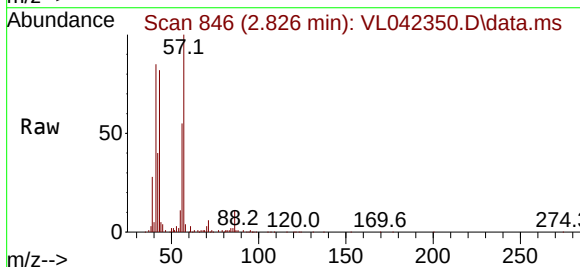
Ion	Ratio	Lower	Upper
43	100		
45	10.4	8.3	12.5
61	9.2	7.3	10.9
70	10.2	7.0	10.6

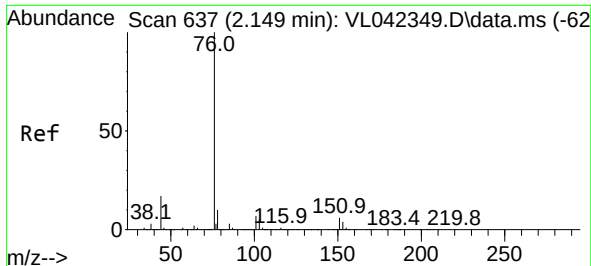


#26
Hexane
Concen: 1.990 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

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

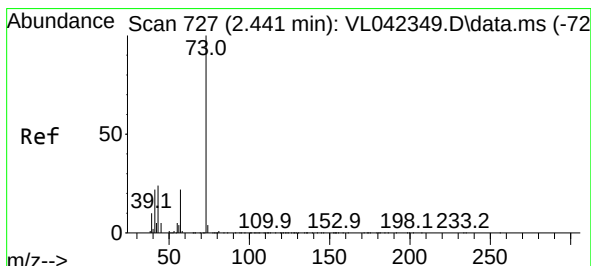
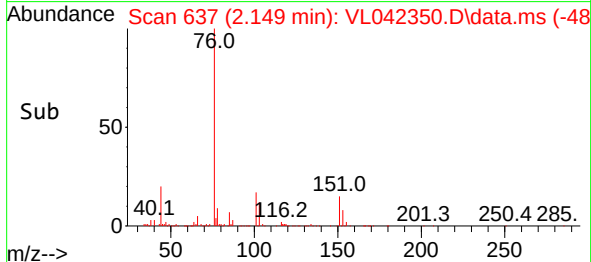
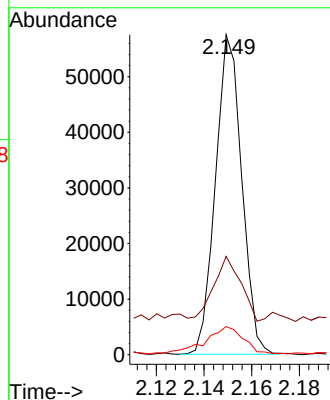
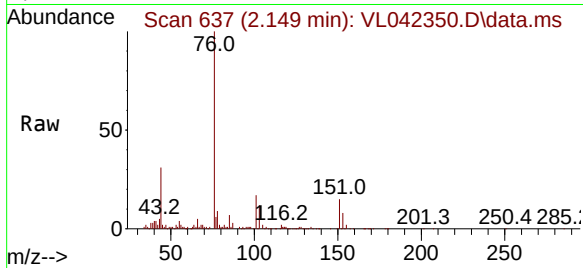




#27
Carbon Disulfide
Concen: 2.041 ppbv
RT: 2.149 min Scan# 61
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

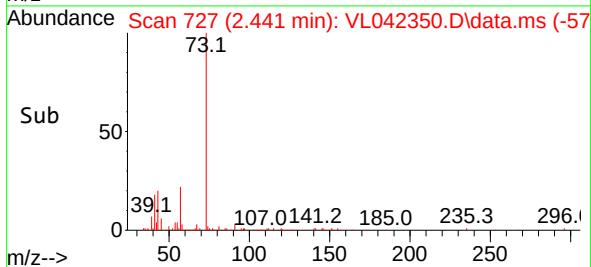
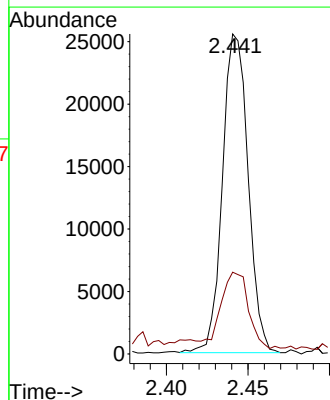
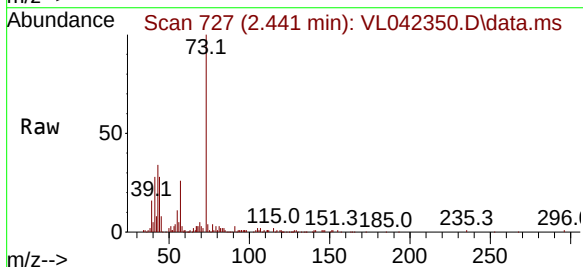
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC002

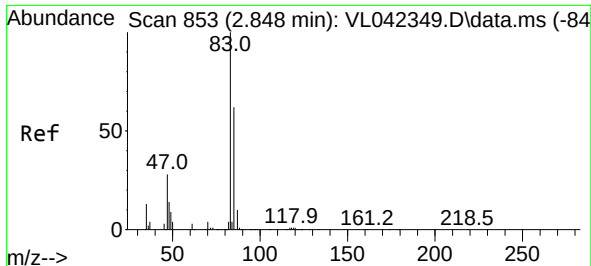
Tgt Ion: 76 Resp: 43975
Ion Ratio Lower Upper
76 100
44 44.3 15.5 23.3#
78 13.6 9.3 13.9



#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 :

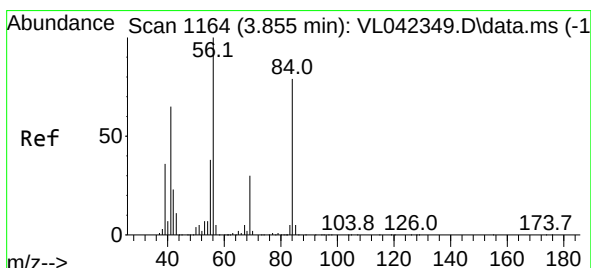
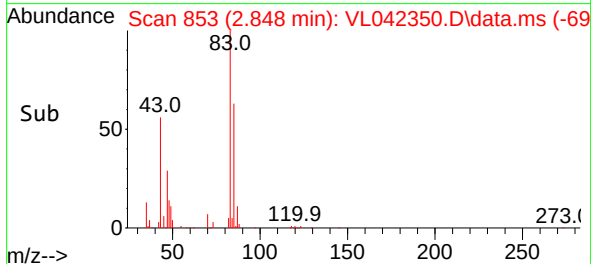
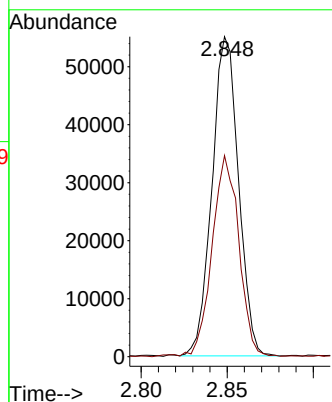
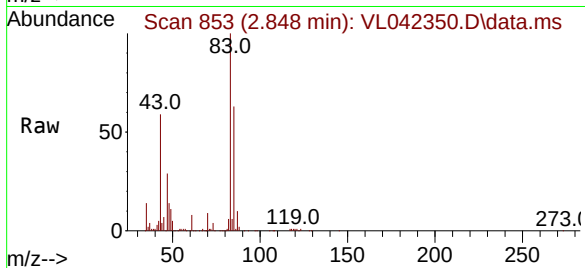
VSTDIC002

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

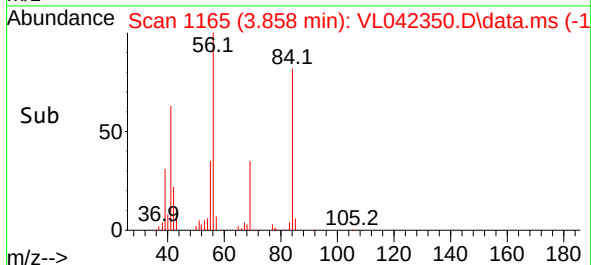
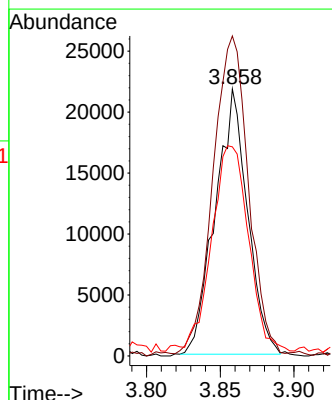
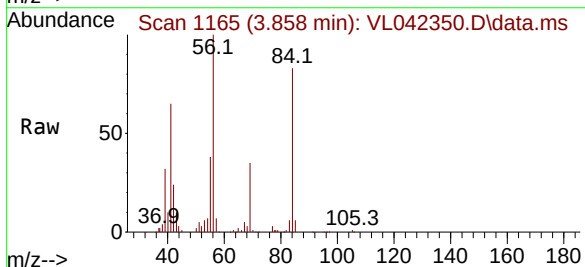
Tgt Ion: 84 Resp: 33195

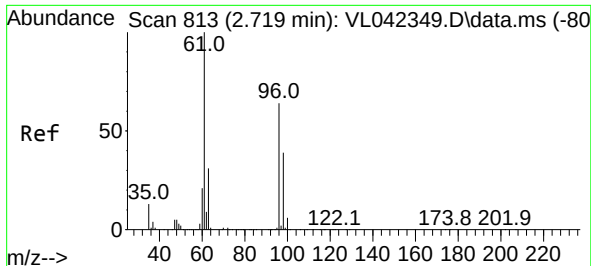
Ion Ratio Lower Upper

84 100

56 134.5 101.0 151.4

41 88.1 67.4 101.0

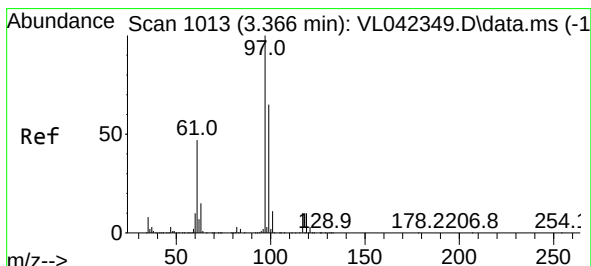
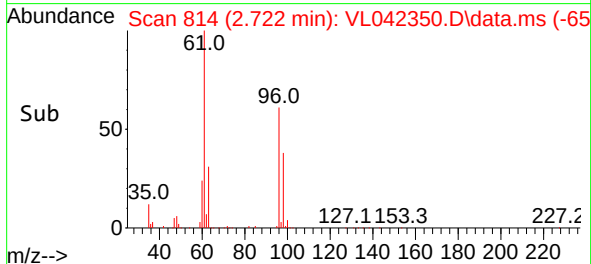
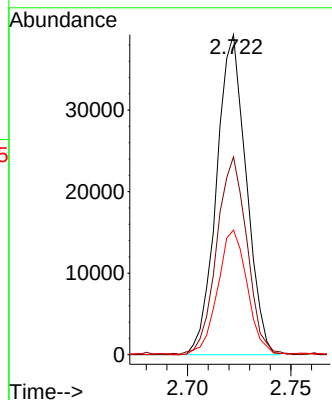
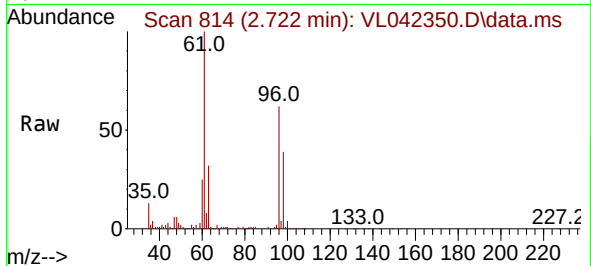




#31
cis-1,2-Dichloroethene
Concen: 2.051 ppbv
RT: 2.722 min Scan# 813
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

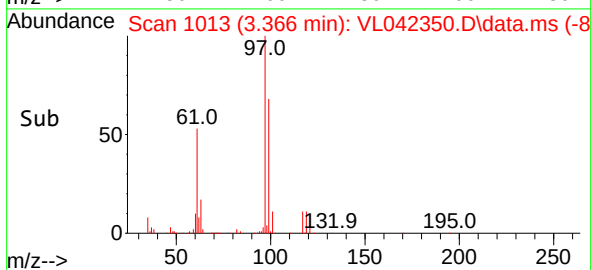
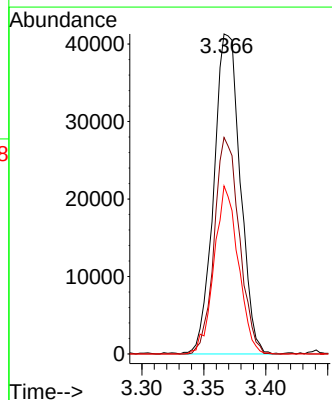
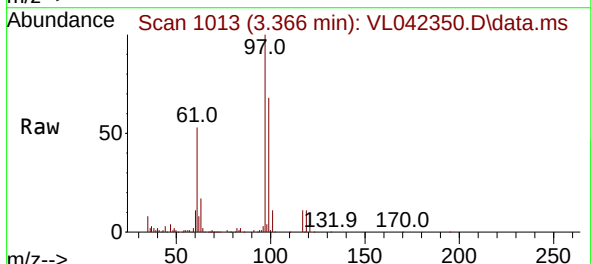
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

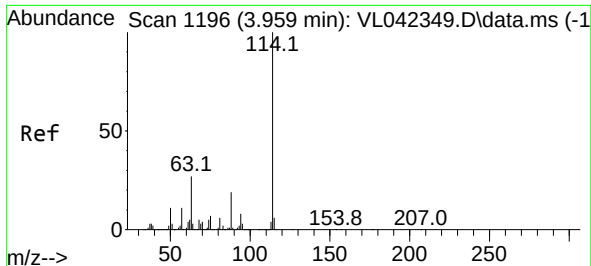
Tgt Ion: 61 Resp: 39249
Ion Ratio Lower Upper
61 100
96 61.6 50.8 76.2
98 39.0 30.9 46.3



#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 :

VSTDICC002

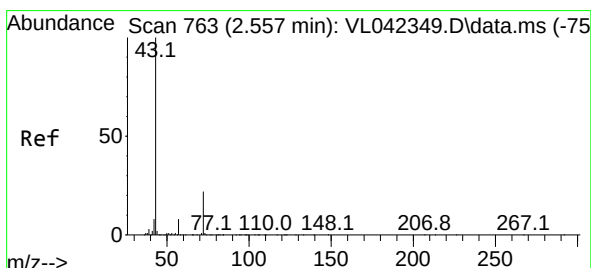
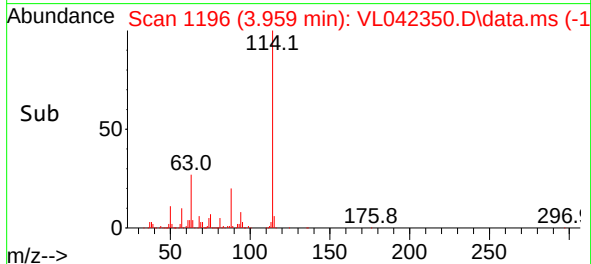
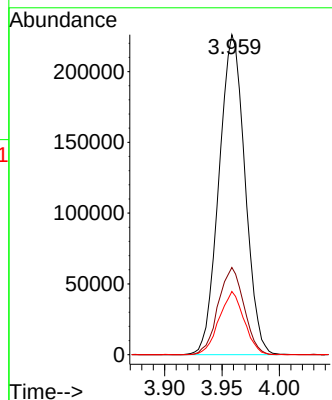
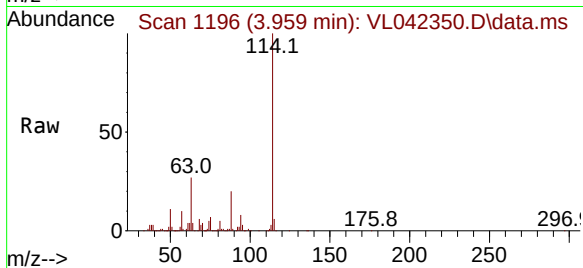
Tgt Ion:114 Resp: 355918

Ion Ratio Lower Upper

114 100

63 27.1 21.8 32.6

88 19.0 15.5 23.3



#34

2-Butanone

Concen: 2.069 ppbv

RT: 2.560 min Scan# 764

Delta R.T. 0.003 min

Lab File: VL042350.D

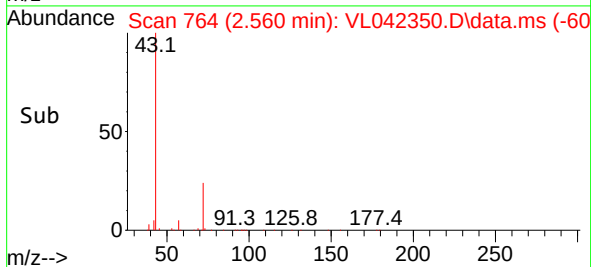
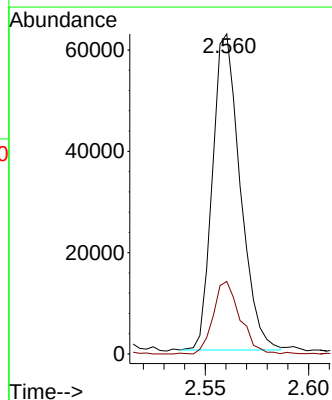
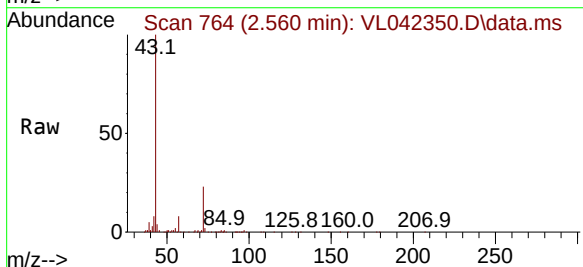
Acq: 17 Apr 2025 10:17

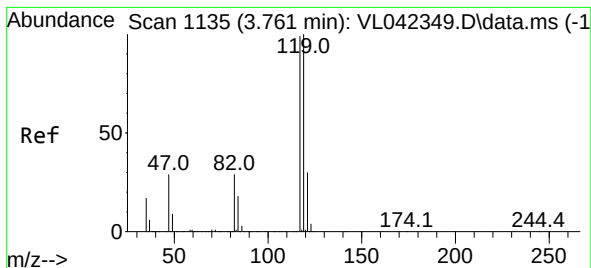
Tgt Ion: 43 Resp: 58249

Ion Ratio Lower Upper

43 100

72 22.5 18.2 27.2





#35

Carbon Tetrachloride

Concen: 1.872 ppbv

RT: 3.761 min Scan# 1135

Delta R.T. -0.000 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

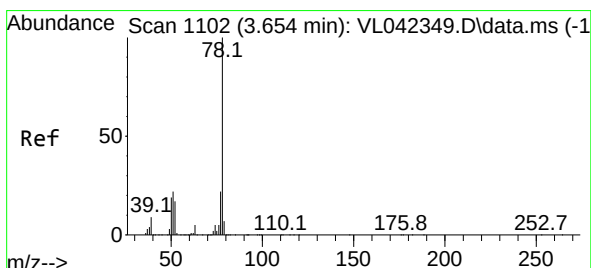
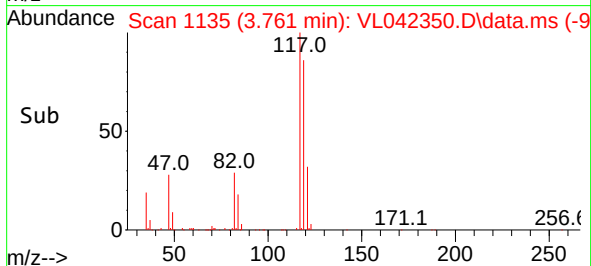
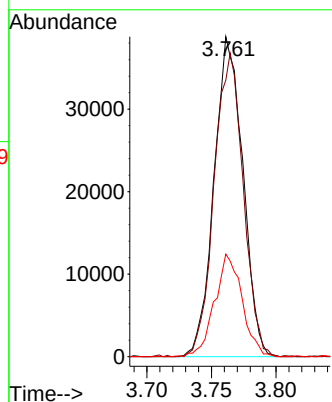
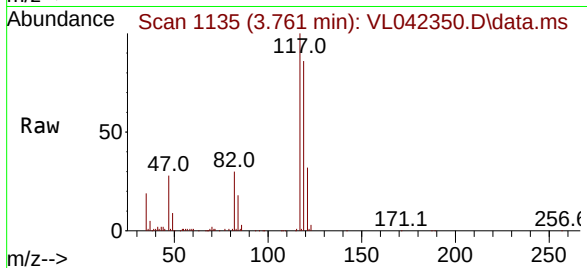
Tgt Ion:117 Resp: 60291

Ion Ratio Lower Upper

117 100

119 86.4 80.5 120.7

121 32.1 24.2 36.2



#36

Benzene

Concen: 2.079 ppbv

RT: 3.658 min Scan# 1103

Delta R.T. 0.003 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

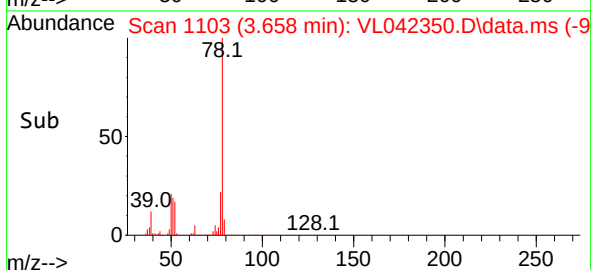
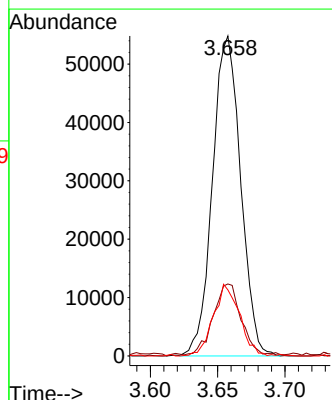
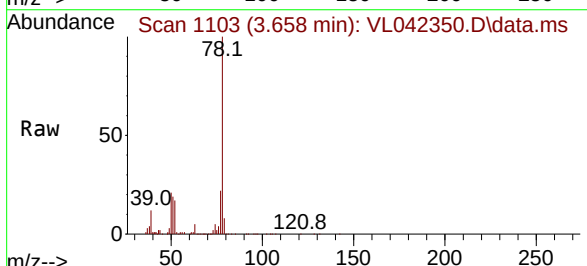
Tgt Ion: 78 Resp: 79814

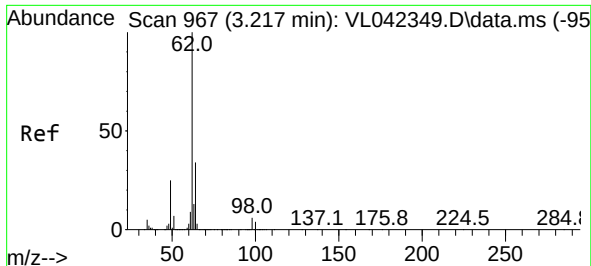
Ion Ratio Lower Upper

78 100

77 22.0 17.4 26.0

50 20.6 15.5 23.3

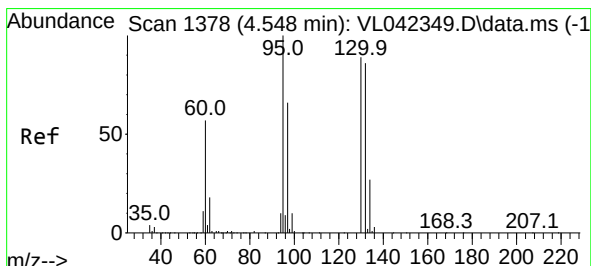
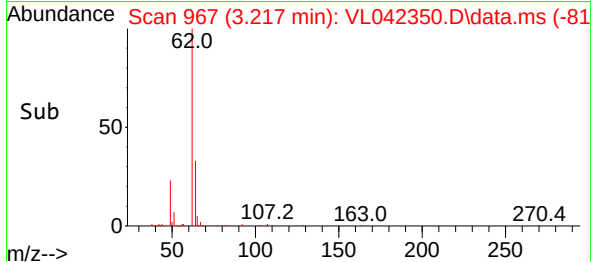
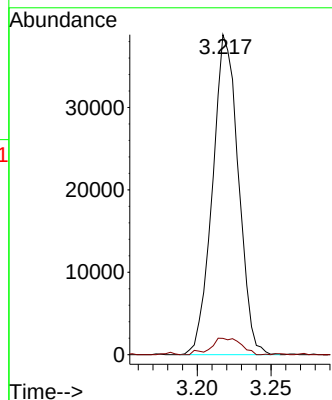
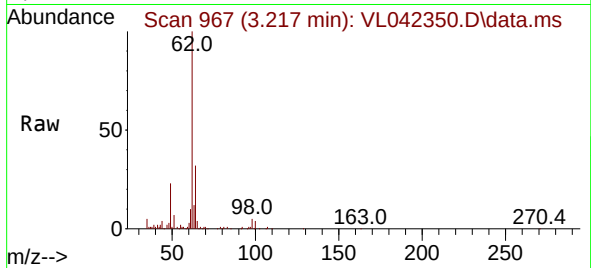




#37
1,2-Dichloroethane
Concen: 2.057 ppbv
RT: 3.217 min Scan# 91
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

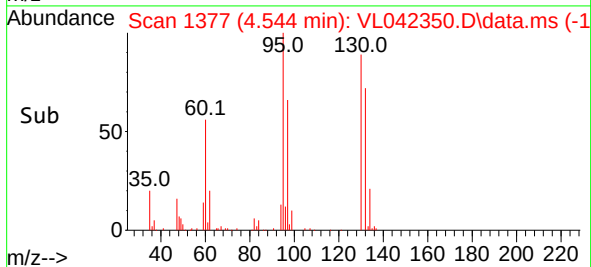
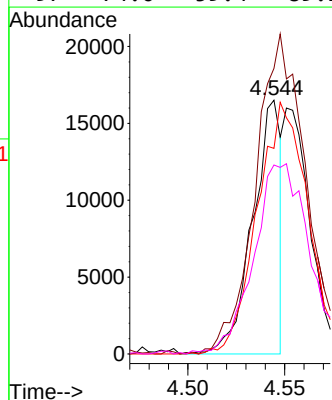
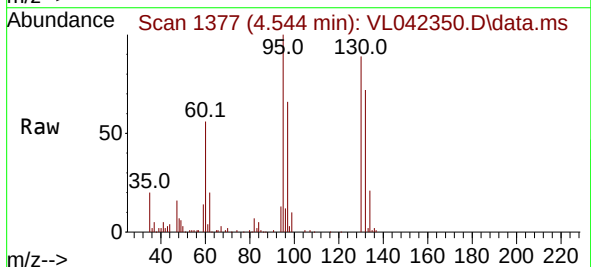
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC002

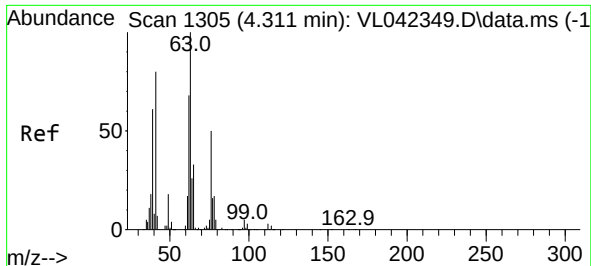
Tgt Ion: 62 Resp: 47398
Ion Ratio Lower Upper
62 100
98 6.4 5.1 7.7



#38
Trichloroethene
Concen: 0.986 ppbv
RT: 4.544 min Scan# 1377
Delta R.T. -0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:130 Resp: 16602
Ion Ratio Lower Upper
130 100
95 112.6 89.8 134.6
132 81.1 77.7 116.5
97 74.0 59.4 89.2





#39

1,2-Dichloropropane

Concen: 2.012 ppbv

RT: 4.315 min Scan# 11

Delta R.T. 0.003 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

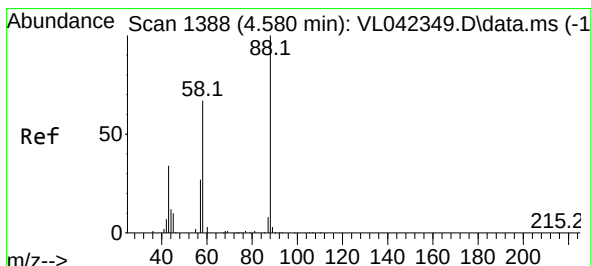
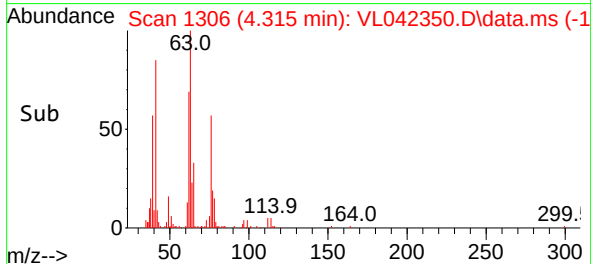
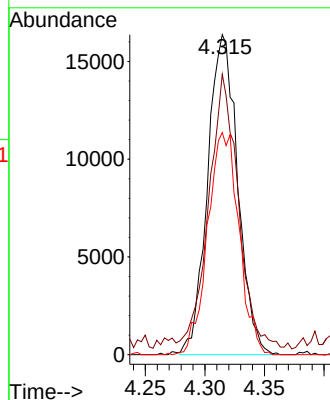
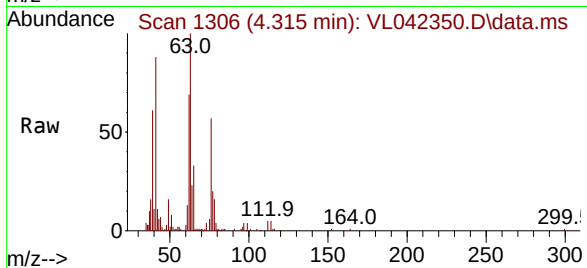
Tgt Ion: 63 Resp: 28806

Ion Ratio Lower Upper

63 100

41 85.2 64.2 96.2

62 69.4 54.3 81.5



#40

1,4-Dioxane

Concen: 2.067 ppbv

RT: 4.593 min Scan# 1392

Delta R.T. 0.013 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

Tgt Ion: 88 Resp: 16026

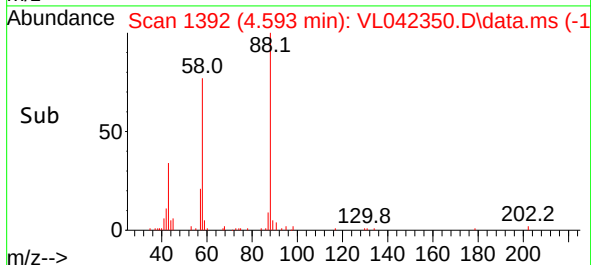
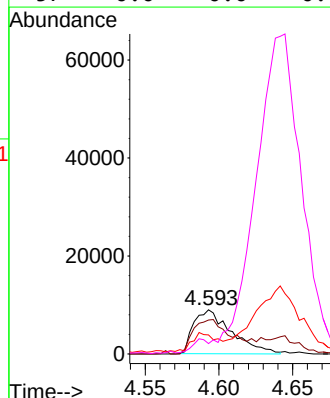
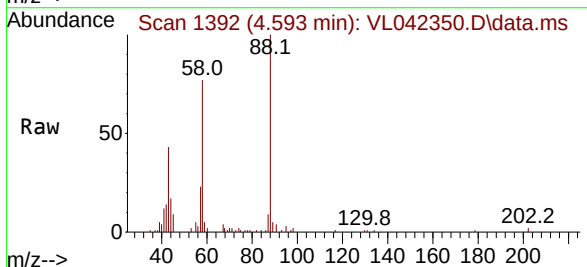
Ion Ratio Lower Upper

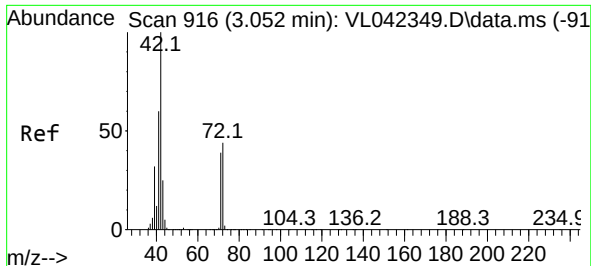
88 100

58 84.9 61.4 92.0

43 6.3 23.2 34.8#

57 0.0 0.0 0.0

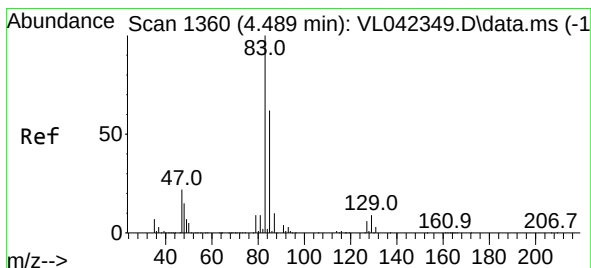
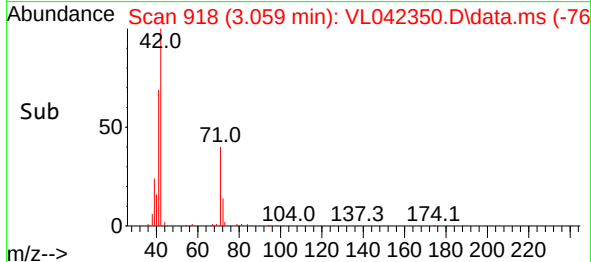
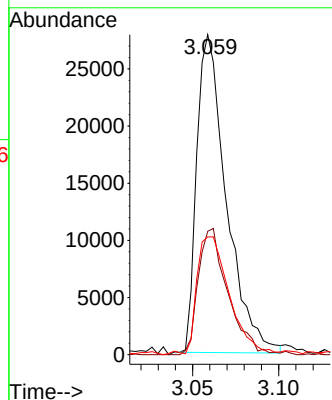
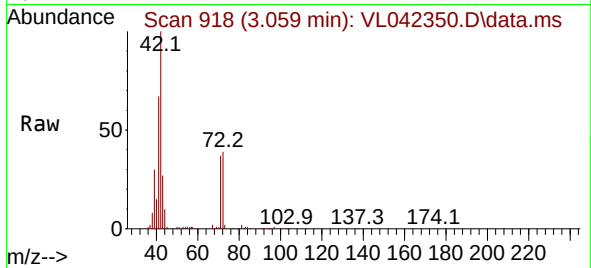




#41
Tetrahydrofuran
Concen: 2.047 ppbv
RT: 3.059 min Scan# 916
Delta R.T. 0.006 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

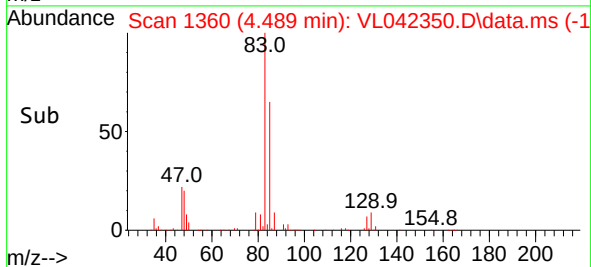
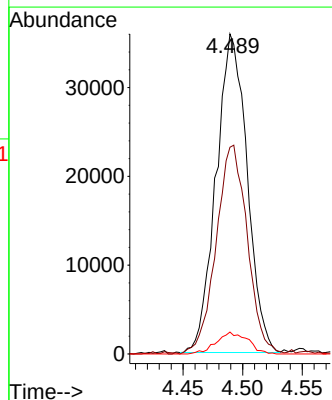
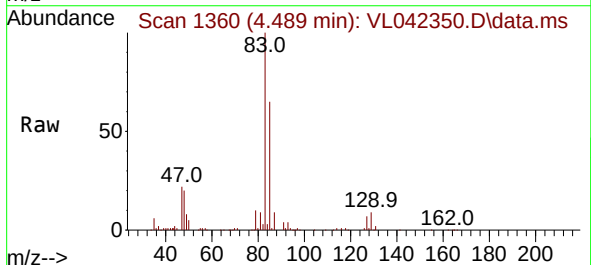
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

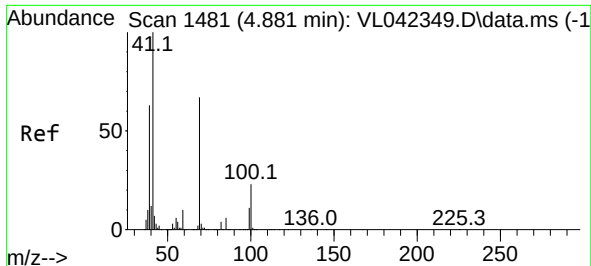
Tgt Ion:	42	Resp:	33298
Ion	Ratio	Lower	Upper
42	100		
72	39.9	32.3	48.5
71	41.5	31.4	47.2



#42
Bromodichloromethane
Concen: 2.025 ppbv
RT: 4.489 min Scan# 1360
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:	83	Resp:	64941
Ion	Ratio	Lower	Upper
83	100		
85	64.9	49.7	74.5
127	6.9	5.1	7.7

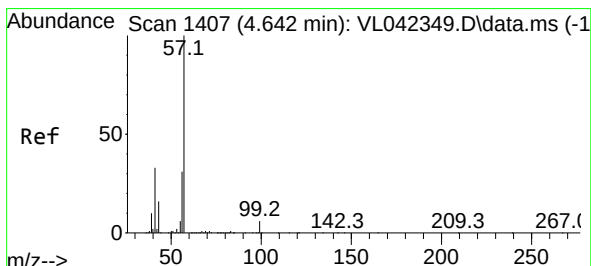
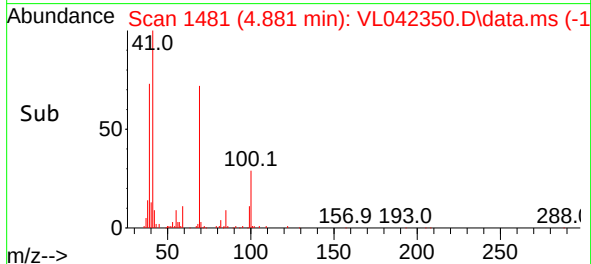
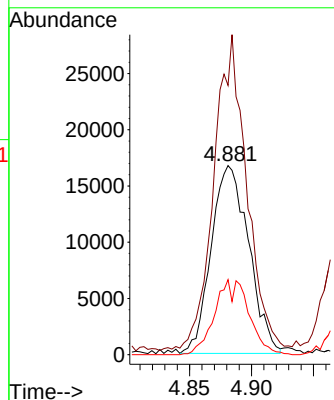
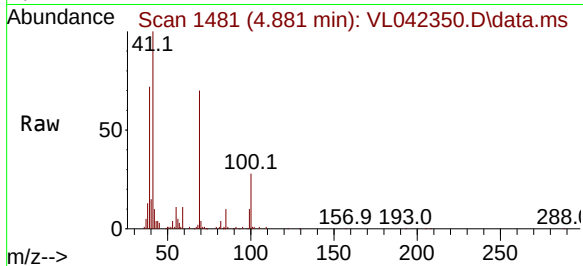




#43
Methyl Methacrylate
Concen: 2.046 ppbv
RT: 4.881 min Scan# 1481
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

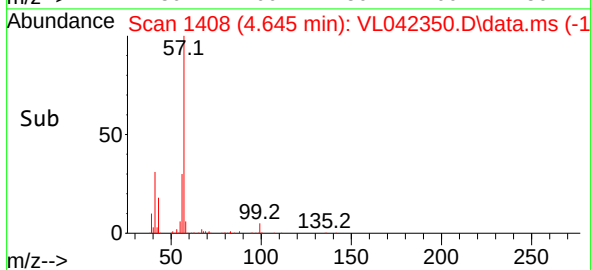
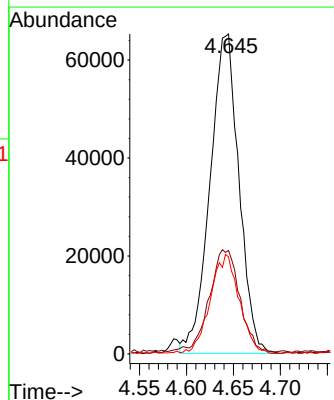
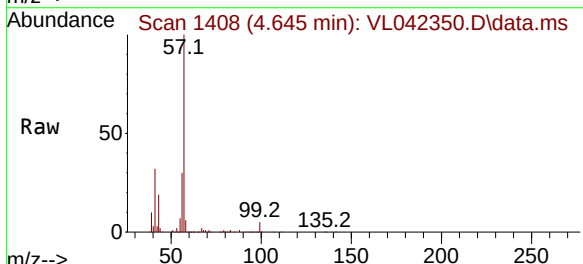
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

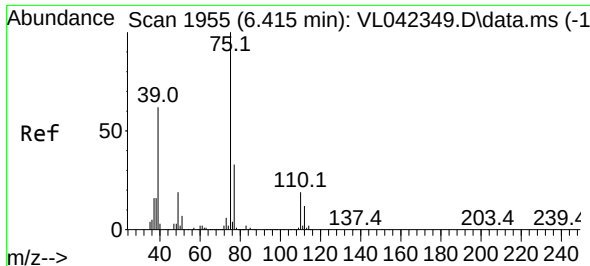
Tgt Ion: 69 Resp: 35256
Ion Ratio Lower Upper
69 100
41 144.4 118.6 177.8
100 36.5 28.2 42.2



#44
2,2,4-Trimethylpentane
Concen: 2.103 ppbv
RT: 4.645 min Scan# 1408
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 57 Resp: 139641
Ion Ratio Lower Upper
57 100
41 34.4 27.2 40.8
56 31.3 25.7 38.5

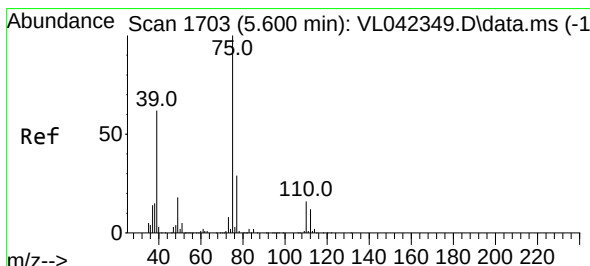
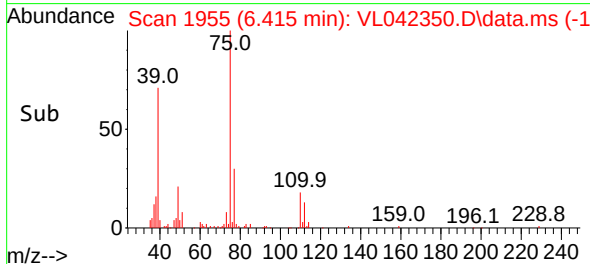
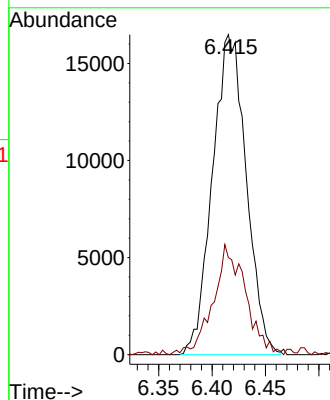
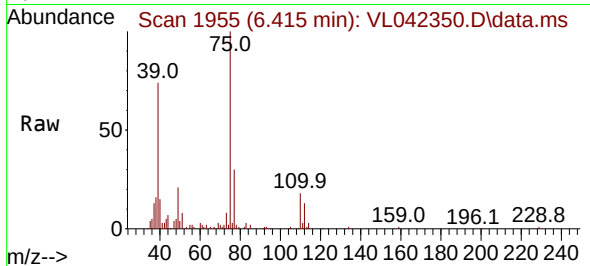




#45
 t-1,3-Dichloropropene
 Concen: 2.050 ppbv
 RT: 6.415 min Scan# 1955
 Delta R.T. -0.000 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17

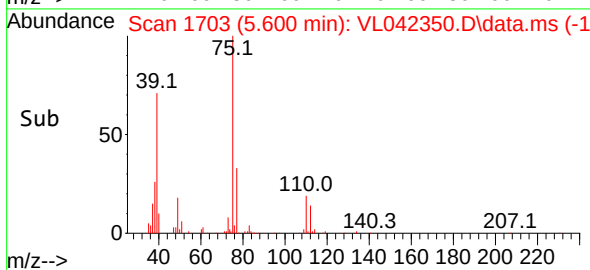
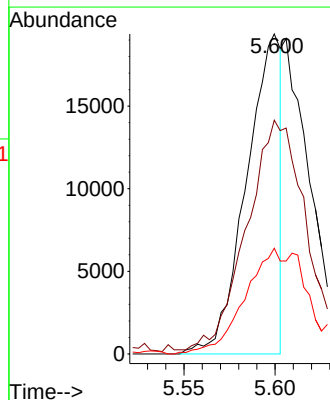
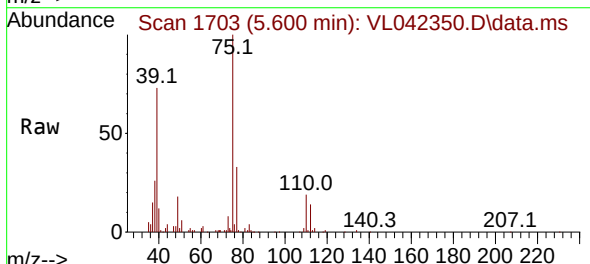
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC002

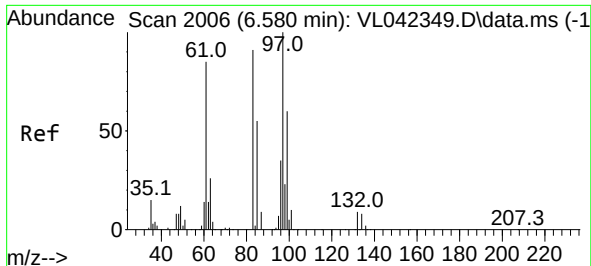
Tgt Ion: 75 Resp: 36265
 Ion Ratio Lower Upper
 75 100
 77 30.4 27.0 40.6



#46
 cis-1,3-Dichloropropene
 Concen: 1.183 ppbv
 RT: 5.600 min Scan# 1703
 Delta R.T. -0.000 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17

Tgt Ion: 75 Resp: 25569
 Ion Ratio Lower Upper
 75 100
 39 71.8 50.0 75.0
 77 32.5 23.0 34.6

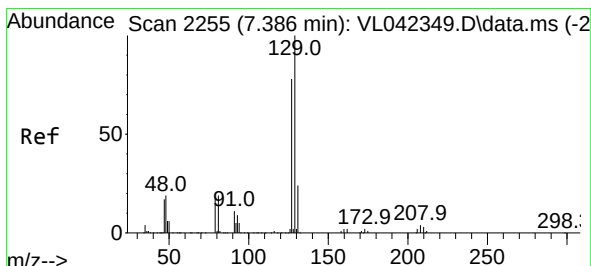
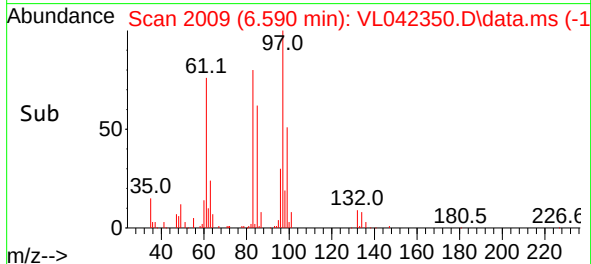
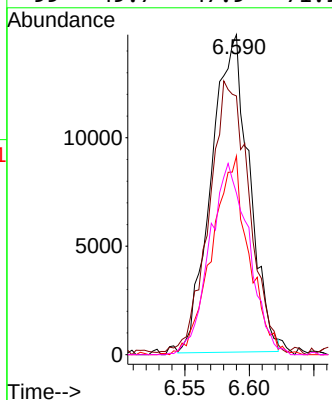
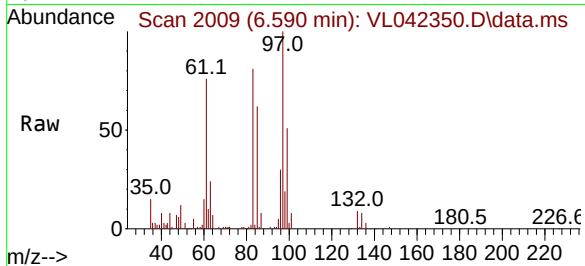




#47
1,1,2-Trichloroethane
Concen: 2.049 ppbv
RT: 6.590 min Scan# 2006
Delta R.T. 0.010 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

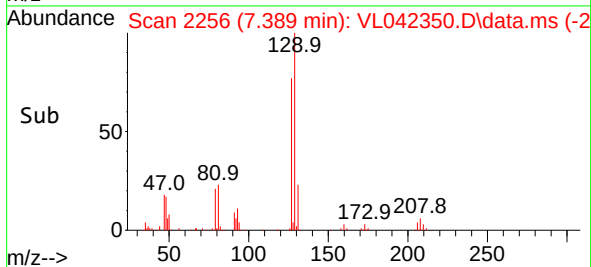
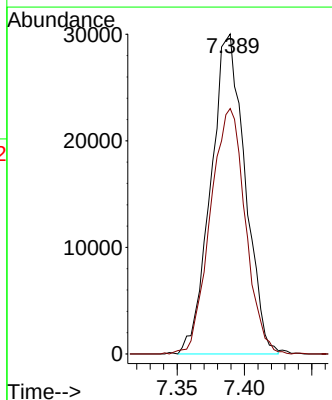
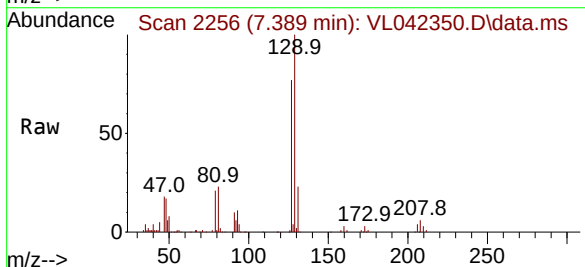
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

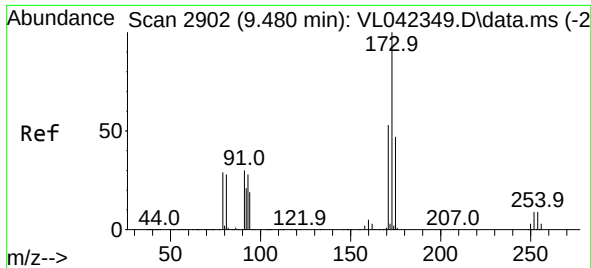
Tgt Ion:	97	Resp:	29879
Ion	Ratio	Lower	Upper
97	100		
83	78.8	72.8	109.2
85	61.7	44.2	66.4
99	49.7	47.9	71.9



#48
Dibromochloromethane
Concen: 2.061 ppbv
RT: 7.389 min Scan# 2256
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:	129	Resp:	53069
Ion	Ratio	Lower	Upper
129	100		
127	78.4	39.1	117.3

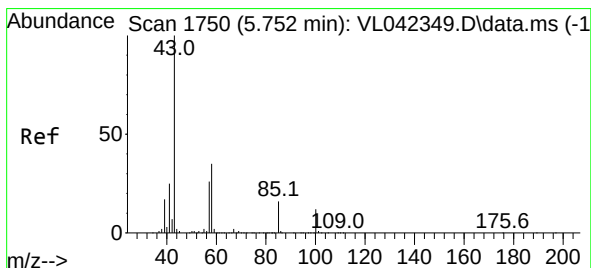
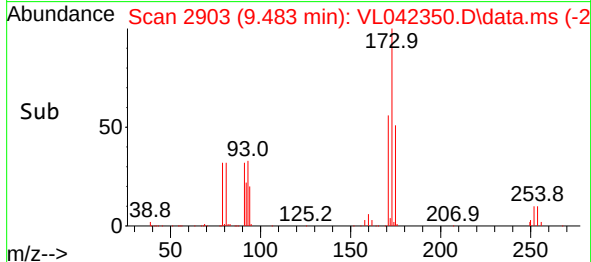
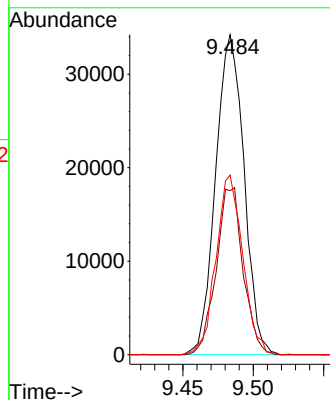
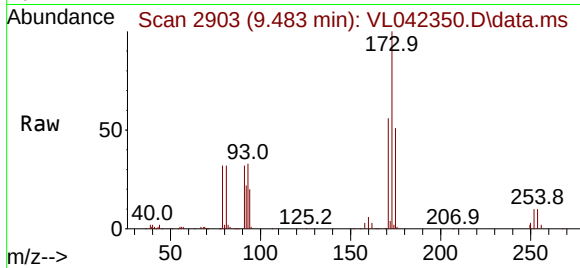




#49
Bromoform
Concen: 2.135 ppbv
RT: 9.483 min Scan# 2902
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

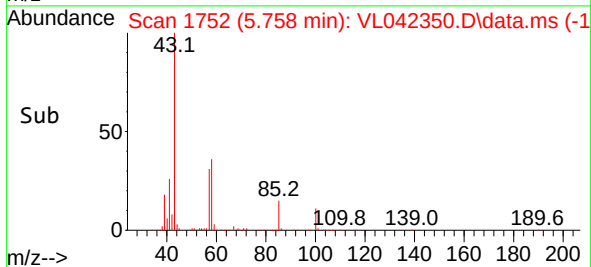
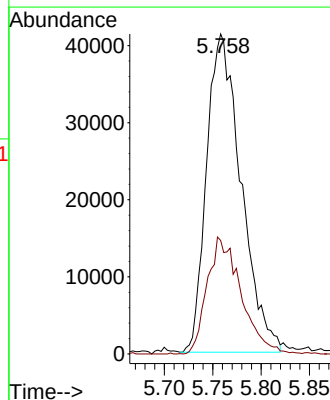
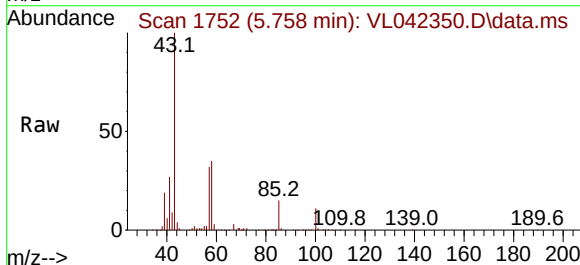
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

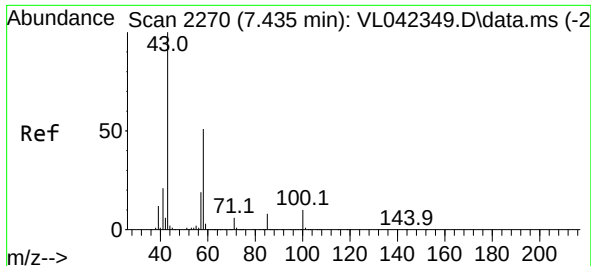
Tgt Ion:173 Resp: 48069
Ion Ratio Lower Upper
173 100
175 49.4 38.2 57.2
171 53.0 40.9 61.3



#50
4-Methyl-2-Pentanone
Concen: 2.180 ppbv
RT: 5.758 min Scan# 1752
Delta R.T. 0.006 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 43 Resp: 102182
Ion Ratio Lower Upper
43 100
58 36.3 28.6 43.0

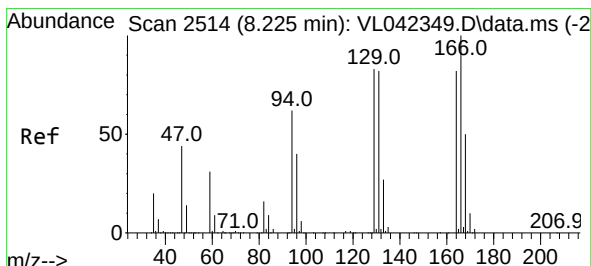
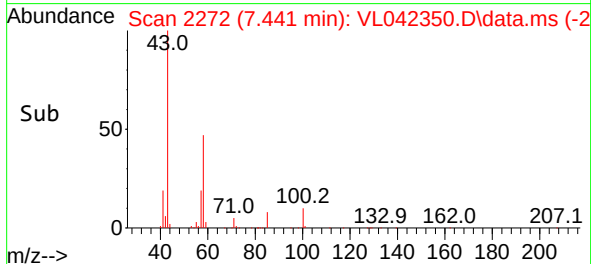
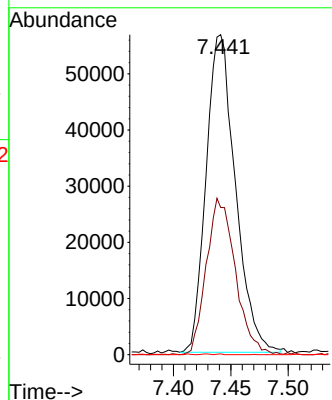
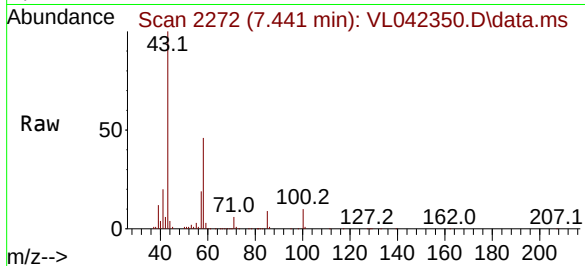




#51
2-Hexanone
Concen: 2.375 ppbv
RT: 7.441 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

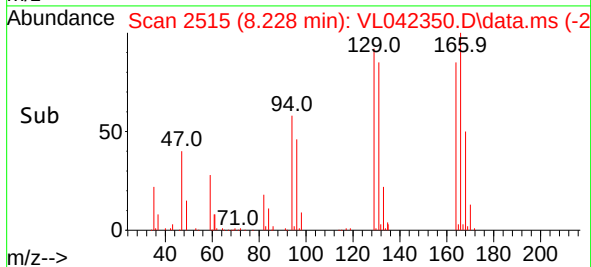
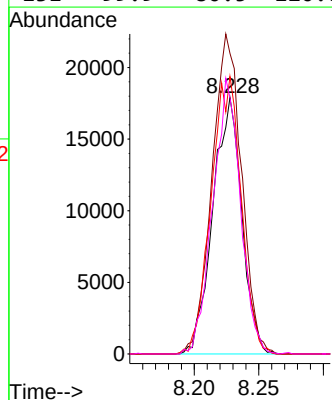
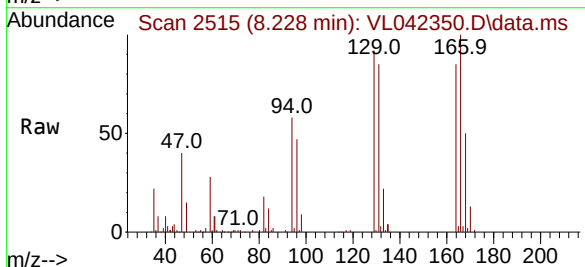
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

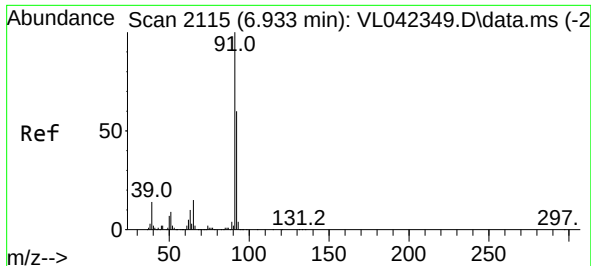
Tgt Ion: 43 Resp: 100443
Ion Ratio Lower Upper
43 100
58 49.0 40.2 60.4
98 0.1 0.1 0.1



#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

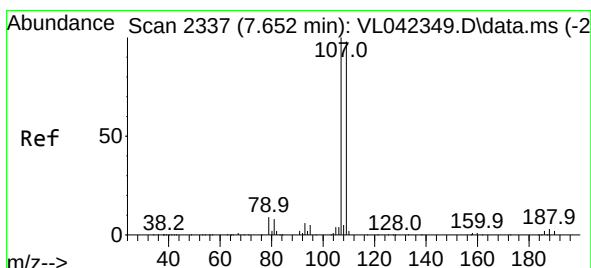
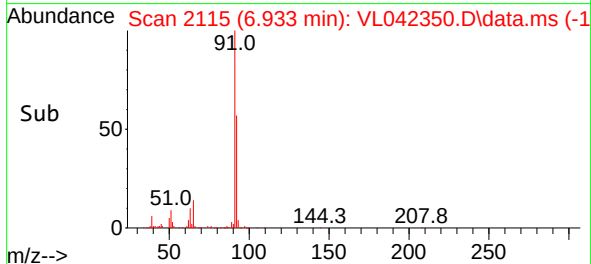
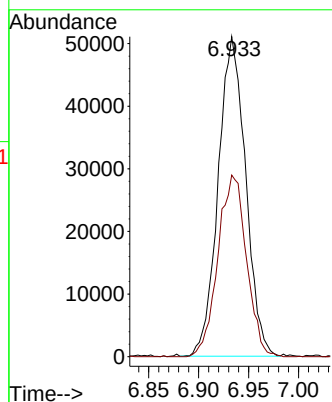
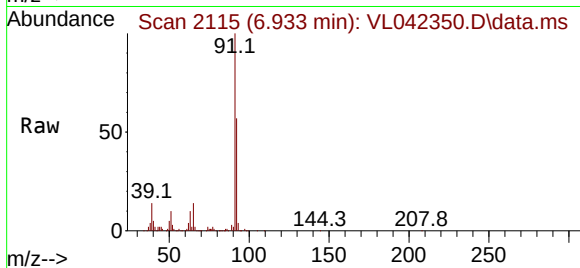




#53
Toluene
Concen: 2.116 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

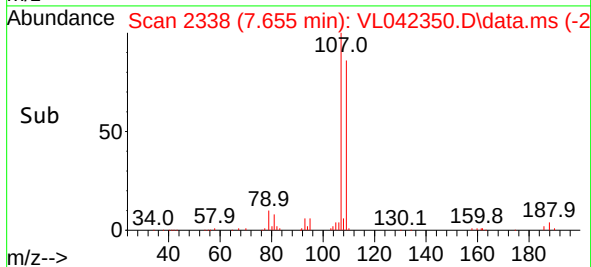
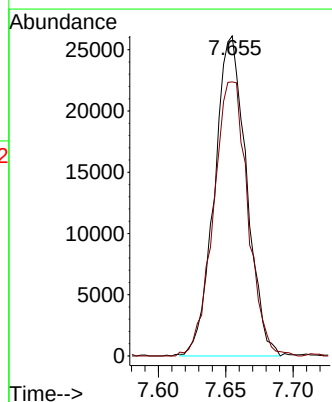
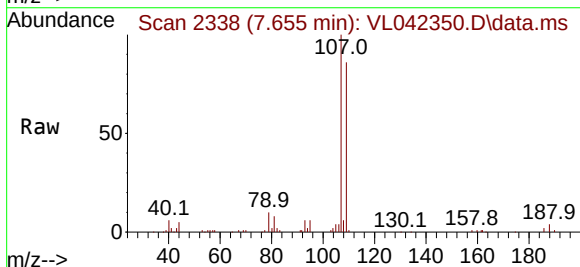
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

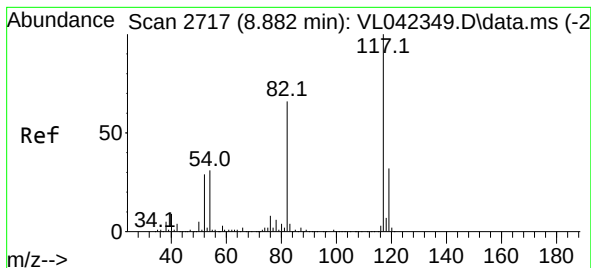
Tgt Ion: 91 Resp: 97493
Ion Ratio Lower Upper
91 100
92 59.1 48.2 72.4



#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 :

VSTDICC002

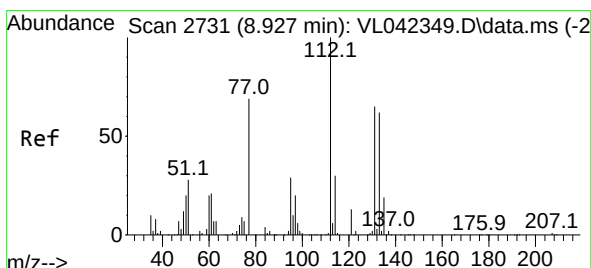
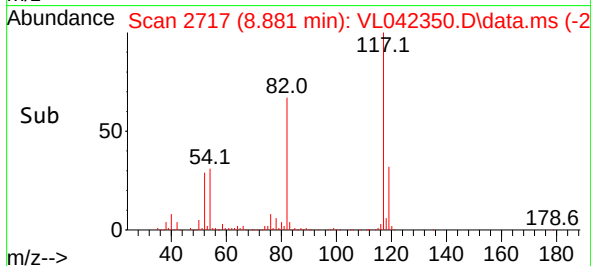
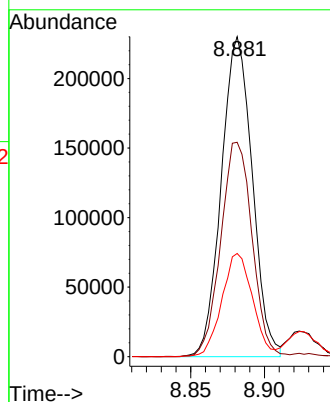
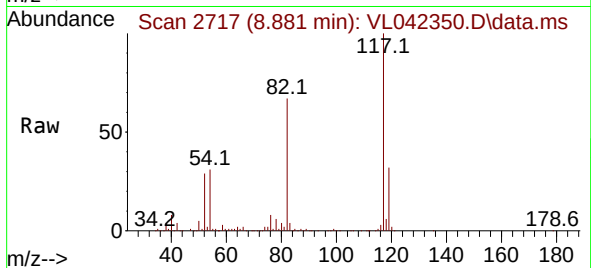
Tgt Ion:117 Resp: 335603

Ion Ratio Lower Upper

117 100

82 68.8 57.8 86.6

119 32.2 25.2 37.8



#56

1,1,1,2-Tetrachloroethane

Concen: 2.097 ppbv

RT: 8.924 min Scan# 2730

Delta R.T. -0.003 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

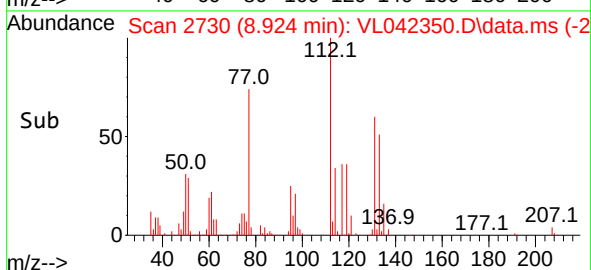
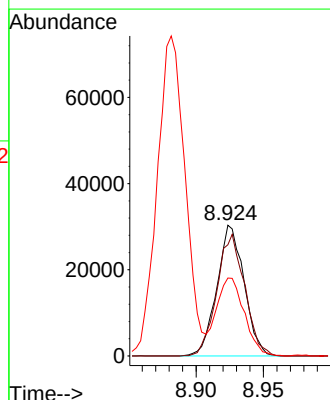
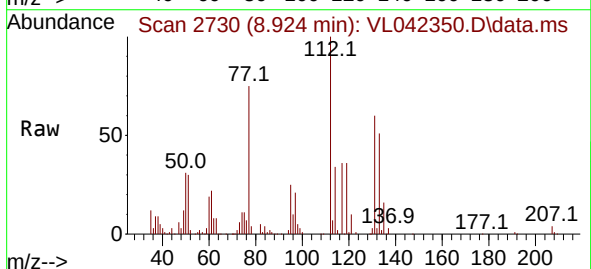
Tgt Ion:131 Resp: 42601

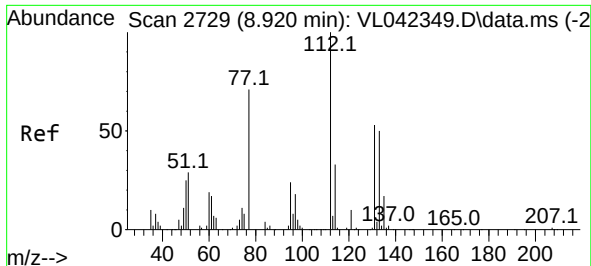
Ion Ratio Lower Upper

131 100

133 95.3 78.3 117.5

119 53.8 48.7 73.1

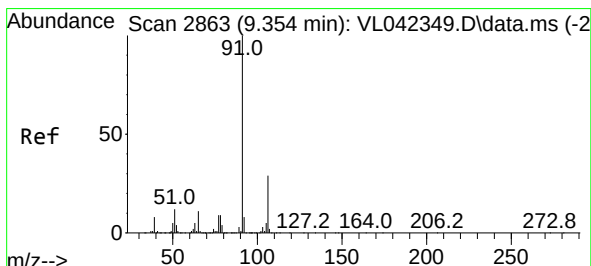
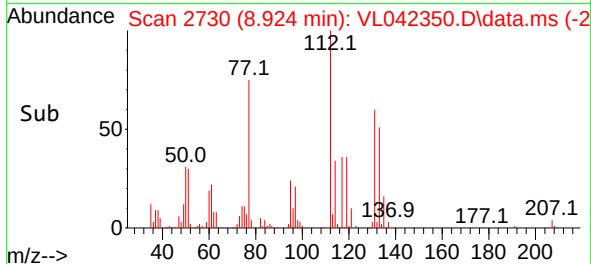
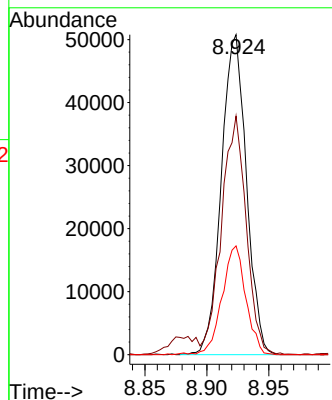
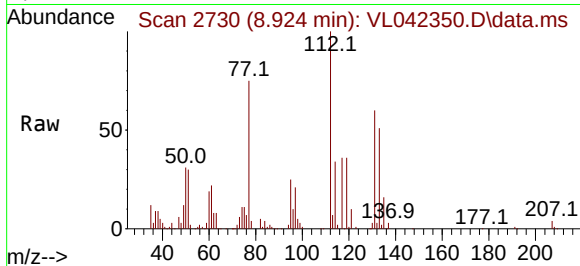




#57
Chlorobenzene
Concen: 2.054 ppbv
RT: 8.924 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

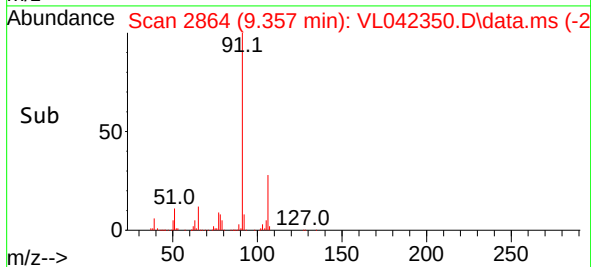
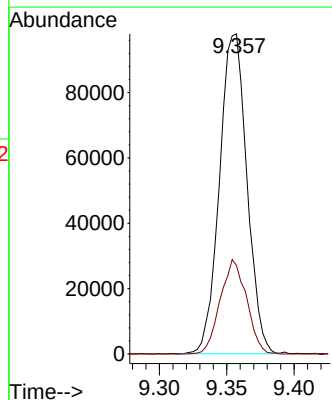
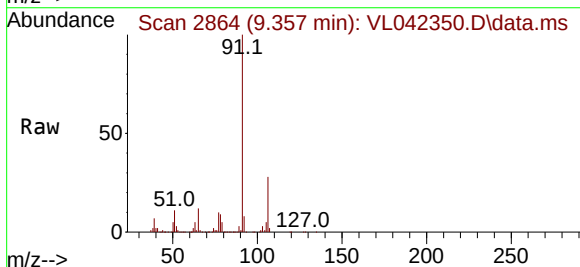
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC002

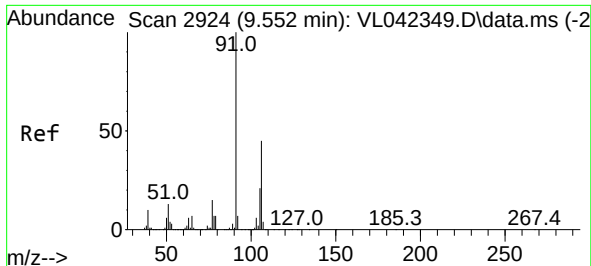
Tgt Ion:	112	Resp:	71685
Ion Ratio	Lower	Upper	
112	100		
77	74.0	57.8	86.6
114	34.0	29.3	35.9



#58
Ethyl Benzene
Concen: 2.088 ppbv
RT: 9.357 min Scan# 2864
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:	91	Resp:	138810
Ion Ratio	Lower	Upper	
91	100		
106	27.7	23.0	34.4





#59

m/p-Xylene

Concen: 1.934 ppbv

RT: 9.551 min Scan# 2924

Delta R.T. -0.000 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

Instrument :

MSVOA_L

ClientSampleId :

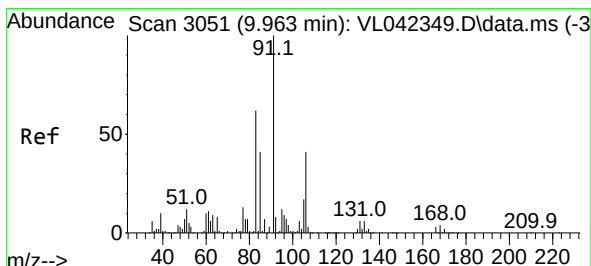
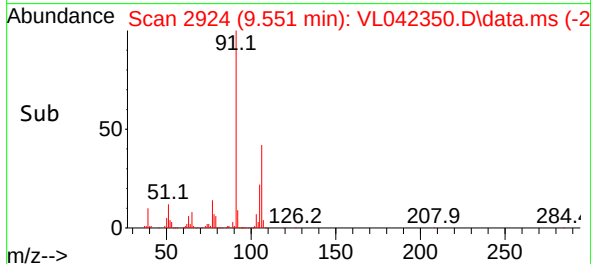
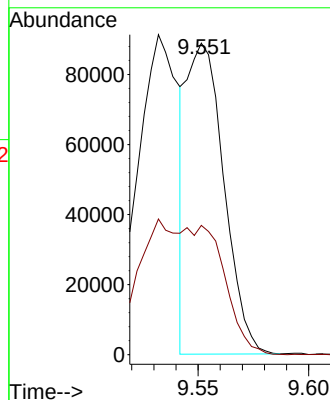
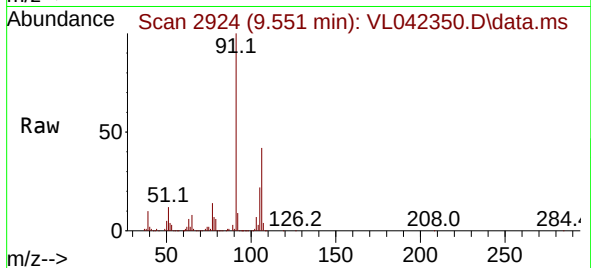
VSTDIC002

Tgt Ion: 91 Resp: 103886

Ion Ratio Lower Upper

91 100

106 0.0 35.4 53.2#



#60

o-Xylene

Concen: 2.076 ppbv

RT: 9.963 min Scan# 3051

Delta R.T. -0.000 min

Lab File: VL042350.D

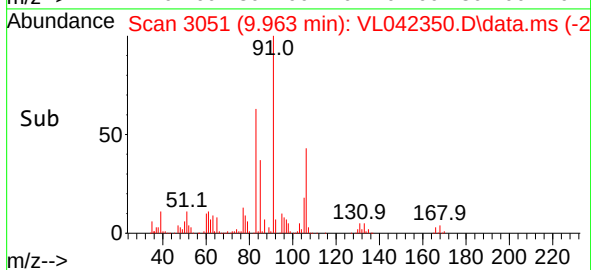
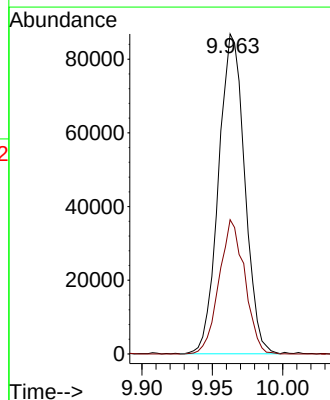
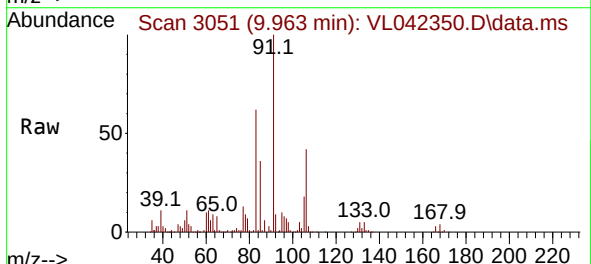
Acq: 17 Apr 2025 10:17

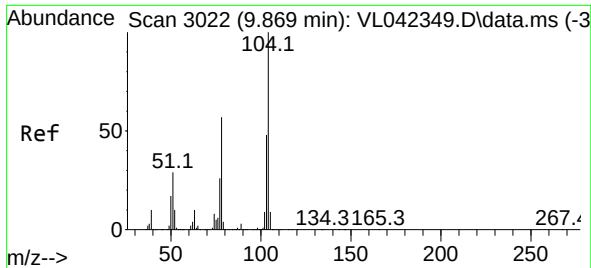
Tgt Ion: 91 Resp: 111972

Ion Ratio Lower Upper

91 100

106 41.2 21.1 63.4

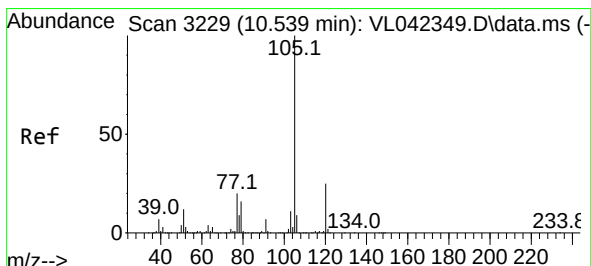
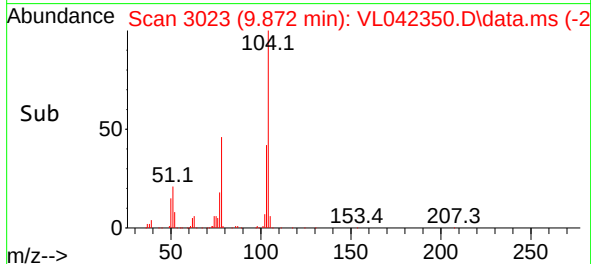
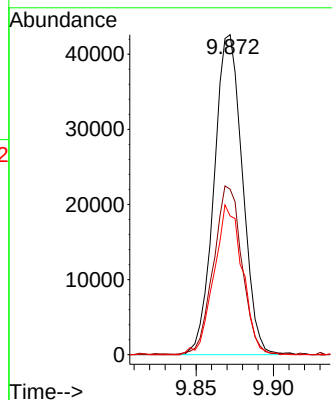
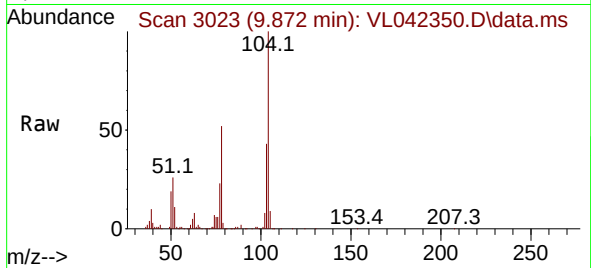




#61
Styrene
Concen: 2.106 ppbv
RT: 9.872 min Scan# 3022
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

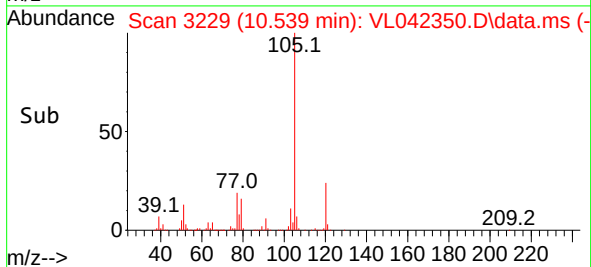
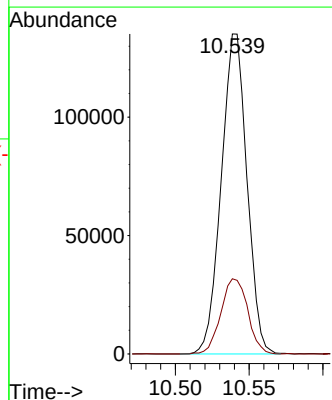
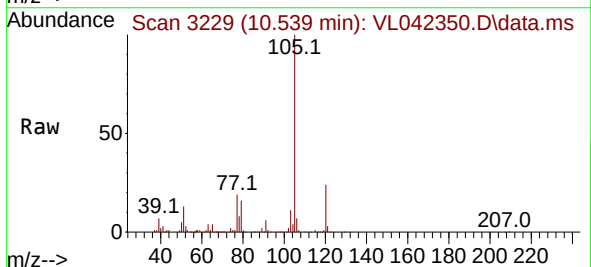
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC002

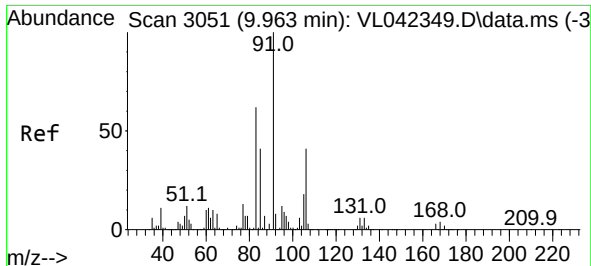
Tgt Ion:104 Resp: 54229
Ion Ratio Lower Upper
104 100
78 53.4 44.6 66.8
103 47.1 37.4 56.0



#62
Isopropylbenzene
Concen: 2.067 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:105 Resp: 163716
Ion Ratio Lower Upper
105 100
120 24.6 19.8 29.8

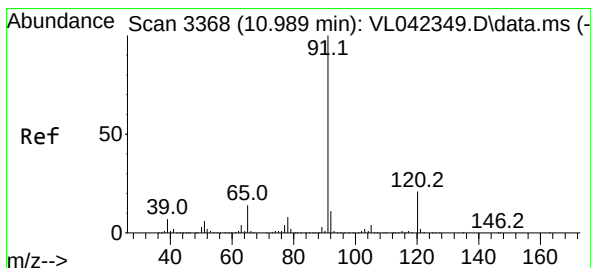
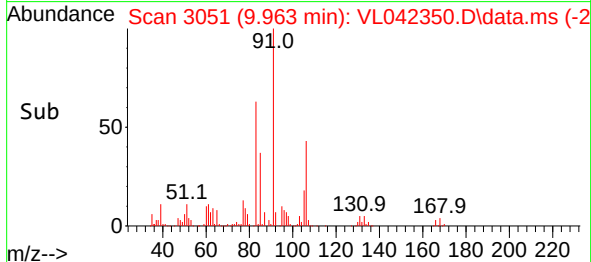
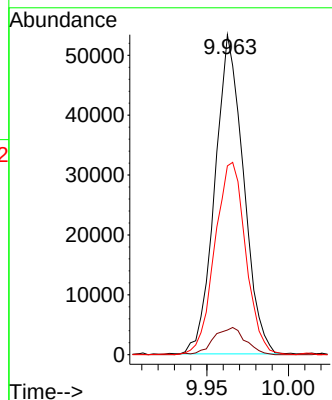
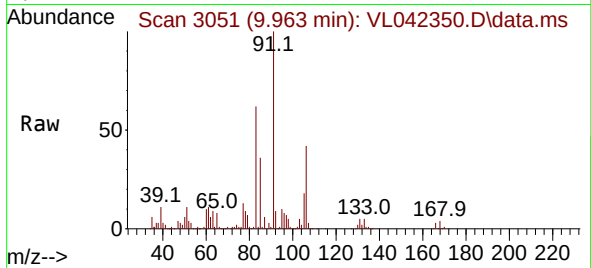




#63
1,1,2,2-Tetrachloroethane
Concen: 1.853 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

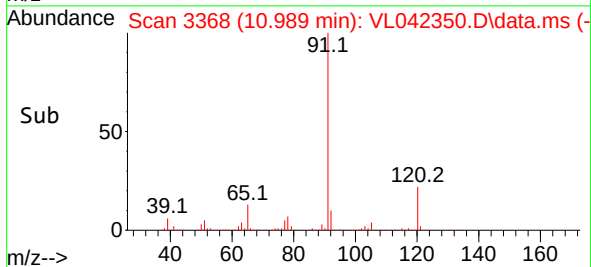
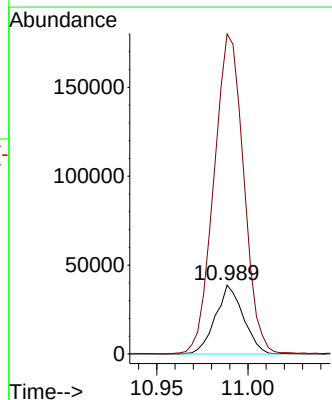
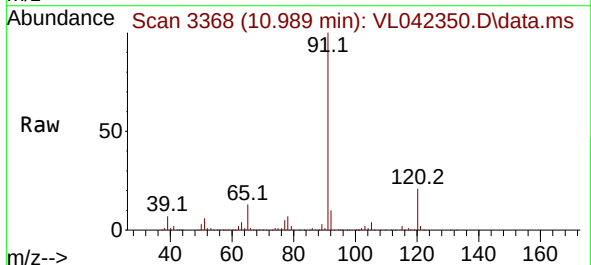
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC002

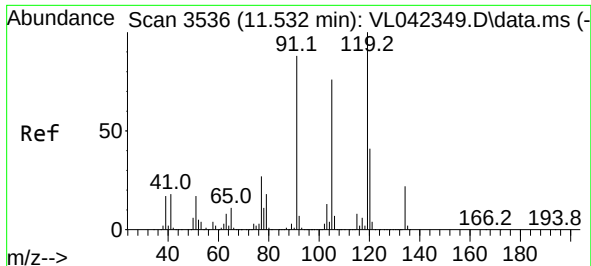
Tgt Ion: 83 Resp: 64952
Ion Ratio Lower Upper
83 100
131 9.6 4.5 13.7
85 65.4 32.4 97.0



#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

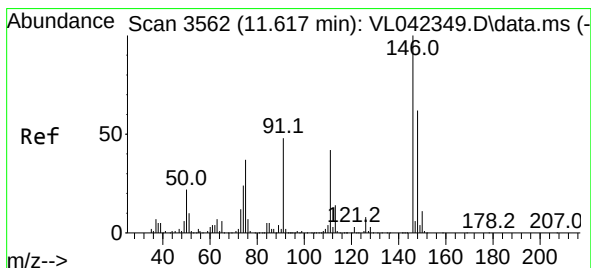
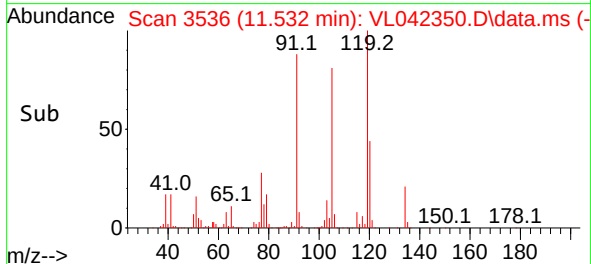
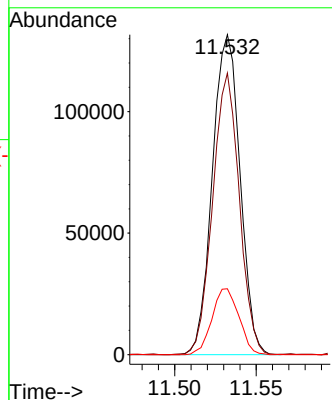
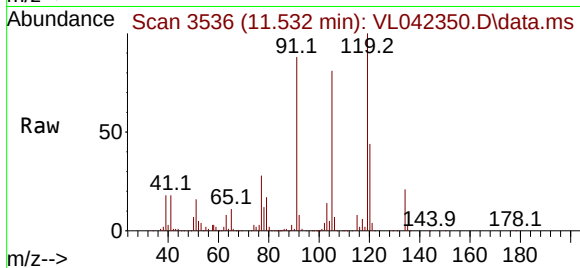




#65
tert-Butylbenzene
Concen: 2.135 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

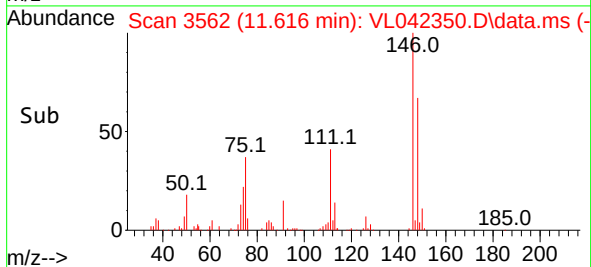
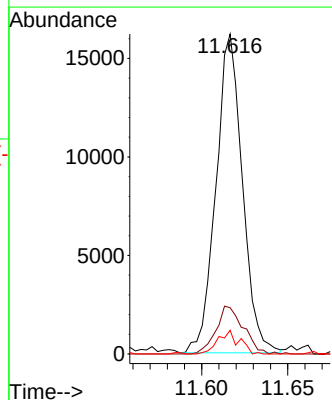
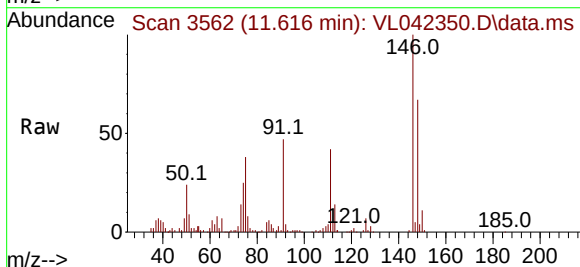
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC002

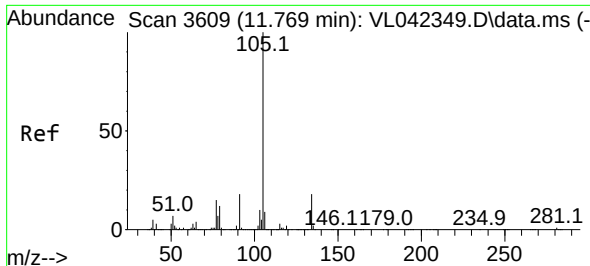
Tgt Ion:119 Resp: 155401
Ion Ratio Lower Upper
119 100
91 85.0 74.6 111.8
134 20.1 18.8 28.2



#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

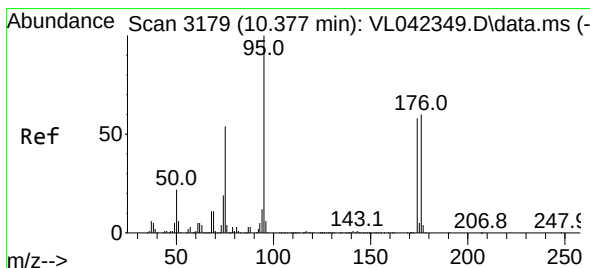
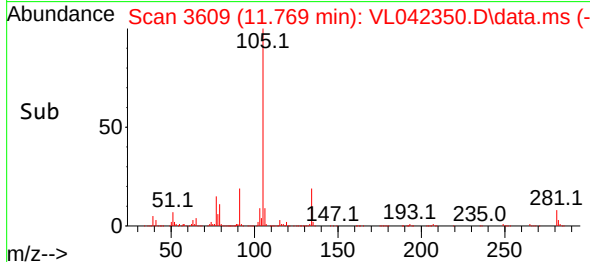
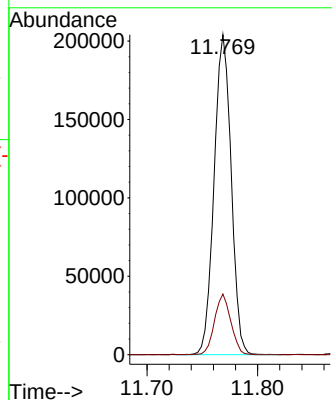
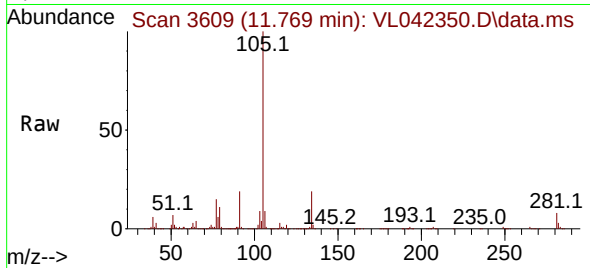




#67
 sec-Butylbenzene
 Concen: 2.156 ppbv
 RT: 11.769 min Scan# 3609
 Delta R.T. -0.000 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17

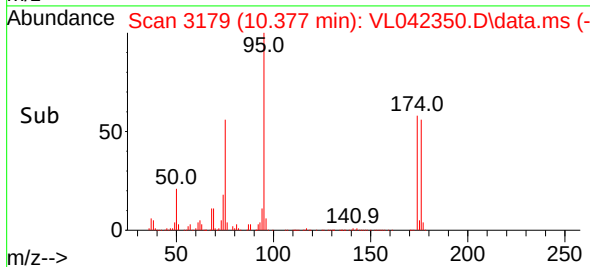
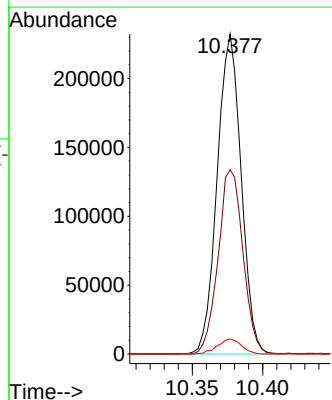
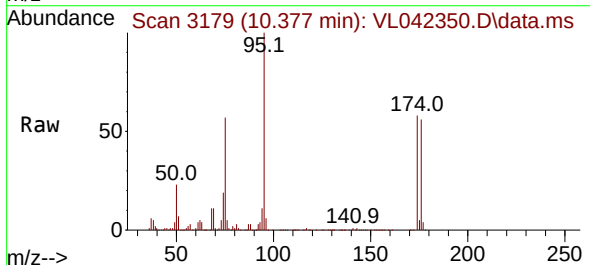
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC002

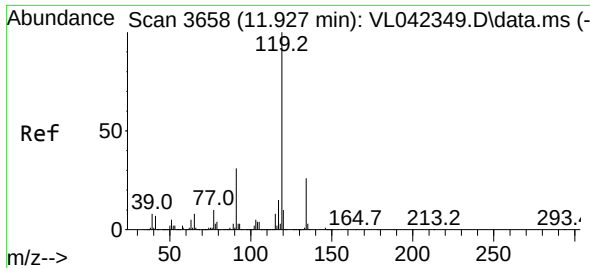
Tgt Ion:105 Resp: 218327
 Ion Ratio Lower Upper
 105 100
 134 18.1 14.6 21.8



#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

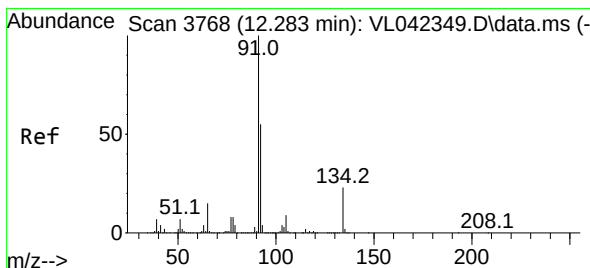
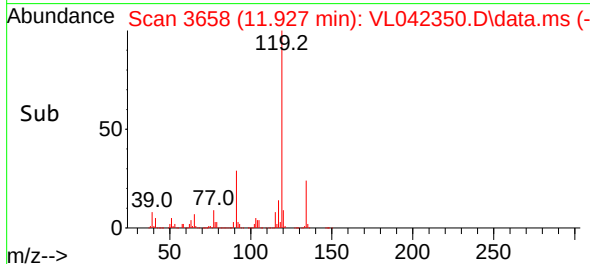
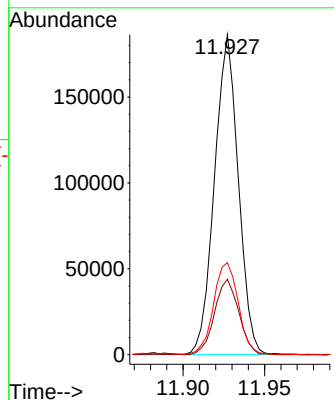
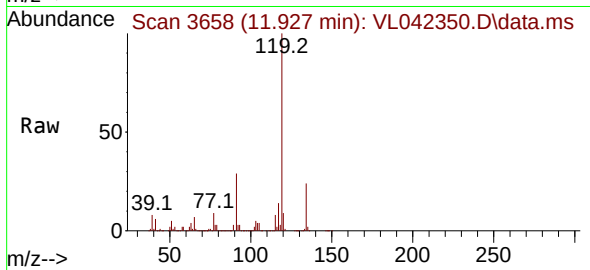




#69
 p-Isopropyltoluene
 Concen: 2.145 ppbv
 RT: 11.927 min Scan# 3658
 Delta R.T. -0.000 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17

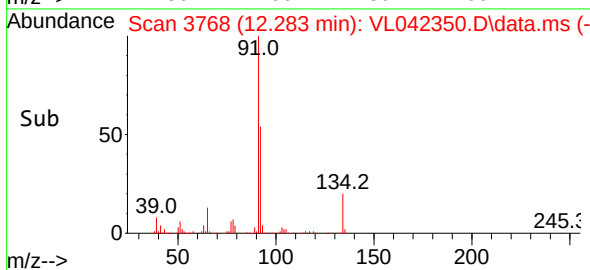
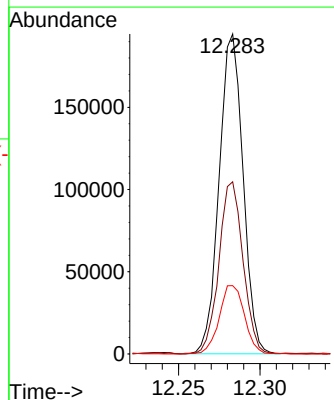
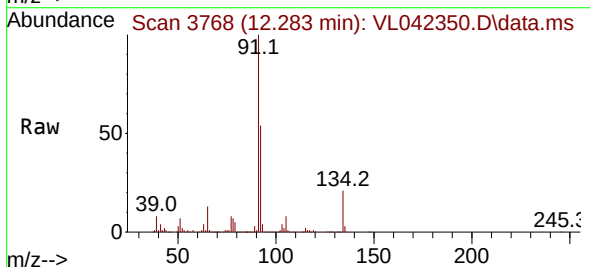
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

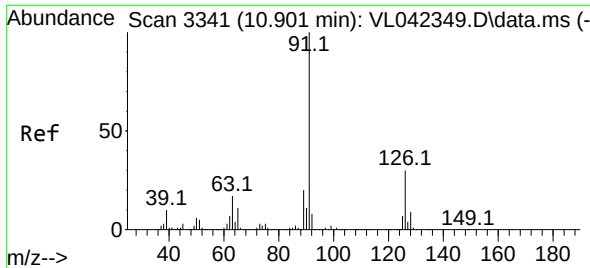
Tgt Ion: 119 Resp: 188657
 Ion Ratio Lower Upper
 119 100
 134 24.2 20.0 30.0
 91 30.8 24.4 36.6



#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

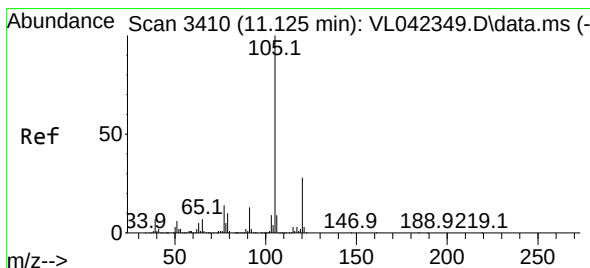
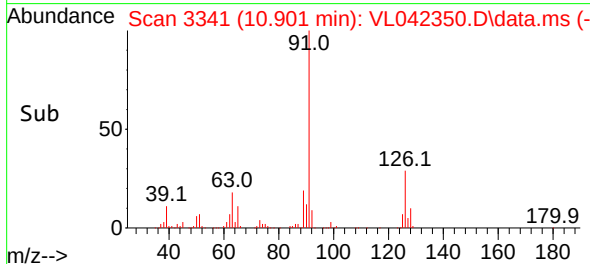
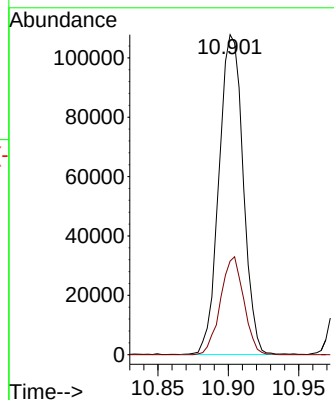
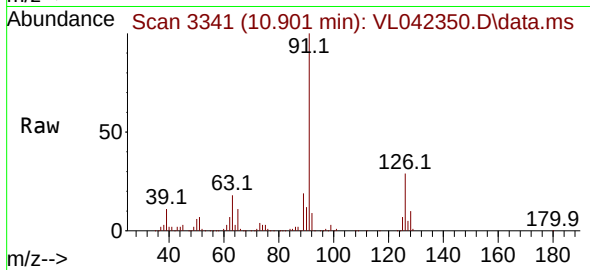




#71
2-Chlorotoluene
Concen: 2.075 ppbv
RT: 10.901 min Scan# 31
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

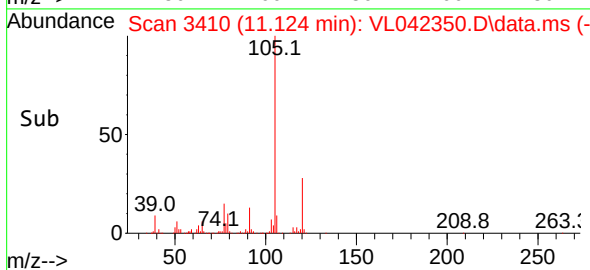
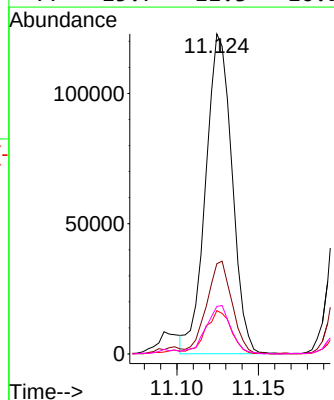
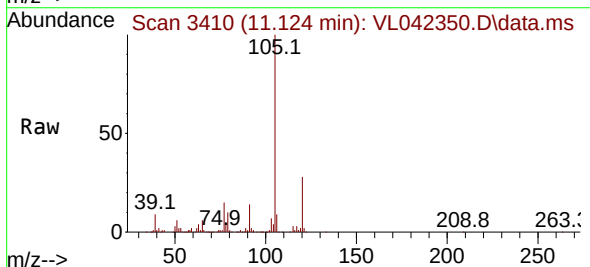
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

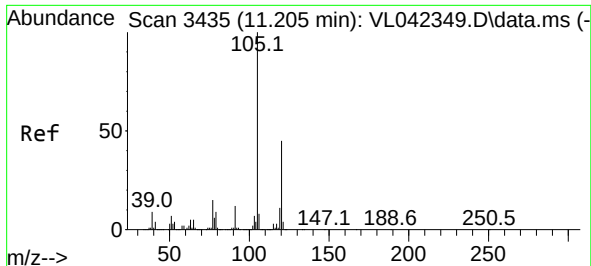
Tgt Ion: 91 Resp: 128858
Ion Ratio Lower Upper
91 100
126 29.5 11.4 45.4



#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

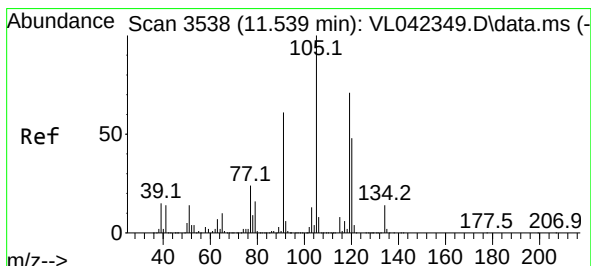
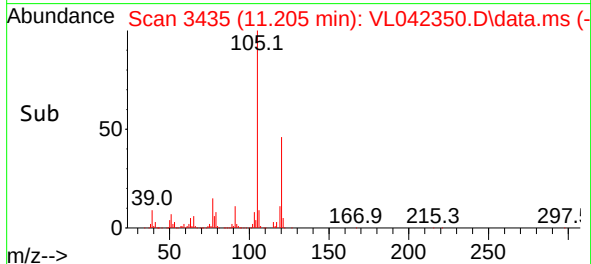
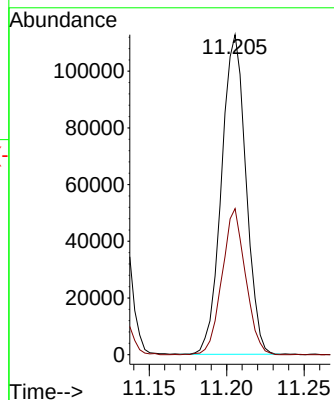
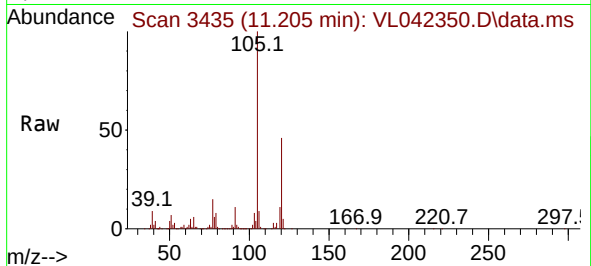




#73
 1,3,5-Trimethylbenzene
 Concen: 2.123 ppbv
 RT: 11.205 min Scan# 3435
 Delta R.T. -0.000 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17

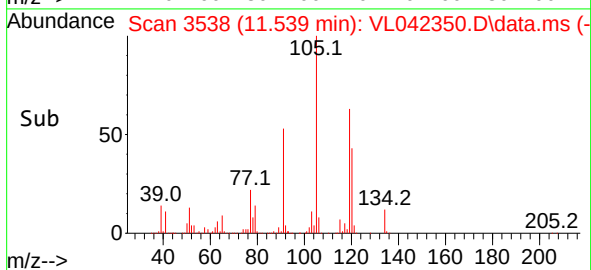
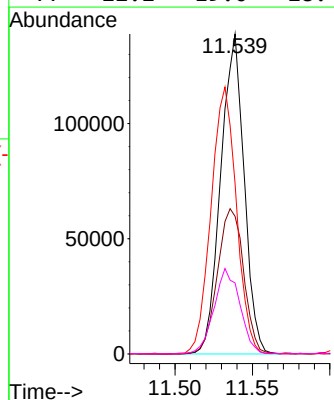
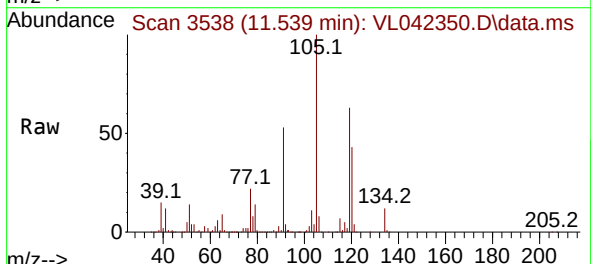
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC002

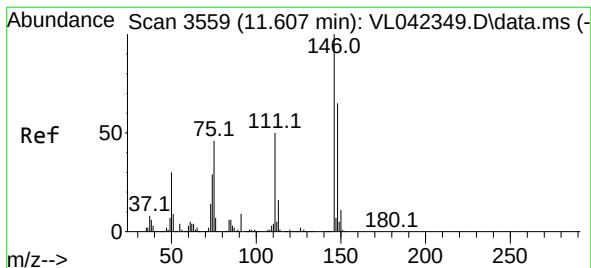
Tgt Ion:105 Resp: 123580
 Ion Ratio Lower Upper
 105 100
 120 45.7 35.6 53.4



#74
 1,2,4-Trimethylbenzene
 Concen: 2.140 ppbv
 RT: 11.539 min Scan# 3538
 Delta R.T. -0.000 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17

Tgt Ion:105 Resp: 145510
 Ion Ratio Lower Upper
 105 100
 120 43.0 38.1 57.1
 91 53.1 48.8 73.2
 77 22.2 19.0 28.4





#75

1,3-Dichlorobenzene

Concen: 2.124 ppbv

RT: 11.607 min Scan# 3559

Delta R.T. -0.000 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

Instrument :

MSVOA_1

ClientSampleId :

VSTDICC002

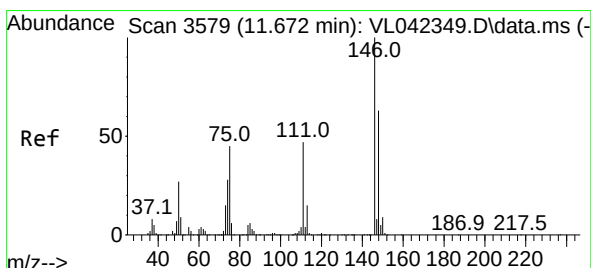
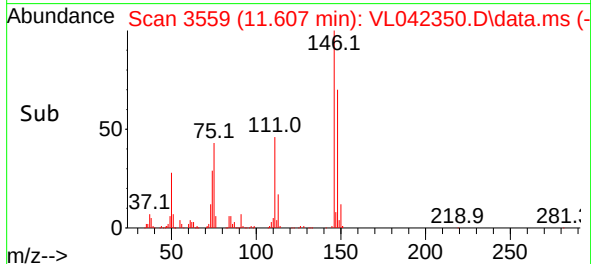
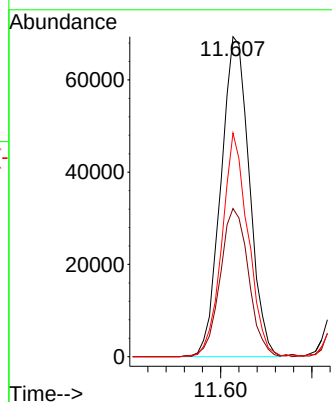
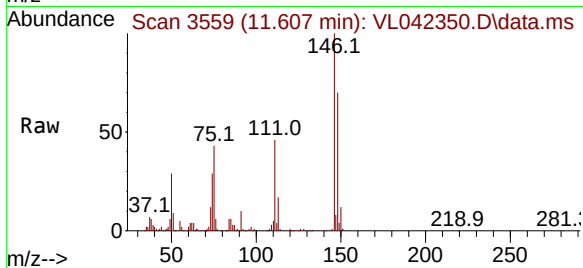
Tgt Ion:146 Resp: 75082

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

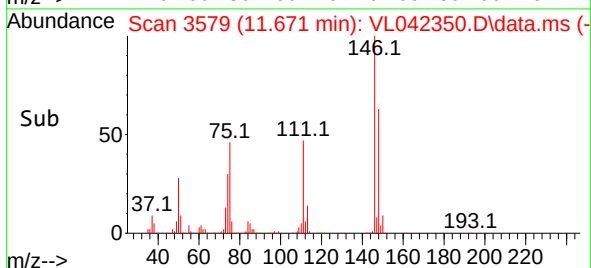
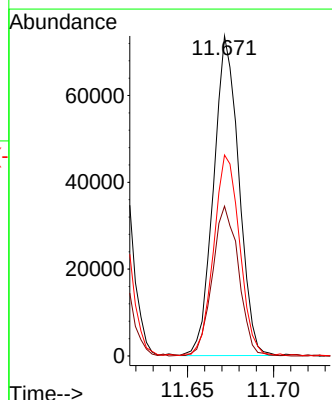
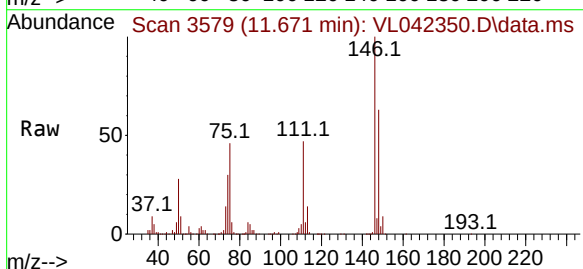
Tgt Ion:146 Resp: 75323

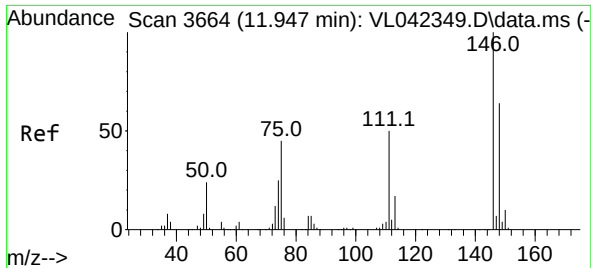
Ion Ratio Lower Upper

146 100

111 48.4 24.2 72.6

148 65.1 32.1 96.5

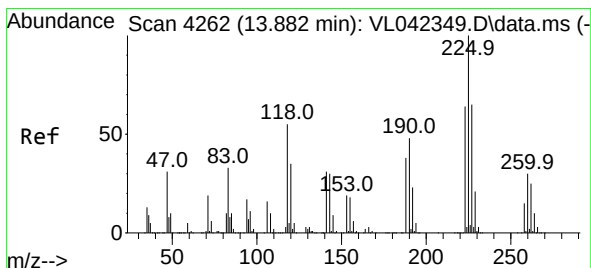
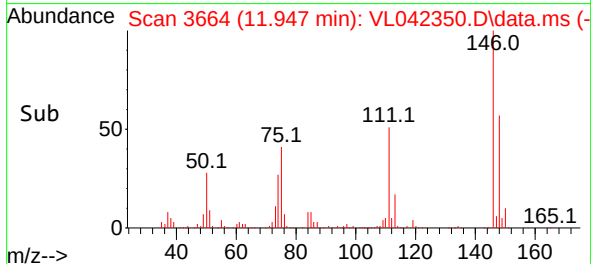
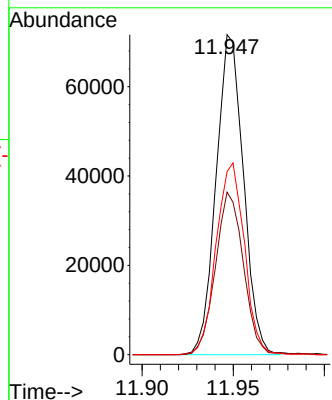
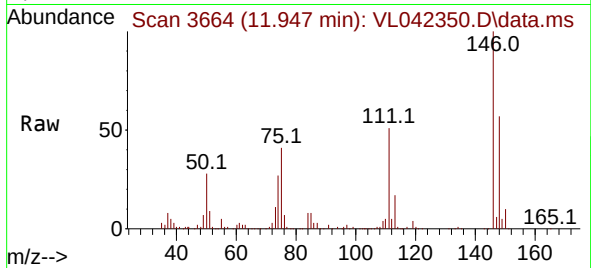




#77
1,2-Dichlorobenzene
Concen: 2.176 ppbv
RT: 11.947 min Scan# 3664
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

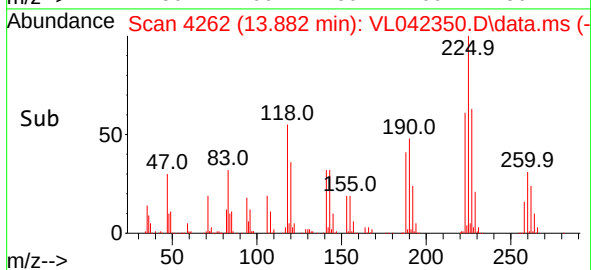
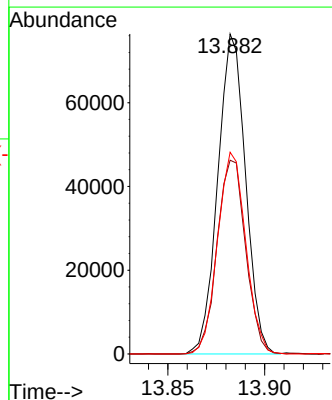
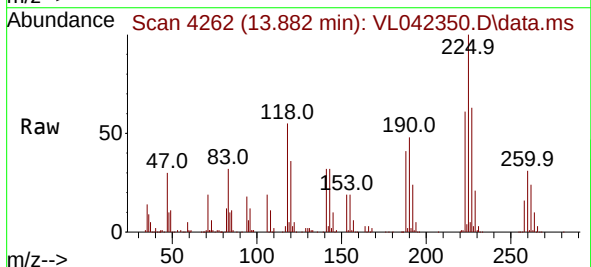
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC002

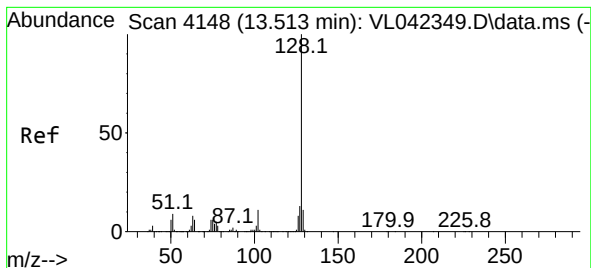
Tgt Ion:146 Resp: 74786
Ion Ratio Lower Upper
146 100
111 52.0 25.3 75.9
148 61.8 31.5 94.5



#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

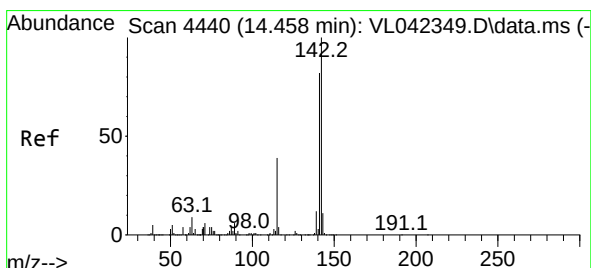
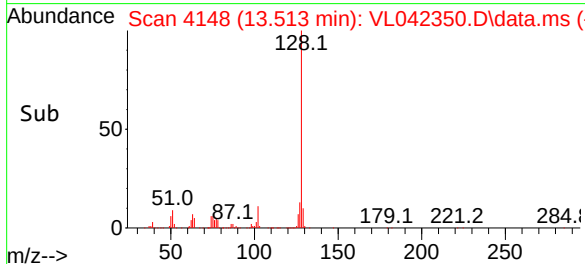
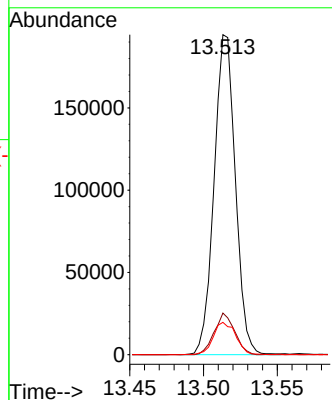
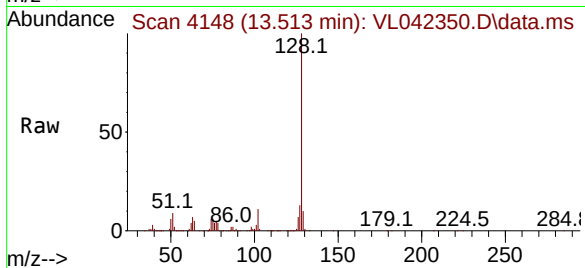
Tgt Ion:128 Resp: 195233

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

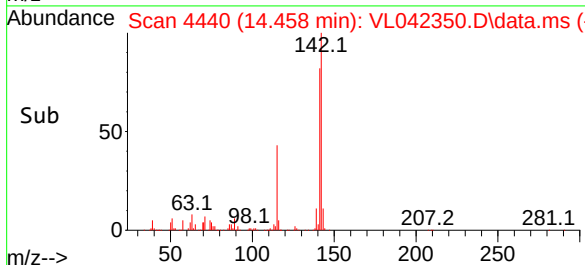
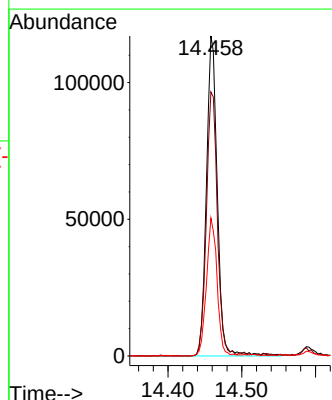
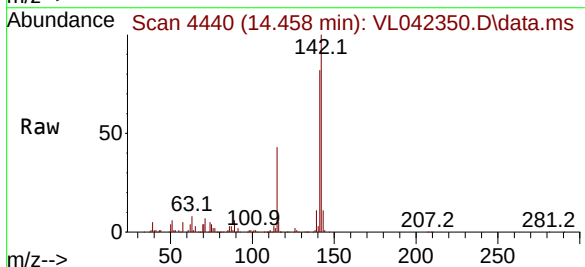
Tgt Ion:142 Resp: 119262

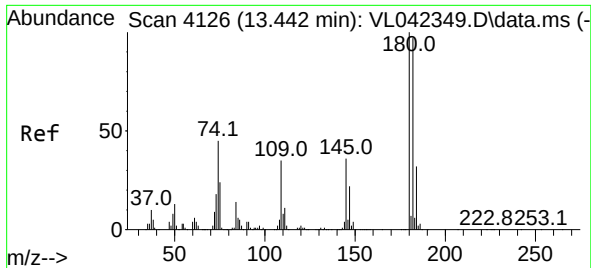
Ion Ratio Lower Upper

142 100

141 84.7 66.8 100.2

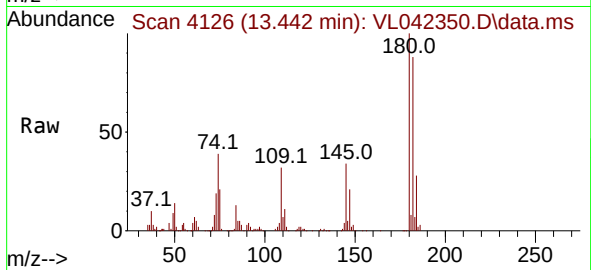
115 42.2 33.4 50.2



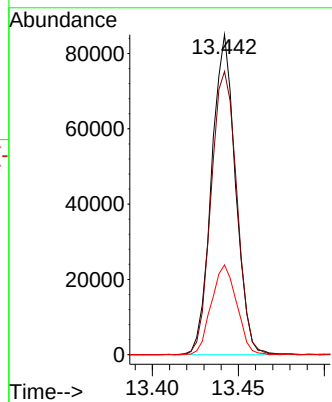
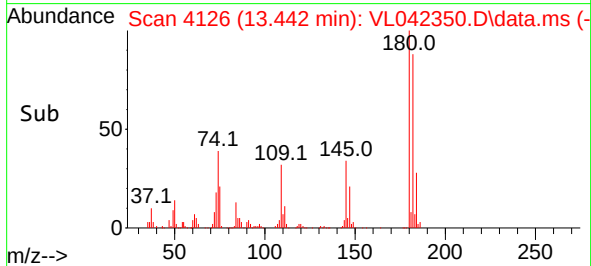


#81
 1,2,4-Trichlorobenzene
 Concen: 2.353 ppbv
 RT: 13.442 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17

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 : VSTDIC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

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

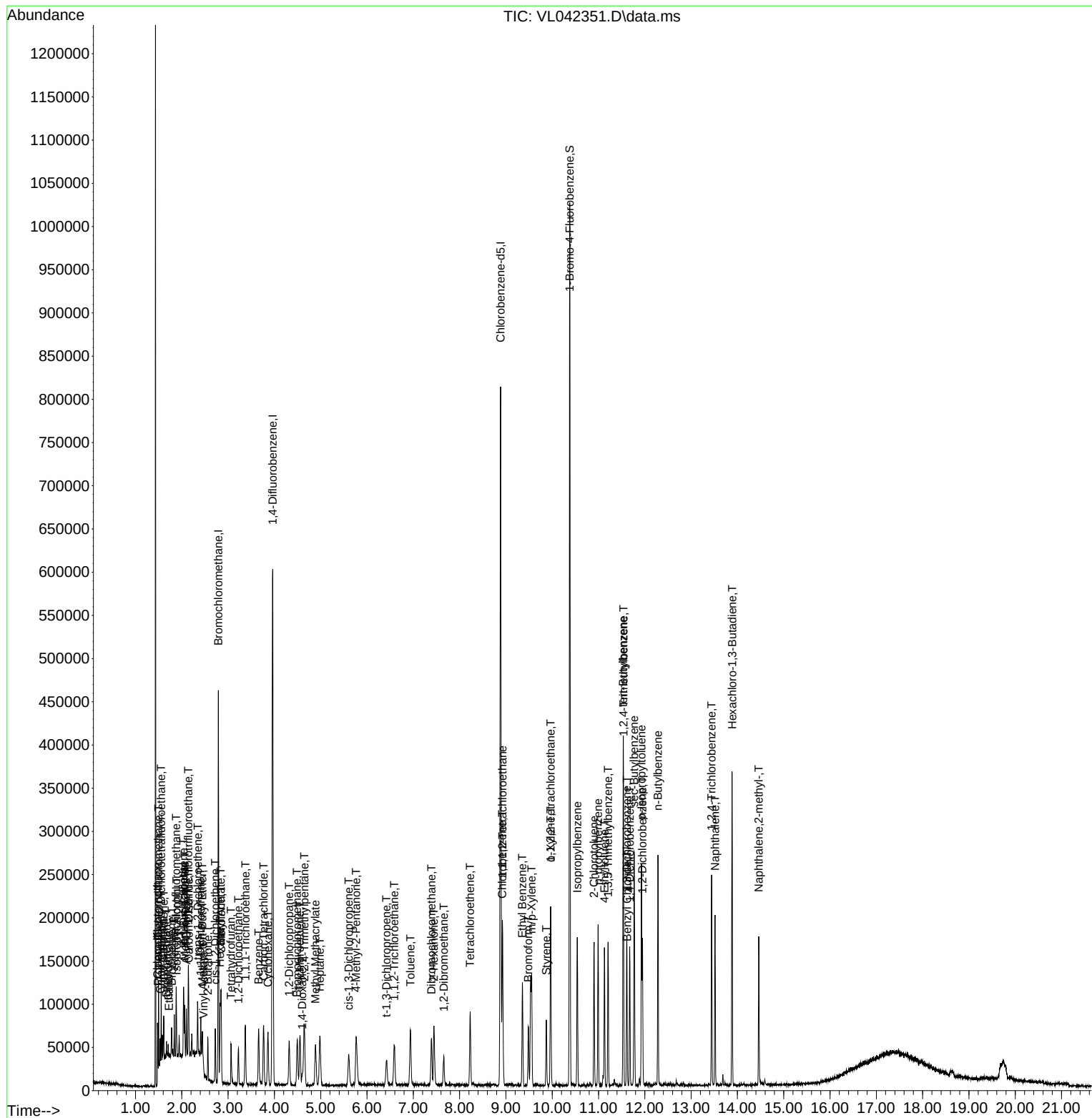
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.603	75	13028	0.596	ppbv	95
47) 1,1,2-Trichloroethane	6.587	97	7690	0.521	ppbv #	78
48) Dibromochloromethane	7.390	129	25948	0.997	ppbv	100
49) Bromoform	9.484	173	22413	0.984	ppbv	98
50) 4-Methyl-2-Pentanone	5.765	43	49725	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

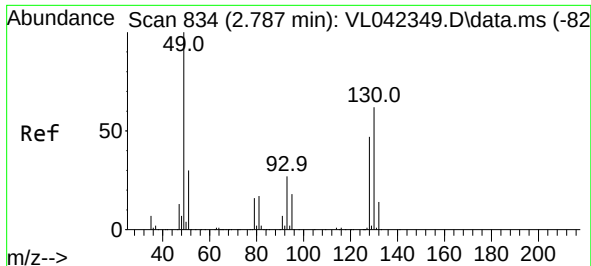
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042351.D
Acq On : 17 Apr 2025 10:48
Operator : SY/MD
Sample : VSTDIC001
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

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

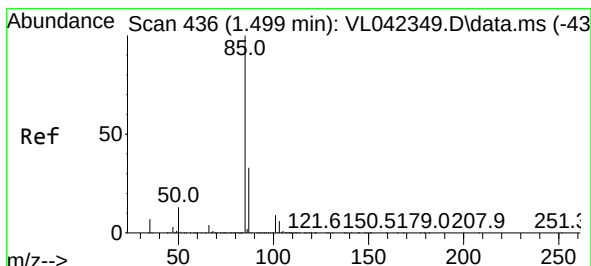
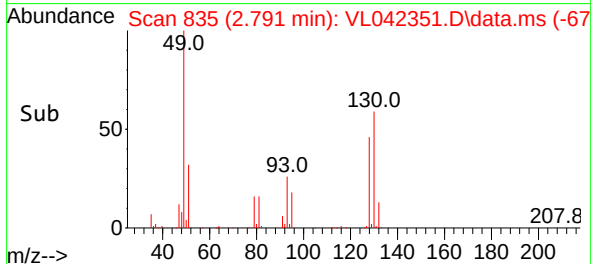
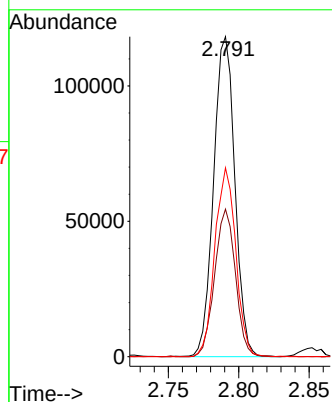
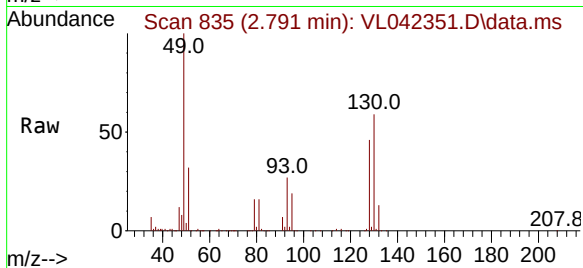




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.791 min Scan# 835
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

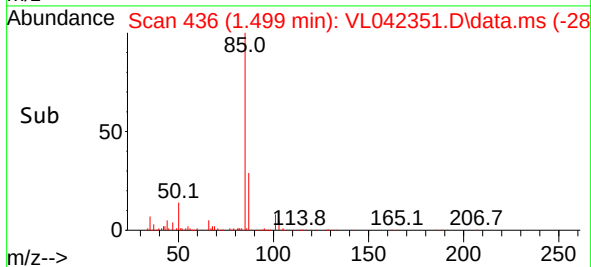
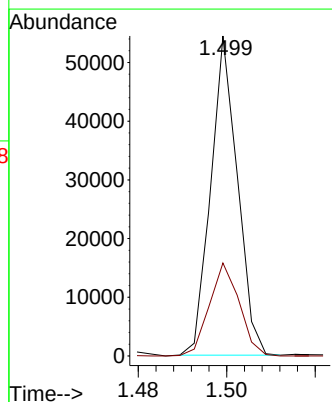
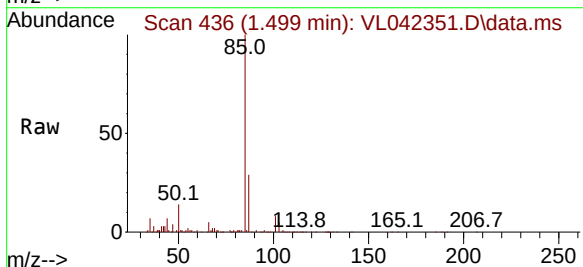
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

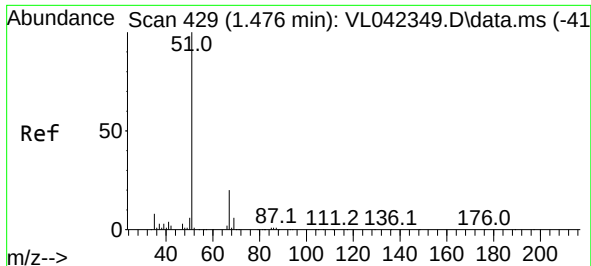
Tgt Ion: 49 Resp: 124177
Ion Ratio Lower Upper
49 100
128 45.2 22.8 68.4
130 58.1 29.3 88.0



#2
Dichlorodifluoromethane
Concen: 1.040 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 85 Resp: 22816
Ion Ratio Lower Upper
85 100
87 29.1 26.6 39.8

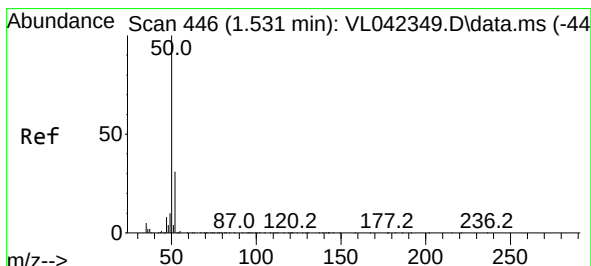
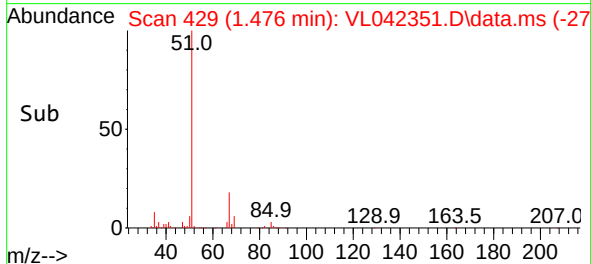
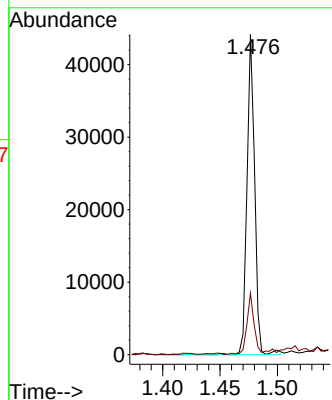
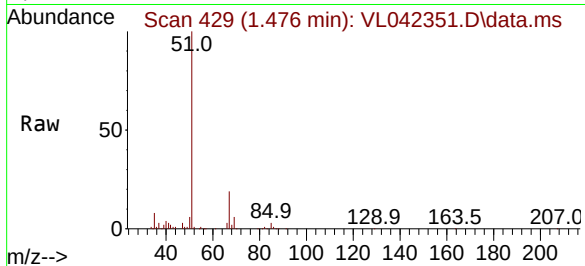




#3
Chlorodifluoromethane
Concen: 0.985 ppbv
RT: 1.476 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

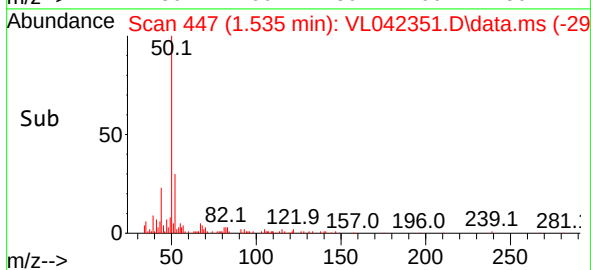
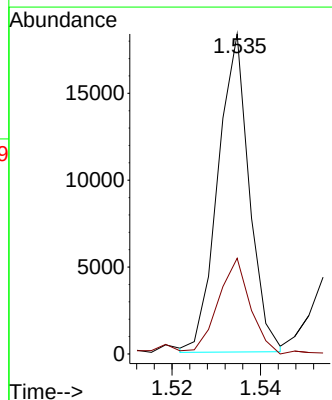
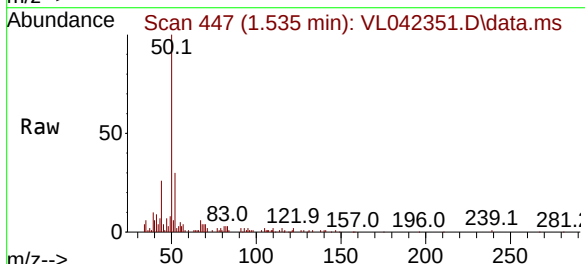
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC001

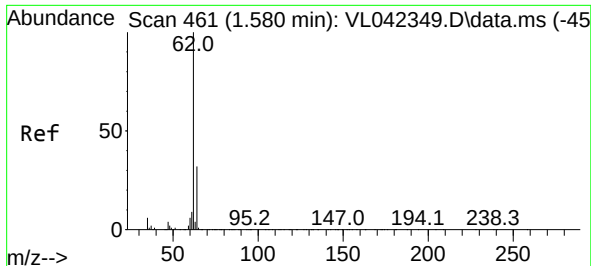
Tgt Ion: 51 Resp: 20573
Ion Ratio Lower Upper
51 100
67 19.1 16.2 24.4



#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

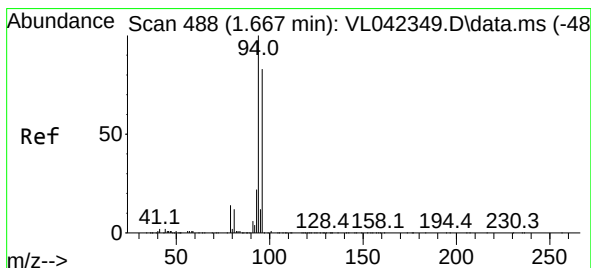
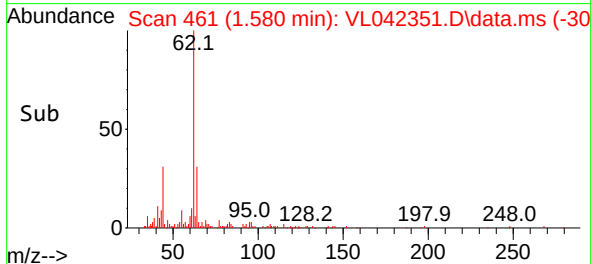
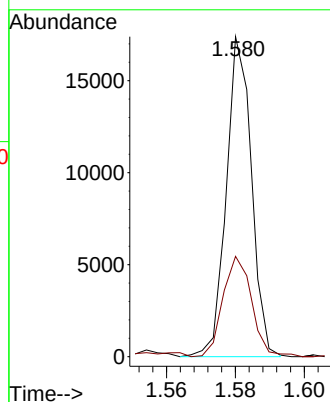
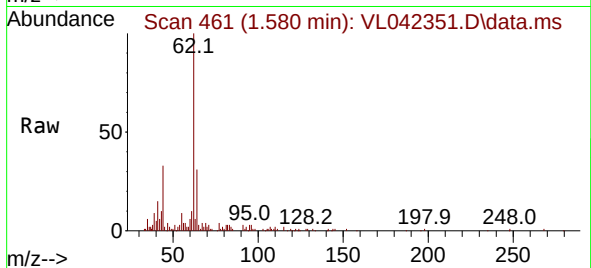




#5
 Vinyl Chloride
 Concen: 0.932 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. 0.000 min
 Lab File: VL042351.D
 Acq: 17 Apr 2025 10:48

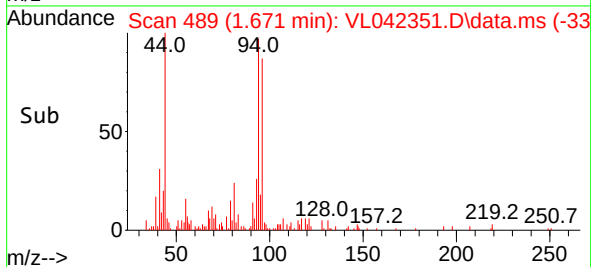
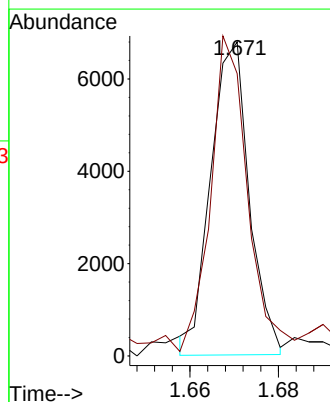
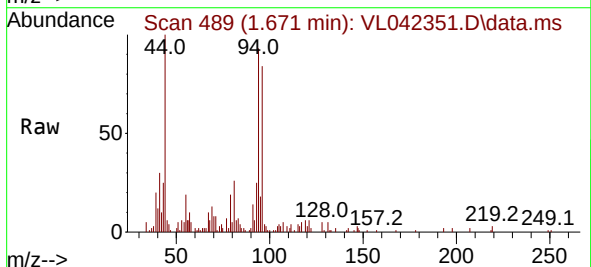
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001

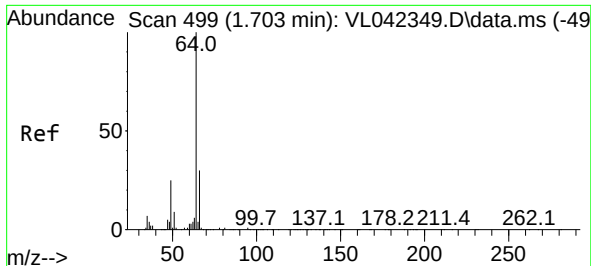
Tgt Ion: 62 Resp: 8807
 Ion Ratio Lower Upper
 62 100
 64 30.5 25.4 38.0



#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

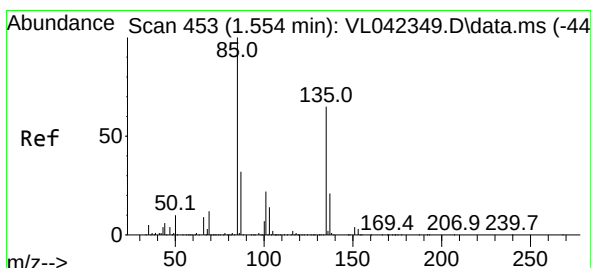
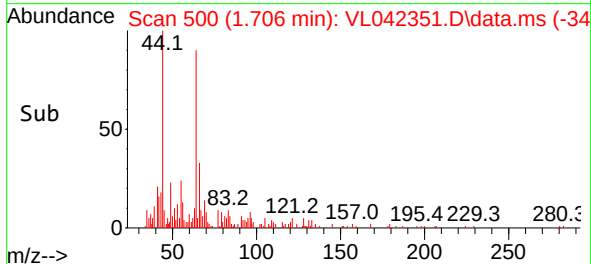
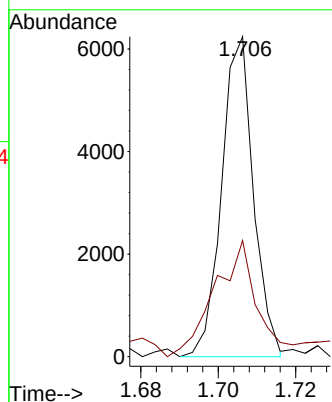
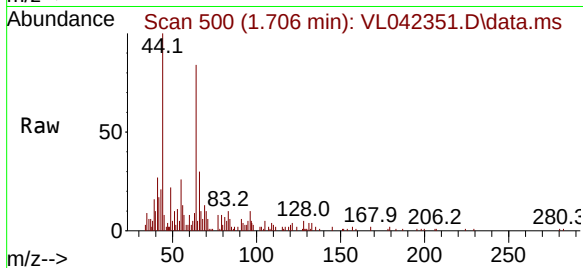




#7
Chloroethane
Concen: 1.041 ppbv
RT: 1.706 min Scan# 50
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

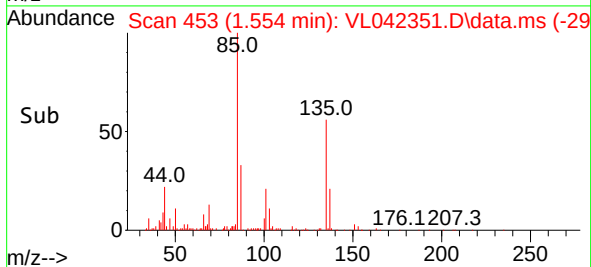
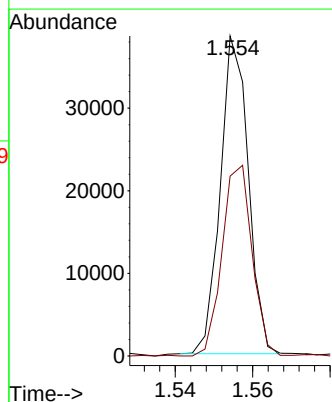
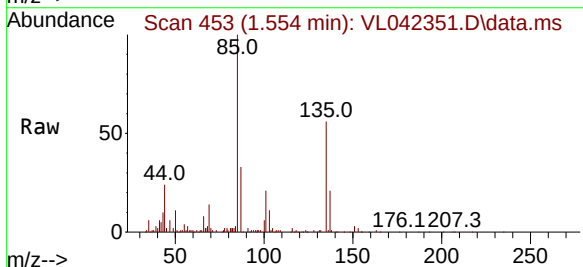
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC001

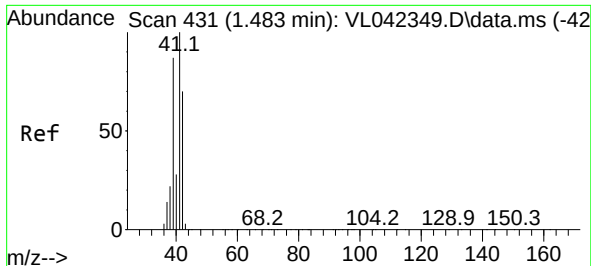
Tgt Ion: 64 Resp: 3559
Ion Ratio Lower Upper
64 100
66 36.3 24.6 37.0



#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 :

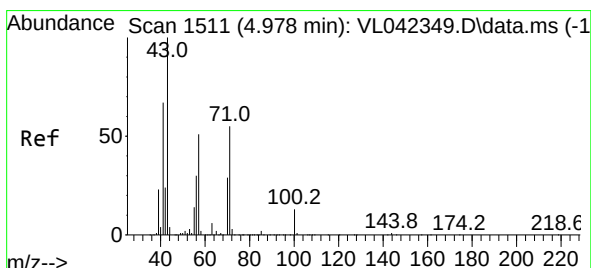
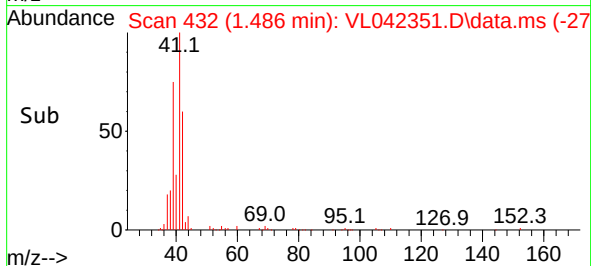
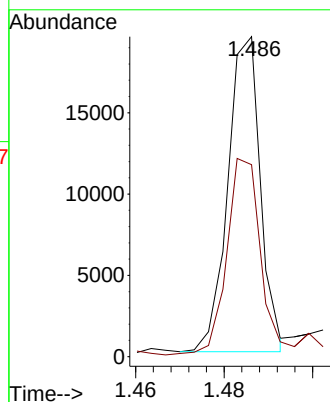
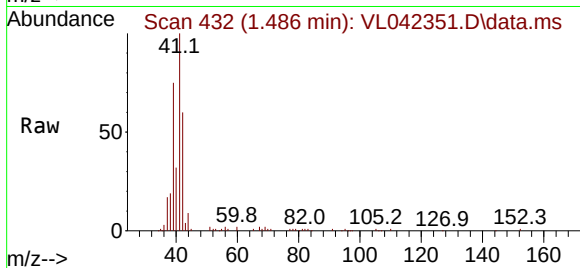
VSTDICC001

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

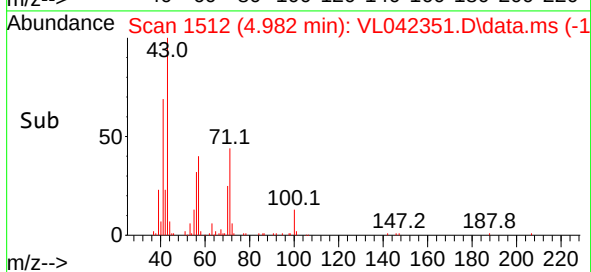
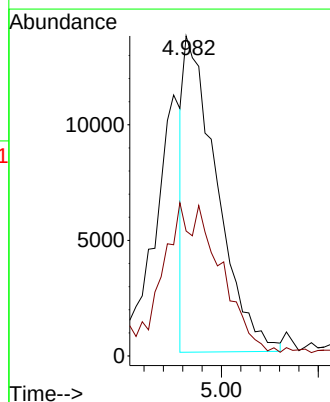
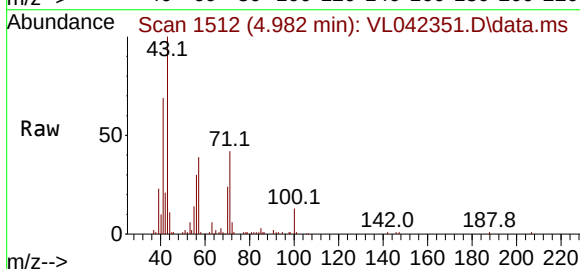
Acq: 17 Apr 2025 10:48

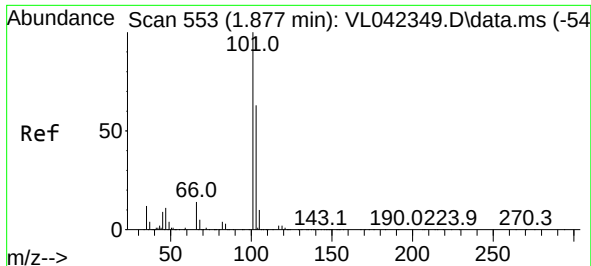
Tgt Ion: 43 Resp: 16193

Ion Ratio Lower Upper

43 100

57 84.7 39.9 59.9#

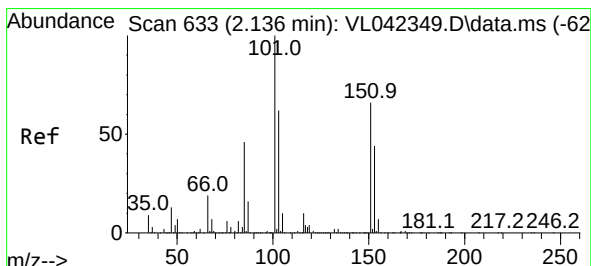
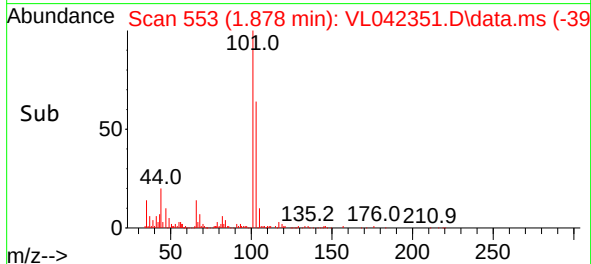
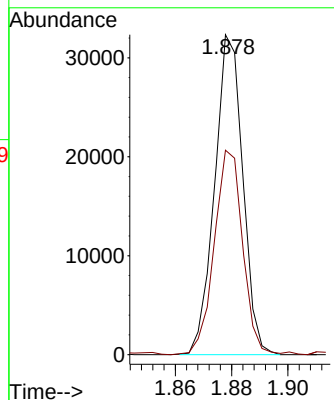
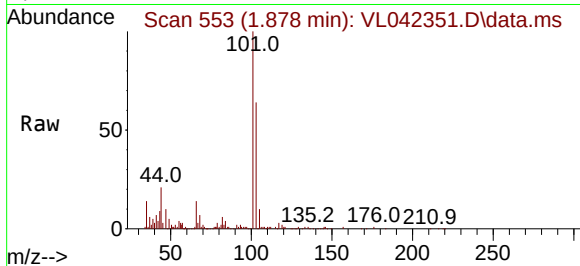




#11
 Trichlorofluoromethane
 Concen: 1.075 ppbv
 RT: 1.878 min Scan# 51
 Delta R.T. 0.000 min
 Lab File: VL042351.D
 Acq: 17 Apr 2025 10:48

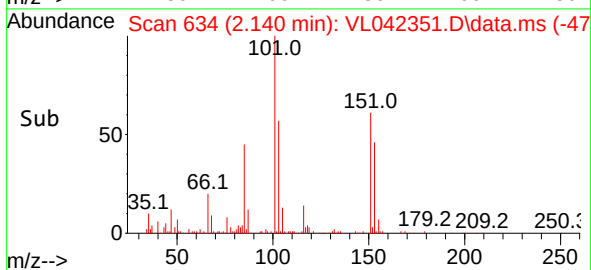
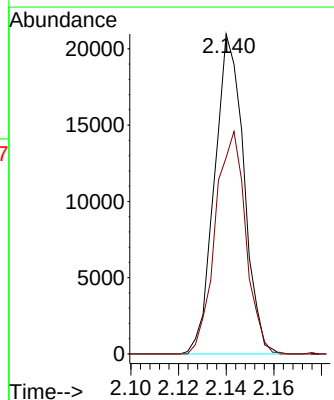
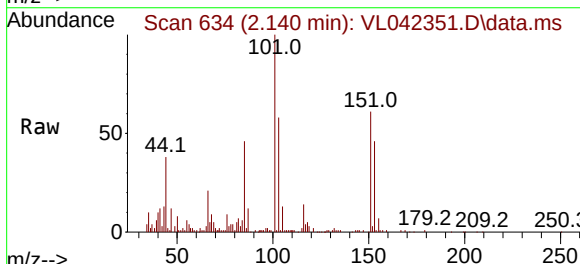
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001

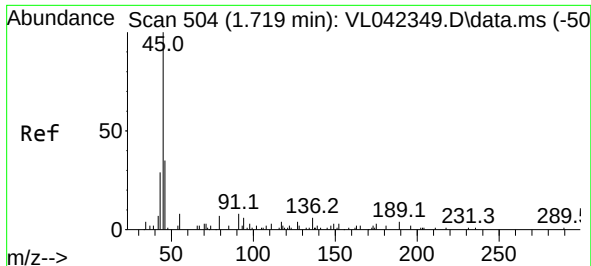
Tgt Ion:101 Resp: 22428
 Ion Ratio Lower Upper
 101 100
 103 63.6 50.1 75.1



#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

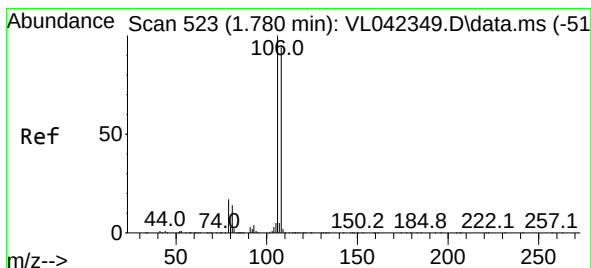
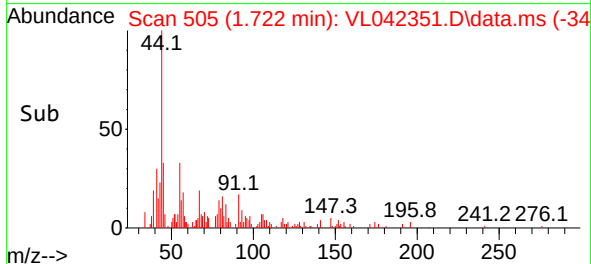
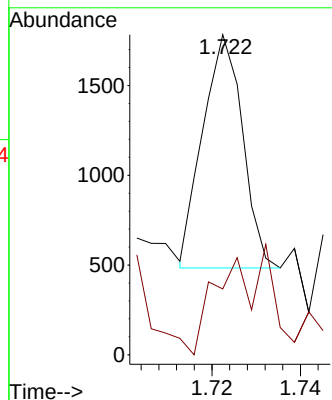
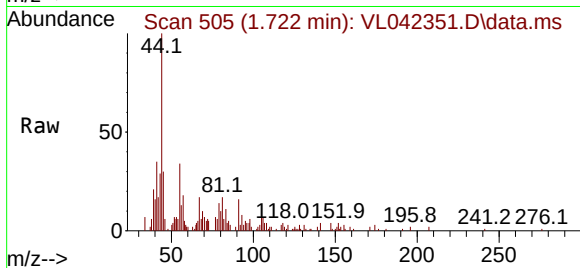




#13
Ethanol
Concen: 1.042 ppbv
RT: 1.722 min Scan# 504
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

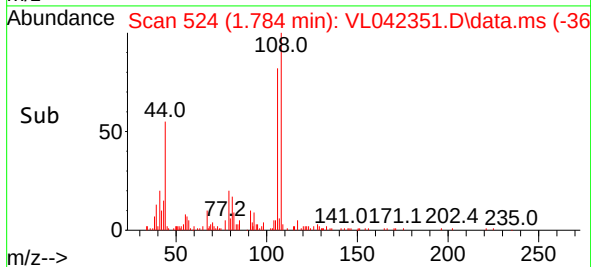
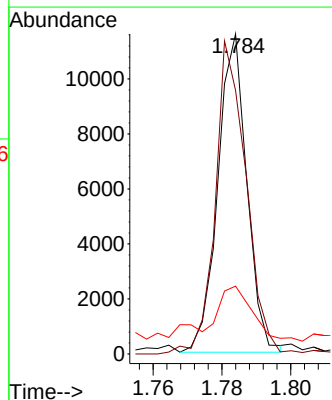
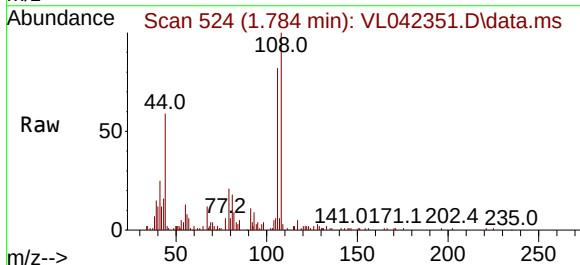
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

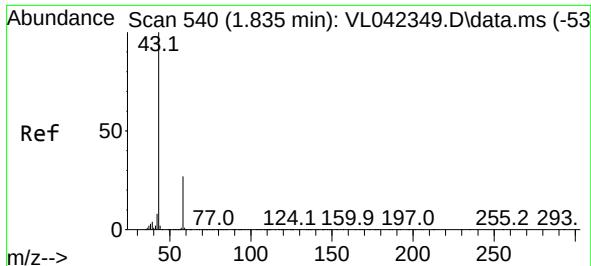
Tgt Ion: 45 Resp: 810
Ion Ratio Lower Upper
45 100
46 95.8 21.9 87.7#



#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# 540

Delta R.T. 0.004 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Instrument :

MSVOA_1

ClientSampleId :

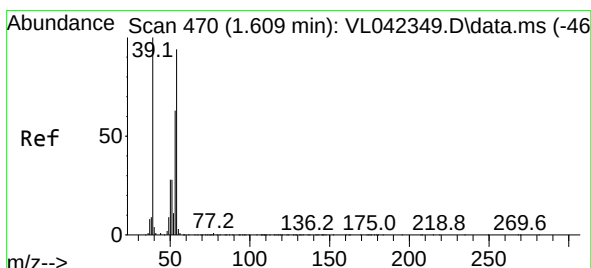
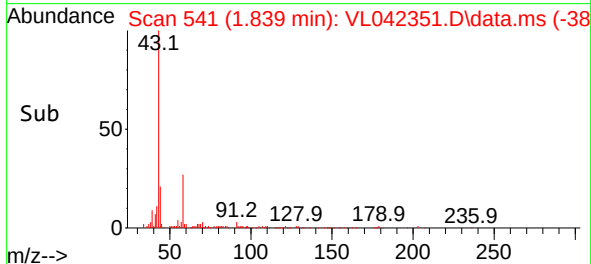
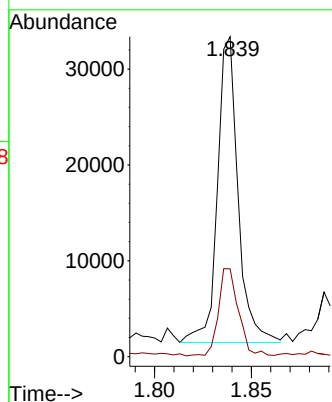
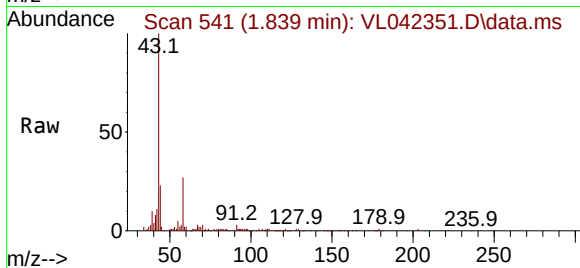
VSTDIC001

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

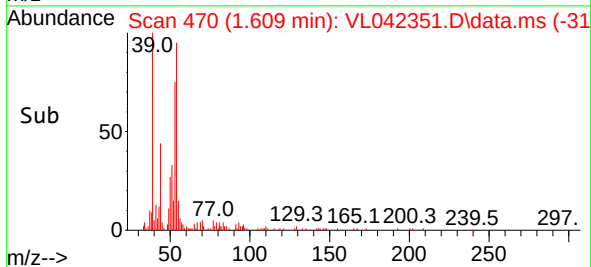
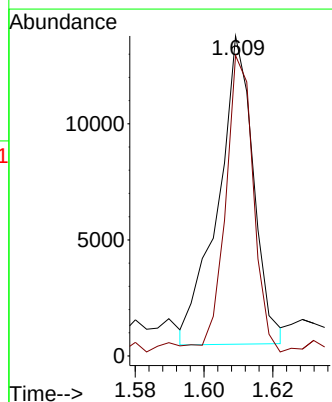
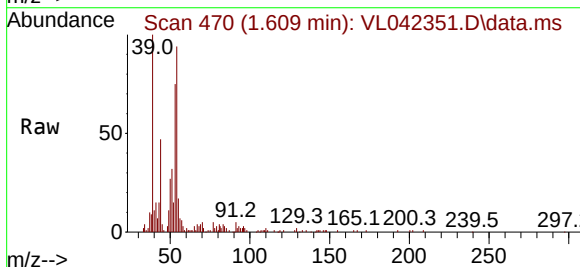
Acq: 17 Apr 2025 10:48

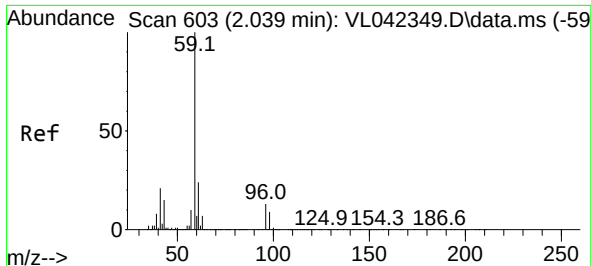
Tgt Ion: 39 Resp: 9495

Ion Ratio Lower Upper

39 100

54 77.6 64.9 97.3

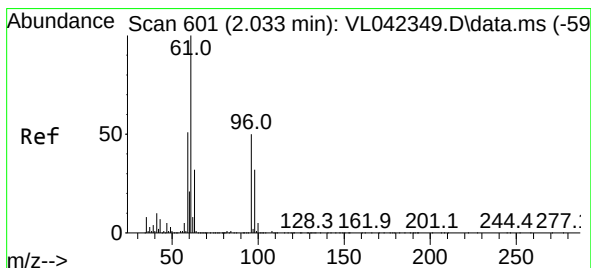
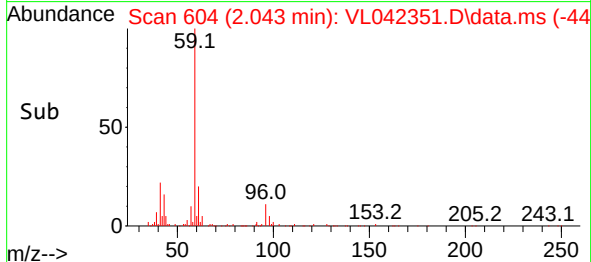
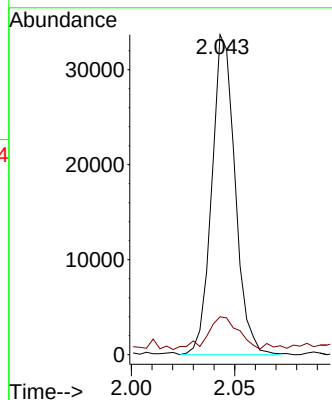
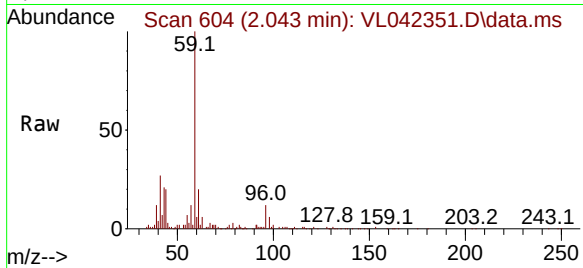




#17
tert-Butyl alcohol
Concen: 1.051 ppbv
RT: 2.043 min Scan# 603
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

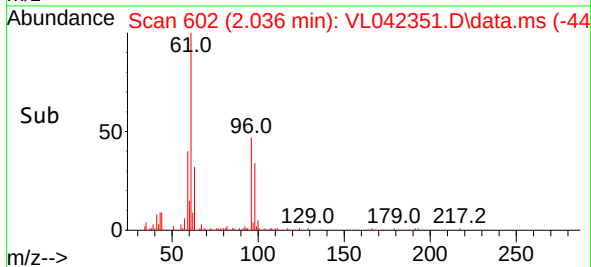
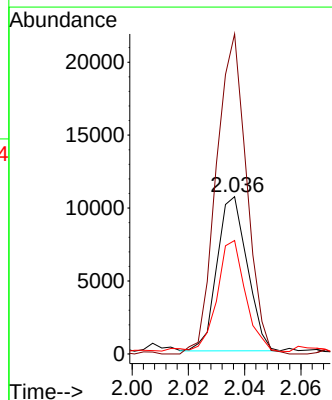
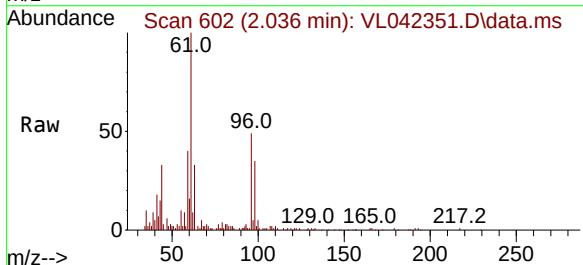
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

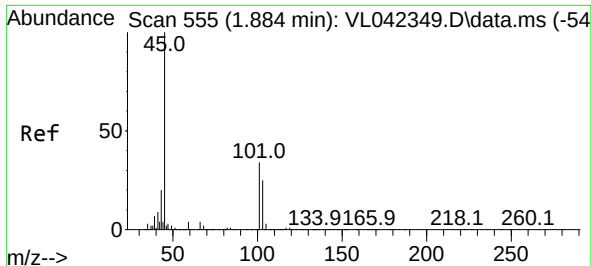
Tgt Ion: 59 Resp: 26477
Ion Ratio Lower Upper
59 100
57 14.6 8.7 13.1#



#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

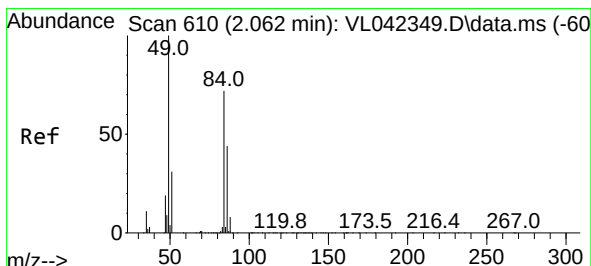
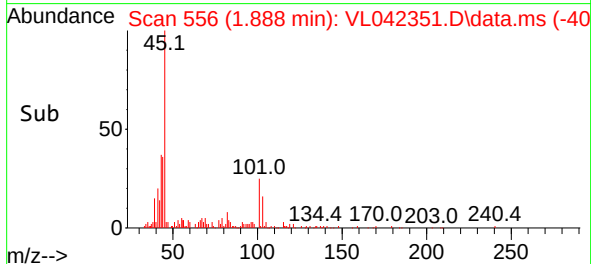
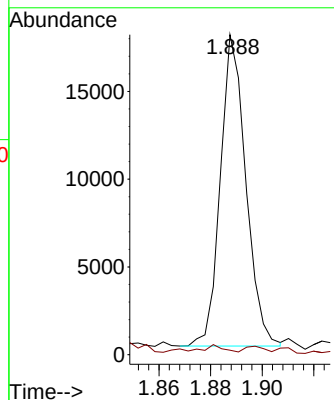
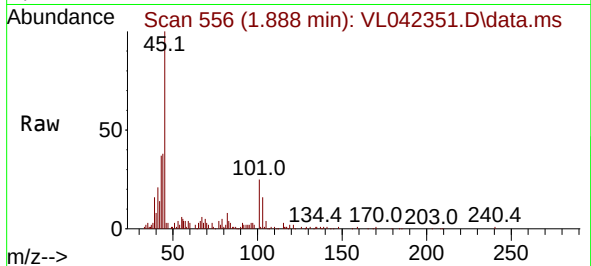




#19
Isopropyl Alcohol
Concen: 1.078 ppbv
RT: 1.888 min Scan# 511
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

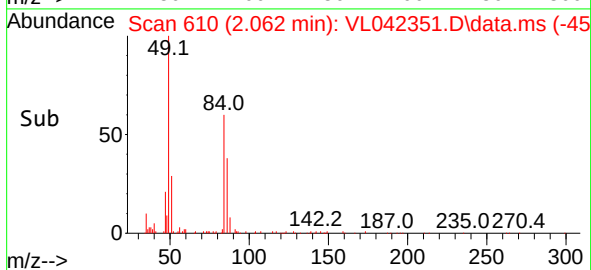
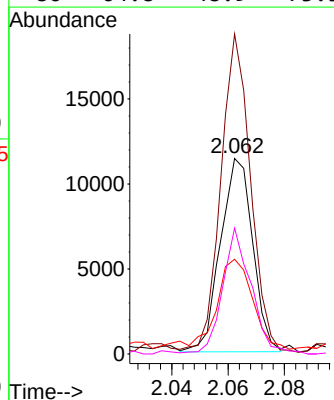
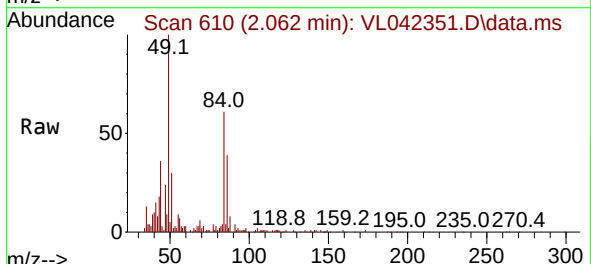
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

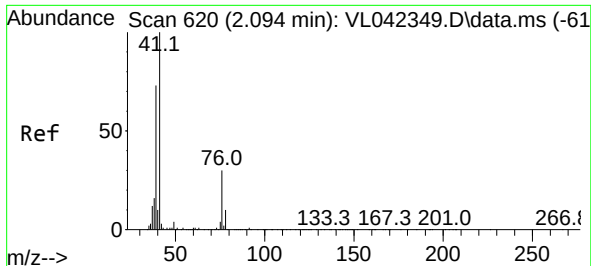
Tgt Ion: 45 Resp: 12175
Ion Ratio Lower Upper
45 100
58 3.8 34.5 51.7#



#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

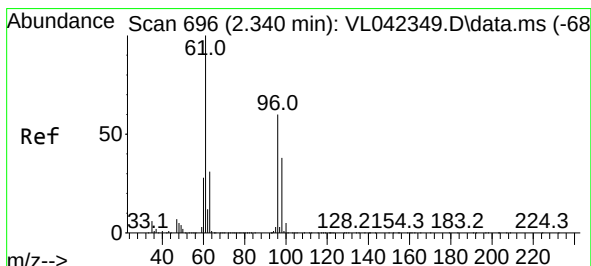
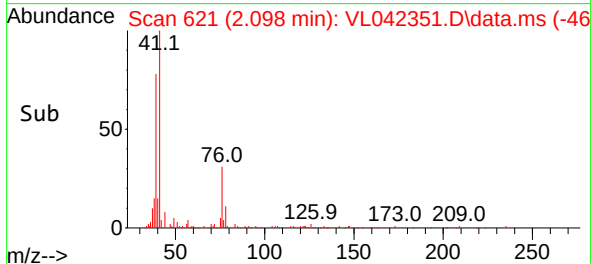
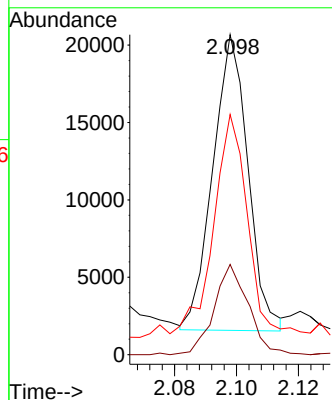
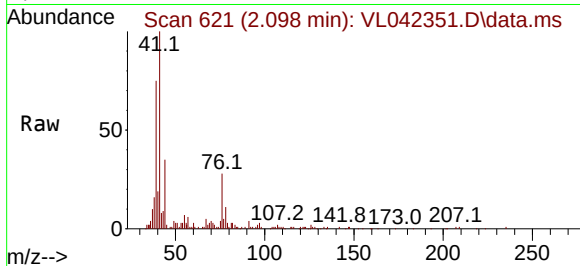




#21
 Allyl Chloride
 Concen: 1.073 ppbv
 RT: 2.098 min Scan# 61
 Delta R.T. 0.004 min
 Lab File: VL042351.D
 Acq: 17 Apr 2025 10:48

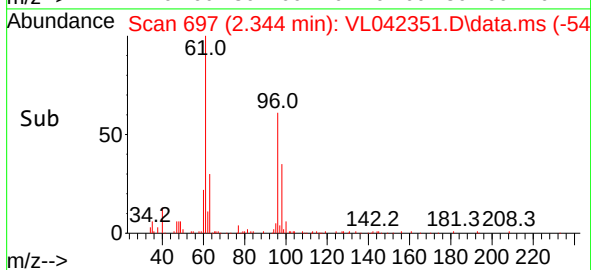
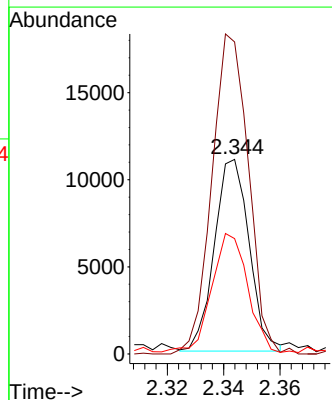
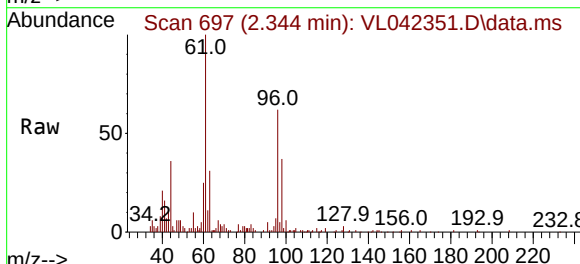
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

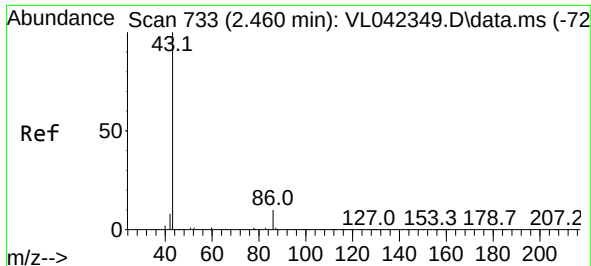
Tgt Ion:	41	Resp:	15057
Ion Ratio	Lower	Upper	
41	100		
76	29.8	24.8	37.2
39	86.1	60.6	90.8



#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

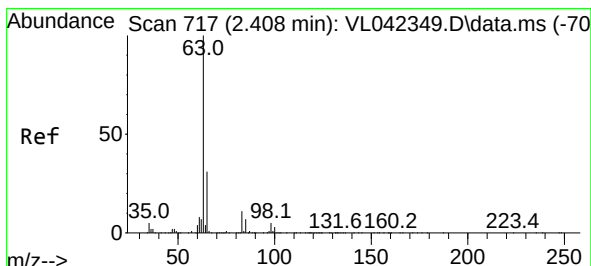
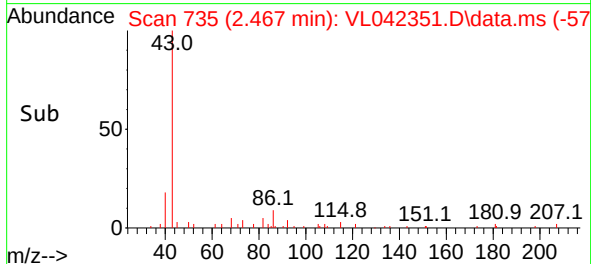
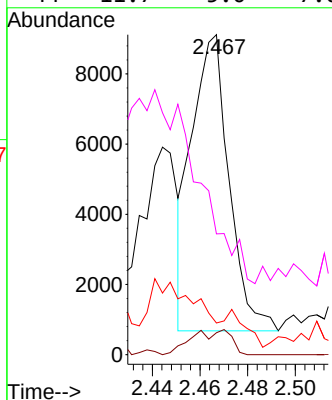
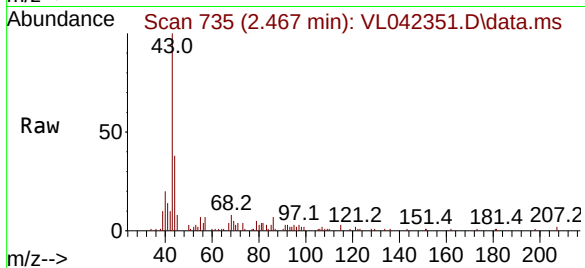




#23
Vinyl Acetate
Concen: 1.122 ppbv
RT: 2.467 min Scan# 717
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

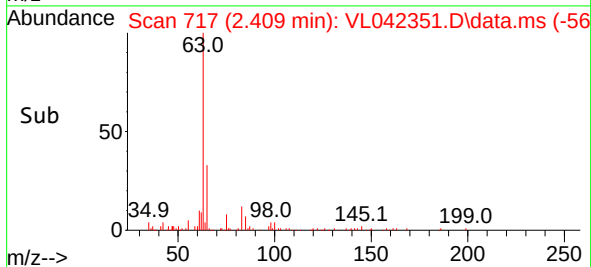
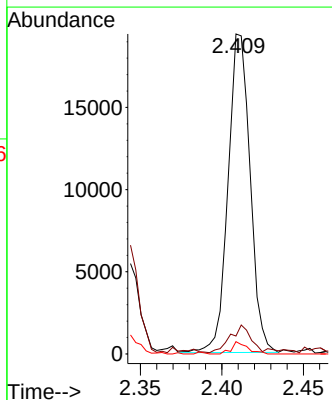
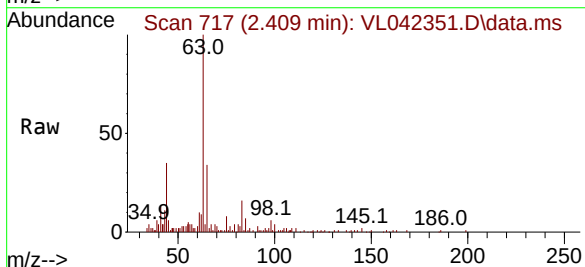
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC001

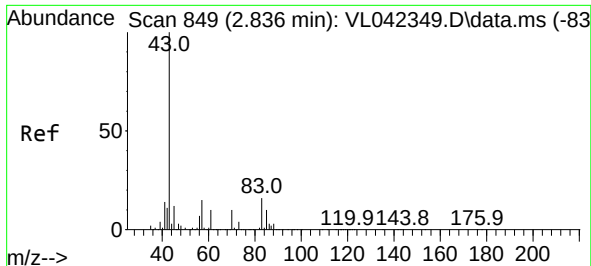
Tgt Ion:	43	Resp:	9234
Ion	Ratio	Lower	Upper
43	100		
86	7.4	6.5	9.7
42	4.6	7.8	11.8#
44	11.7	5.0	7.6#



#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



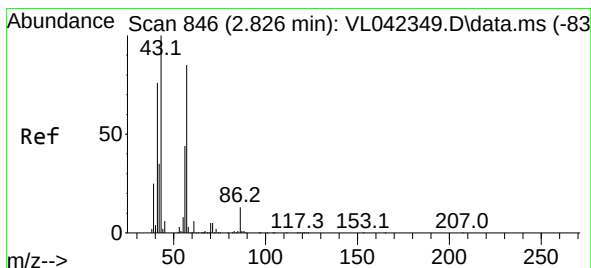
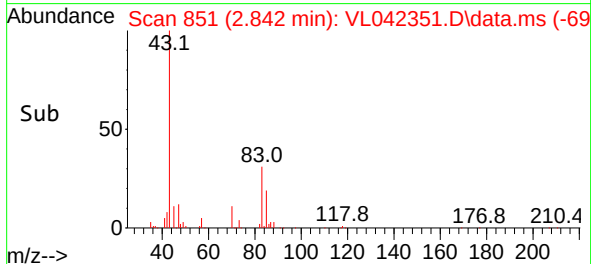
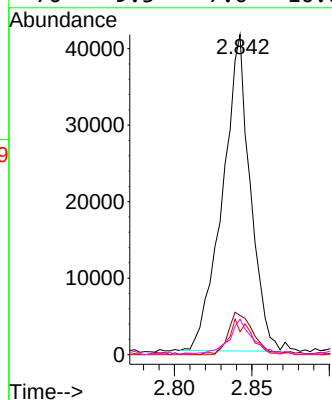
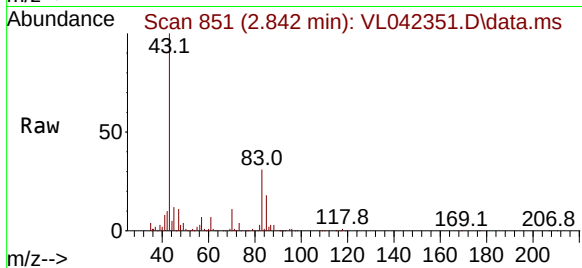


#25
Ethyl Acetate
Concen: 1.027 ppbv
RT: 2.842 min Scan# 849
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

Tgt Ion: 43 Resp: 51494

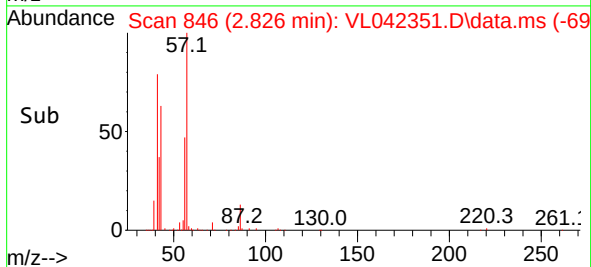
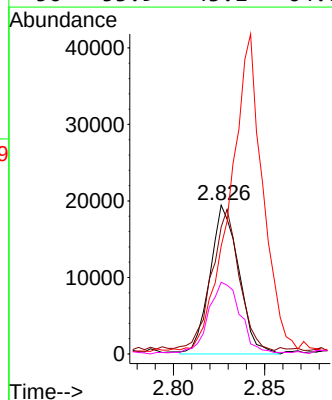
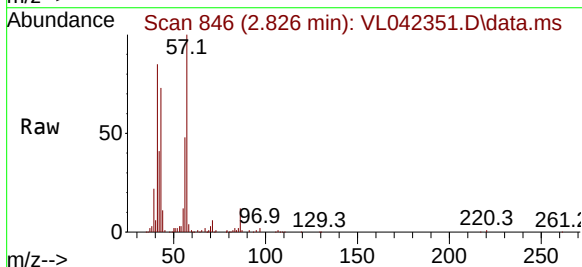
Ion	Ratio	Lower	Upper
43	100		
45	13.1	8.3	12.5#
61	9.0	7.3	10.9
70	9.3	7.0	10.6

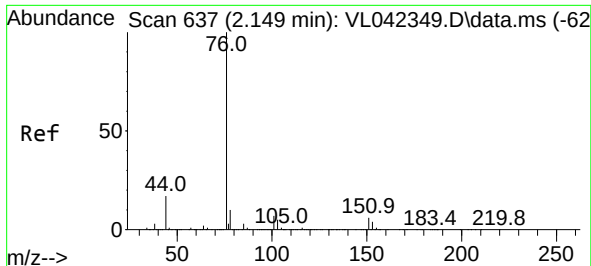


#26
Hexane
Concen: 1.053 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

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

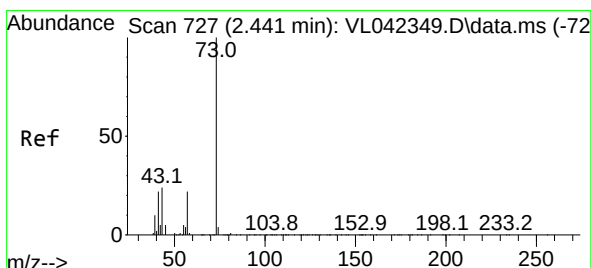
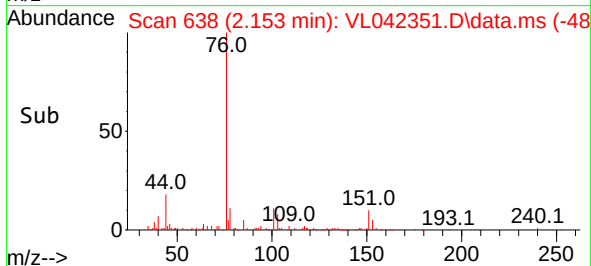
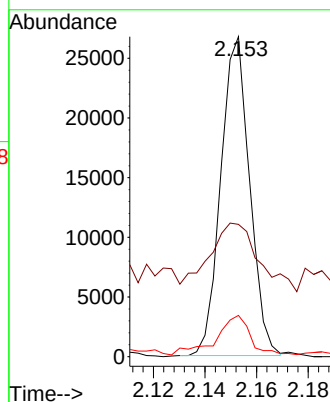
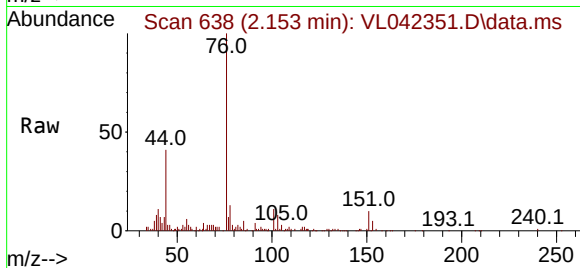
Tgt Ion: 76 Resp: 20739

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

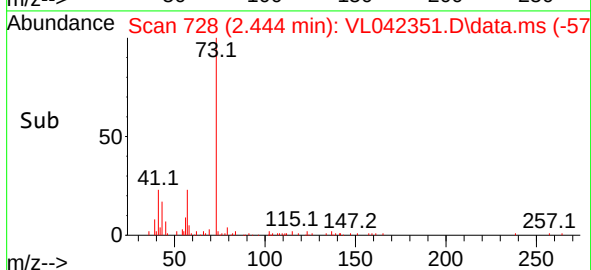
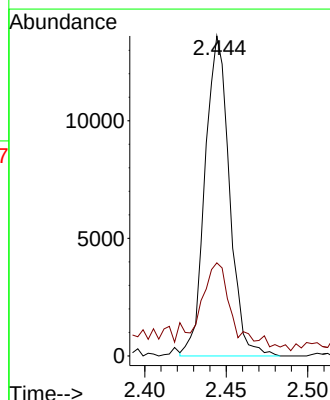
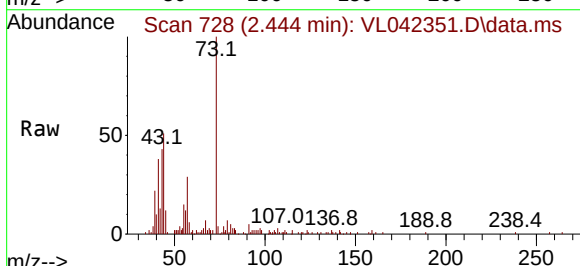
Acq: 17 Apr 2025 10:48

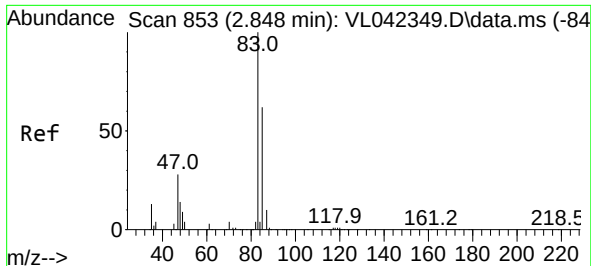
Tgt Ion: 73 Resp: 14164

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 :

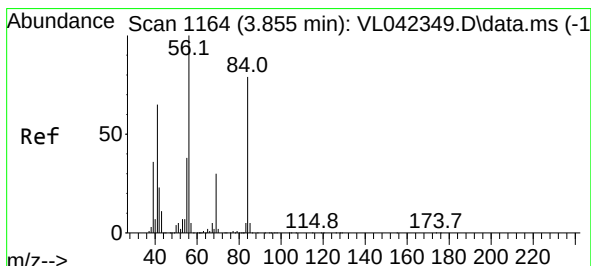
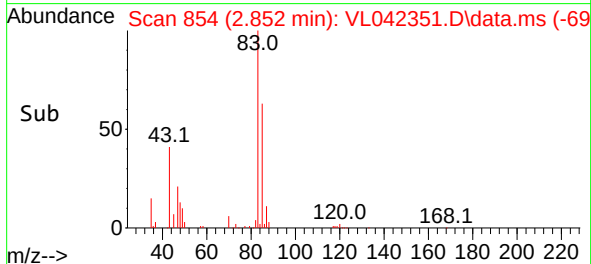
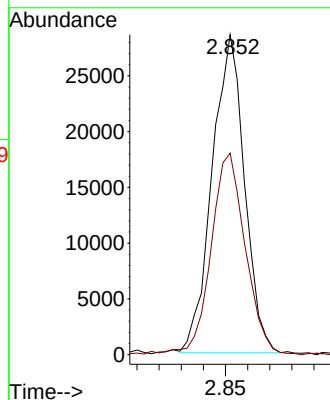
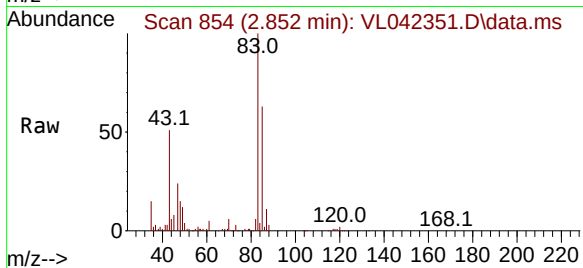
VSTDIC001

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

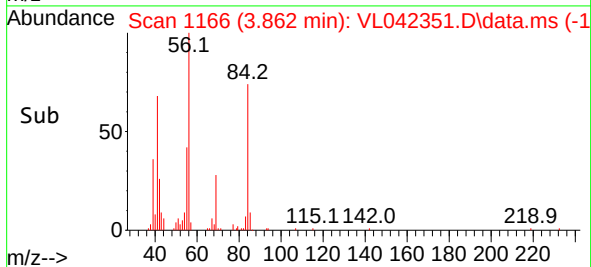
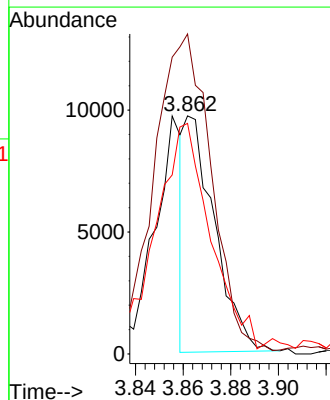
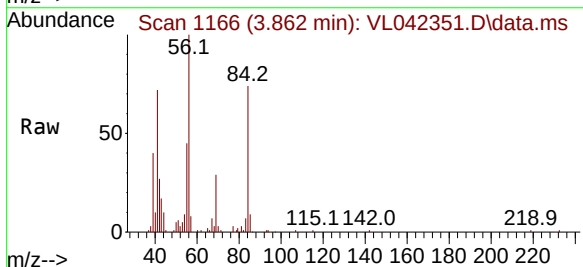
Tgt Ion: 84 Resp: 8430

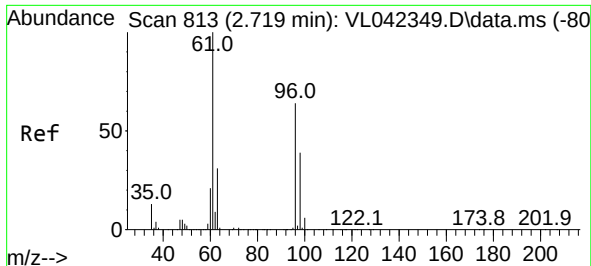
Ion Ratio Lower Upper

84 100

56 263.5 101.0 151.4#

41 167.0 67.4 101.0#

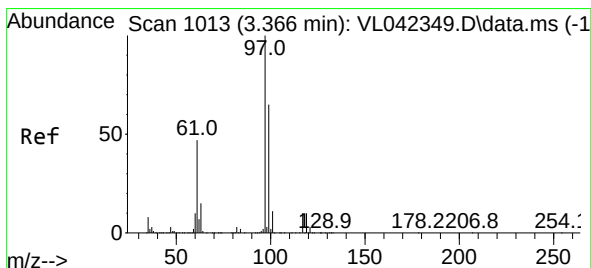
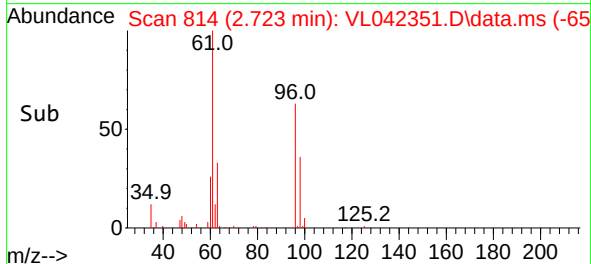
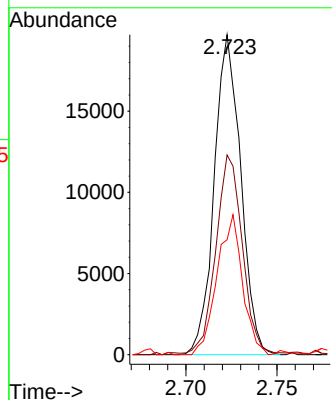
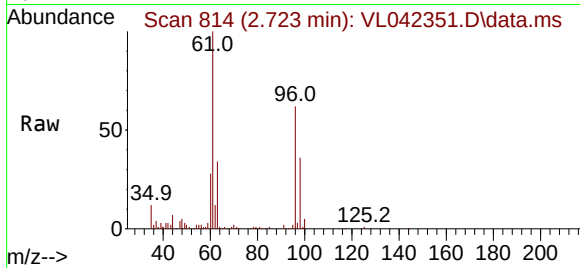




#31
 cis-1,2-Dichloroethene
 Concen: 1.032 ppbv
 RT: 2.723 min Scan# 81
 Delta R.T. 0.004 min
 Lab File: VL042351.D
 Acq: 17 Apr 2025 10:48

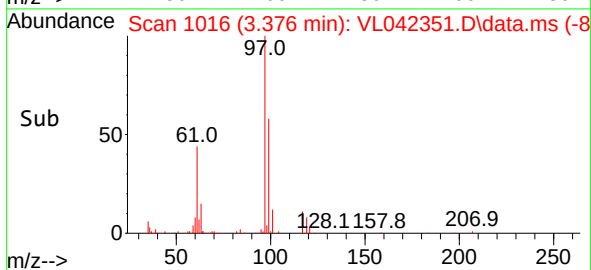
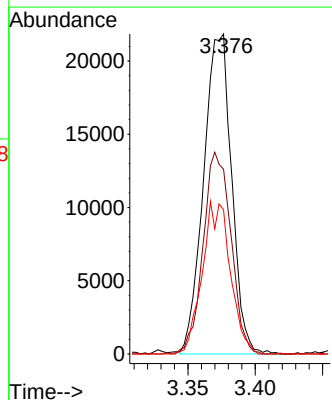
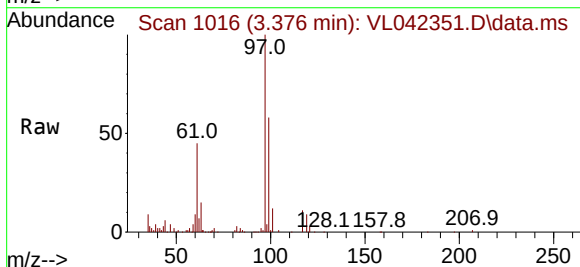
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

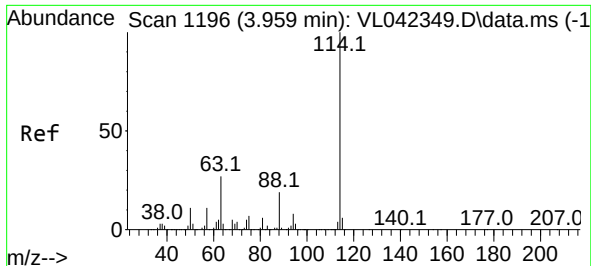
Tgt Ion: 61 Resp: 19904
 Ion Ratio Lower Upper
 61 100
 96 61.9 50.8 76.2
 98 35.9 30.9 46.3



#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

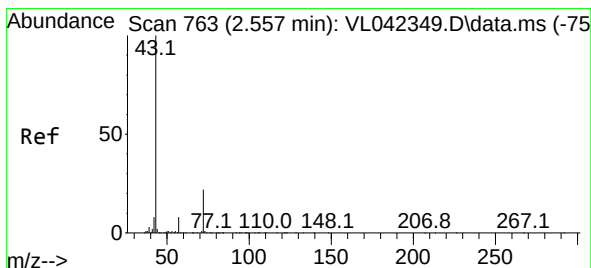
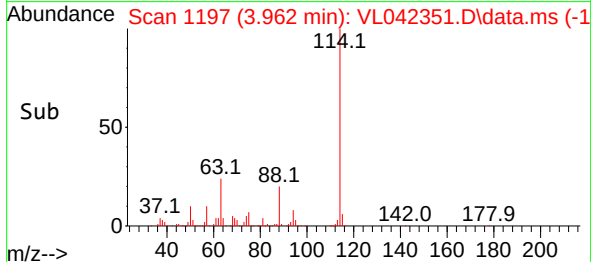
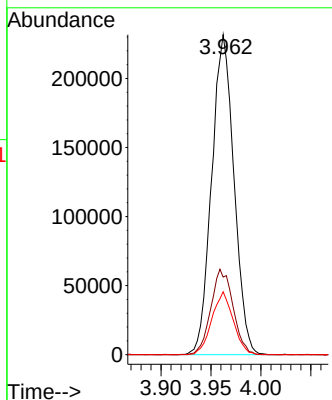
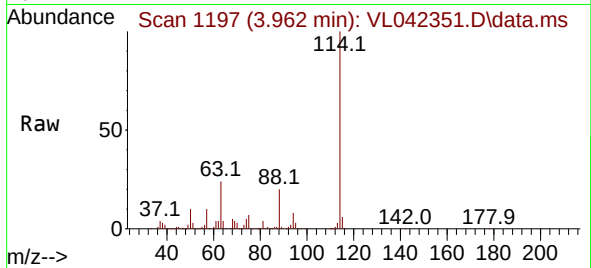




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.962 min Scan# 1196
 Delta R.T. 0.004 min
 Lab File: VL042351.D
 Acq: 17 Apr 2025 10:48

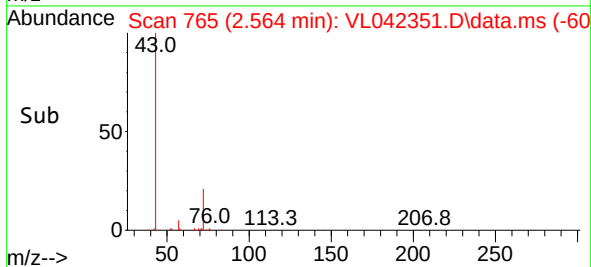
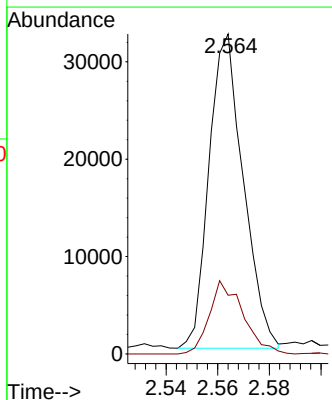
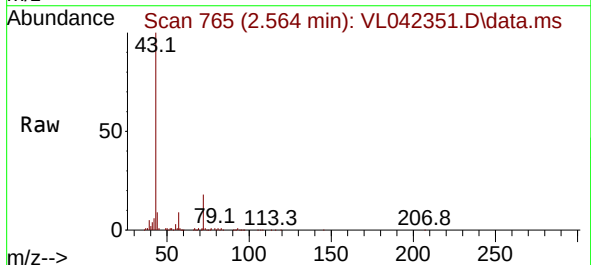
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001

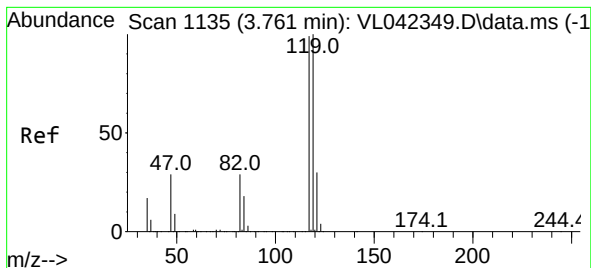
Tgt Ion:114 Resp: 359907
 Ion Ratio Lower Upper
 114 100
 63 26.7 21.8 32.6
 88 18.8 15.5 23.3



#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

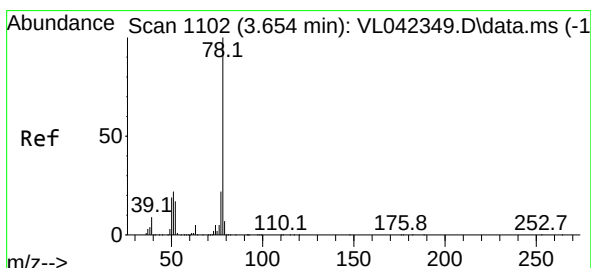
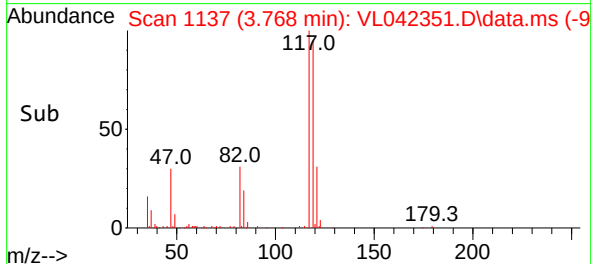
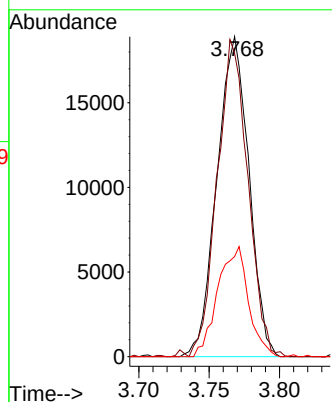
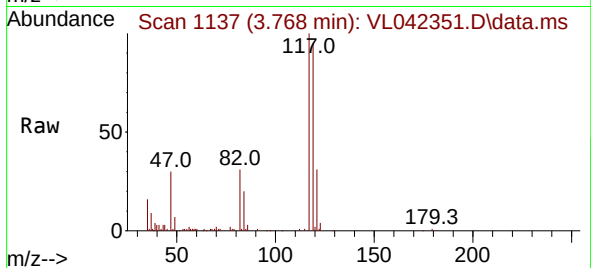
Tgt Ion:117 Resp: 29875

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

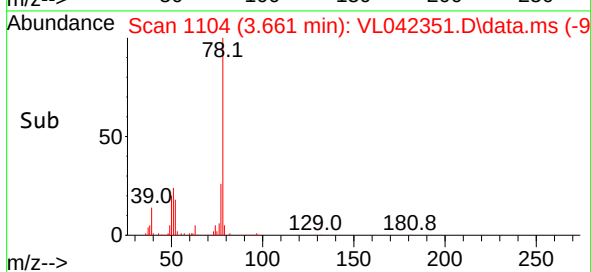
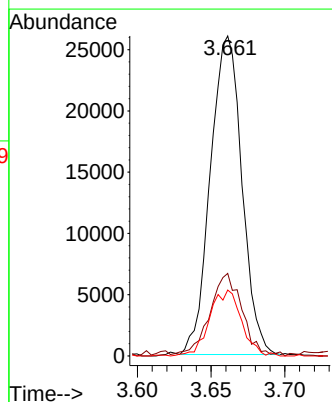
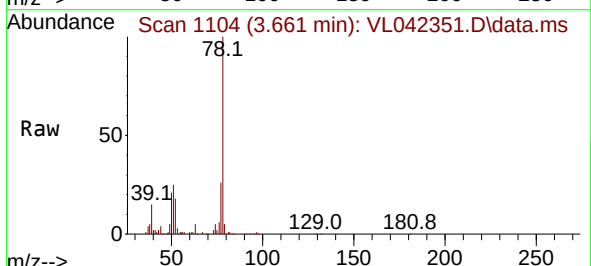
Tgt Ion: 78 Resp: 38707

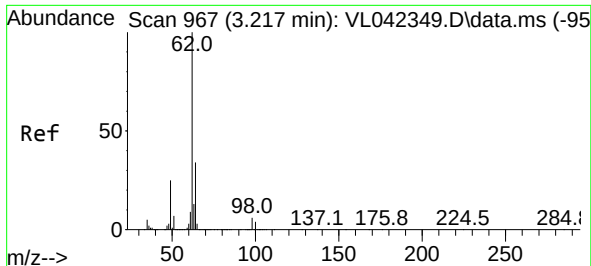
Ion Ratio Lower Upper

78 100

77 24.7 17.4 26.0

50 20.7 15.5 23.3

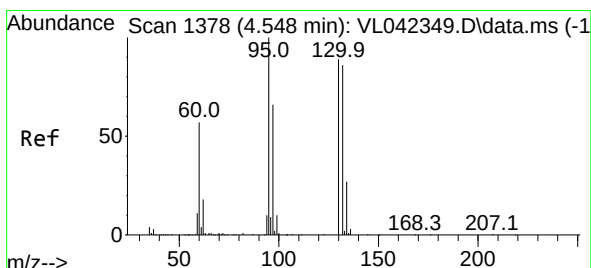
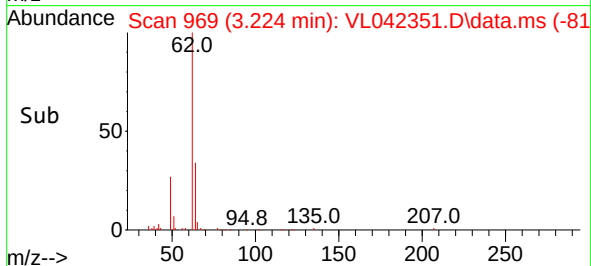
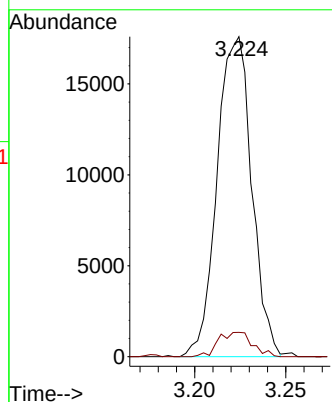
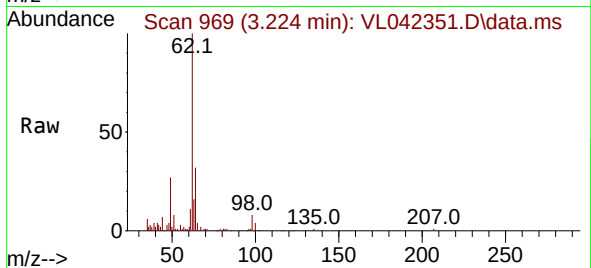




#37
1,2-Dichloroethane
Concen: 0.999 ppbv
RT: 3.224 min Scan# 969
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

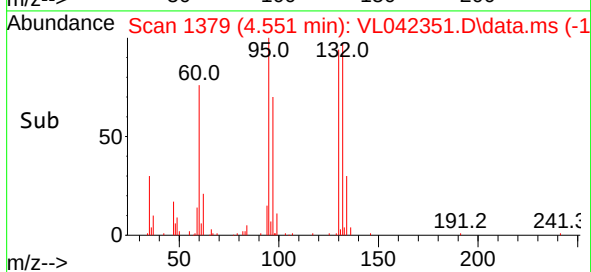
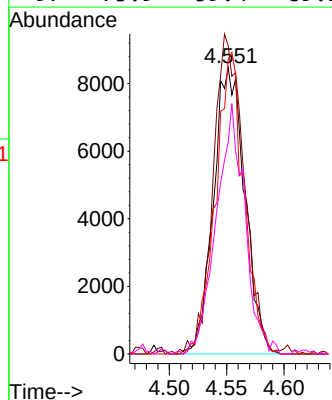
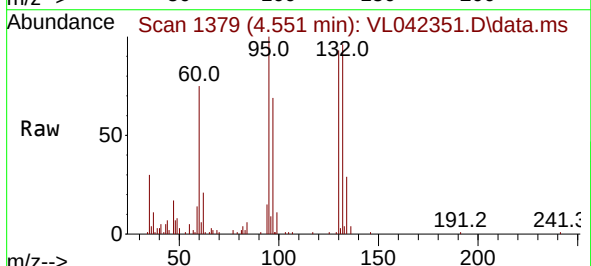
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

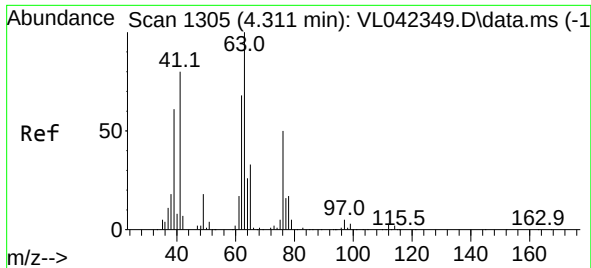
Tgt Ion: 62 Resp: 23284
Ion Ratio Lower Upper
62 100
98 7.5 5.1 7.7



#38
Trichloroethene
Concen: 0.947 ppbv
RT: 4.551 min Scan# 1379
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:130 Resp: 16119
Ion Ratio Lower Upper
130 100
95 106.6 89.8 134.6
132 102.9 77.7 116.5
97 73.9 59.4 89.2

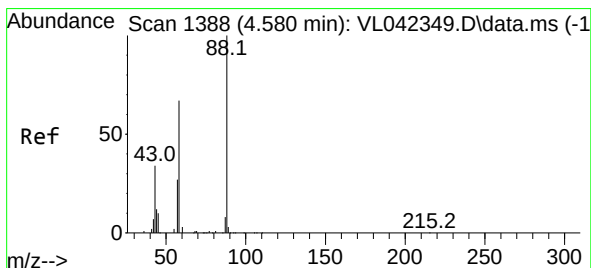
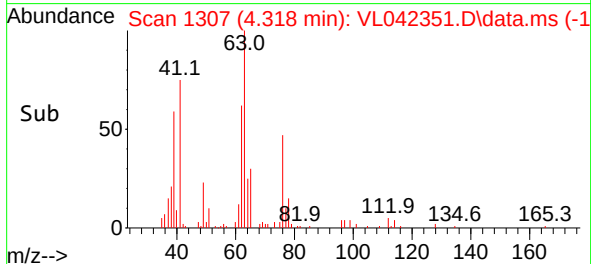
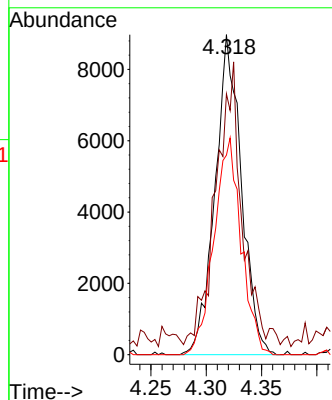
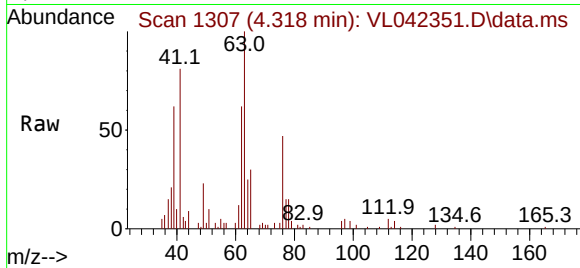




#39
1,2-Dichloropropane
Concen: 1.027 ppbv
RT: 4.318 min Scan# 11
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

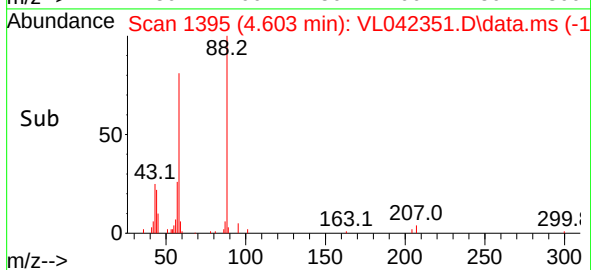
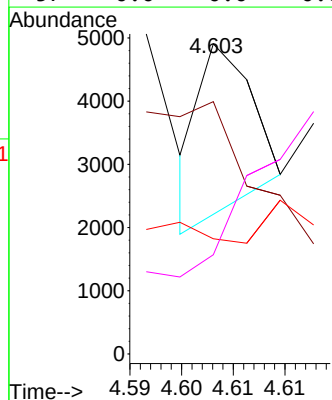
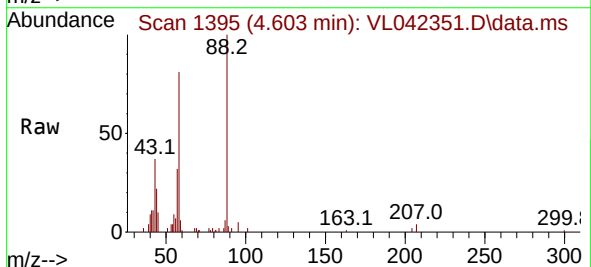
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

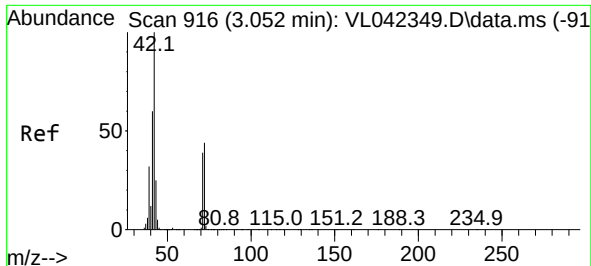
Tgt Ion:	63	Resp:	14866
Ion	Ratio	Lower	Upper
63	100		
41	78.3	64.2	96.2
62	62.3	54.3	81.5



#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

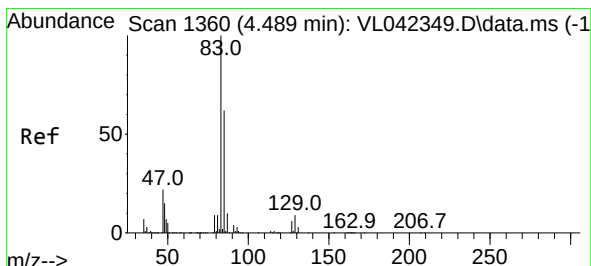
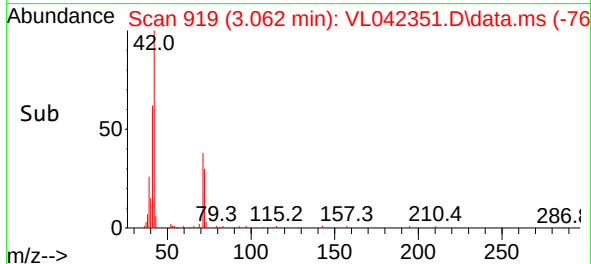
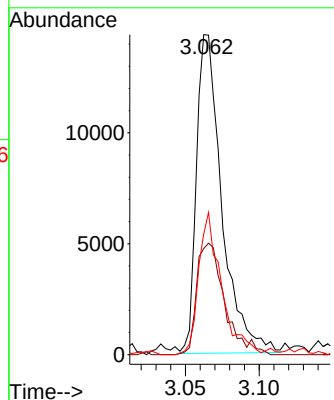
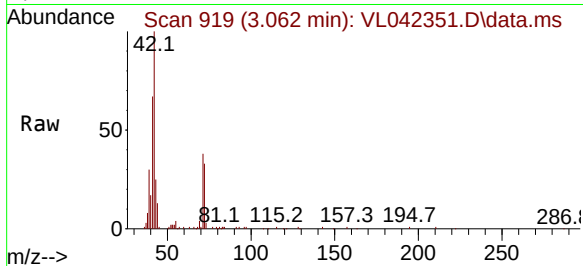




#41
Tetrahydrofuran
Concen: 1.049 ppbv
RT: 3.062 min Scan# 916
Delta R.T. 0.010 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

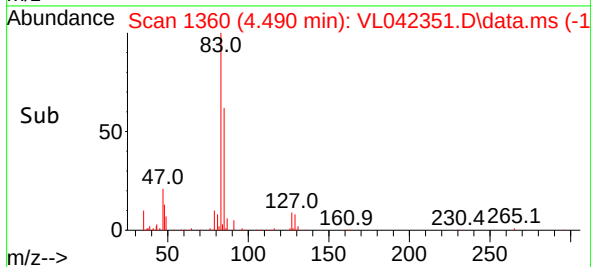
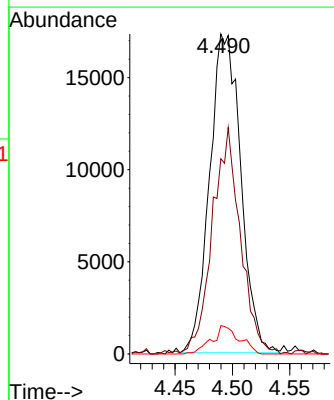
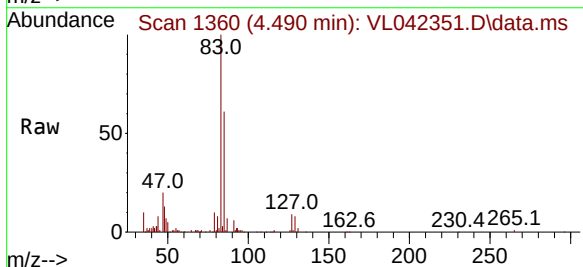
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

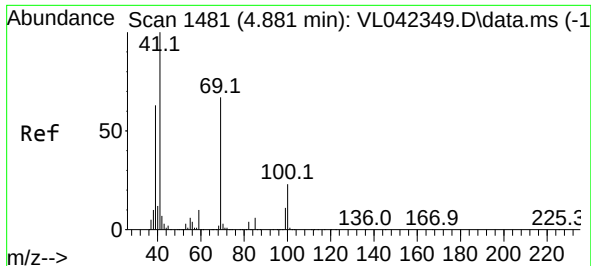
Tgt Ion:	42	Resp:	17259
Ion	Ratio	Lower	Upper
42	100		
72	38.1	32.3	48.5
71	42.3	31.4	47.2



#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#

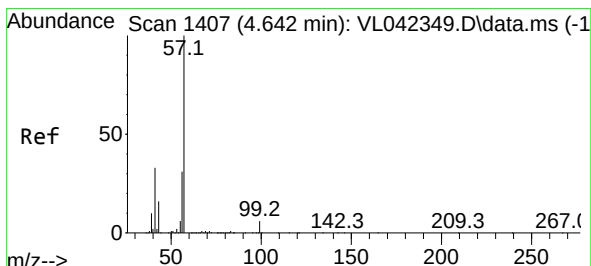
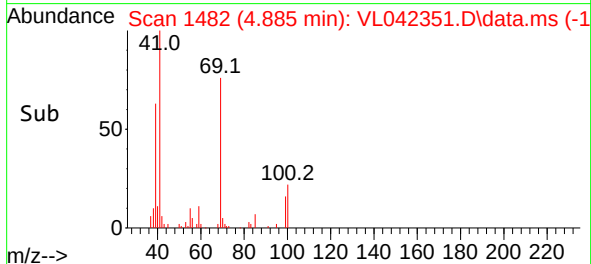
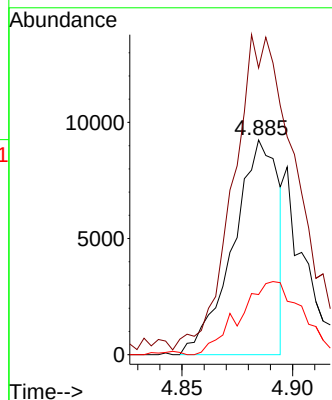
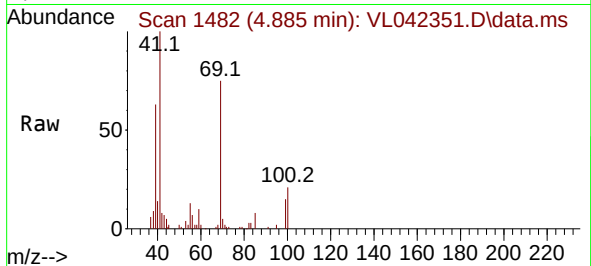




#43
Methyl Methacrylate
Concen: 0.751 ppbv
RT: 4.885 min Scan# 1481
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

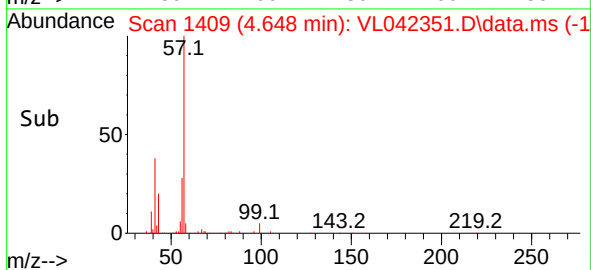
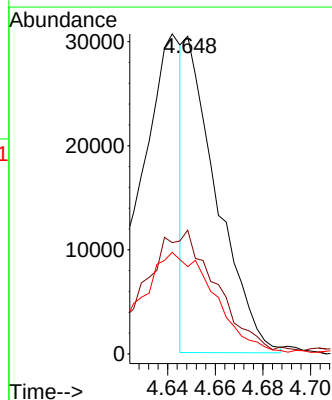
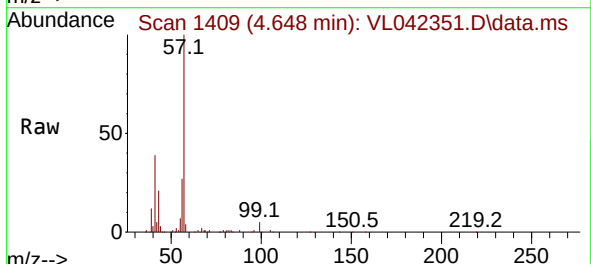
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

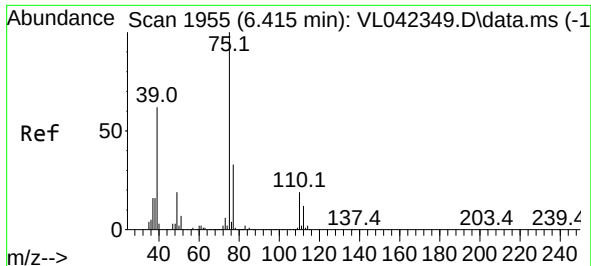
Tgt Ion: 69 Resp: 13084
Ion Ratio Lower Upper
69 100
41 213.4 118.6 177.8#
100 0.0 28.2 42.2#



#44
2,2,4-Trimethylpentane
Concen: 0.427 ppbv
RT: 4.648 min Scan# 1409
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 57 Resp: 28653
Ion Ratio Lower Upper
57 100
41 91.3 27.2 40.8#
56 0.0 25.7 38.5#

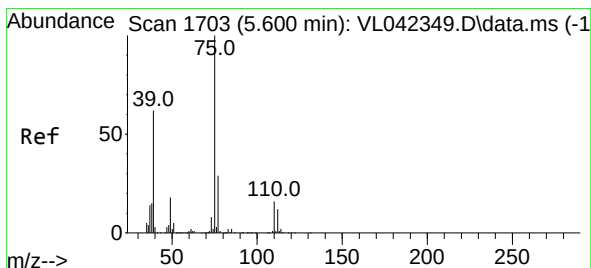
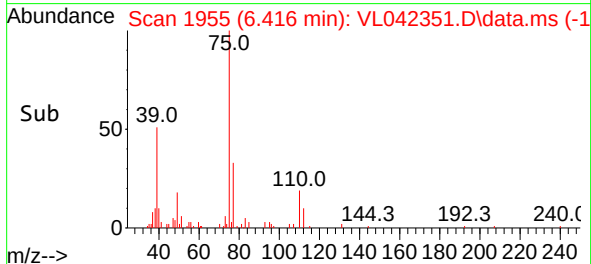
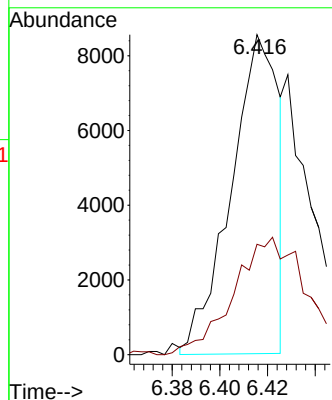
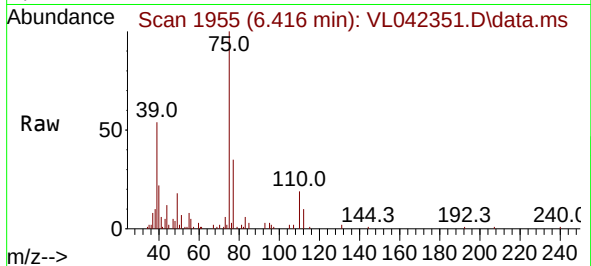




#45
 t-1,3-Dichloropropene
 Concen: 0.658 ppbv
 RT: 6.416 min Scan# 1955
 Delta R.T. 0.000 min
 Lab File: VL042351.D
 Acq: 17 Apr 2025 10:48

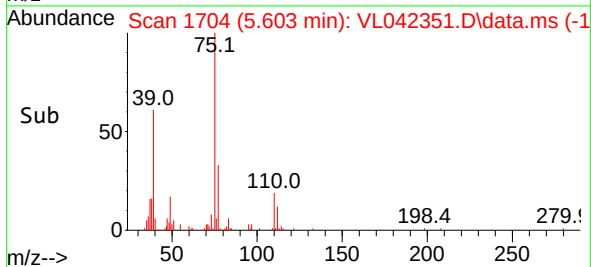
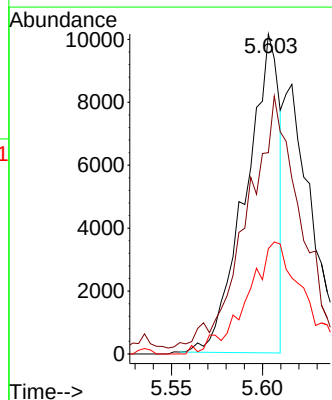
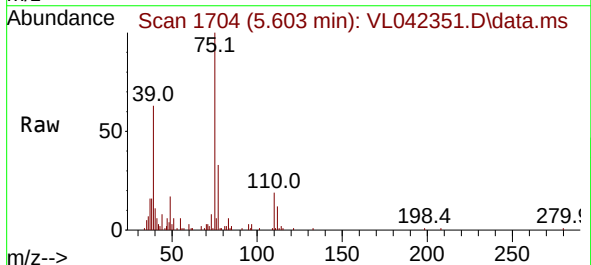
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001

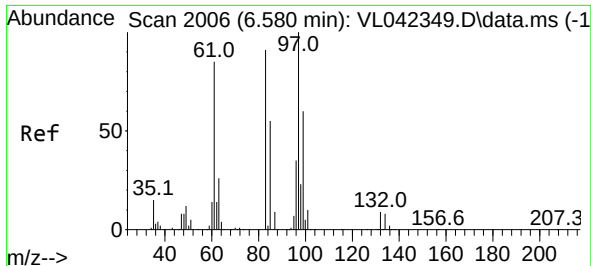
Tgt Ion: 75 Resp: 11763
 Ion Ratio Lower Upper
 75 100
 77 34.5 27.0 40.6



#46
 cis-1,3-Dichloropropene
 Concen: 0.596 ppbv
 RT: 5.603 min Scan# 1704
 Delta R.T. 0.004 min
 Lab File: VL042351.D
 Acq: 17 Apr 2025 10:48

Tgt Ion: 75 Resp: 13028
 Ion Ratio Lower Upper
 75 100
 39 59.7 50.0 75.0
 77 33.1 23.0 34.6





#47

1,1,2-Trichloroethane

Concen: 0.521 ppbv

RT: 6.587 min Scan# 2006

Delta R.T. 0.007 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion: 97 Resp: 7690

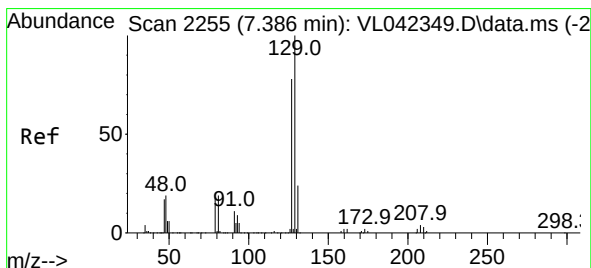
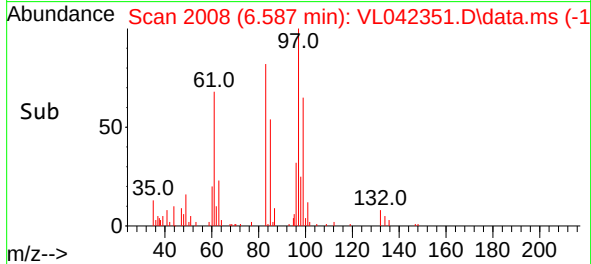
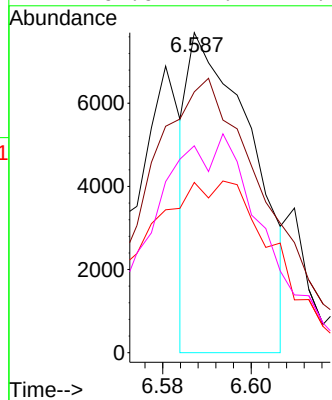
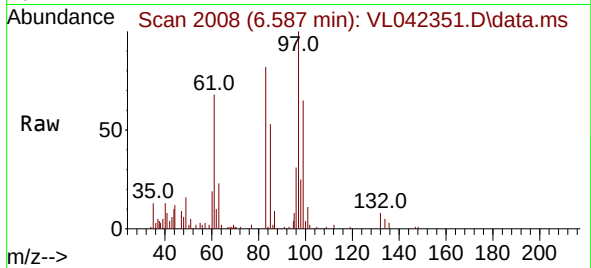
Ion Ratio Lower Upper

97 100

83 67.7 72.8 109.2#

85 31.3 44.2 66.4#

99 64.6 47.9 71.9



#48

Dibromochloromethane

Concen: 0.997 ppbv

RT: 7.390 min Scan# 2256

Delta R.T. 0.004 min

Lab File: VL042351.D

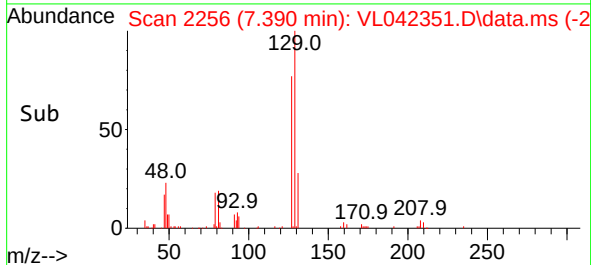
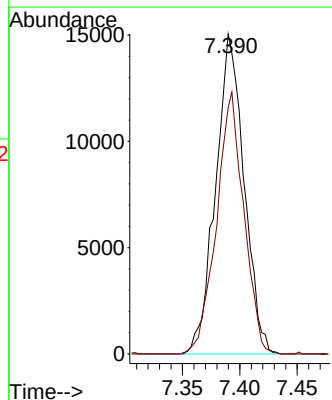
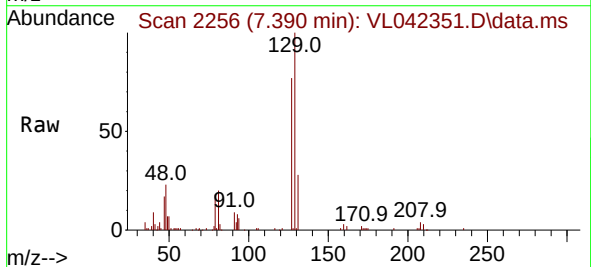
Acq: 17 Apr 2025 10:48

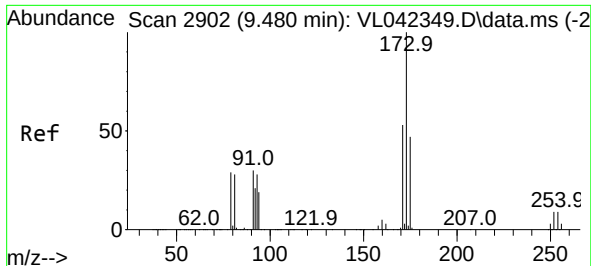
Tgt Ion: 129 Resp: 25948

Ion Ratio Lower Upper

129 100

127 78.4 39.1 117.3

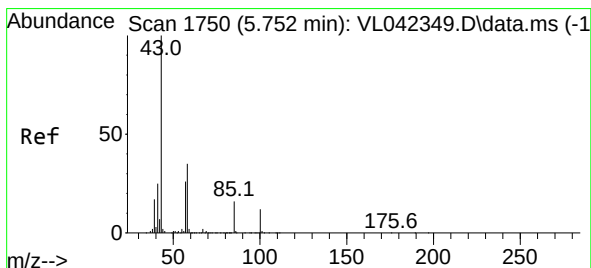
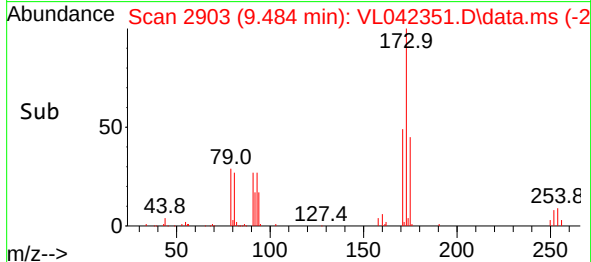
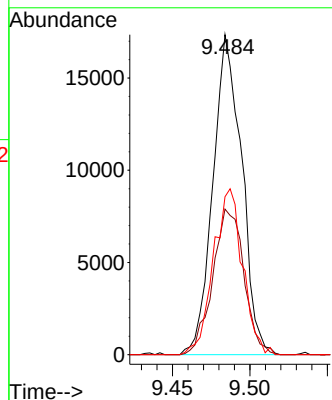
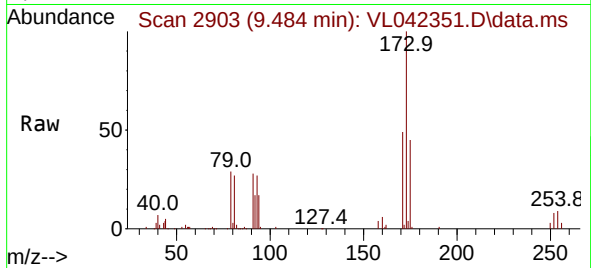




#49
Bromoform
Concen: 0.984 ppbv
RT: 9.484 min Scan# 2902
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

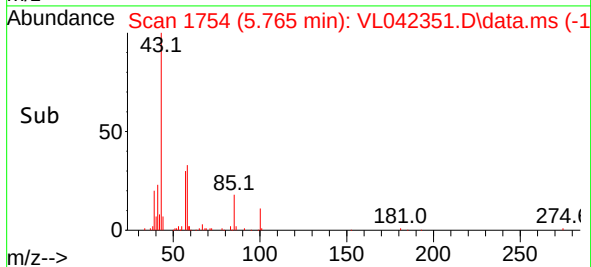
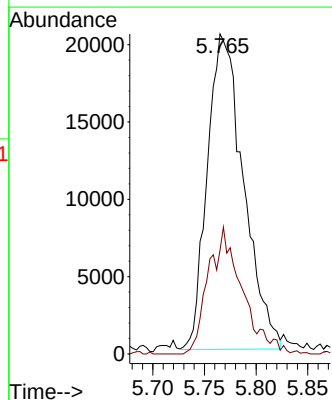
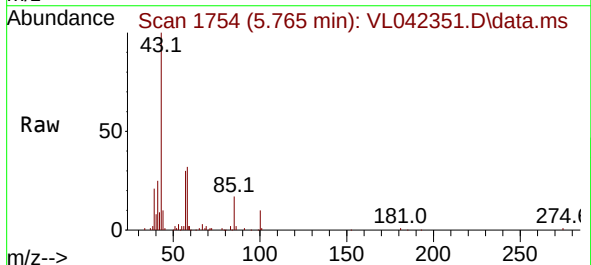
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

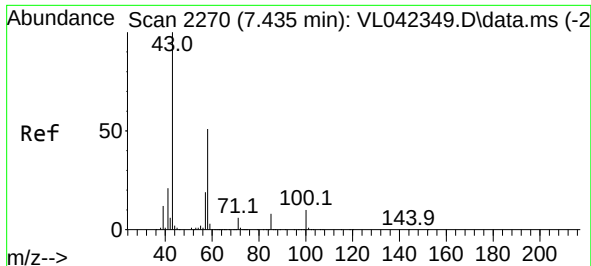
Tgt Ion:173 Resp: 22413
Ion Ratio Lower Upper
173 100
175 49.3 38.2 57.2
171 52.7 40.9 61.3



#50
4-Methyl-2-Pentanone
Concen: 1.049 ppbv
RT: 5.765 min Scan# 1754
Delta R.T. 0.013 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 43 Resp: 49725
Ion Ratio Lower Upper
43 100
58 37.7 28.6 43.0

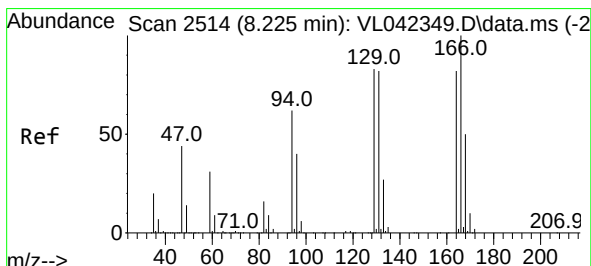
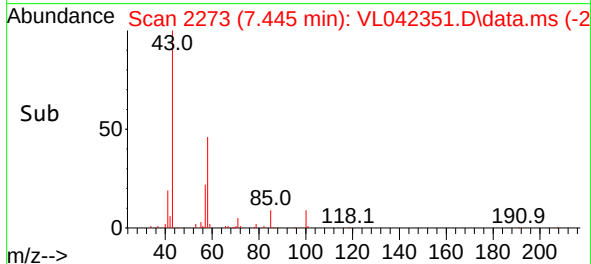
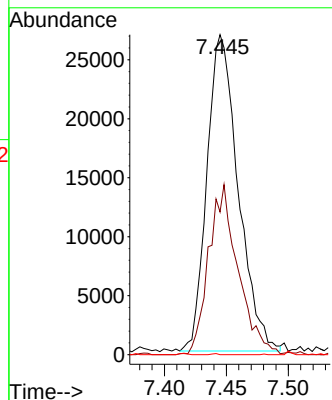
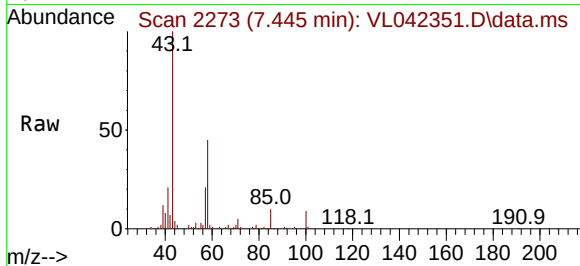




#51
2-Hexanone
Concen: 1.103 ppbv
RT: 7.445 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

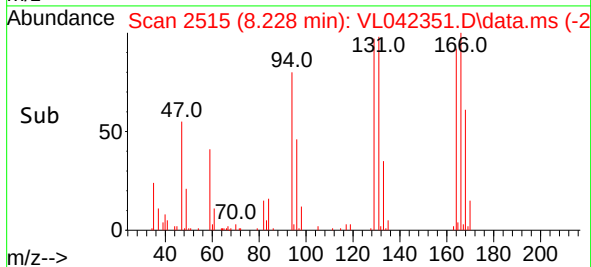
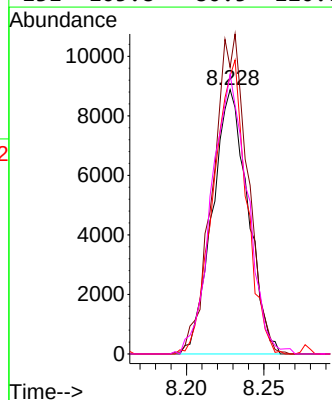
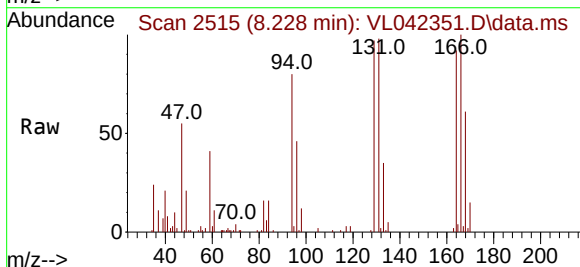
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

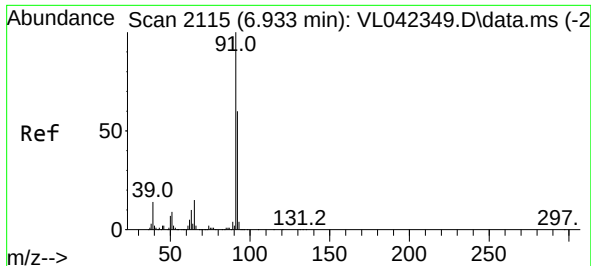
Tgt Ion:	43	Resp:	47178
Ion	Ratio	Lower	Upper
43	100		
58	50.8	40.2	60.4
98	0.1	0.1	0.1



#52
Tetrachloroethene
Concen: 0.943 ppbv
RT: 8.228 min Scan# 2515
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:	164	Resp:	14154
Ion	Ratio	Lower	Upper
164	100		
166	107.7	98.2	147.2
129	104.2	81.8	122.8
131	105.8	80.5	120.7

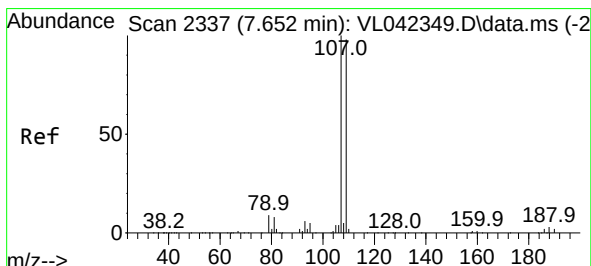
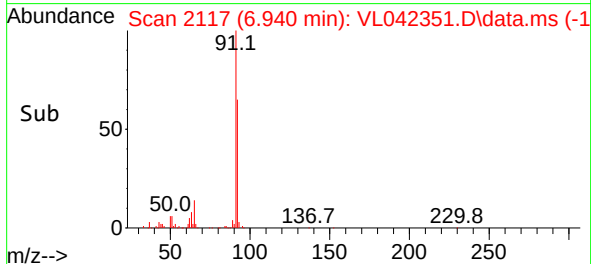
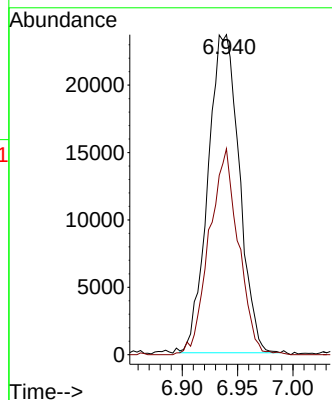
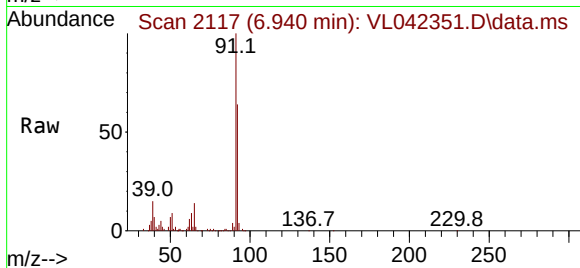




#53
Toluene
Concen: 1.001 ppbv
RT: 6.940 min Scan# 2115
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

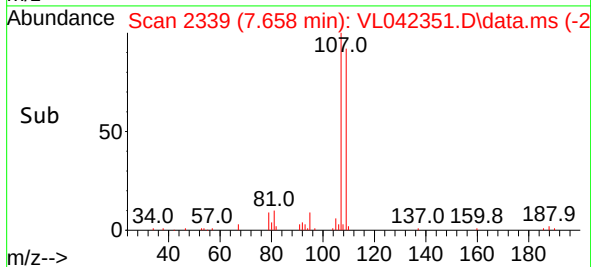
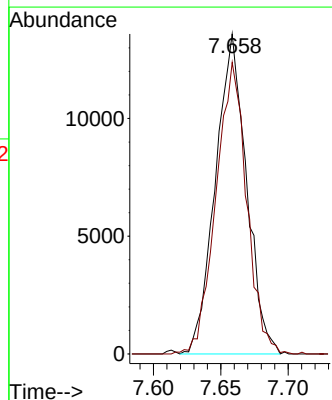
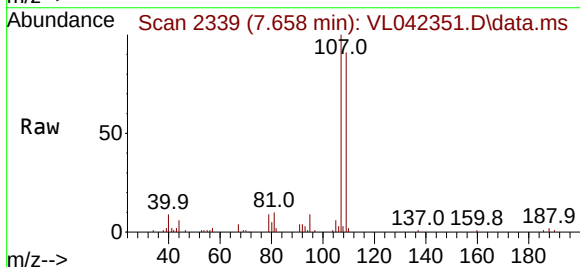
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

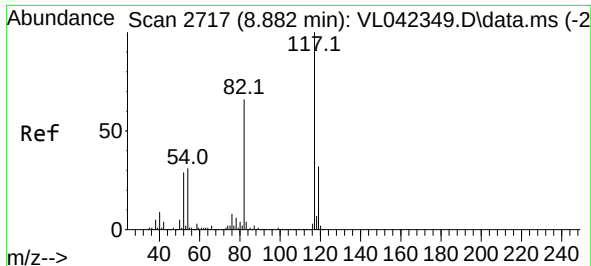
Tgt Ion: 91 Resp: 46611
Ion Ratio Lower Upper
91 100
92 60.4 48.2 72.4



#54
1,2-Dibromoethane
Concen: 1.036 ppbv
RT: 7.658 min Scan# 2339
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 107 Resp: 21780
Ion Ratio Lower Upper
107 100
109 90.7 78.2 117.4

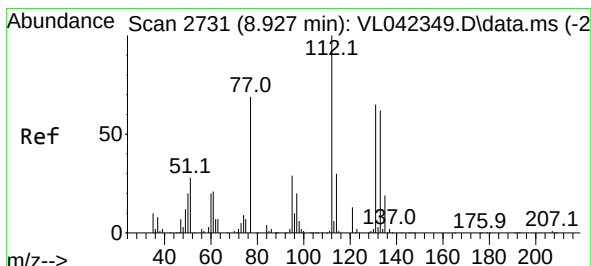
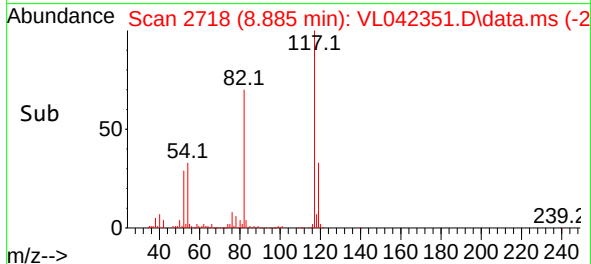
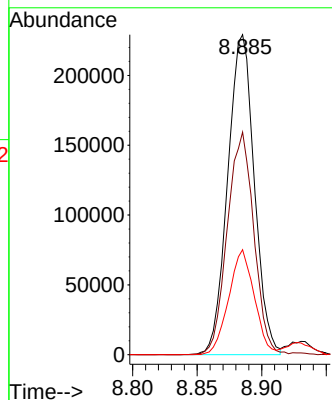
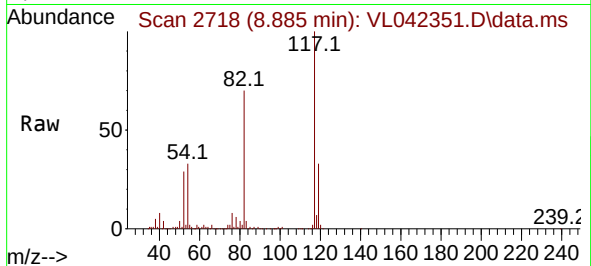




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2718
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

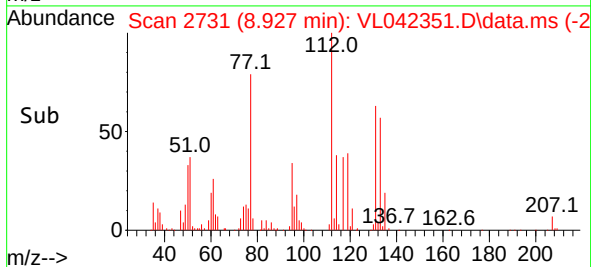
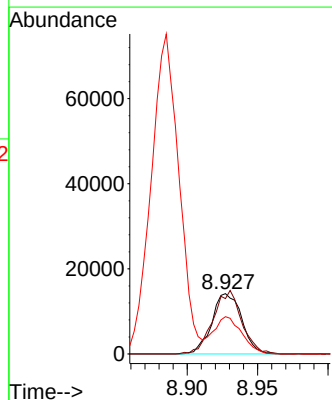
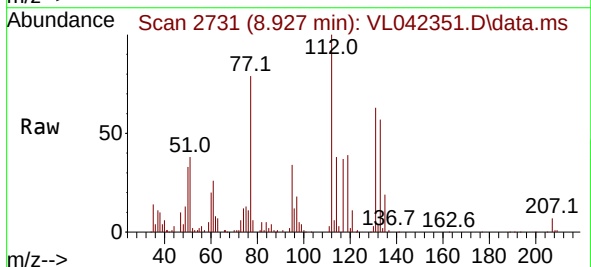
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

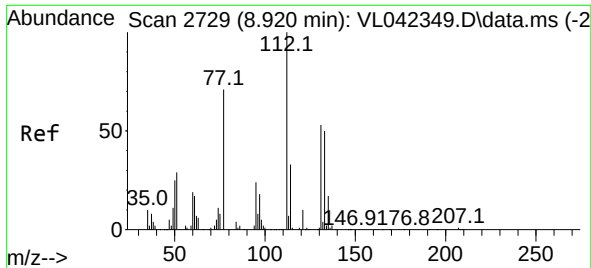
Tgt Ion:117 Resp: 329090
Ion Ratio Lower Upper
117 100
82 69.7 57.8 86.6
119 31.8 25.2 37.8



#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

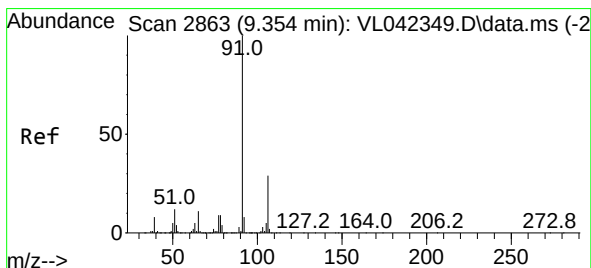
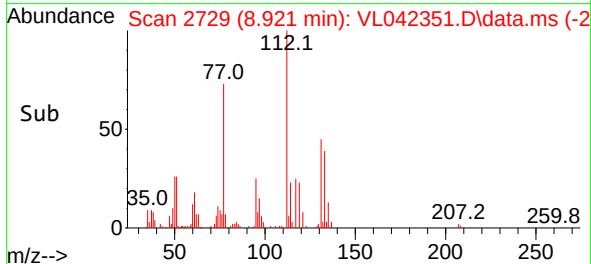
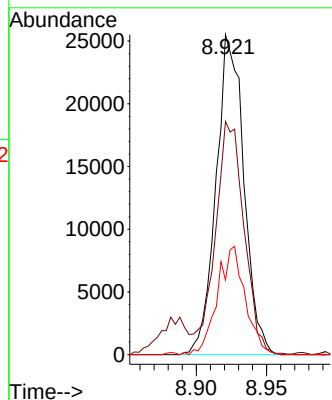
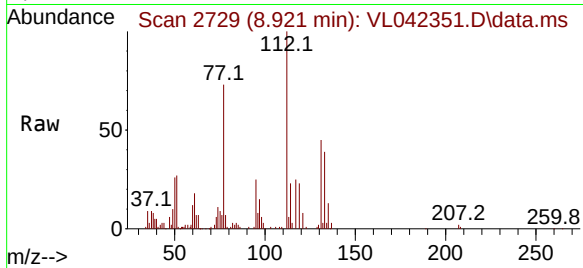




#57
Chlorobenzene
Concen: 1.026 ppbv
RT: 8.921 min Scan# 211
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

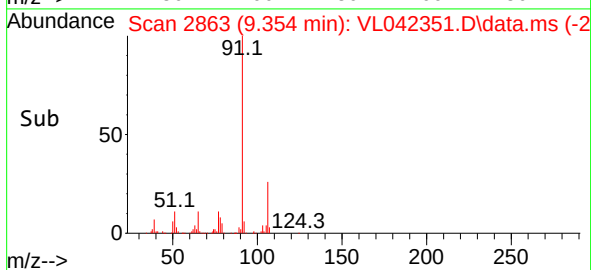
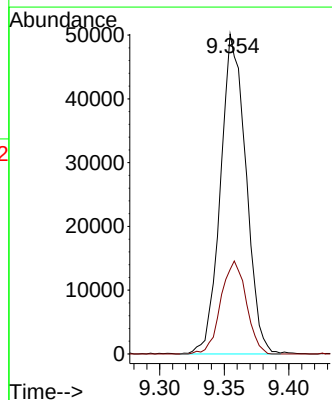
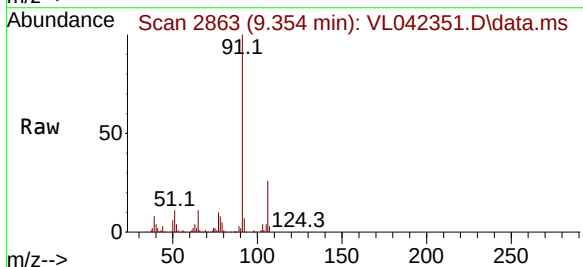
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC001

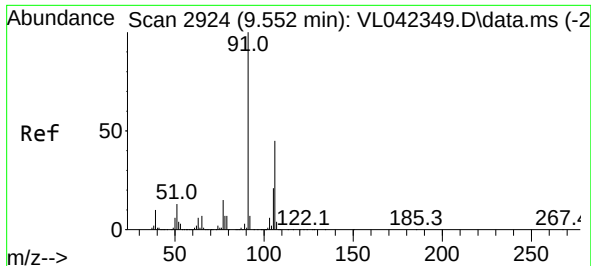
Tgt Ion:112 Resp: 35113
Ion Ratio Lower Upper
112 100
77 72.4 57.8 86.6
114 23.3 29.3 35.9#



#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

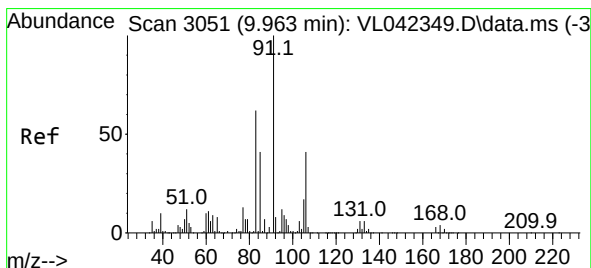
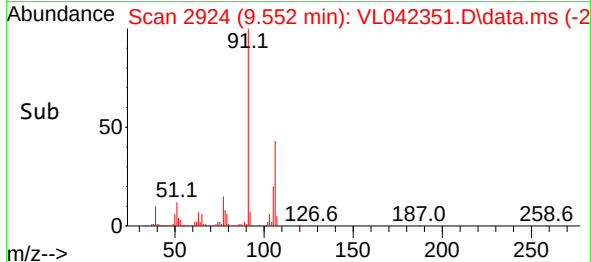
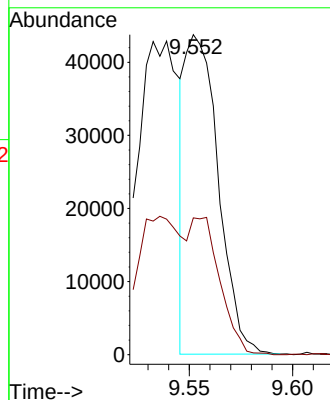
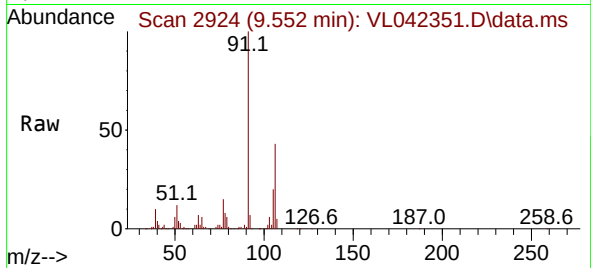




#59
m/p-Xylene
Concen: 0.926 ppbv
RT: 9.552 min Scan# 2924
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

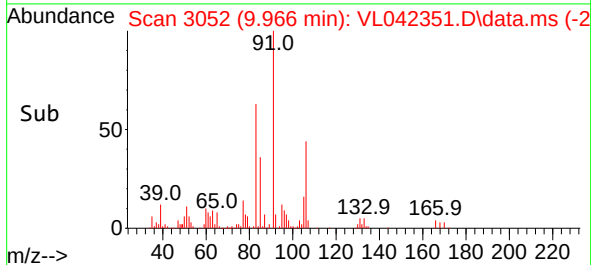
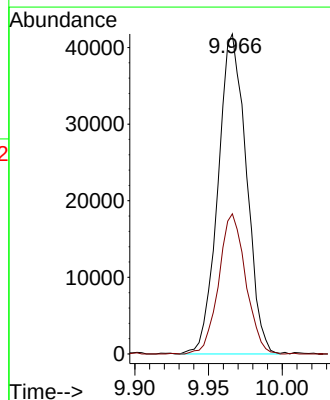
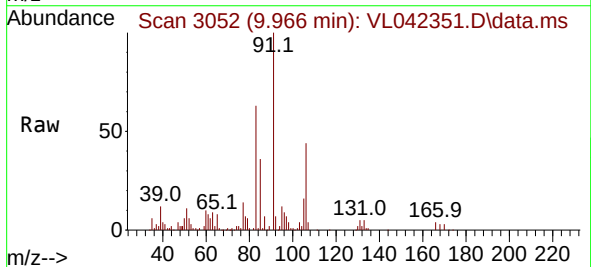
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

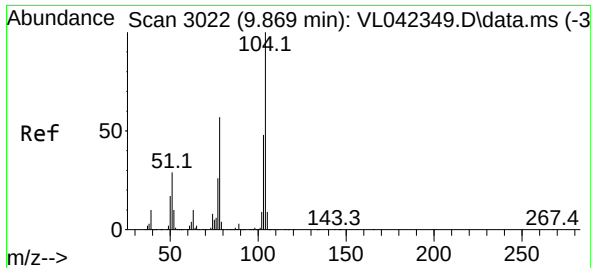
Tgt Ion: 91 Resp: 48794
Ion Ratio Lower Upper
91 100
106 0.0 35.4 53.2#



#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

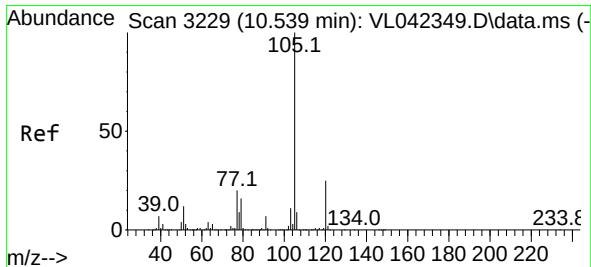
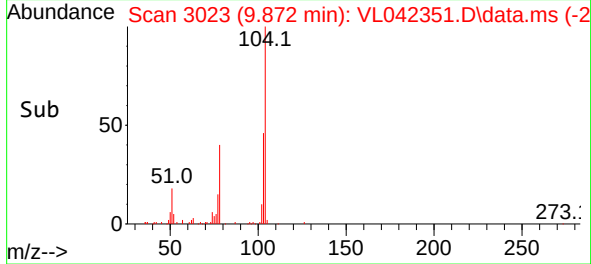
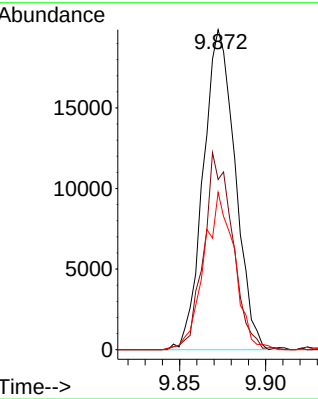
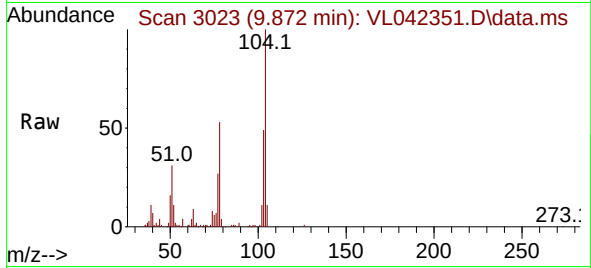
Tgt Ion:104 Resp: 25544

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

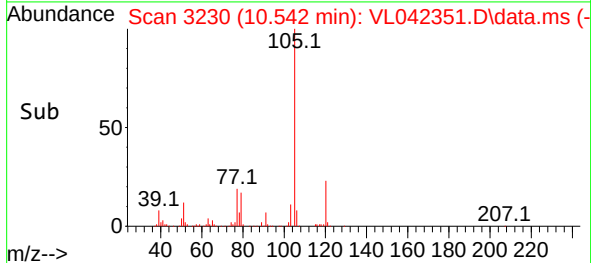
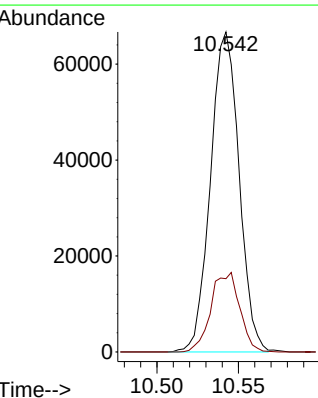
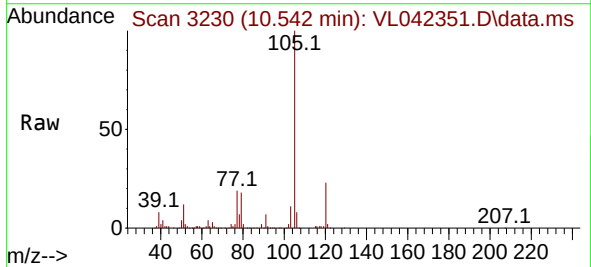
Acq: 17 Apr 2025 10:48

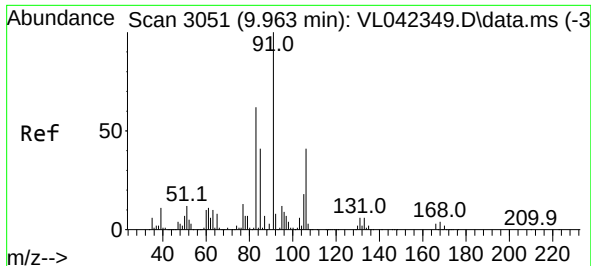
Tgt Ion:105 Resp: 81286

Ion Ratio Lower Upper

105 100

120 25.0 19.8 29.8

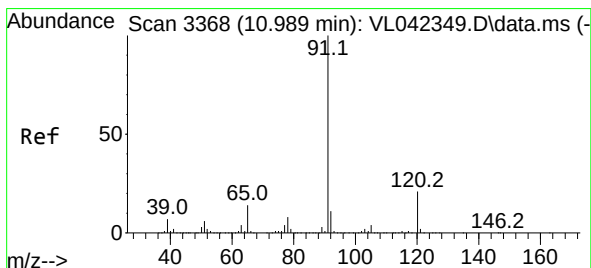
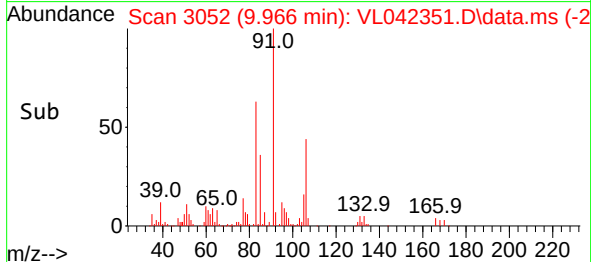
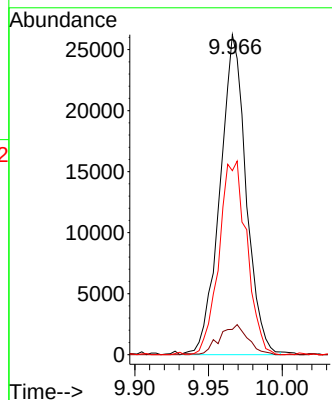
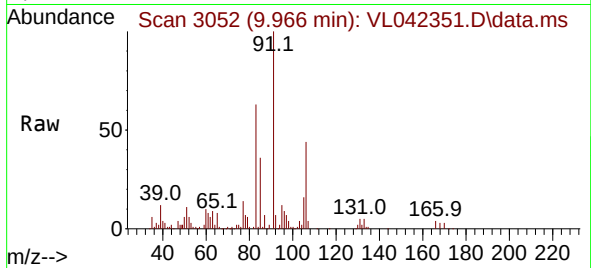




#63
1,1,2,2-Tetrachloroethane
Concen: 0.943 ppbv
RT: 9.966 min Scan# 3051
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

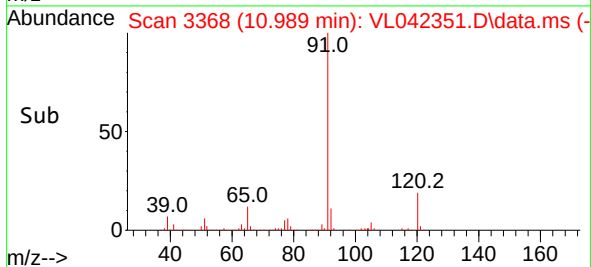
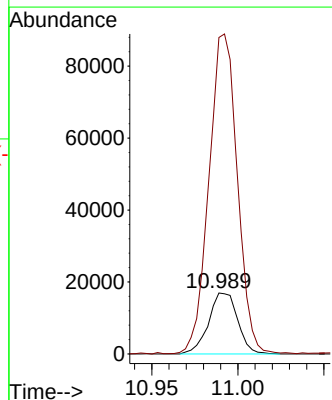
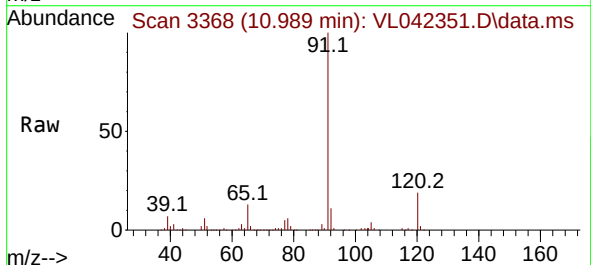
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

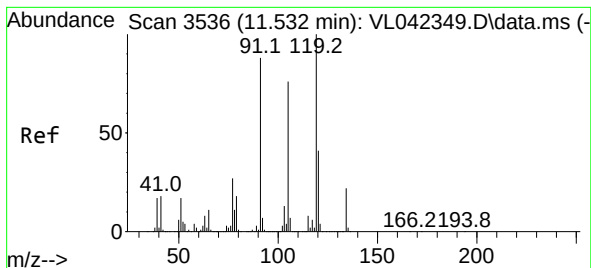
Tgt Ion: 83 Resp: 32410
Ion Ratio Lower Upper
83 100
131 10.2 4.5 13.7
85 64.4 32.4 97.0



#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

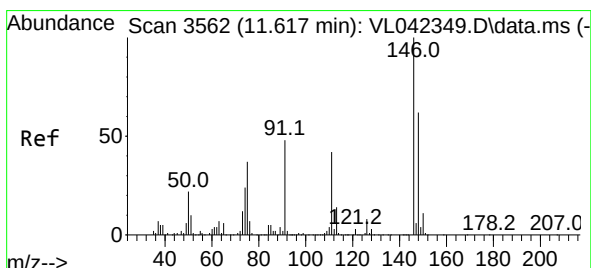
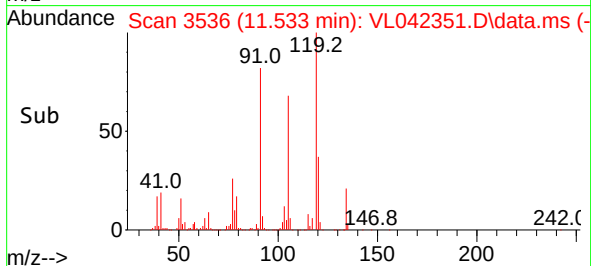
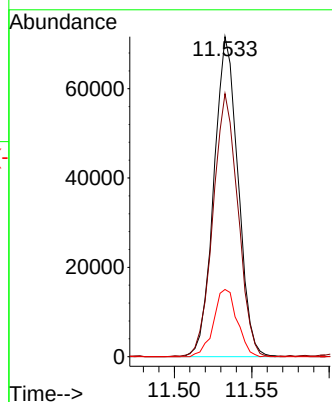
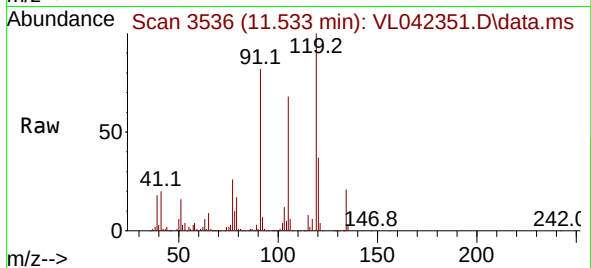




#65
tert-Butylbenzene
Concen: 1.087 ppbv
RT: 11.533 min Scan# 3536
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

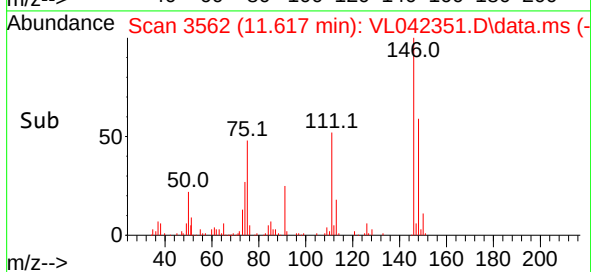
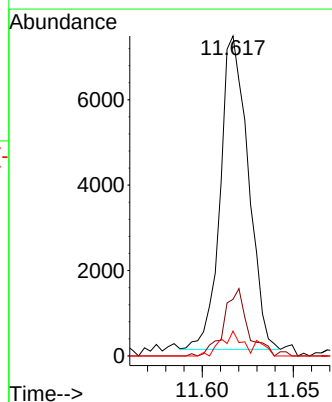
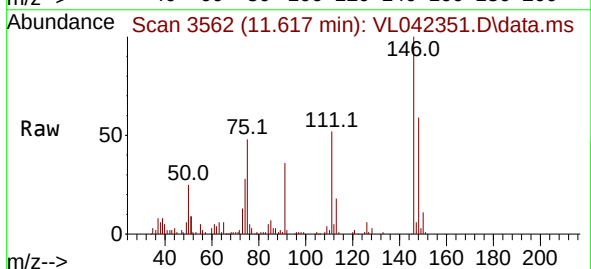
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

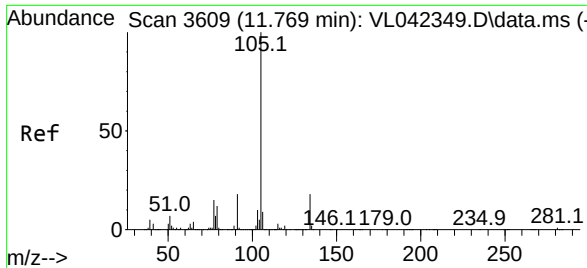
Tgt Ion:	119	Resp:	77598
Ion	Ratio	Lower	Upper
119	100		
91	85.0	74.6	111.8
134	20.5	18.8	28.2



#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#

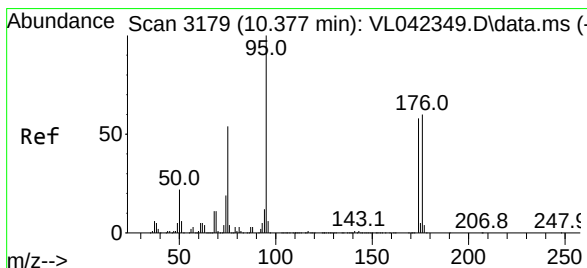
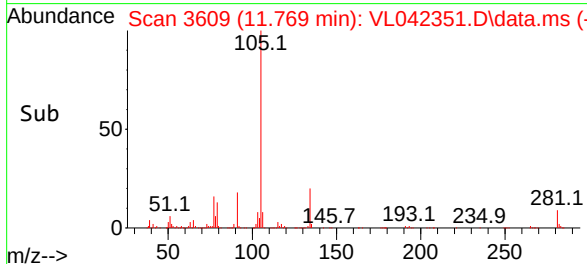
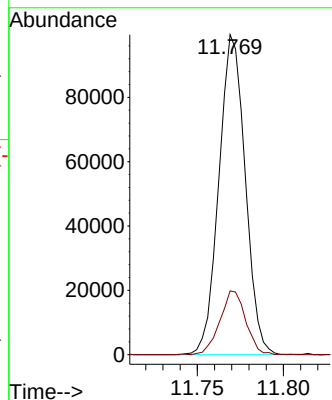
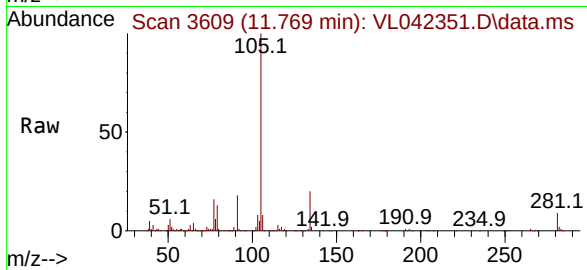




#67
sec-Butylbenzene
Concen: 1.067 ppbv
RT: 11.769 min Scan# 3609
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

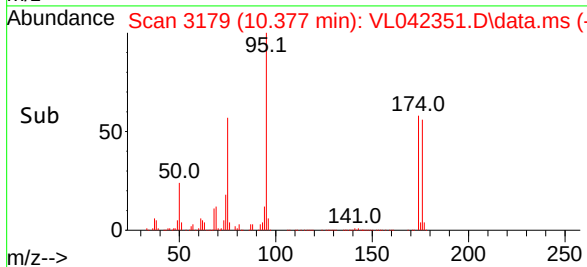
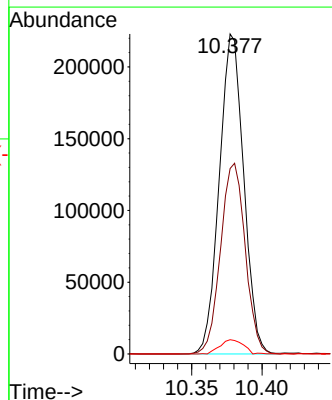
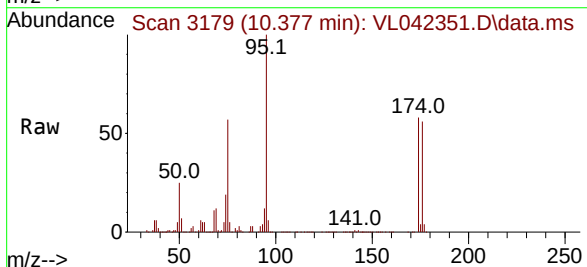
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC001

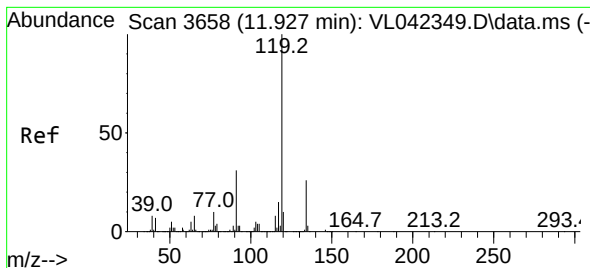
Tgt Ion:105 Resp: 105919
Ion Ratio Lower Upper
105 100
134 19.6 14.6 21.8



#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

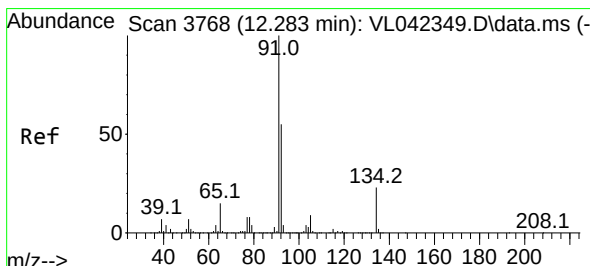
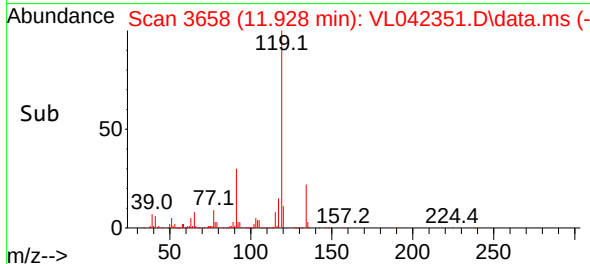
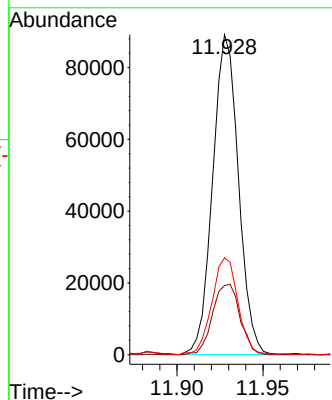
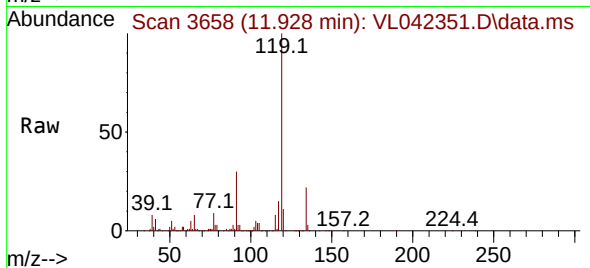




#69
 p-Isopropyltoluene
 Concen: 1.075 ppbv
 RT: 11.928 min Scan# 3658
 Delta R.T. 0.000 min
 Lab File: VL042351.D
 Acq: 17 Apr 2025 10:48

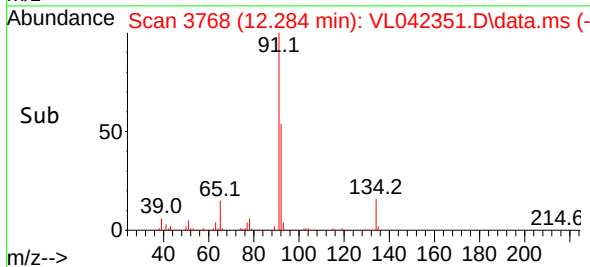
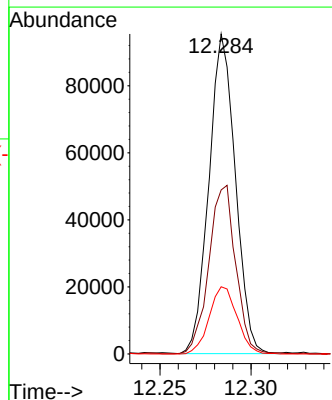
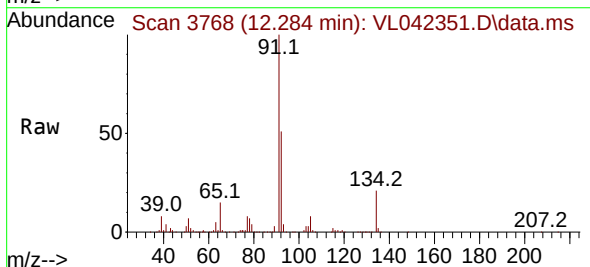
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001

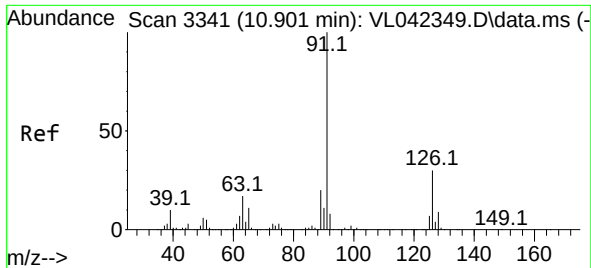
Tgt Ion:	119	Resp:	92733
Ion	Ratio	Lower	Upper
119	100		
134	23.5	20.0	30.0
91	32.1	24.4	36.6



#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

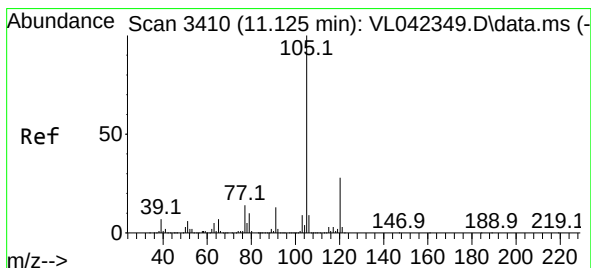
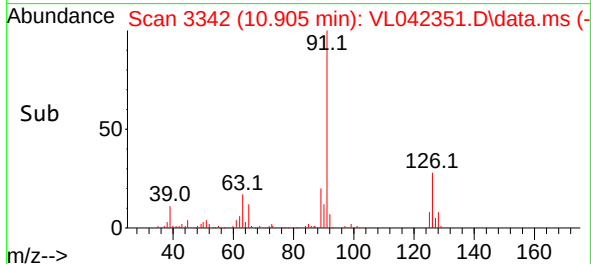
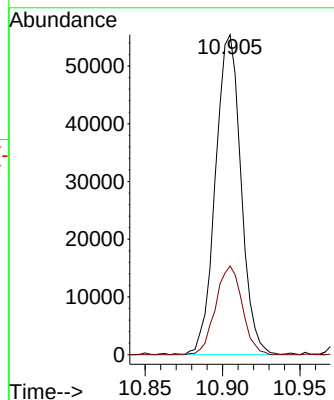
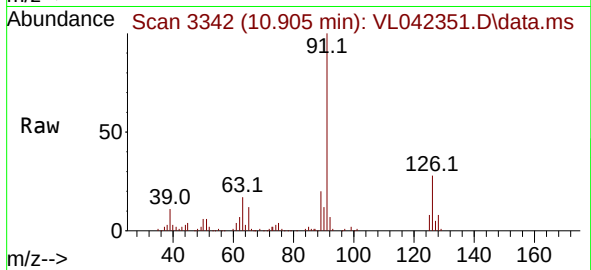




#71
2-Chlorotoluene
Concen: 1.040 ppbv
RT: 10.905 min Scan# 31
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

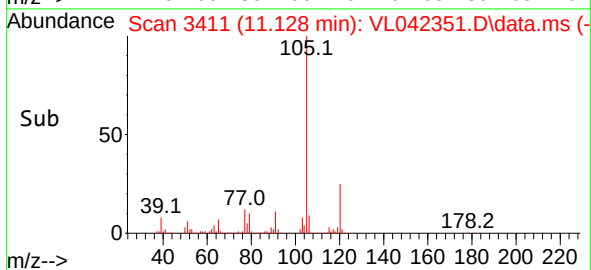
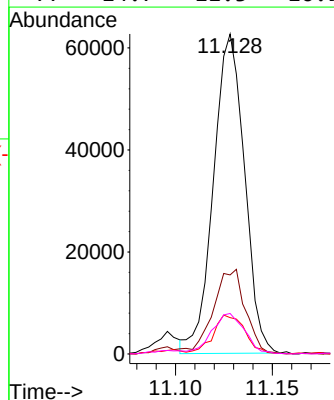
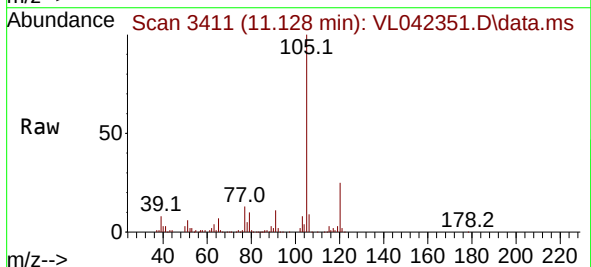
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

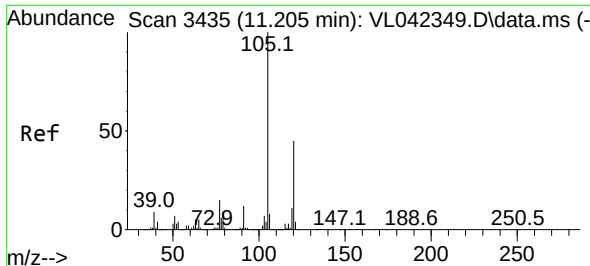
Tgt Ion: 91 Resp: 63321
Ion Ratio Lower Upper
91 100
126 28.9 11.4 45.4



#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

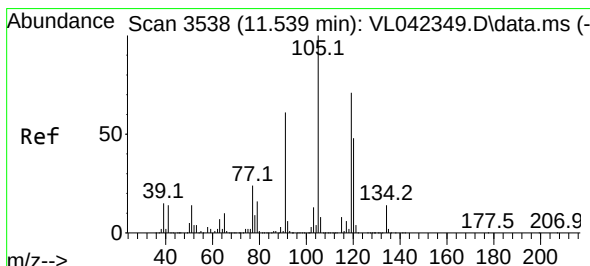
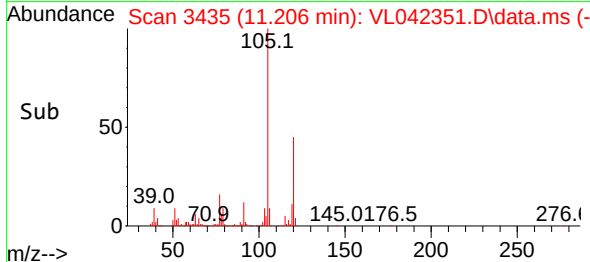
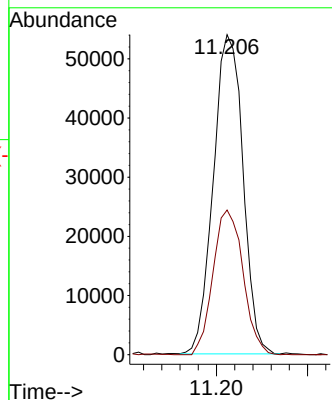
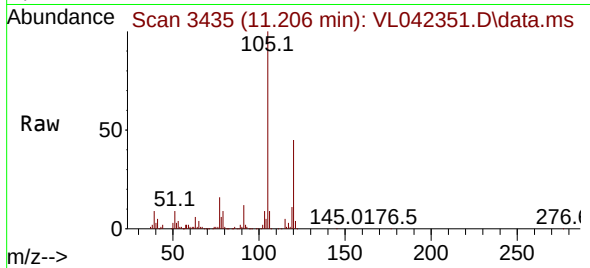




#73
1,3,5-Trimethylbenzene
Concen: 1.067 ppbv
RT: 11.206 min Scan# 3435
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

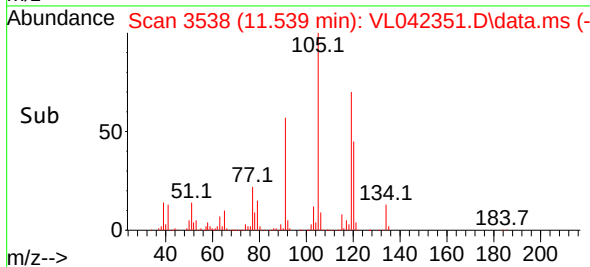
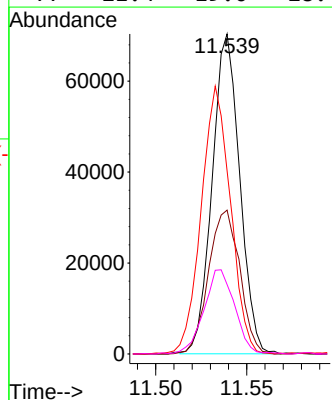
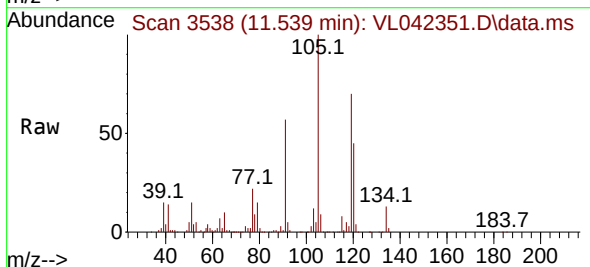
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

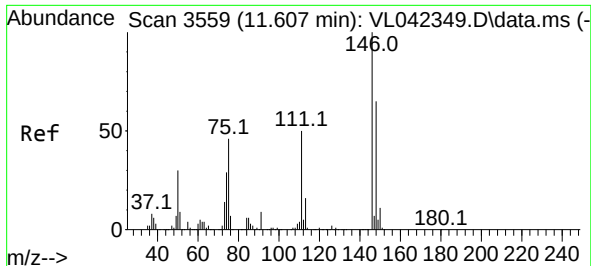
Tgt Ion:105 Resp: 60927
Ion Ratio Lower Upper
105 100
120 45.3 35.6 53.4



#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

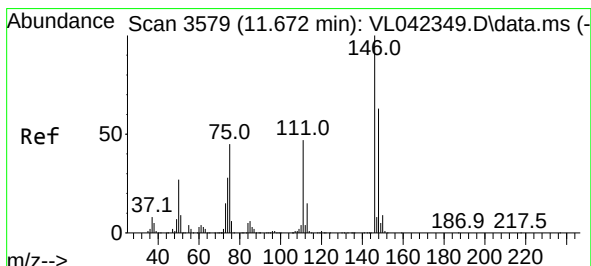
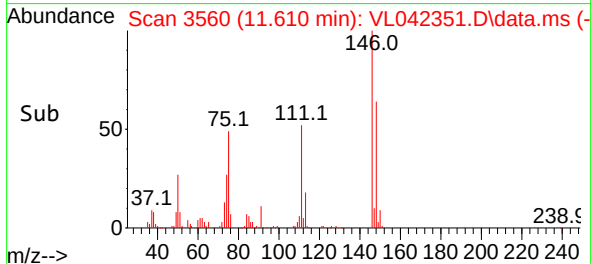
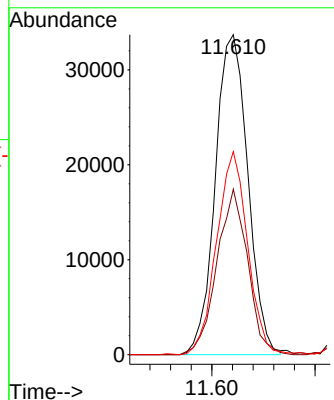
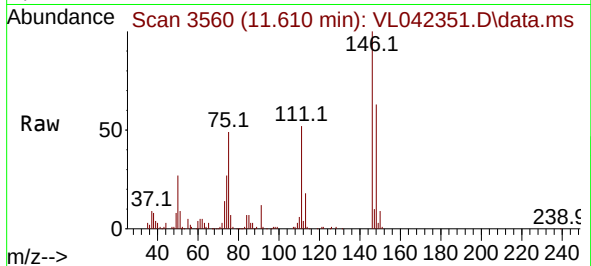




#75
1,3-Dichlorobenzene
Concen: 1.064 ppbv
RT: 11.610 min Scan# 3559
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

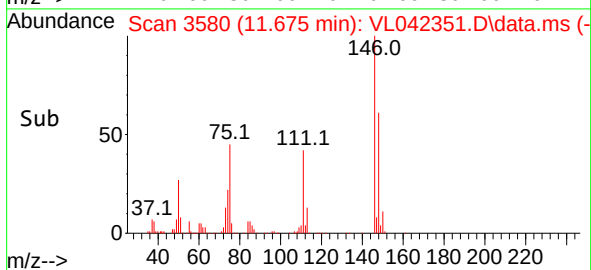
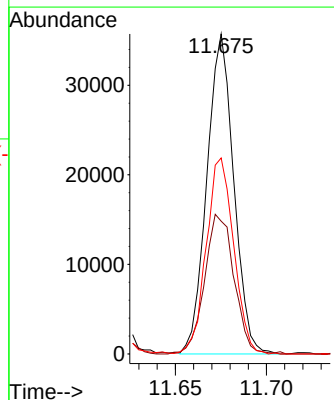
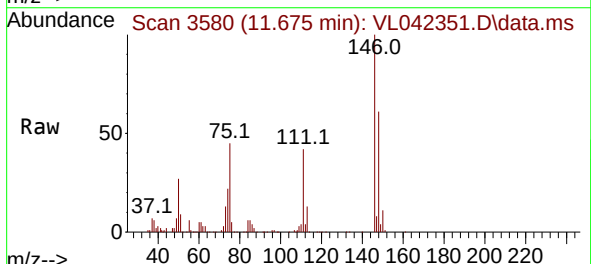
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

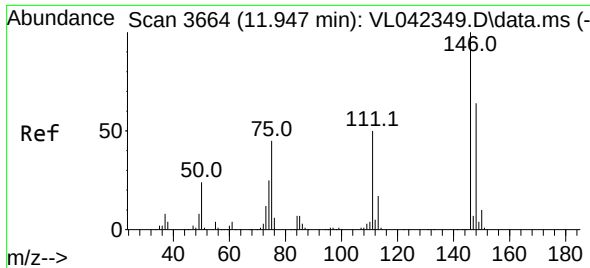
Tgt Ion:146 Resp: 36877
Ion Ratio Lower Upper
146 100
111 48.9 24.3 72.8
148 60.8 31.6 94.8



#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

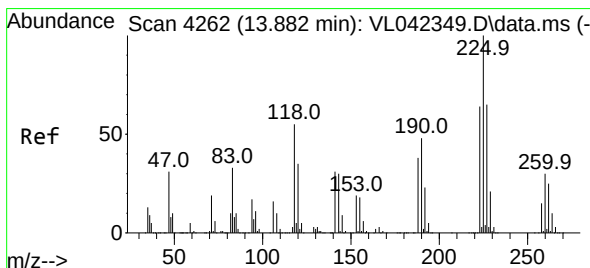
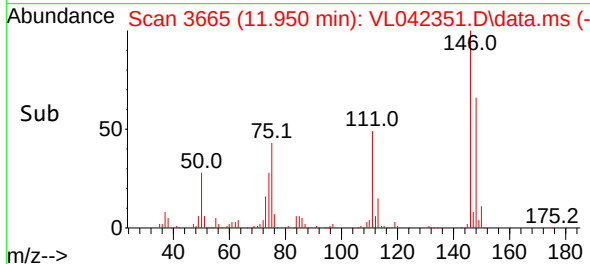
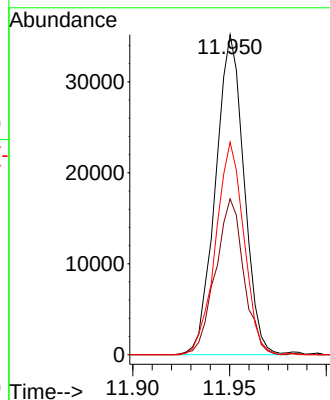
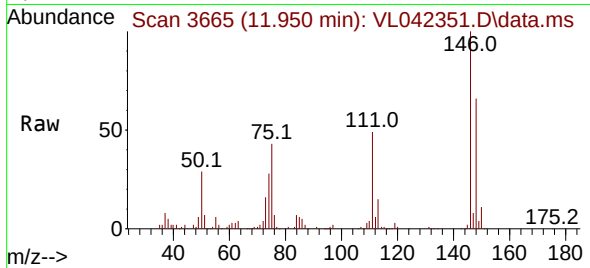




#77
1,2-Dichlorobenzene
Concen: 1.068 ppbv
RT: 11.950 min Scan# 30
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

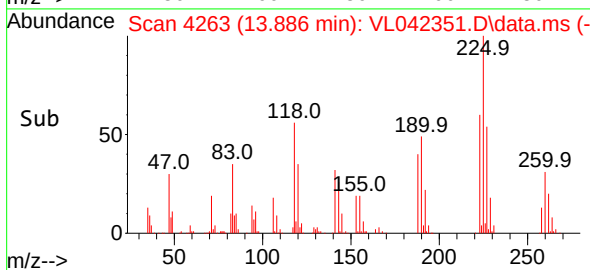
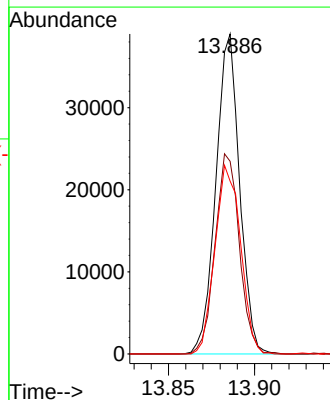
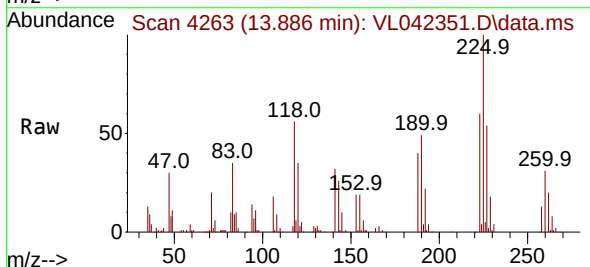
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

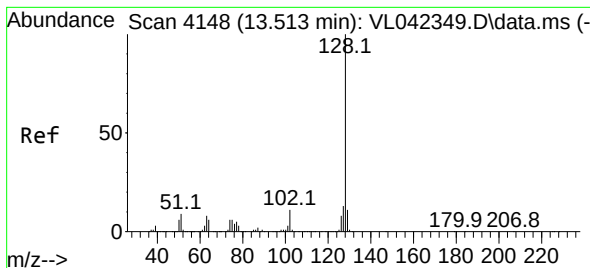
Tgt Ion:146 Resp: 35977
Ion Ratio Lower Upper
146 100
111 48.7 25.3 75.9
148 65.9 31.5 94.5



#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# 4149

Delta R.T. 0.004 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC001

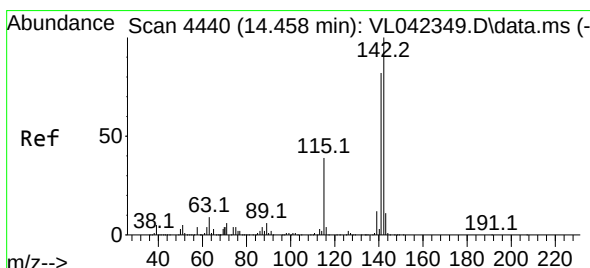
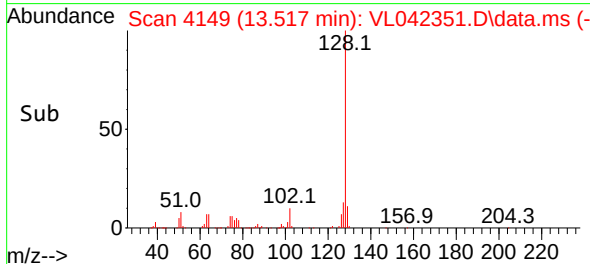
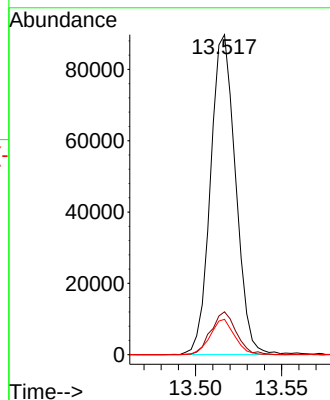
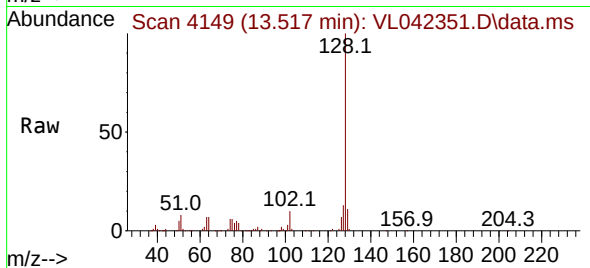
Tgt Ion:128 Resp: 90710

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

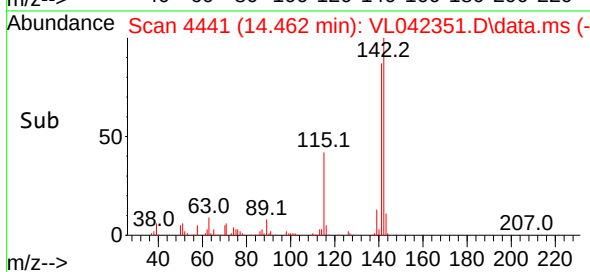
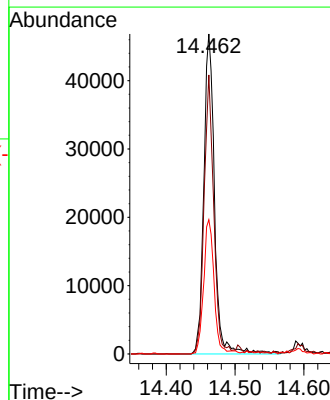
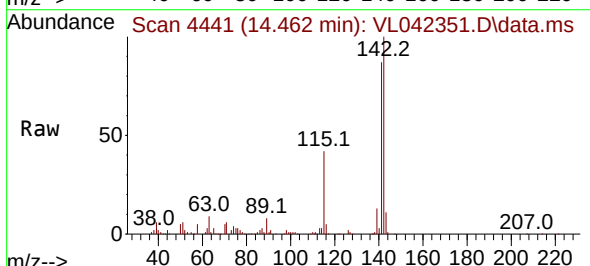
Tgt Ion:142 Resp: 50487

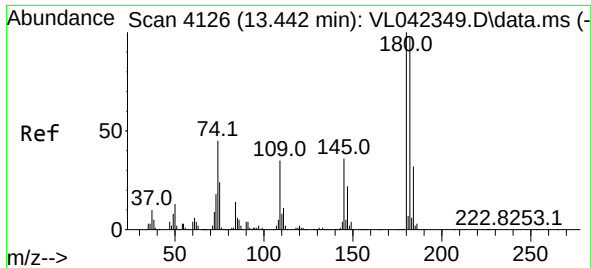
Ion Ratio Lower Upper

142 100

141 80.9 66.8 100.2

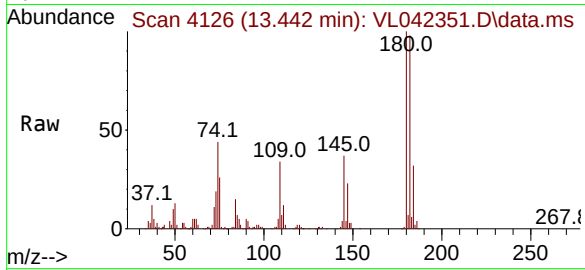
115 41.2 33.4 50.2



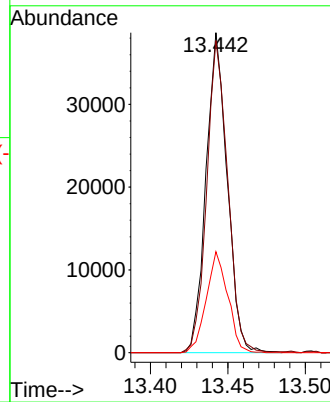
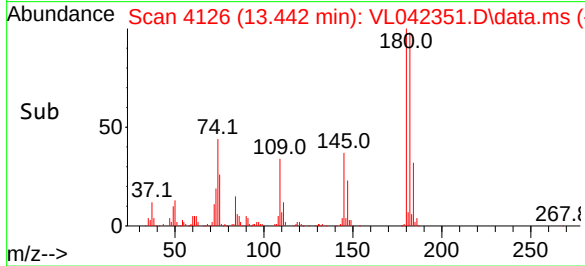


#81
 1,2,4-Trichlorobenzene
 Concen: 1.074 ppbv
 RT: 13.442 min Scan# 41
 Delta R.T. 0.000 min
 Lab File: VL042351.D
 Acq: 17 Apr 2025 10:48

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 : VSTDIC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

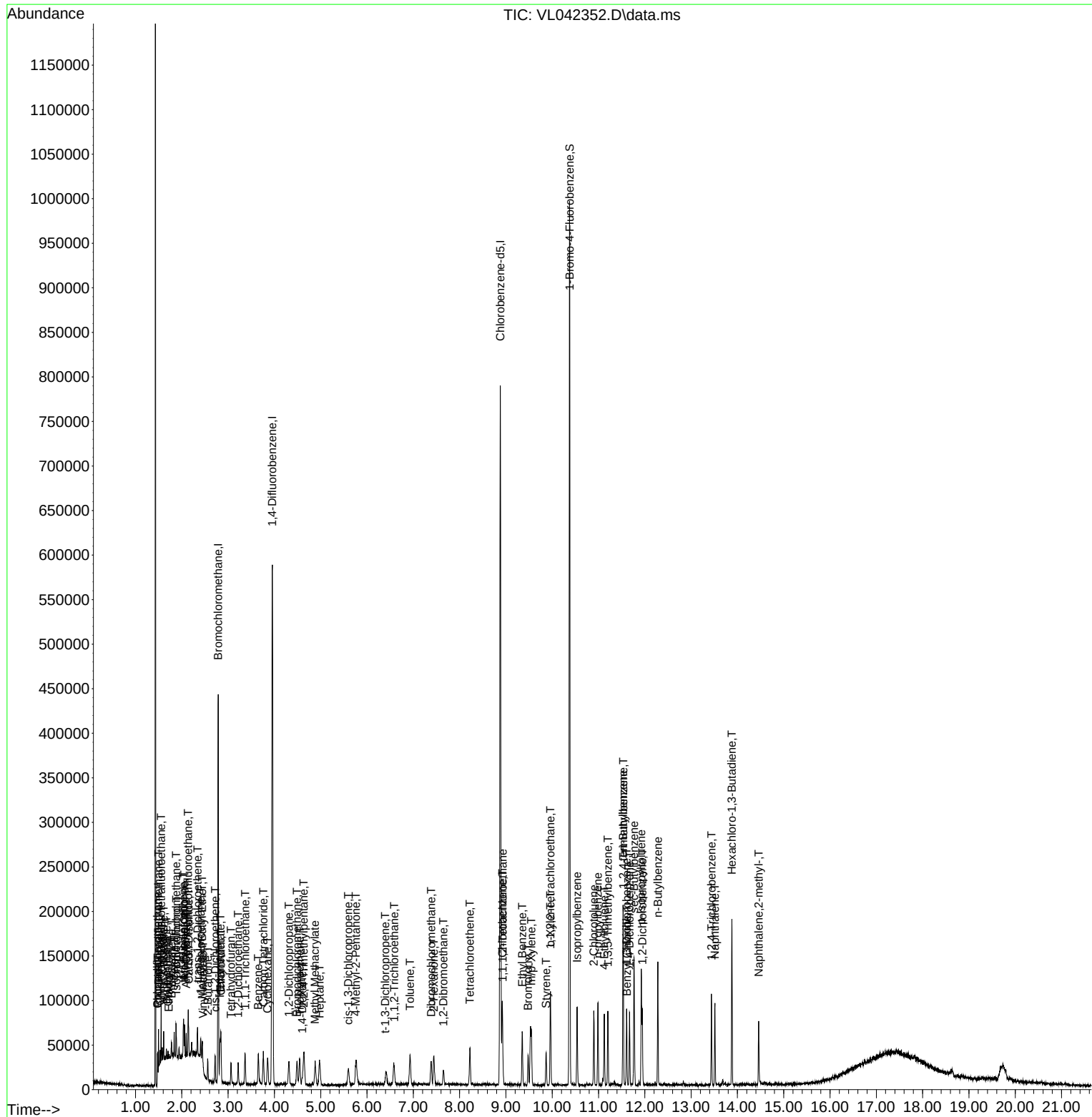
Quant Time: Apr 18 01:28:45 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 01:24:29 2025
 Response via : Initial Calibration

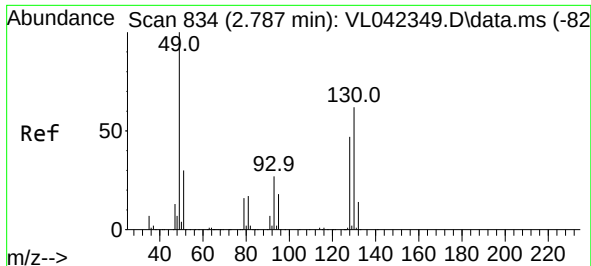
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.596	75	7634	0.356	ppbv #	91
47) 1,1,2-Trichloroethane	6.590	97	2374	0.164	ppbv	94
48) Dibromochloromethane	7.386	129	13122	0.514	ppbv	97
49) Bromoform	9.477	173	10988	0.492	ppbv	99
50) 4-Methyl-2-Pentanone	5.761	43	14380	0.309	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

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_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration

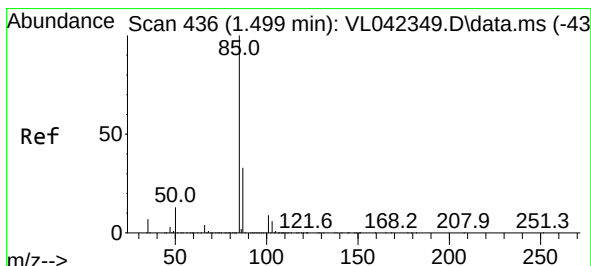
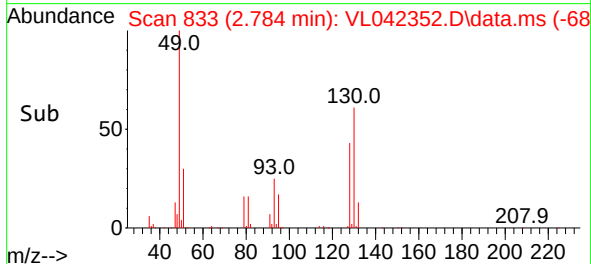
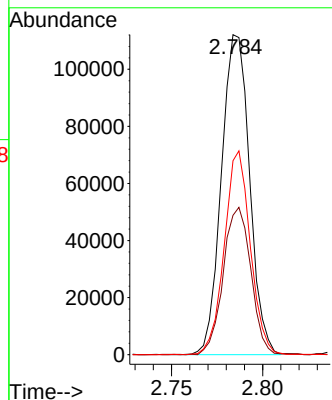
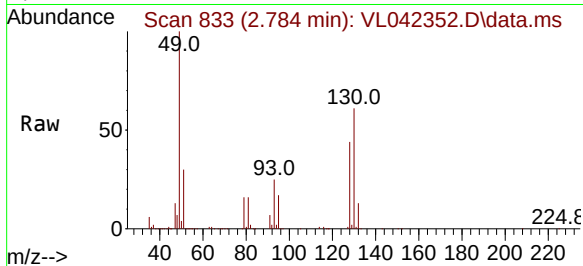




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

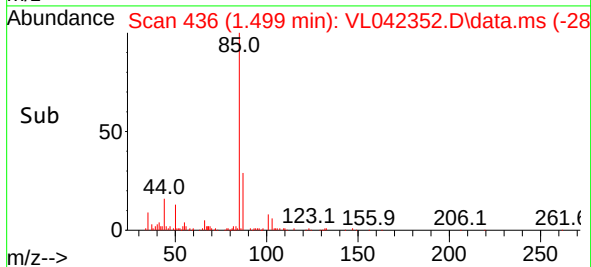
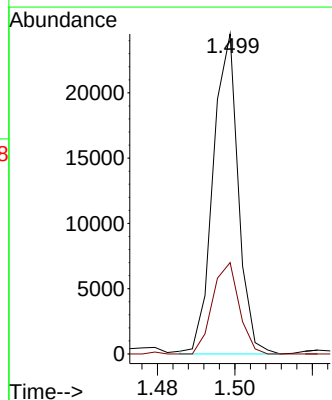
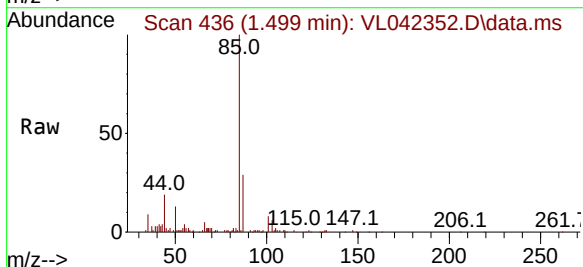
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

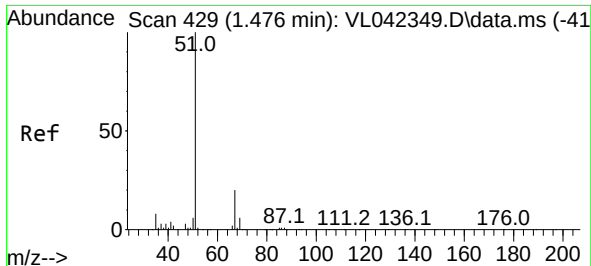
Tgt Ion: 49 Resp: 120542
Ion Ratio Lower Upper
49 100
128 45.3 22.8 68.4
130 59.0 29.3 88.0



#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

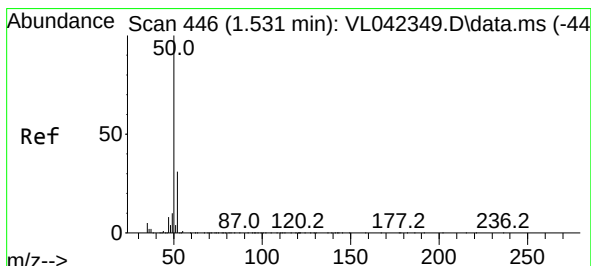
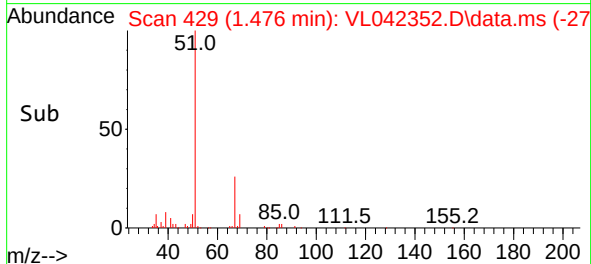
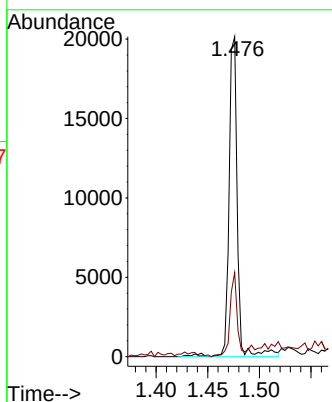
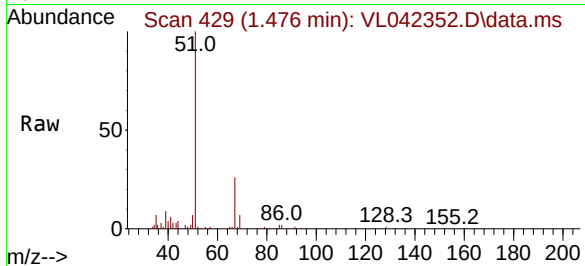




#3
Chlorodifluoromethane
Concen: 0.557 ppbv
RT: 1.476 min Scan# 429
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

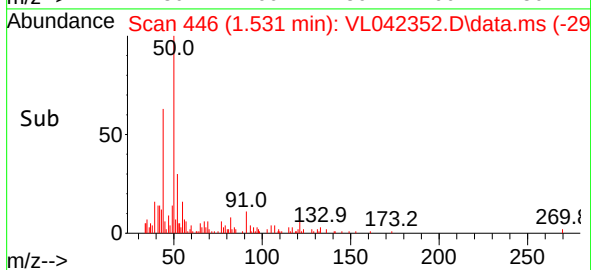
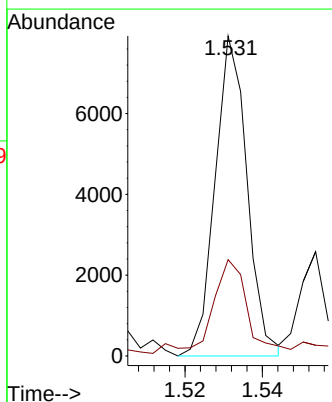
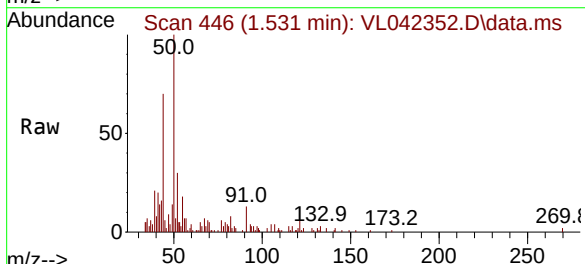
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

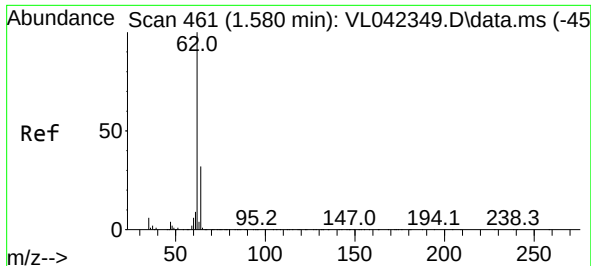
Tgt Ion: 51 Resp: 11304
Ion Ratio Lower Upper
51 100
67 27.8 16.2 24.4#



#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

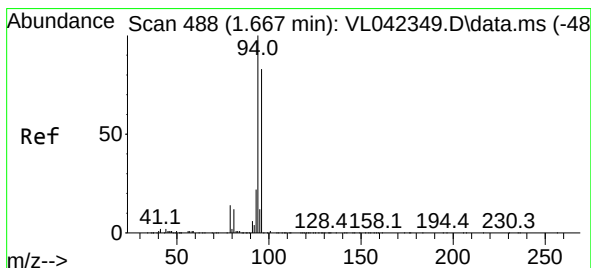
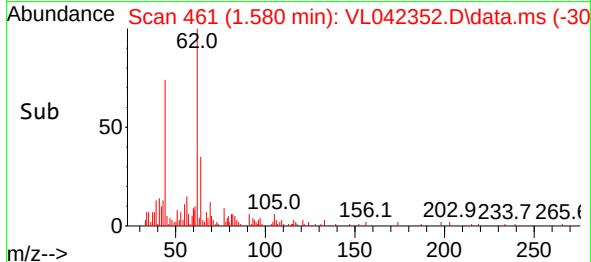
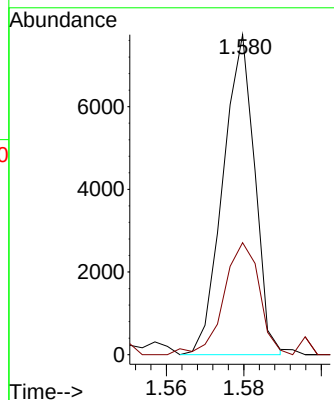
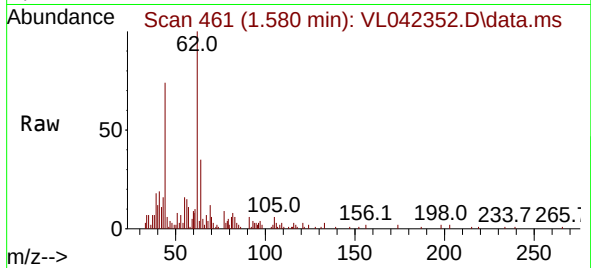




#5
 Vinyl Chloride
 Concen: 0.480 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. -0.000 min
 Lab File: VL042352.D
 Acq: 17 Apr 2025 11:19

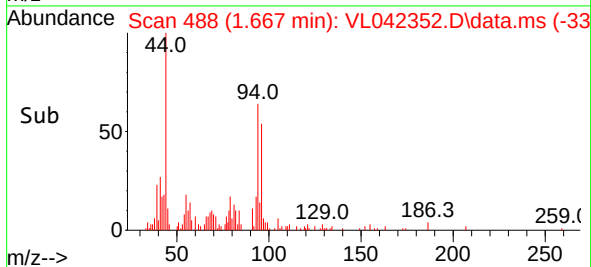
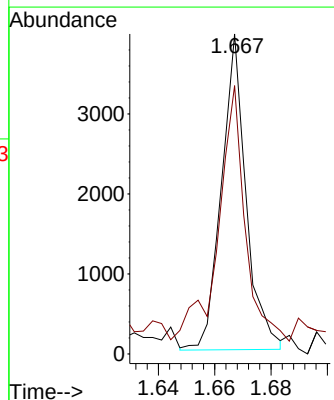
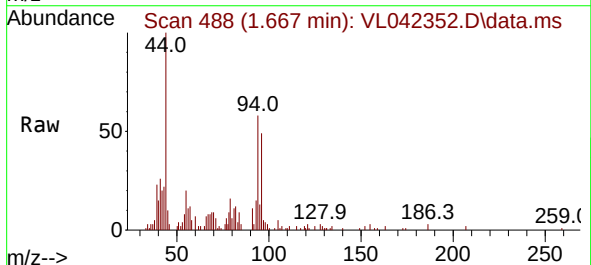
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.5

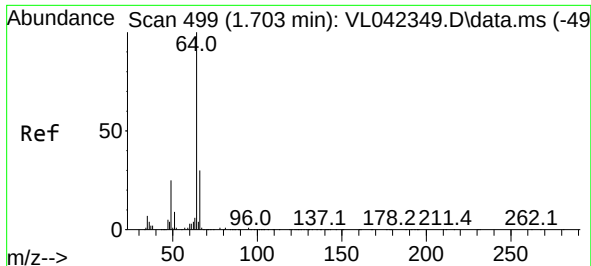
Tgt Ion: 62 Resp: 4406
 Ion Ratio Lower Upper
 62 100
 64 33.5 25.4 38.0



#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

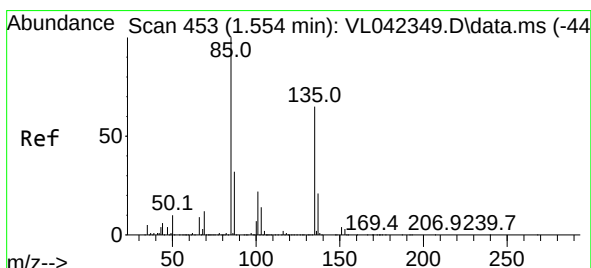
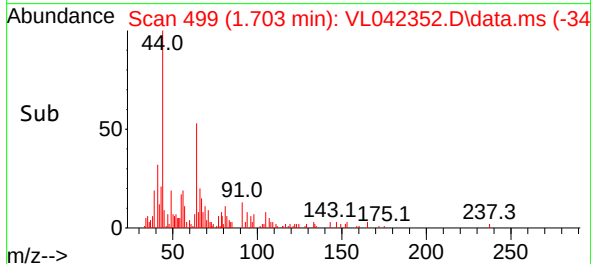
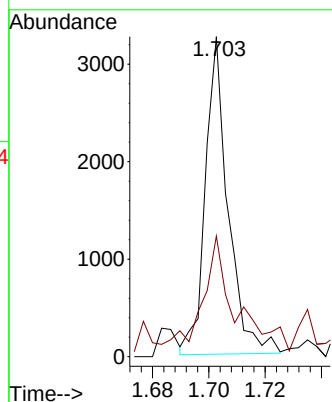
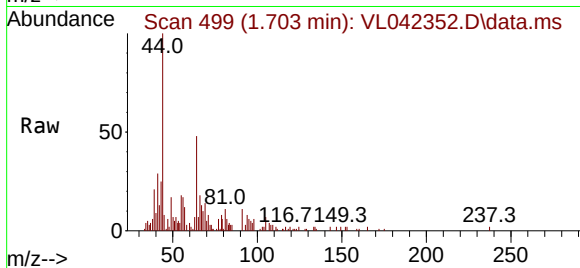




#7
Chloroethane
Concen: 0.550 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

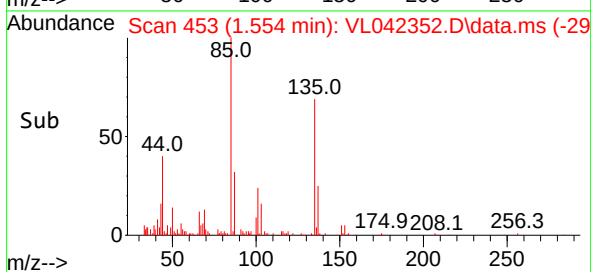
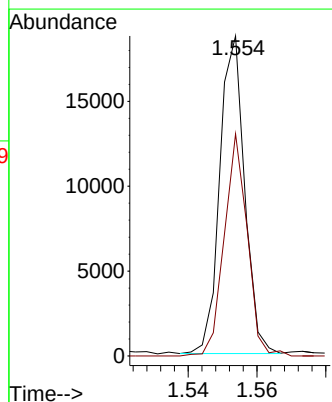
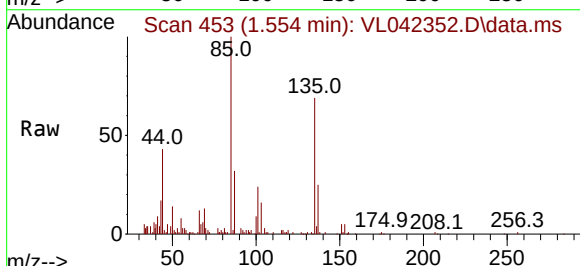
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

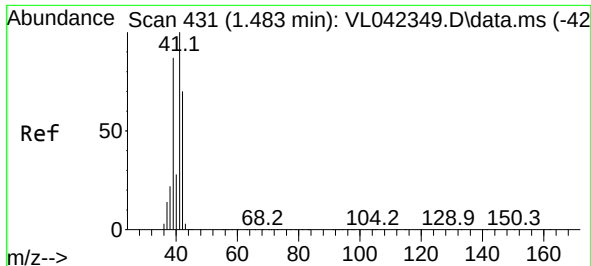
Tgt Ion: 64 Resp: 1824
Ion Ratio Lower Upper
64 100
66 37.7 24.6 37.0#



#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 :

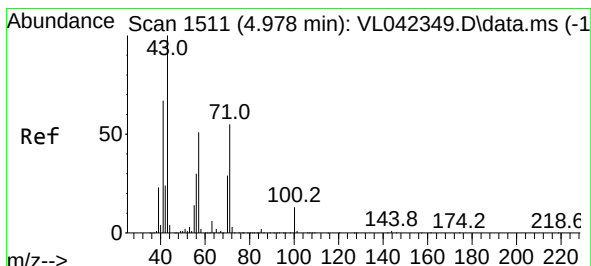
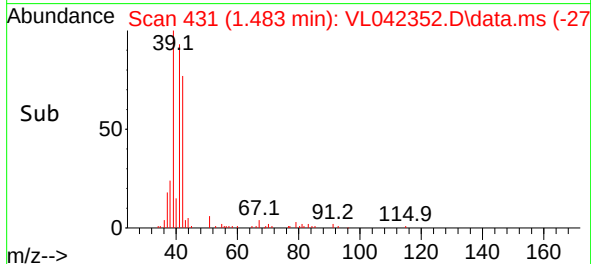
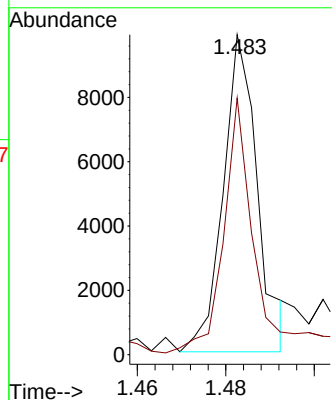
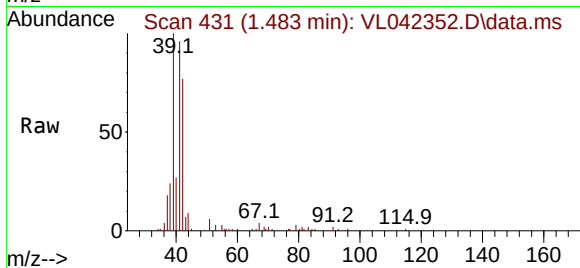
VSTDIC0.5

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

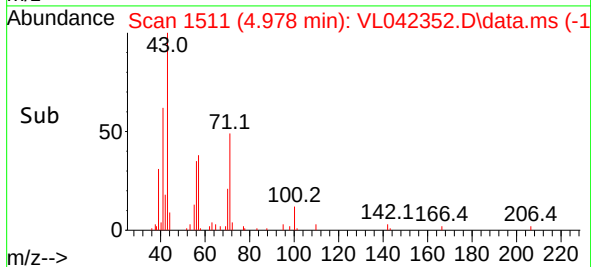
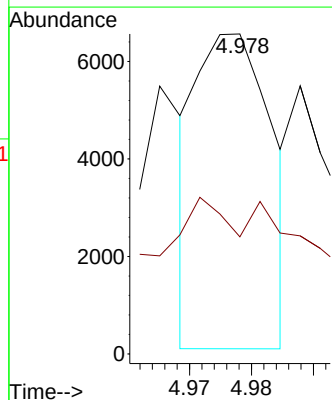
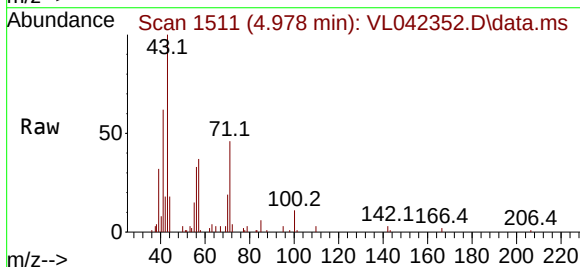
Acq: 17 Apr 2025 11:19

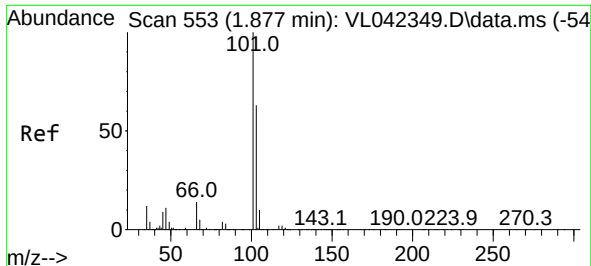
Tgt Ion: 43 Resp: 5438

Ion Ratio Lower Upper

43 100

57 138.4 39.9 59.9#

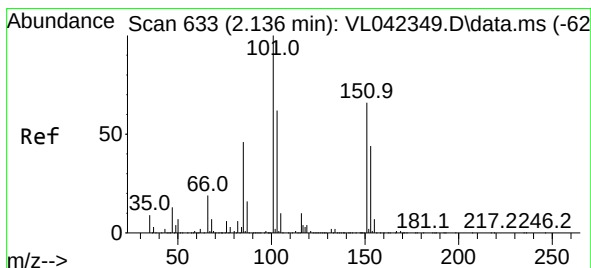
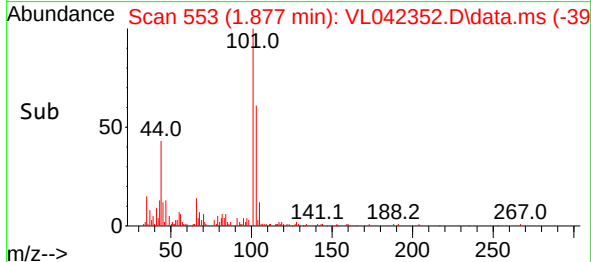
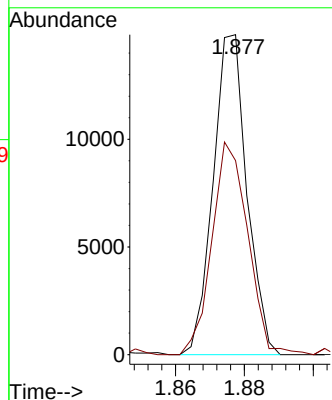
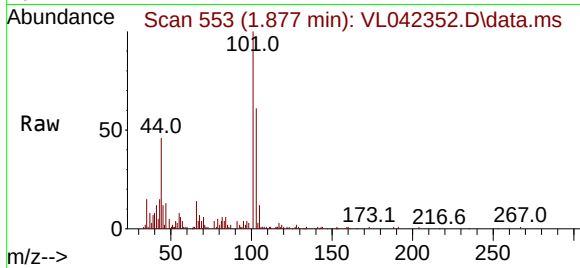




#11
 Trichlorofluoromethane
 Concen: 0.501 ppbv
 RT: 1.877 min Scan# 511
 Delta R.T. -0.000 min
 Lab File: VL042352.D
 Acq: 17 Apr 2025 11:19

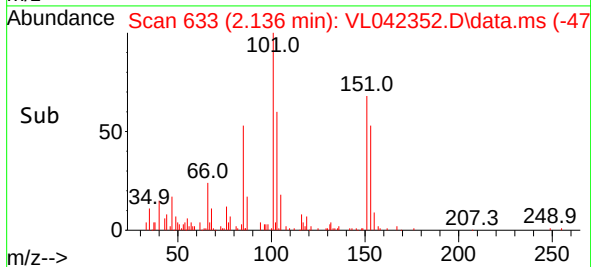
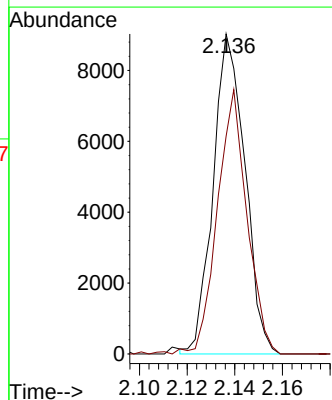
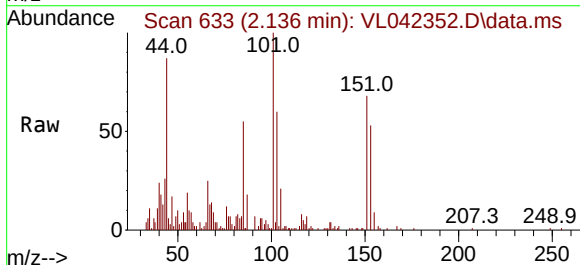
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

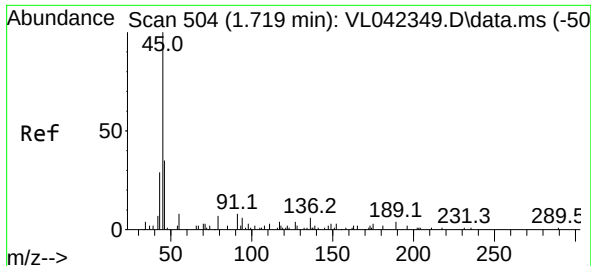
Tgt Ion:101 Resp: 10150
 Ion Ratio Lower Upper
 101 100
 103 60.6 50.1 75.1



#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

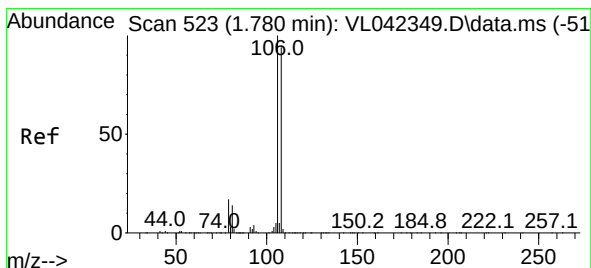
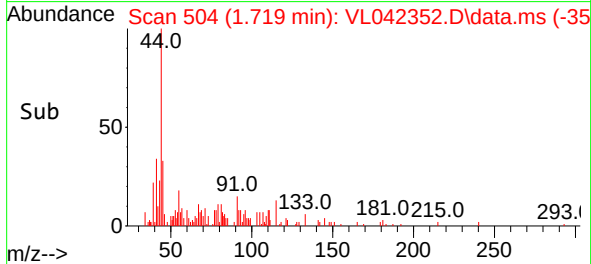
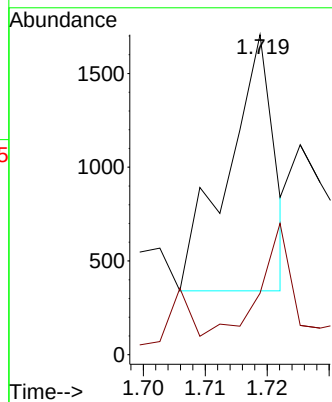
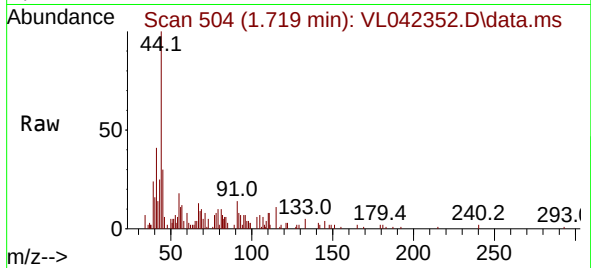




#13
Ethanol
Concen: 0.947 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

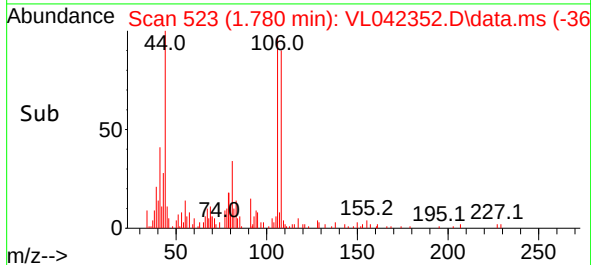
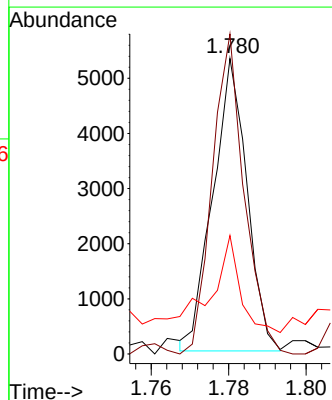
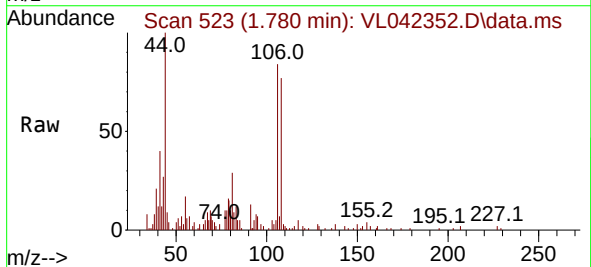
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC0.5

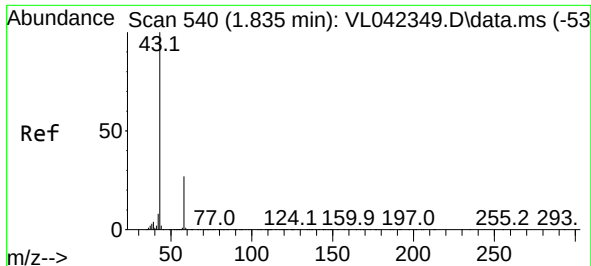
Tgt Ion: 45 Resp: 715
Ion Ratio Lower Upper
45 100
46 0.0 21.9 87.7#



#14
Bromoethene
Concen: 0.519 ppbv
RT: 1.780 min Scan# 523
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 108 Resp: 3238
Ion Ratio Lower Upper
108 100
106 110.3 85.9 128.9
79 33.0 13.9 20.9#

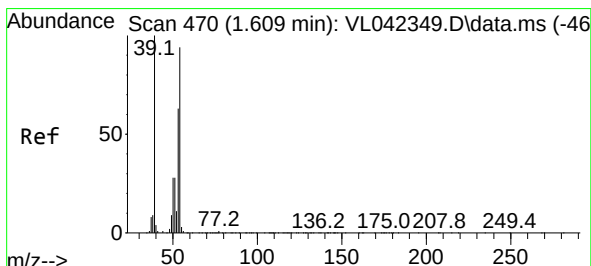
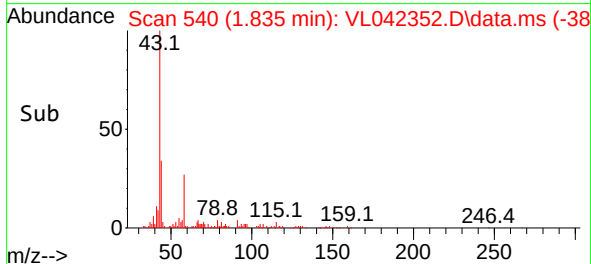
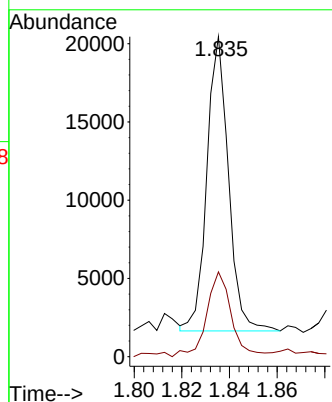
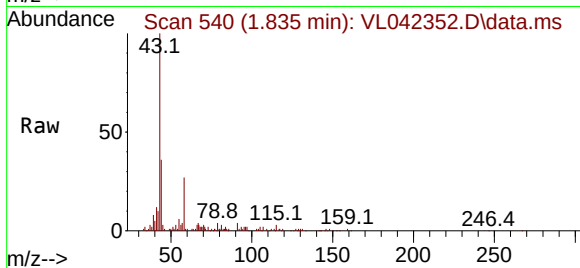




#15
Acetone
Concen: 0.601 ppbv
RT: 1.835 min Scan# 54
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

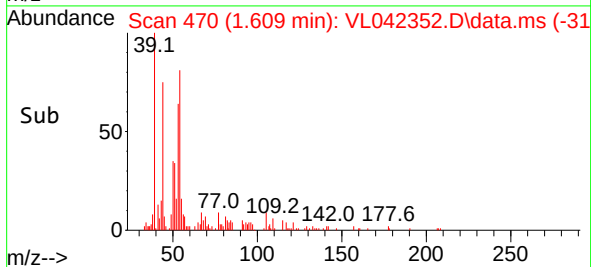
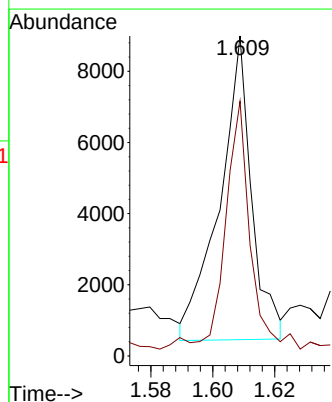
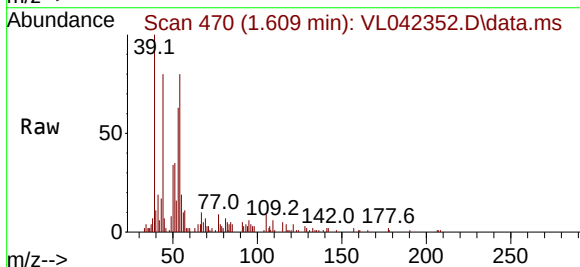
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

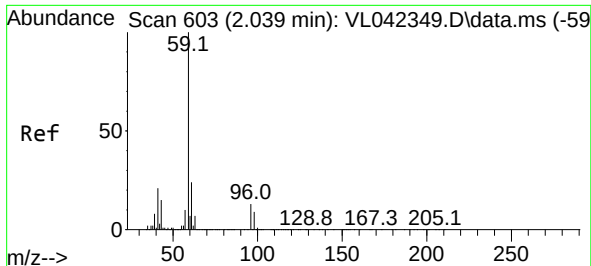
Tgt Ion: 43 Resp: 11859
Ion Ratio Lower Upper
43 100
58 41.7 22.4 33.6#



#16
1,3-Butadiene
Concen: 0.660 ppbv
RT: 1.609 min Scan# 470
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 39 Resp: 6120
Ion Ratio Lower Upper
39 100
54 64.7 64.9 97.3#

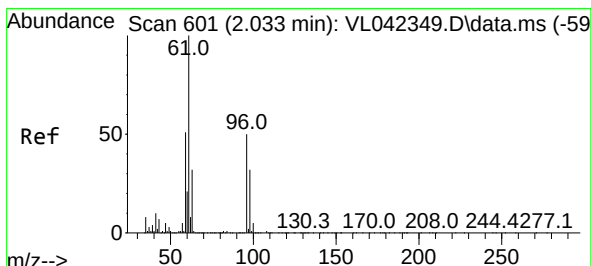
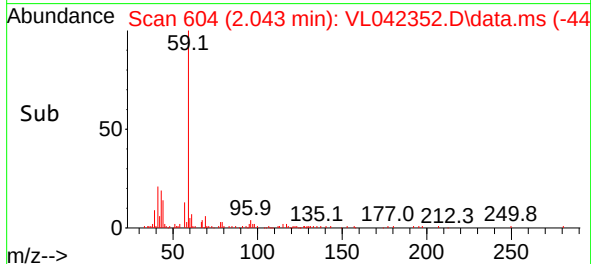
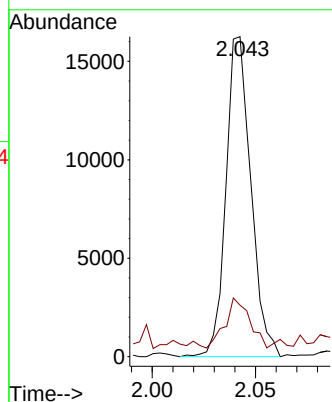
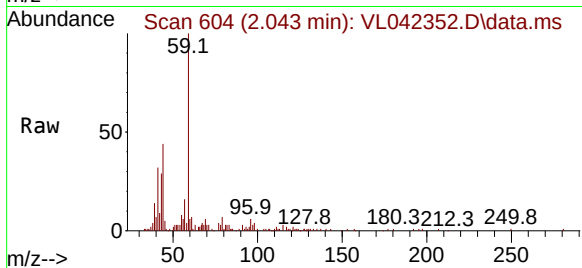




#17
tert-Butyl alcohol
Concen: 0.558 ppbv
RT: 2.043 min Scan# 604
Delta R.T. 0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

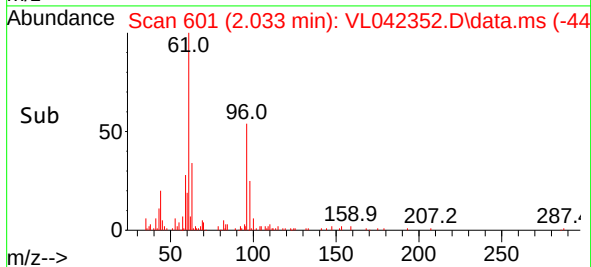
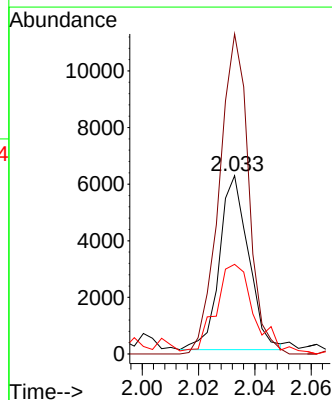
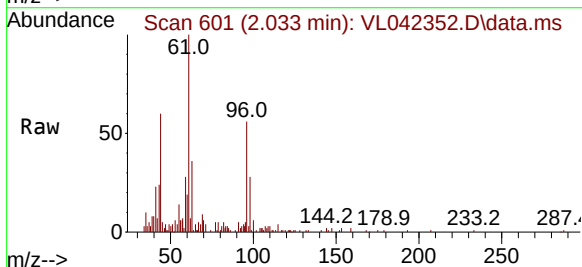
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

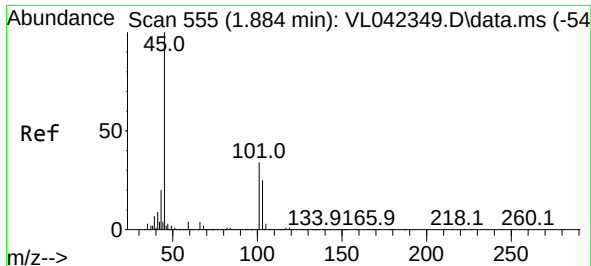
Tgt Ion: 59 Resp: 13640
Ion Ratio Lower Upper
59 100
57 16.5 8.7 13.1#



#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#

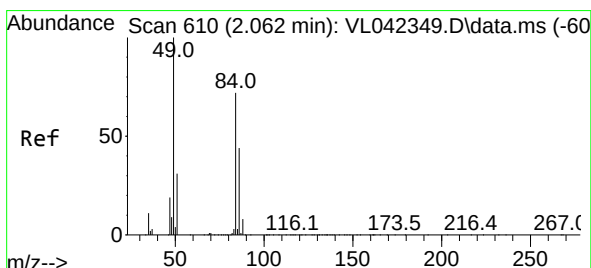
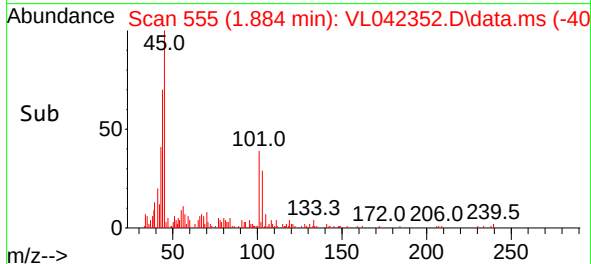
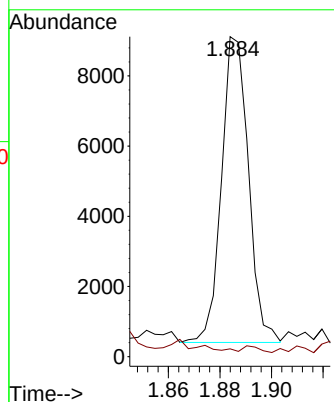
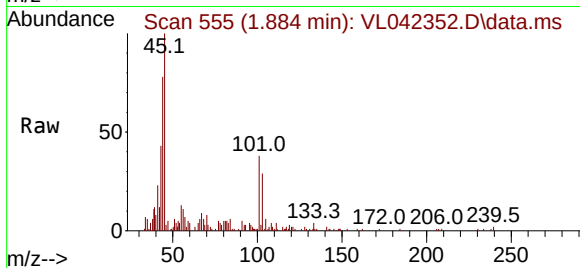




#19
Isopropyl Alcohol
Concen: 0.577 ppbv
RT: 1.884 min Scan# 51
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

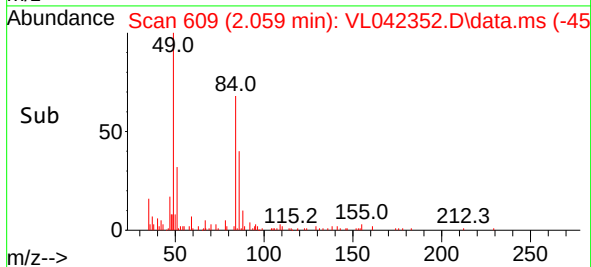
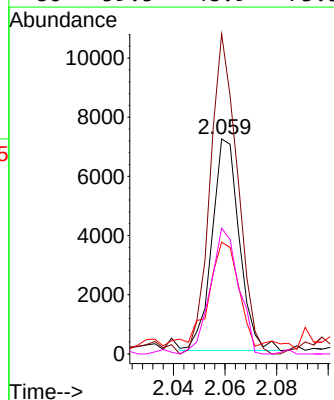
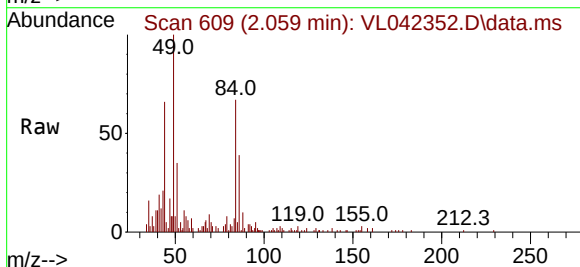
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

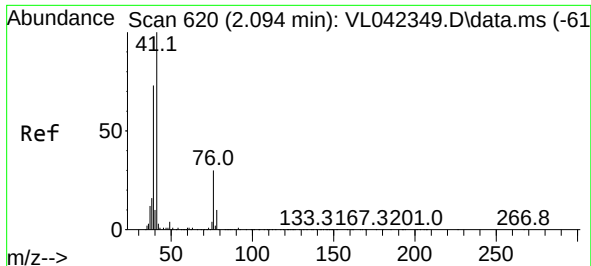
Tgt Ion: 45 Resp: 6327
Ion Ratio Lower Upper
45 100
58 3.8 34.5 51.7#



#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

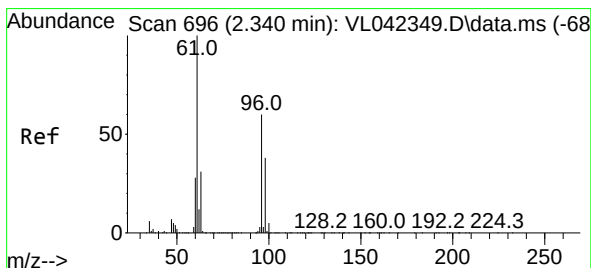
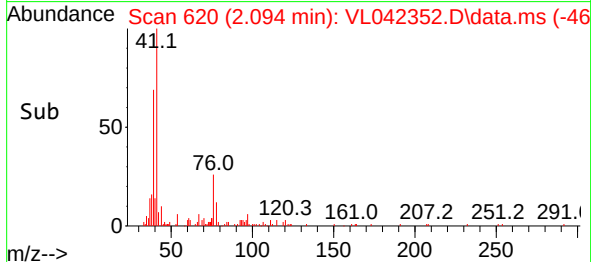
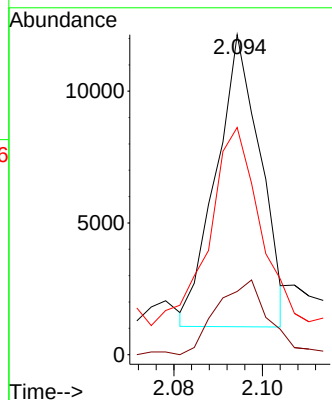
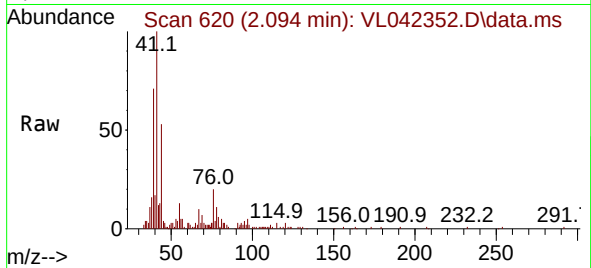




#21
 Allyl Chloride
 Concen: 0.565 ppbv
 RT: 2.094 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: VL042352.D
 Acq: 17 Apr 2025 11:19

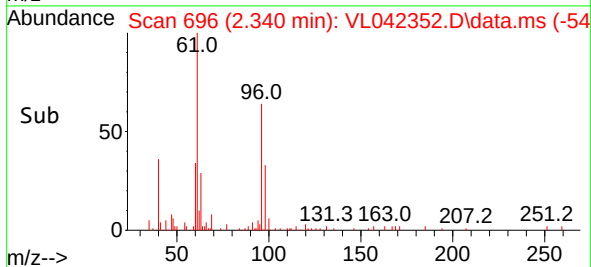
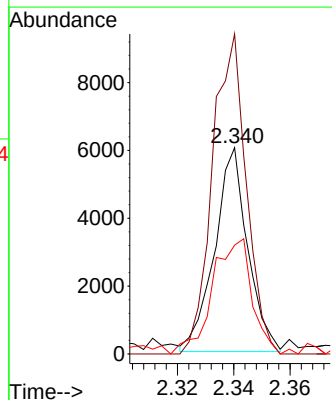
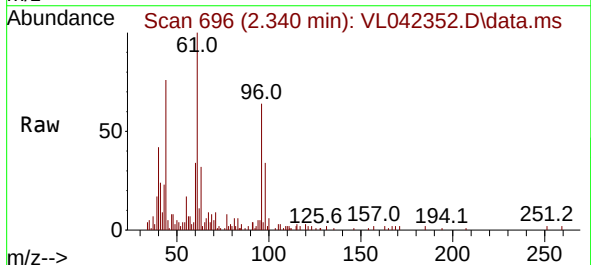
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

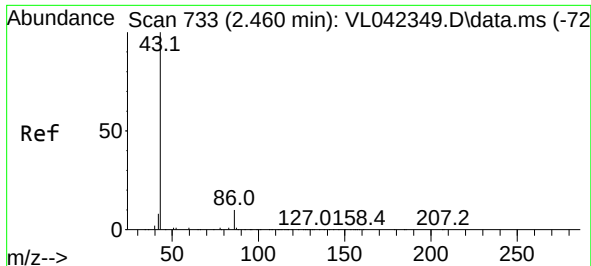
Tgt Ion: 41 Resp: 7692
 Ion Ratio Lower Upper
 41 100
 76 31.1 24.8 37.2
 39 98.8 60.6 90.8#



#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

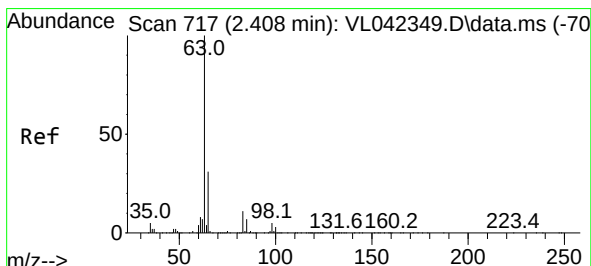
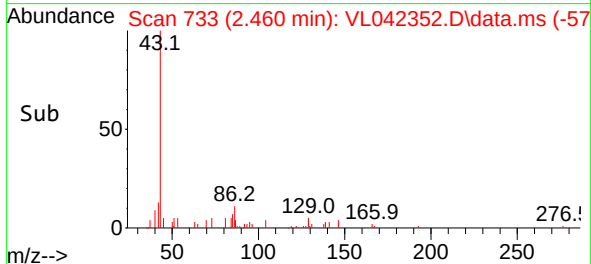
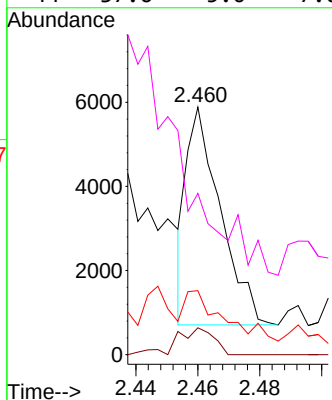
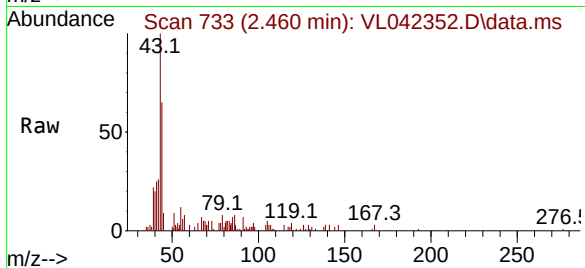




#23
 Vinyl Acetate
 Concen: 0.495 ppbv
 RT: 2.460 min Scan# 717
 Delta R.T. -0.000 min
 Lab File: VL042352.D
 Acq: 17 Apr 2025 11:19

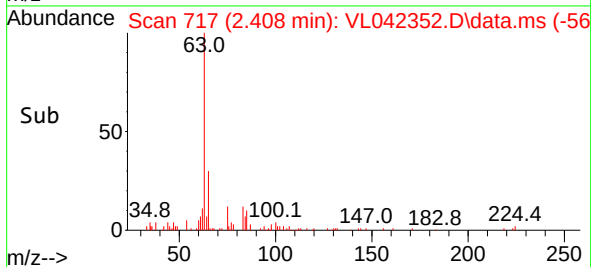
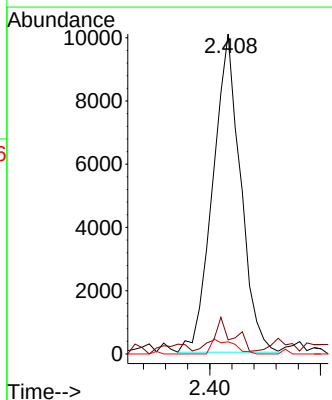
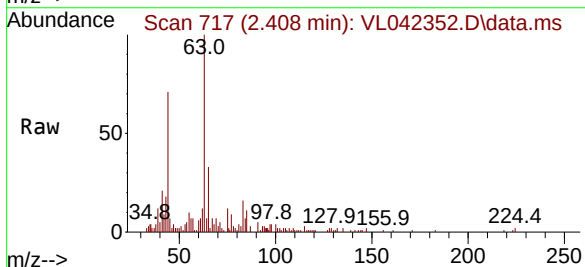
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.5

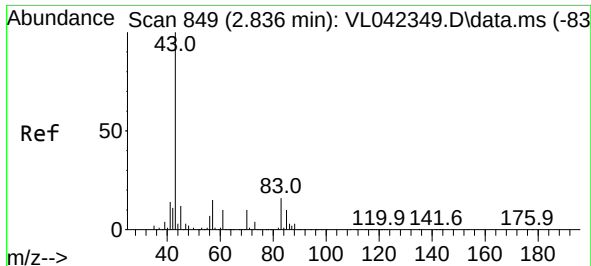
Tgt Ion:	43	Resp:	3953
Ion	Ratio	Lower	Upper
43	100		
86	12.4	6.5	9.7#
42	23.2	7.8	11.8#
44	37.6	5.0	7.6#



#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

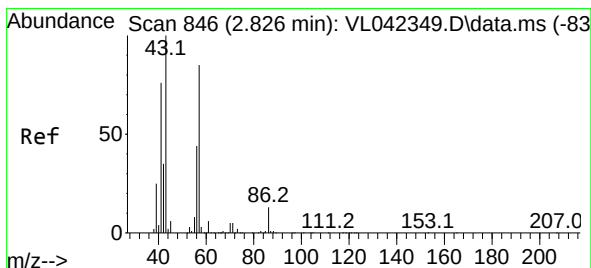
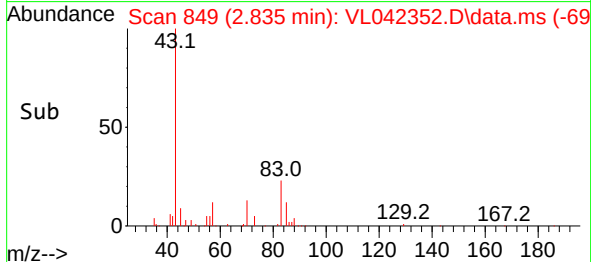
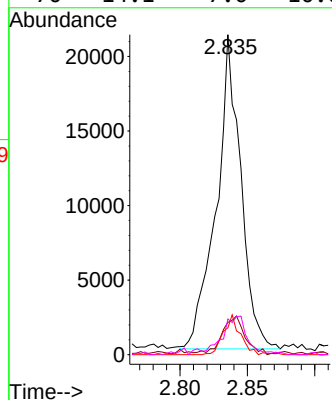
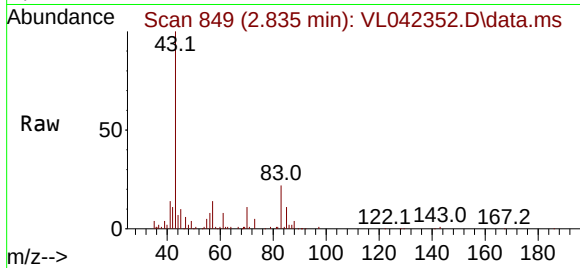




#25
Ethyl Acetate
Concen: 0.548 ppbv
RT: 2.835 min Scan# 84
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

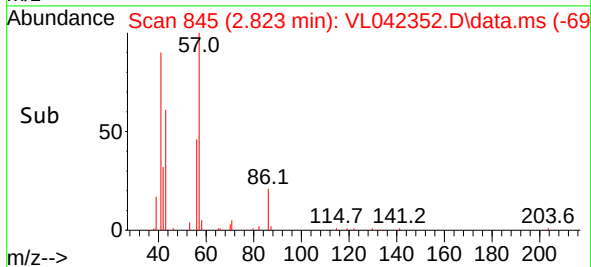
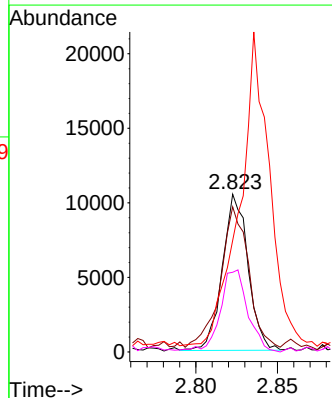
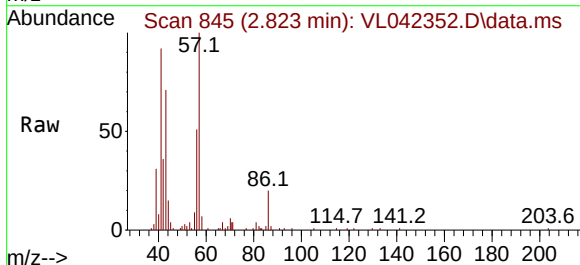
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

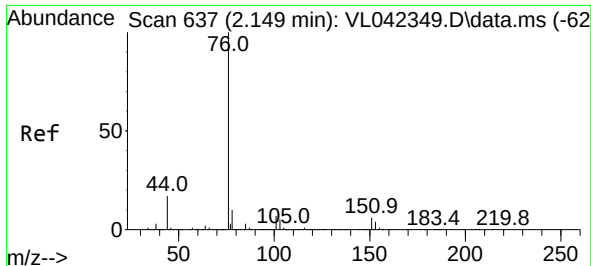
Tgt Ion:	43	Resp:	26686
Ion	Ratio	Lower	Upper
43	100		
45	13.3	8.3	12.5#
61	9.0	7.3	10.9
70	14.1	7.0	10.6#



#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

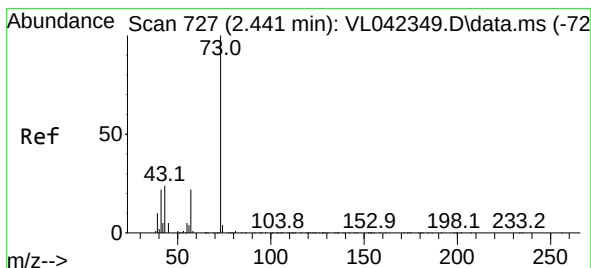
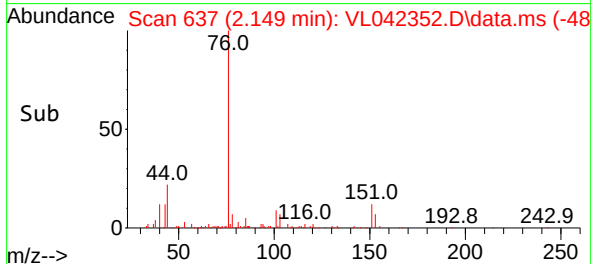
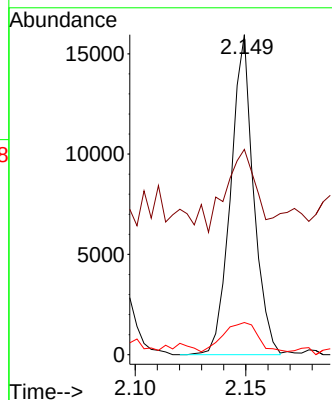
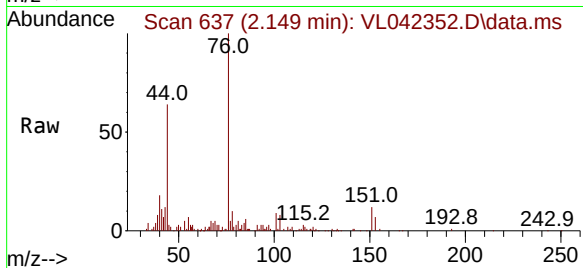




#27
Carbon Disulfide
Concen: 0.544 ppbv
RT: 2.149 min Scan# 61
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

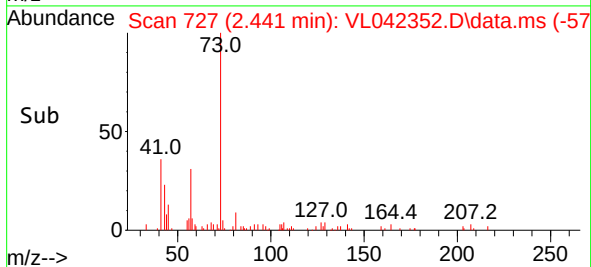
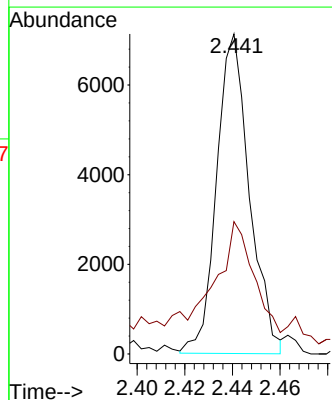
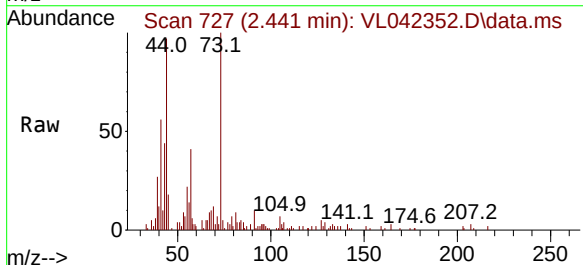
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

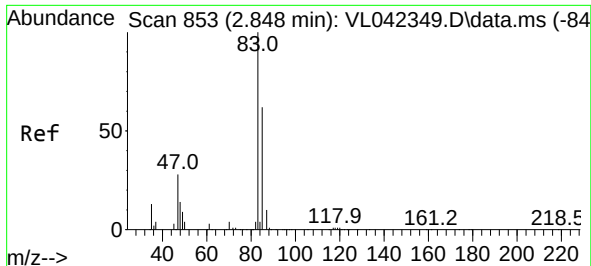
Tgt Ion: 76 Resp: 11472
Ion Ratio Lower Upper
76 100
44 123.7 15.5 23.3#
78 18.8 9.3 13.9#



#28
Methyl tert-Butyl Ether
Concen: 0.530 ppbv
RT: 2.441 min Scan# 727
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 73 Resp: 6833
Ion Ratio Lower Upper
73 100
57 61.8 21.3 31.9#





#29

Chloroform

Concen: 0.532 ppbv

RT: 2.848 min Scan# 81

Delta R.T. -0.000 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Instrument :

MSVOA_L

ClientSampleId :

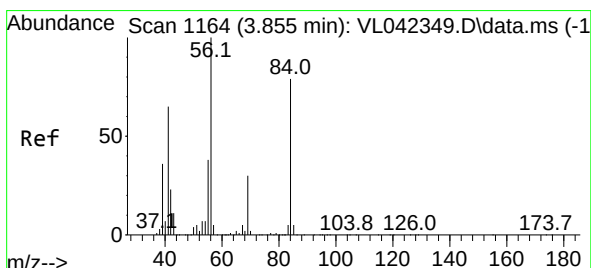
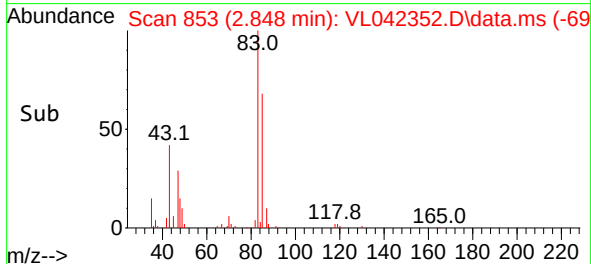
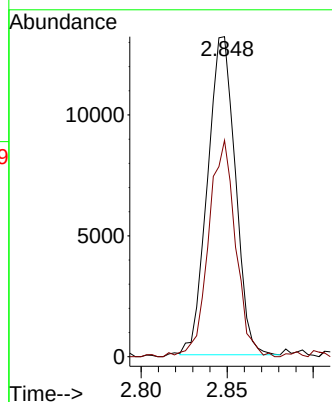
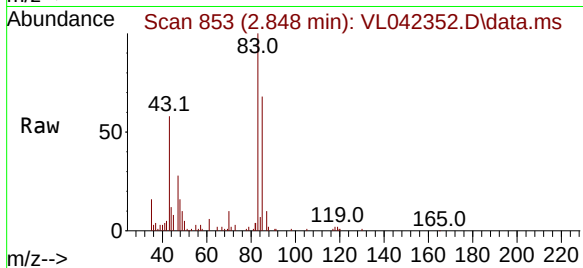
VSTDIC0.5

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

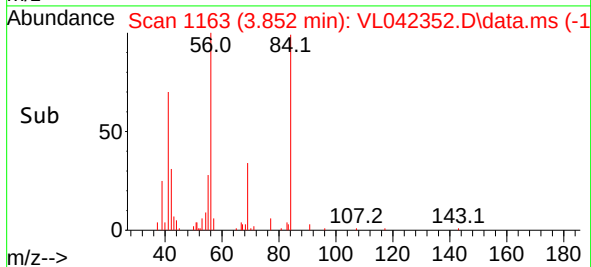
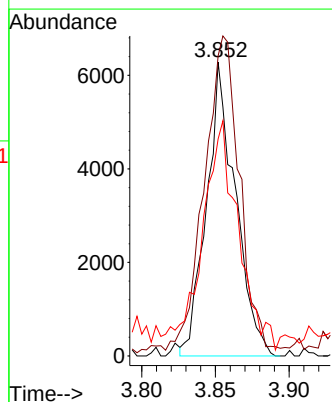
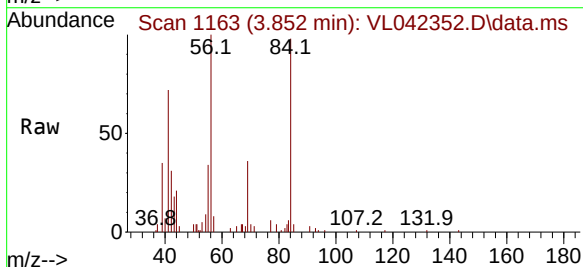
Tgt Ion: 84 Resp: 8572

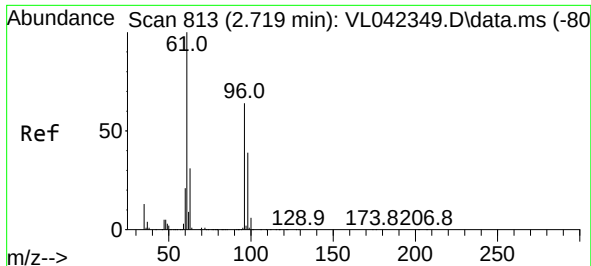
Ion Ratio Lower Upper

84 100

56 132.8 101.0 151.4

41 89.8 67.4 101.0

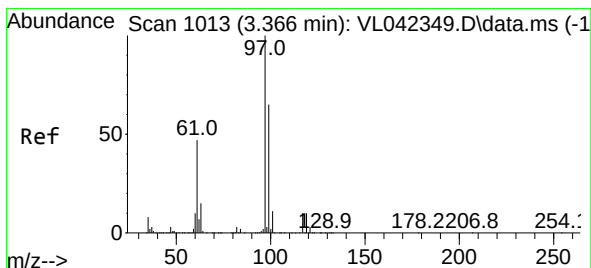
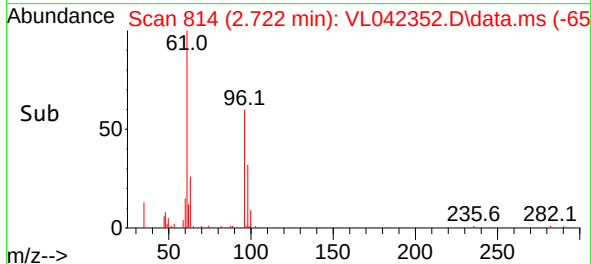
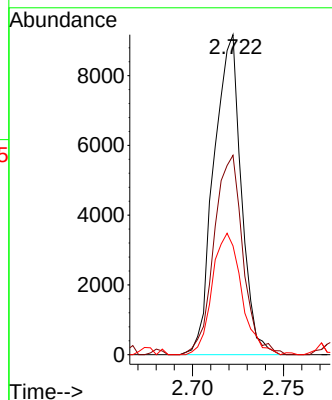
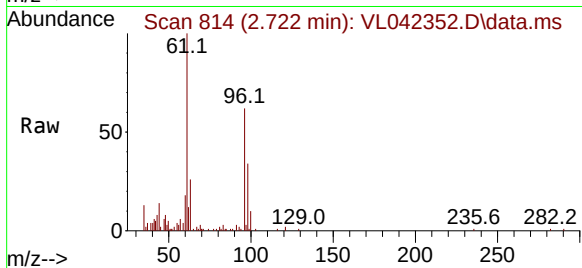




#31
cis-1,2-Dichloroethene
Concen: 0.511 ppbv
RT: 2.722 min Scan# 813
Delta R.T. 0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

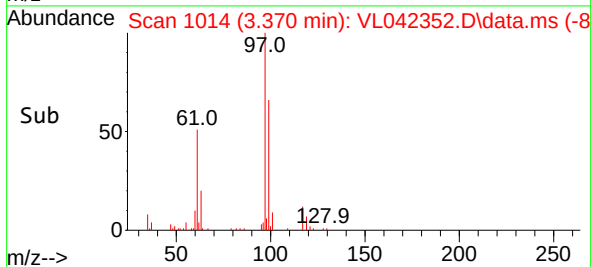
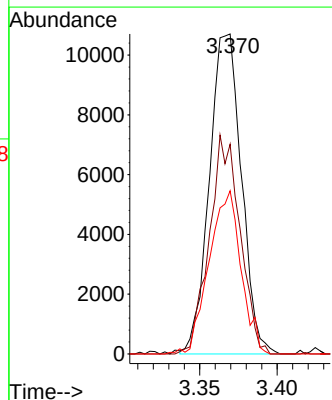
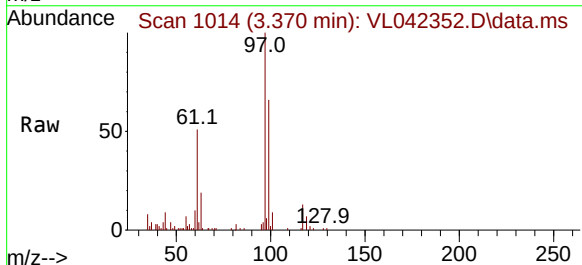
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

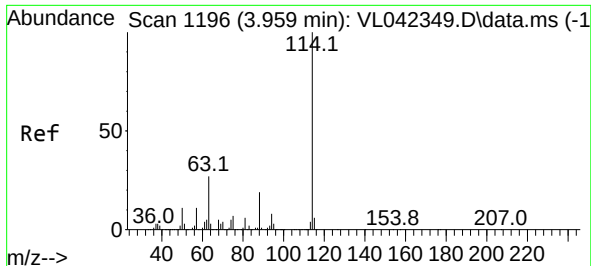
Tgt Ion: 61 Resp: 9571
Ion Ratio Lower Upper
61 100
96 62.3 50.8 76.2
98 34.0 30.9 46.3



#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

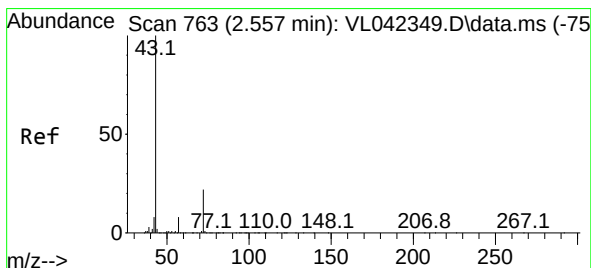
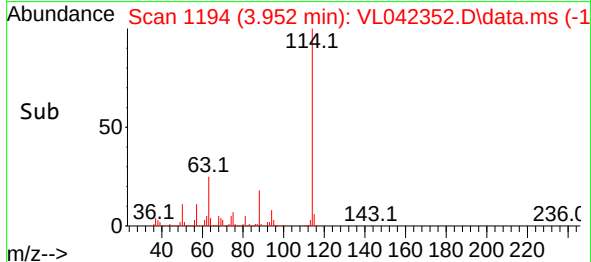
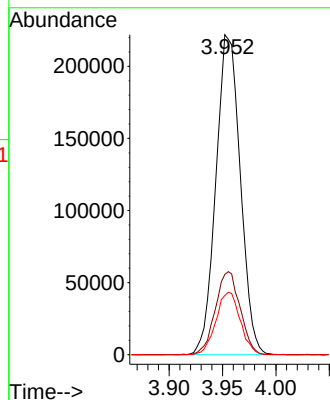
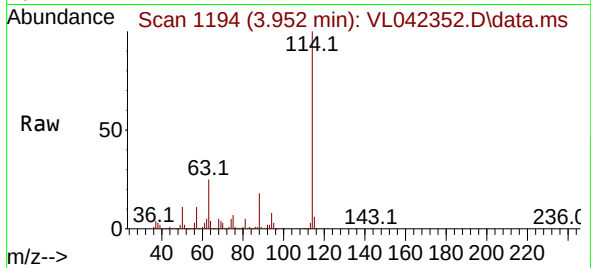




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. -0.006 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

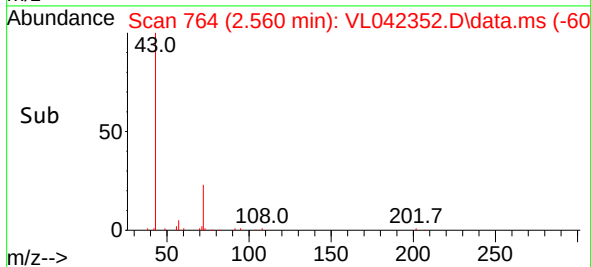
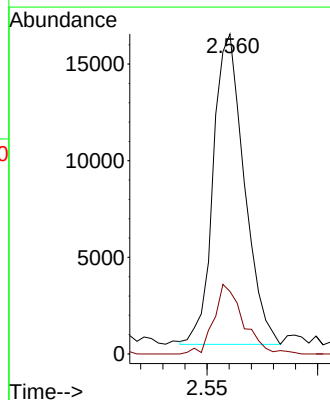
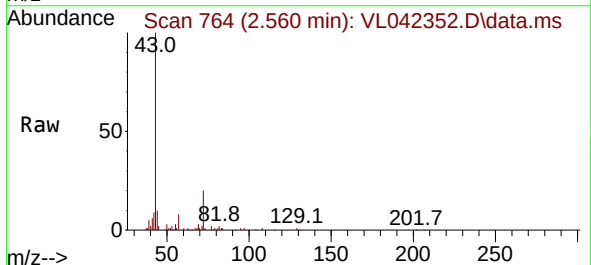
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

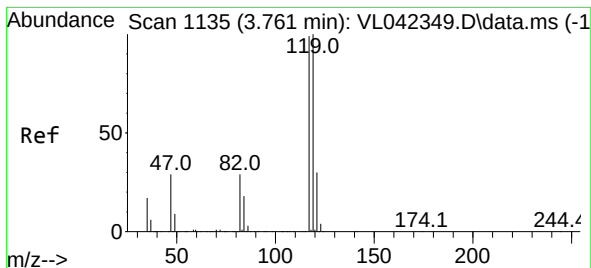
Tgt Ion:114 Resp: 353137
Ion Ratio Lower Upper
114 100
63 26.3 21.8 32.6
88 19.4 15.5 23.3



#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

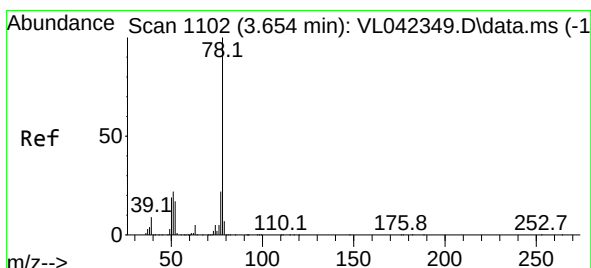
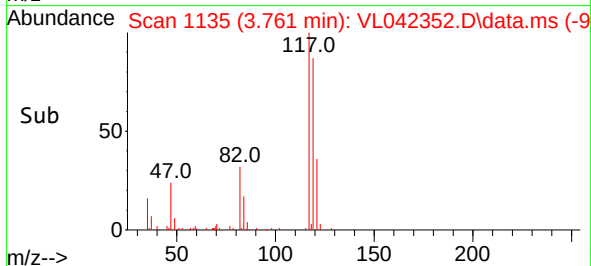
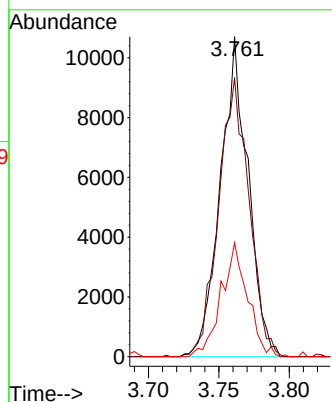
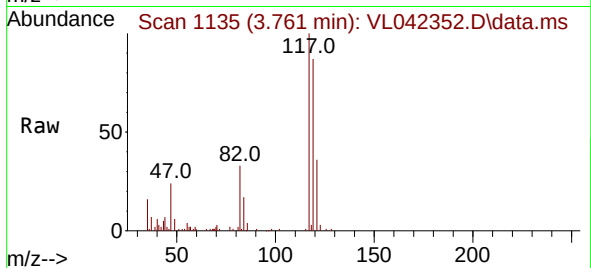
Tgt Ion:117 Resp: 14683

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

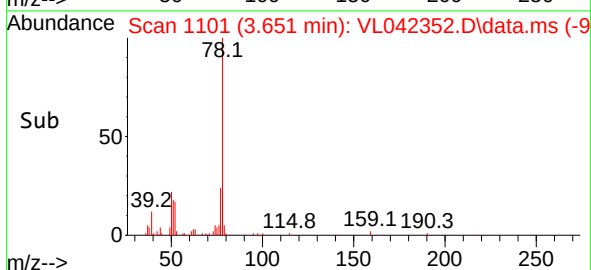
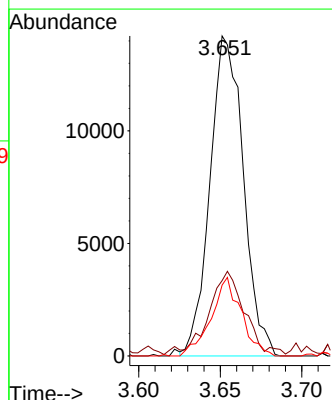
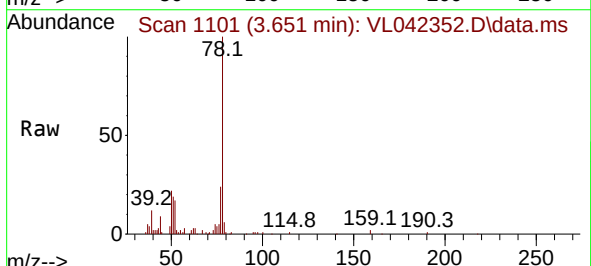
Tgt Ion: 78 Resp: 20233

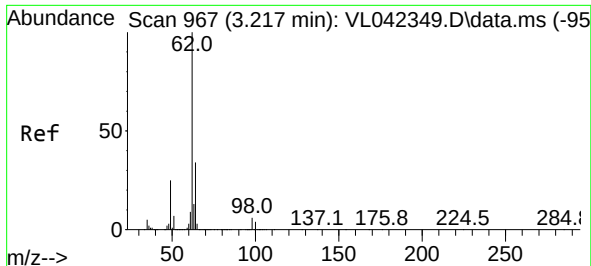
Ion Ratio Lower Upper

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# 9

Delta R.T. -0.000 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Instrument :

MSVOA_1

ClientSampleId :

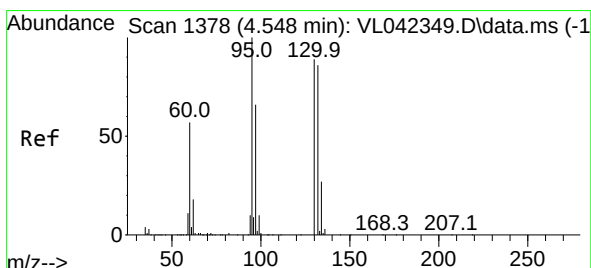
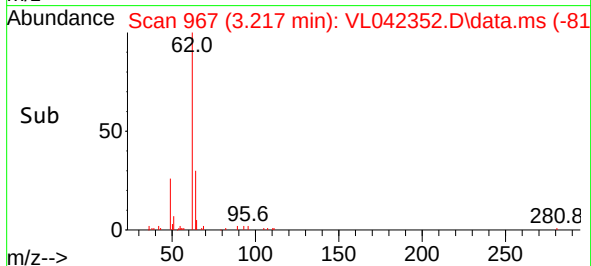
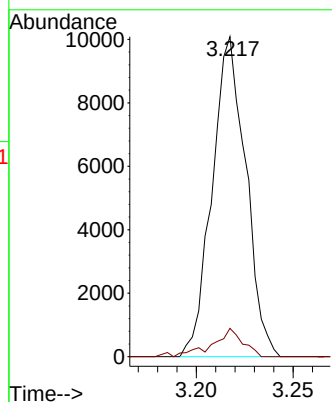
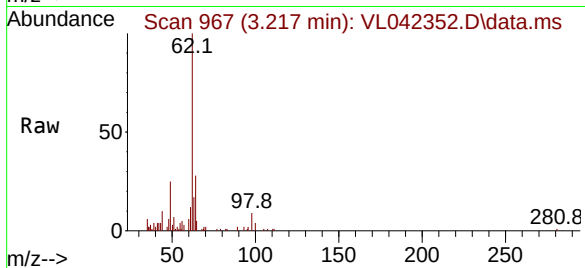
VSTDIC0.5

Tgt Ion: 62 Resp: 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

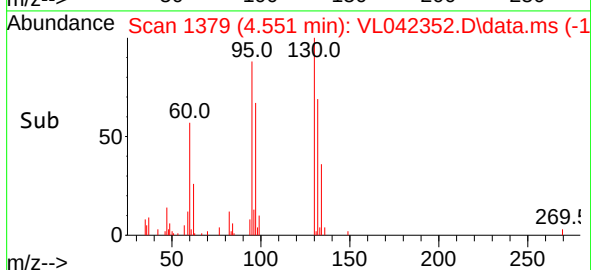
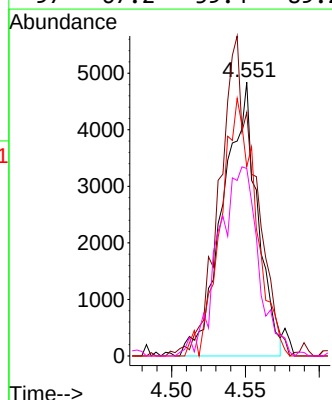
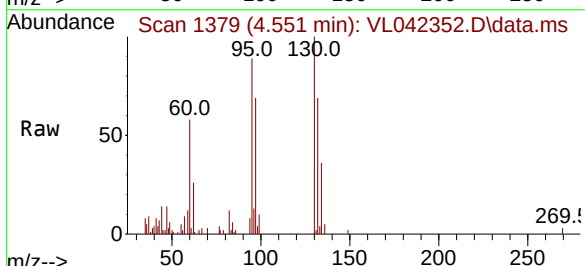
Ion Ratio Lower Upper

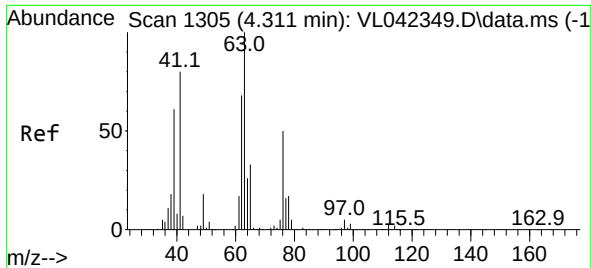
130 100

95 86.2 89.8 134.6#

132 69.1 77.7 116.5#

97 67.2 59.4 89.2

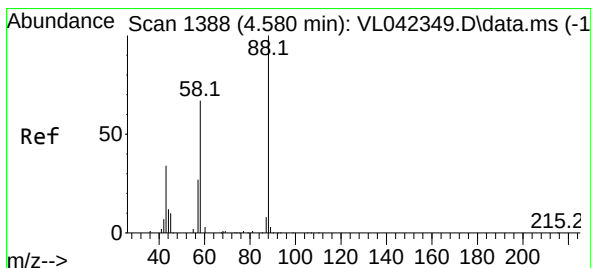
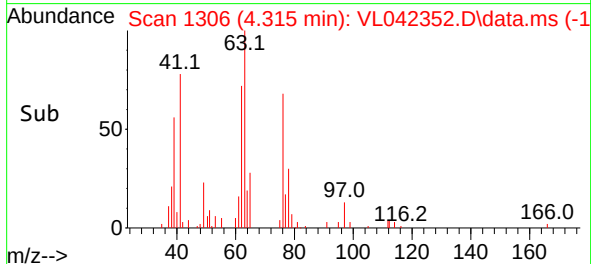
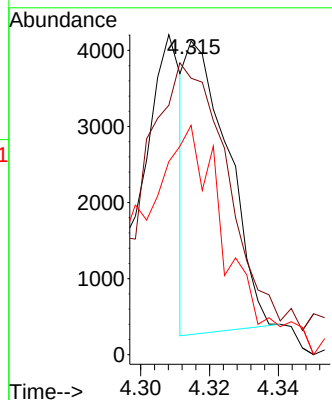
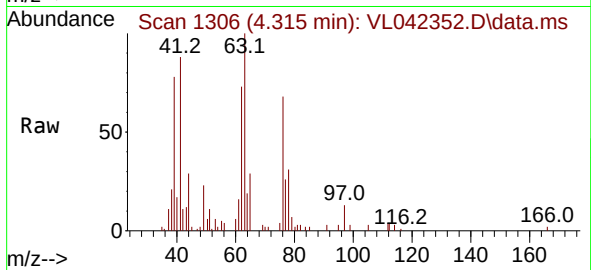




#39
1,2-Dichloropropane
Concen: 0.225 ppbv
RT: 4.315 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

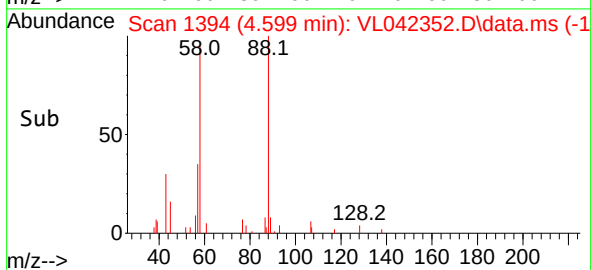
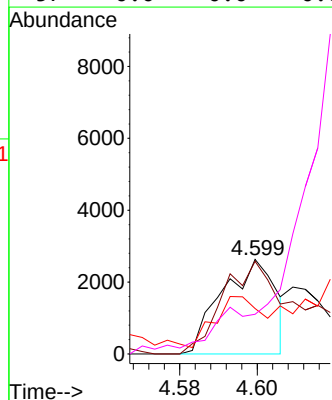
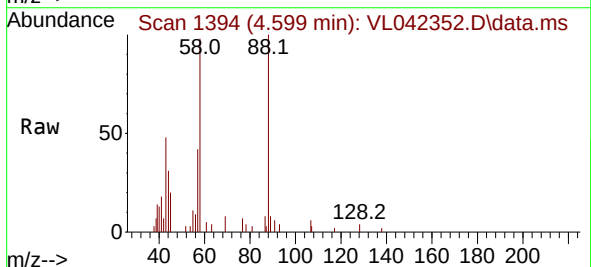
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

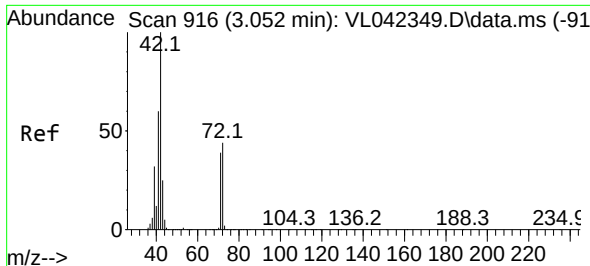
Tgt Ion: 63 Resp: 3195
Ion Ratio Lower Upper
63 100
41 90.7 64.2 96.2
62 75.2 54.3 81.5



#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

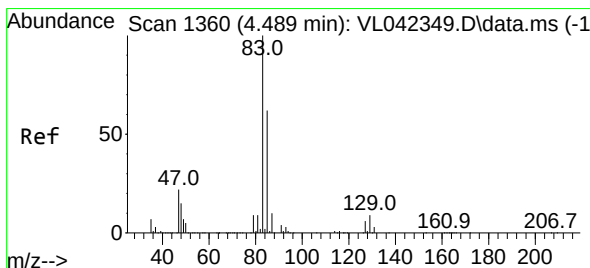
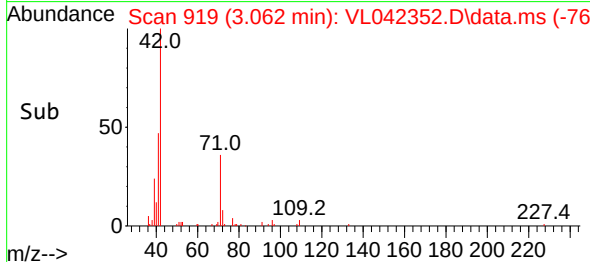
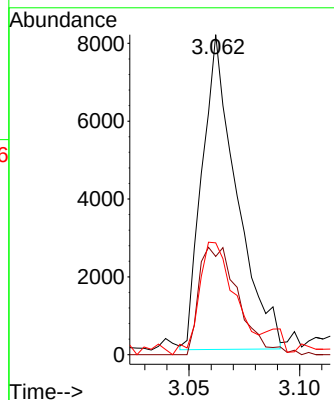
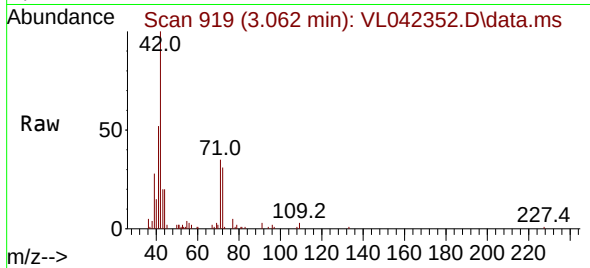




#41
Tetrahydrofuran
Concen: 0.544 ppbv
RT: 3.062 min Scan# 916
Delta R.T. 0.010 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

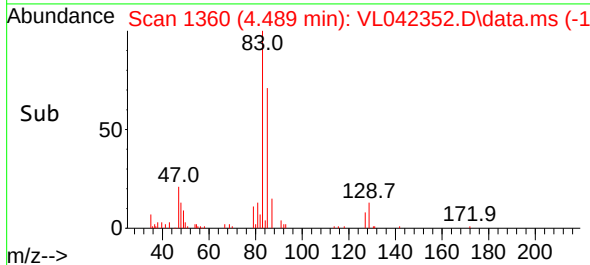
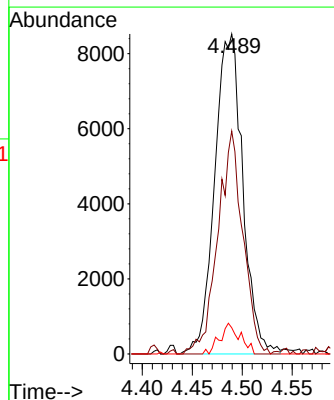
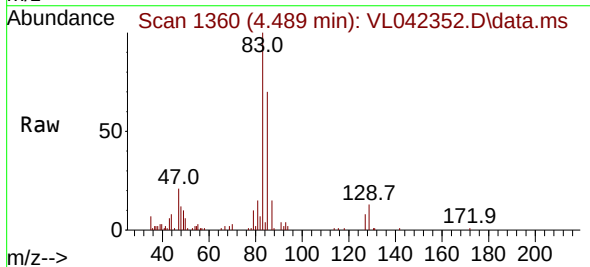
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

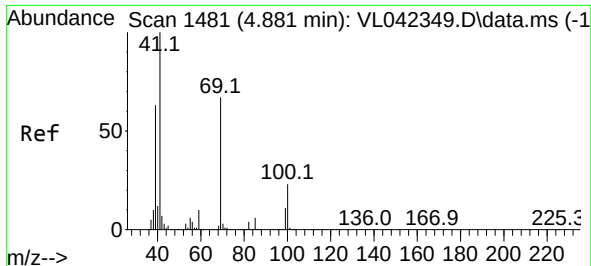
Tgt Ion:	42	Resp:	8773
Ion	Ratio	Lower	Upper
42	100		
72	39.3	32.3	48.5
71	44.9	31.4	47.2



#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#

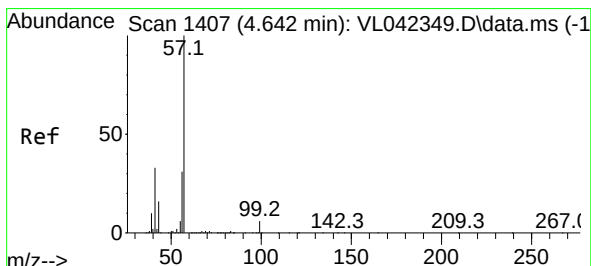
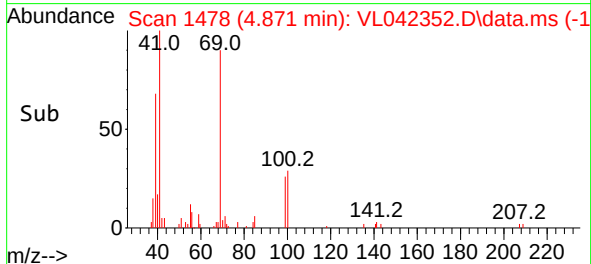
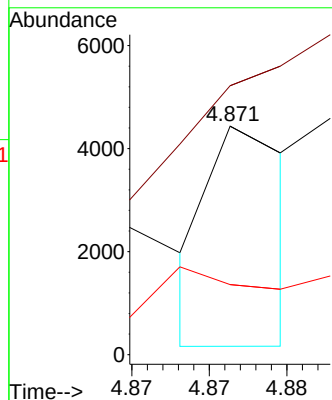
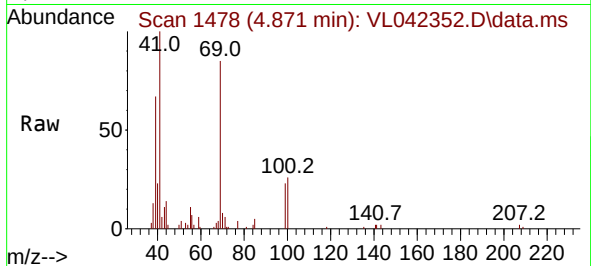




#43
Methyl Methacrylate
Concen: 0.091 ppbv
RT: 4.871 min Scan# 1478
Delta R.T. -0.010 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

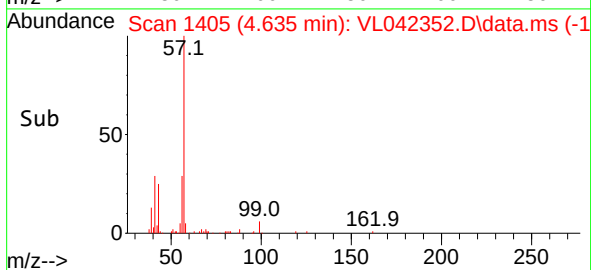
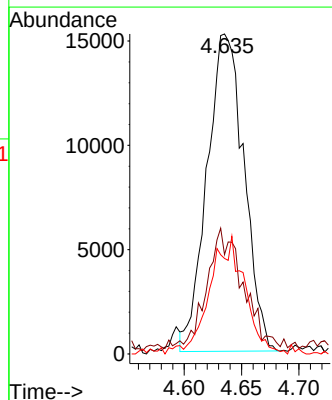
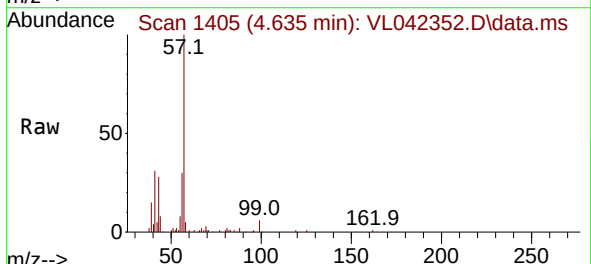
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

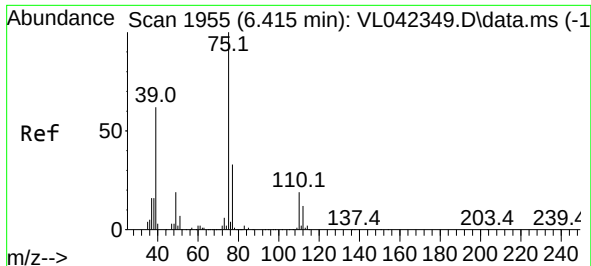
Tgt Ion: 69 Resp: 1556
Ion Ratio Lower Upper
69 100
41 0.0 118.6 177.8#
100 0.0 28.2 42.2#



#44
2,2,4-Trimethylpentane
Concen: 0.519 ppbv
RT: 4.635 min Scan# 1405
Delta R.T. -0.006 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 57 Resp: 34170
Ion Ratio Lower Upper
57 100
41 39.1 27.2 40.8
56 37.1 25.7 38.5





#45

t-1,3-Dichloropropene

Concen: 0.076 ppbv

RT: 6.393 min Scan# 1955

Delta R.T. -0.023 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Instrument :

MSVOA_L

ClientSampleId :

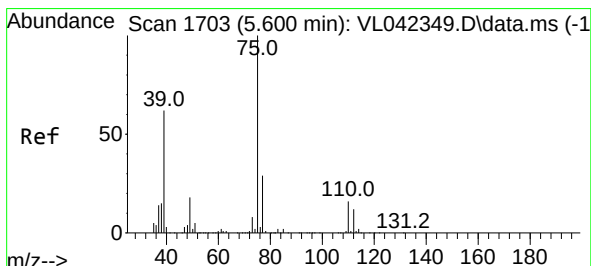
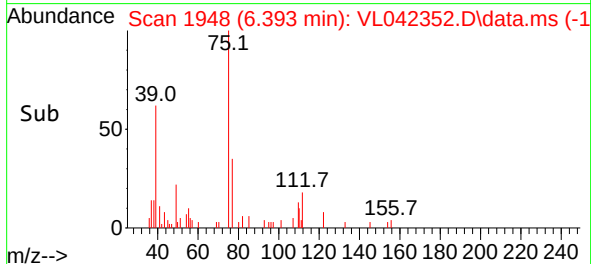
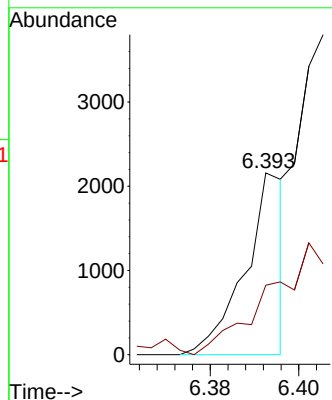
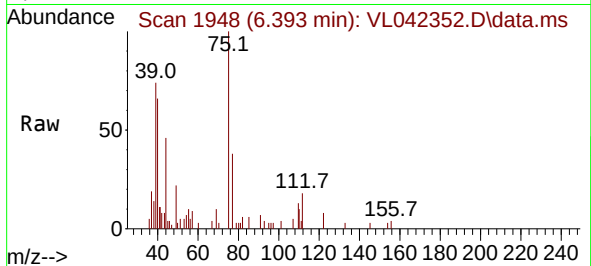
VSTDIC0.5

Tgt Ion: 75 Resp: 1332

Ion Ratio Lower Upper

75 100

77 38.2 27.0 40.6



#46

cis-1,3-Dichloropropene

Concen: 0.356 ppbv

RT: 5.596 min Scan# 1702

Delta R.T. -0.003 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

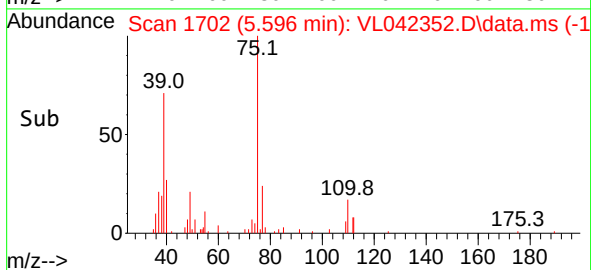
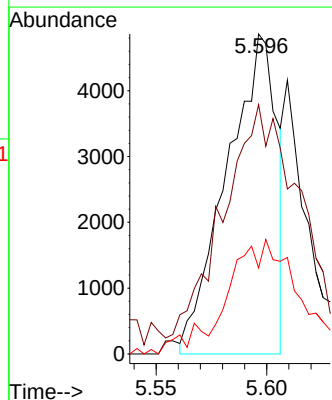
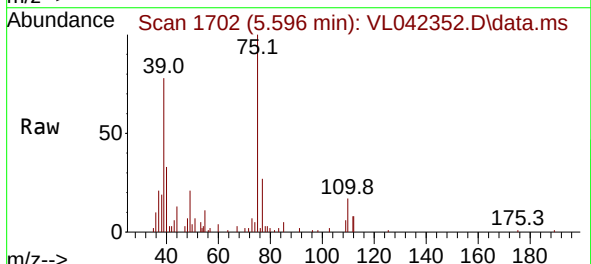
Tgt Ion: 75 Resp: 7634

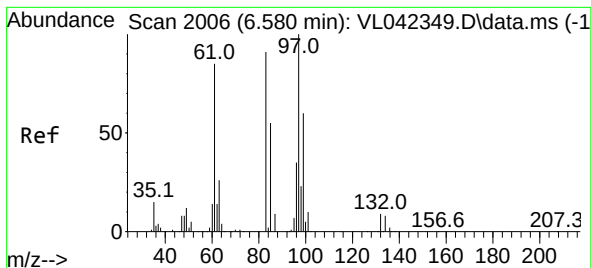
Ion Ratio Lower Upper

75 100

39 67.9 50.0 75.0

77 21.6 23.0 34.6#





#47

1,1,2-Trichloroethane

Concen: 0.164 ppbv

RT: 6.590 min Scan# 2009

Delta R.T. 0.010 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Instrument :

MSVOA_1

ClientSampleId :

VSTDICC0.5

Tgt Ion: 97 Resp: 2374

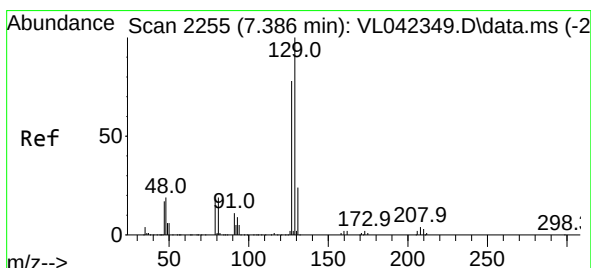
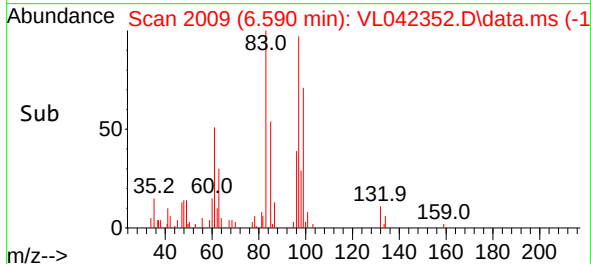
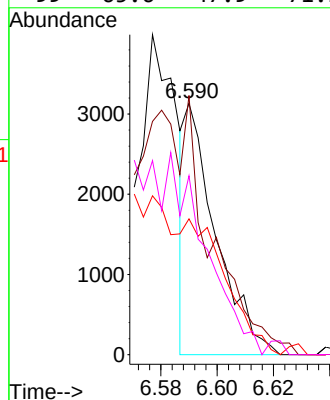
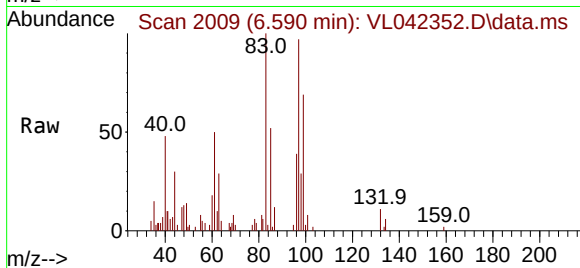
Ion Ratio Lower Upper

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

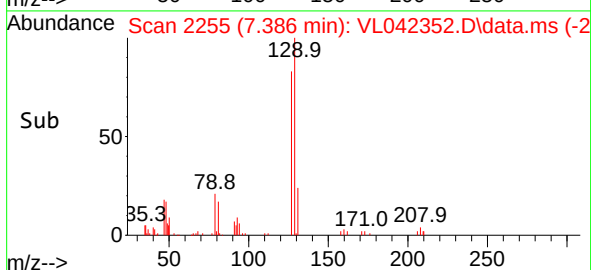
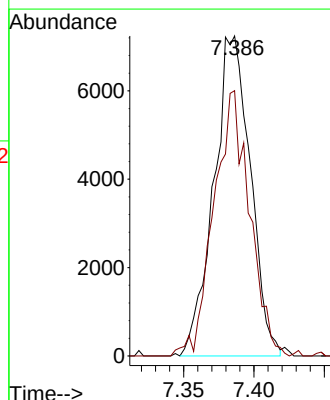
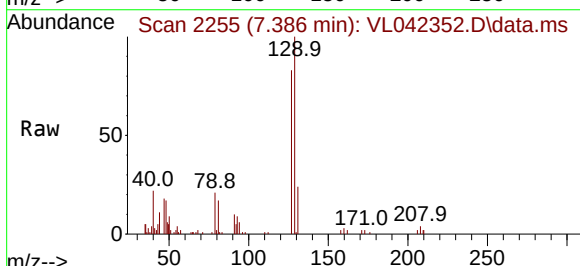
Acq: 17 Apr 2025 11:19

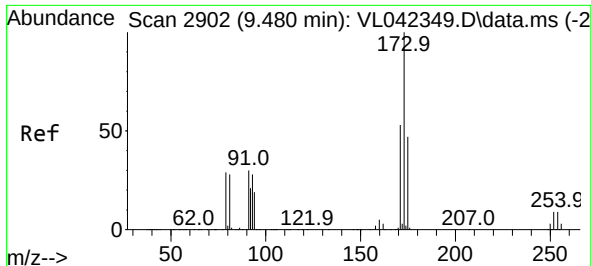
Tgt Ion: 129 Resp: 13122

Ion Ratio Lower Upper

129 100

127 80.9 39.1 117.3

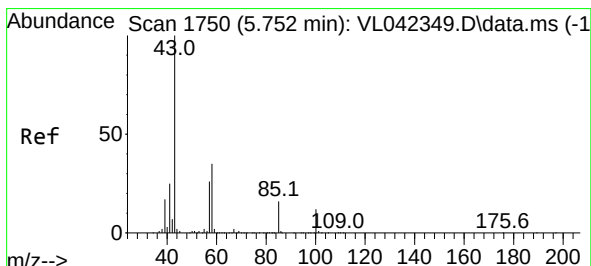
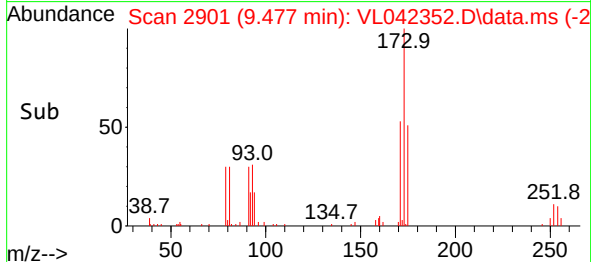
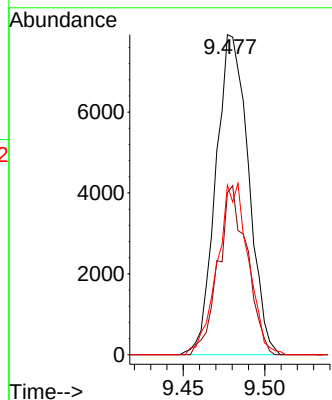
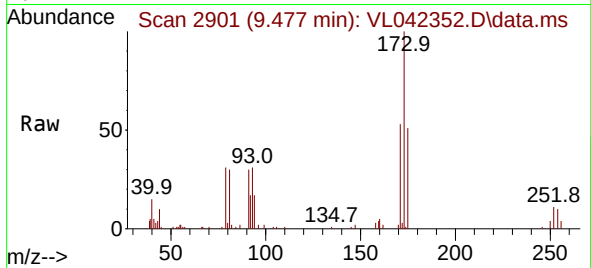




#49
Bromoform
Concen: 0.492 ppbv
RT: 9.477 min Scan# 2902
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

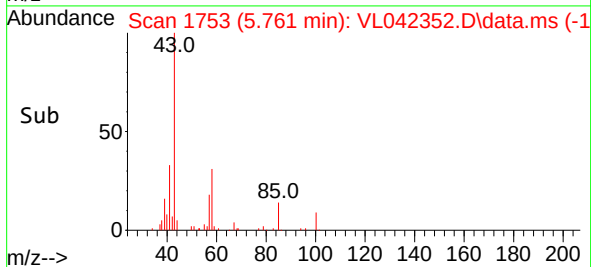
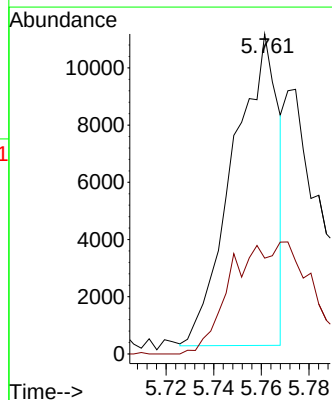
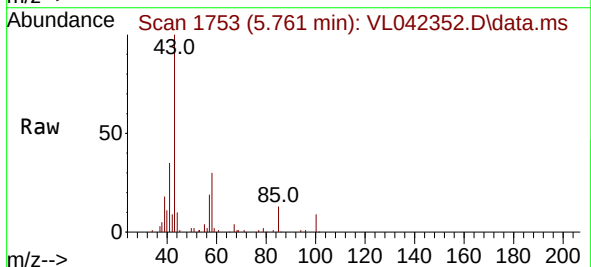
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

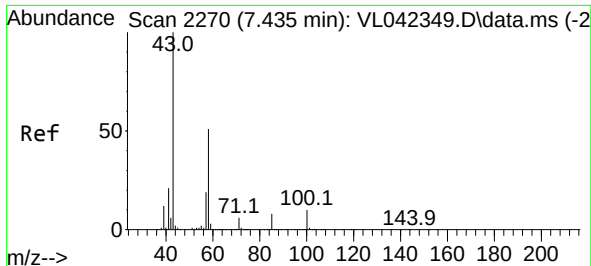
Tgt Ion:173 Resp: 10988
Ion Ratio Lower Upper
173 100
175 46.8 38.2 57.2
171 51.2 40.9 61.3



#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#

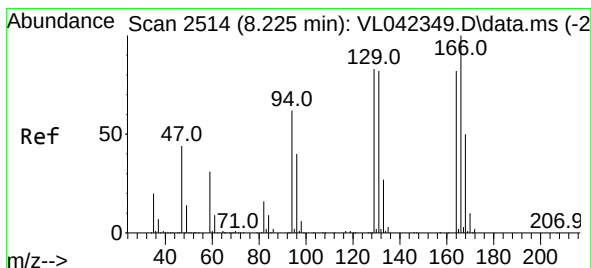
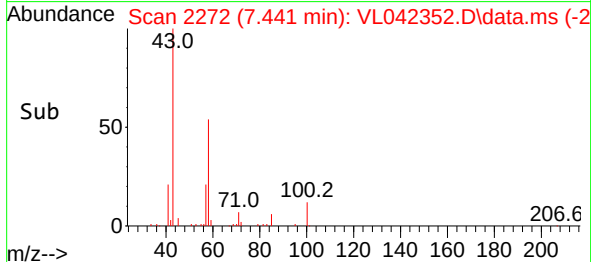
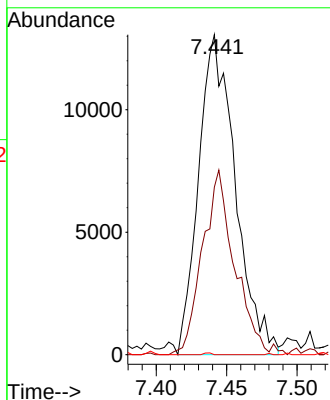
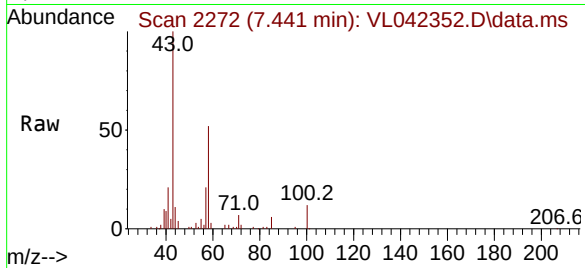




#51
2-Hexanone
Concen: 0.564 ppbv
RT: 7.441 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

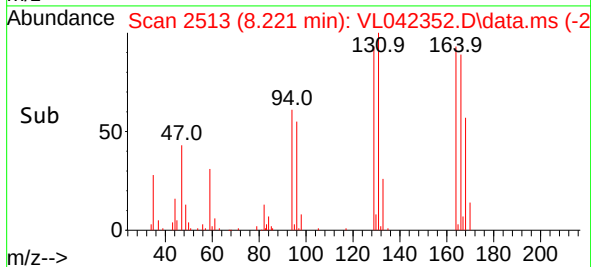
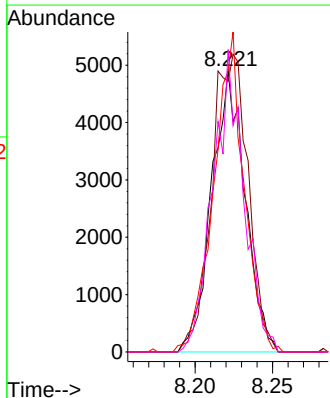
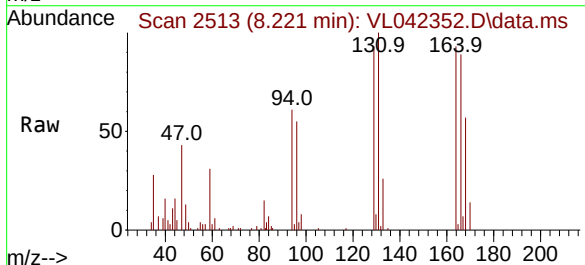
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

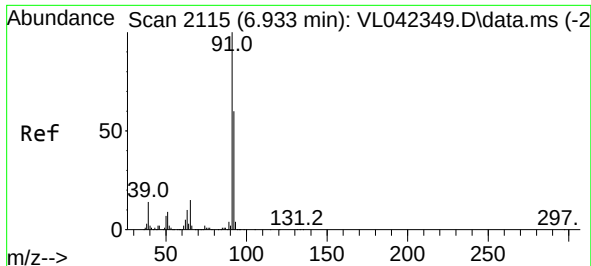
Tgt Ion: 43 Resp: 23684
Ion Ratio Lower Upper
43 100
58 51.7 40.2 60.4
98 0.1 0.1 0.1



#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

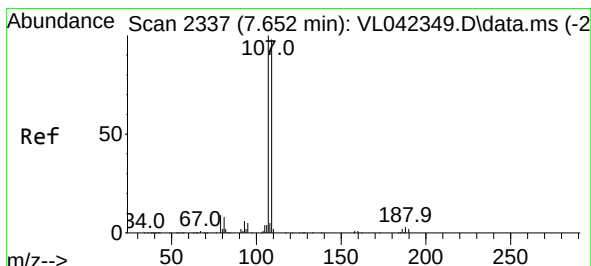
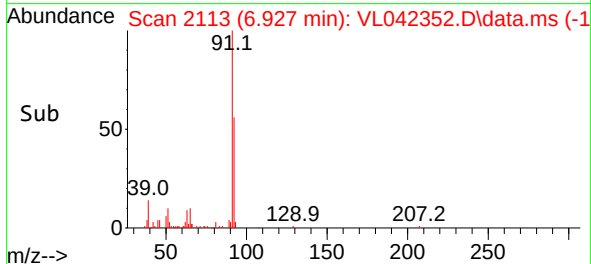
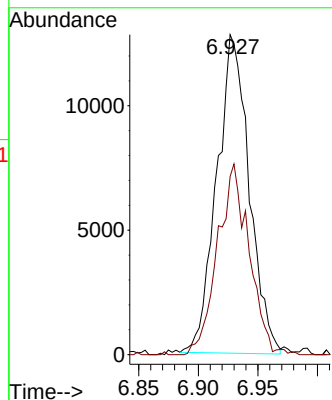
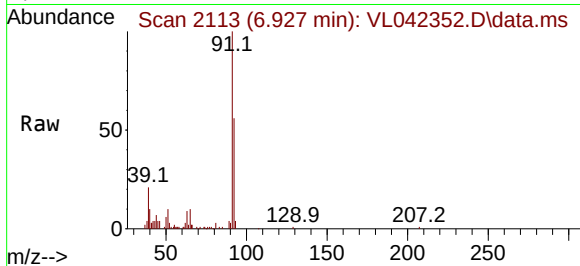




#53
Toluene
Concen: 0.529 ppbv
RT: 6.927 min Scan# 2113
Delta R.T. -0.006 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

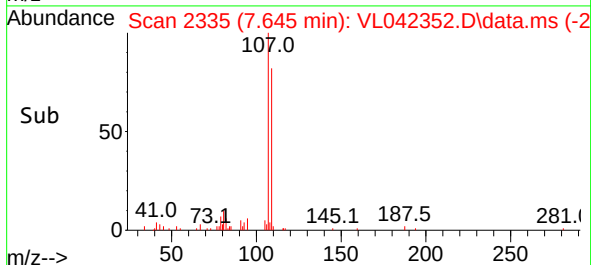
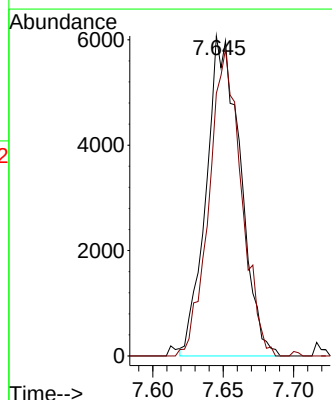
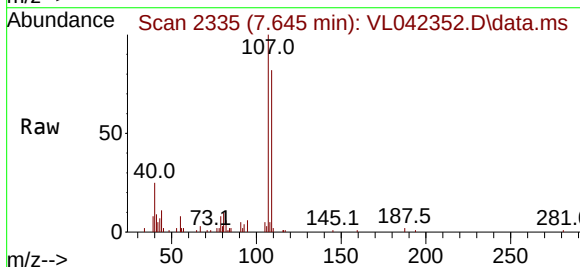
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

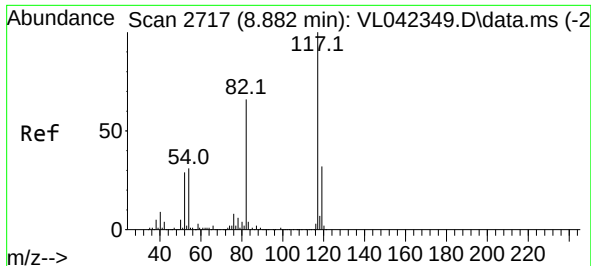
Tgt Ion: 91 Resp: 24200
Ion Ratio Lower Upper
91 100
92 58.4 48.2 72.4



#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

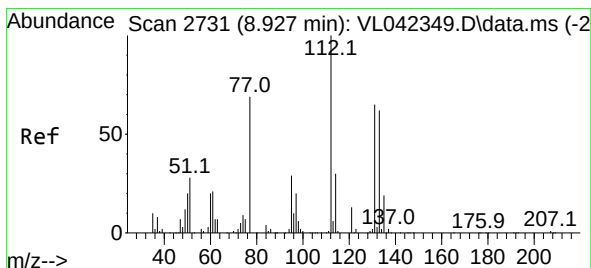
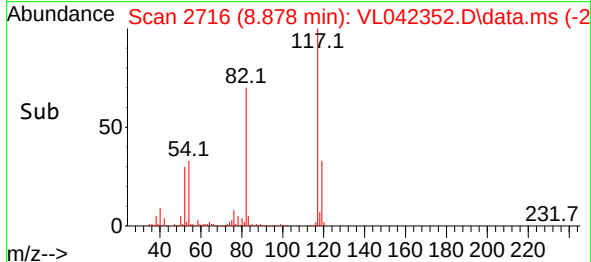
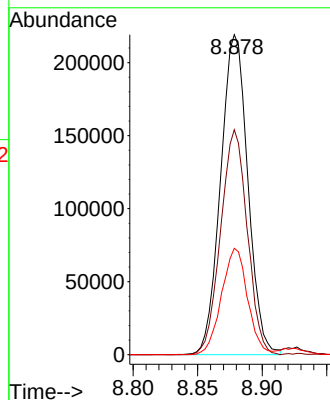
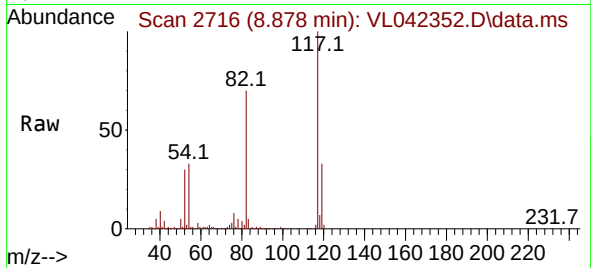




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

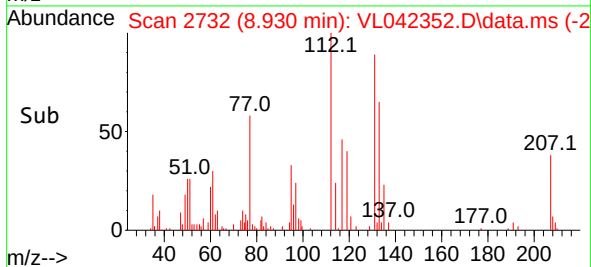
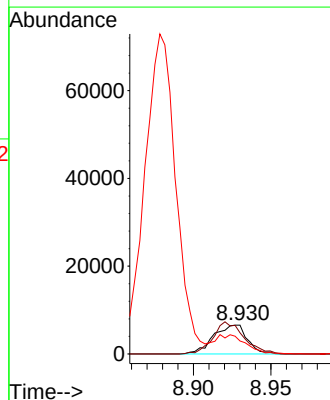
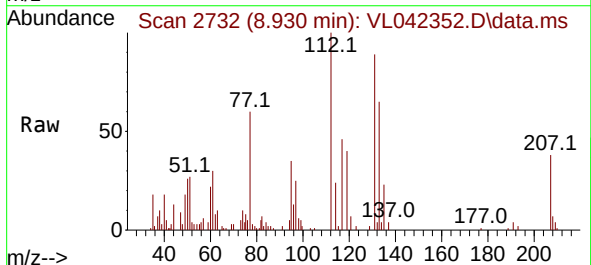
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

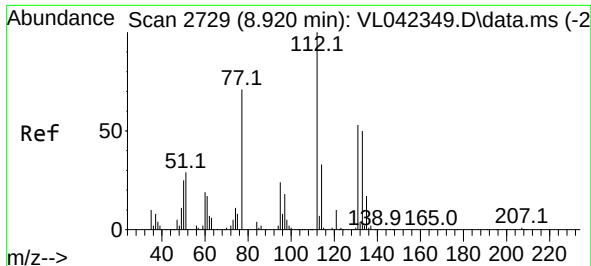
Tgt Ion:117 Resp: 321644
Ion Ratio Lower Upper
117 100
82 69.0 57.8 86.6
119 33.8 25.2 37.8



#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

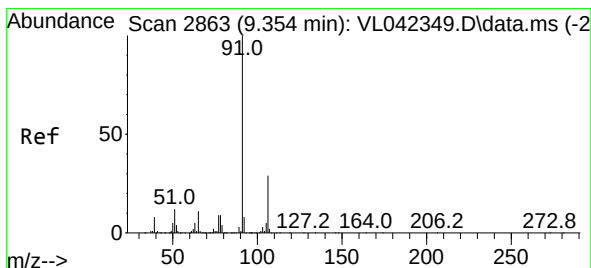
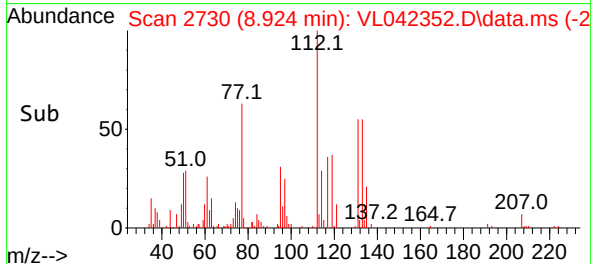
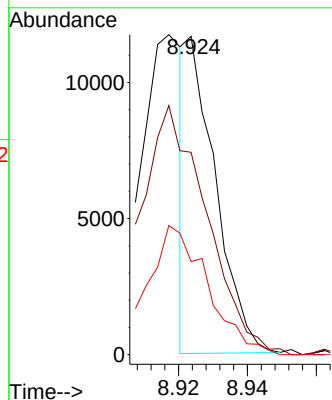
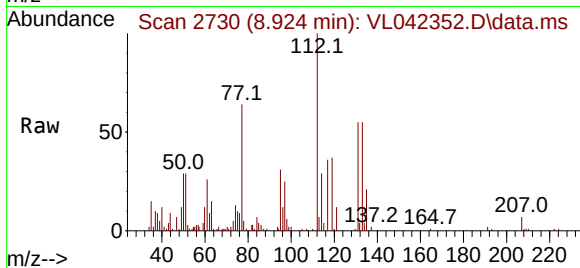
Instrument :

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

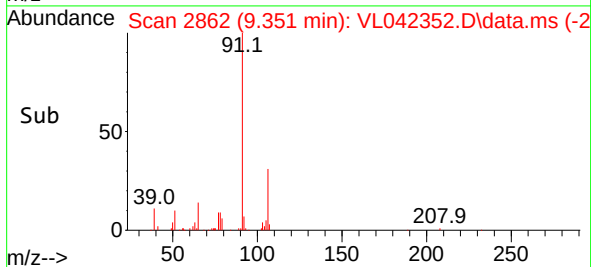
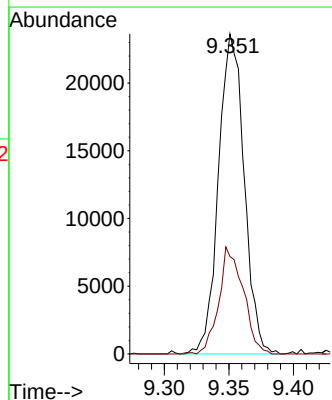
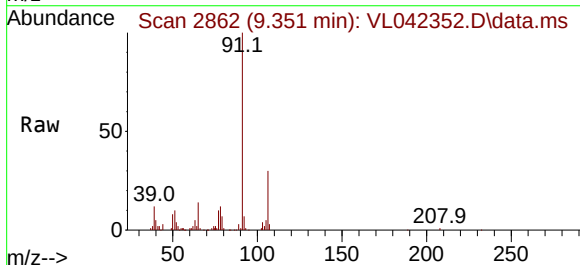
RT: 9.351 min Scan# 2862

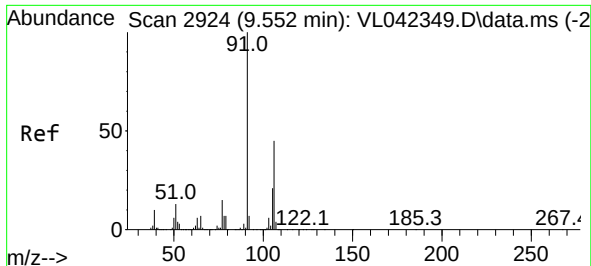
Delta R.T. -0.003 min

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 :

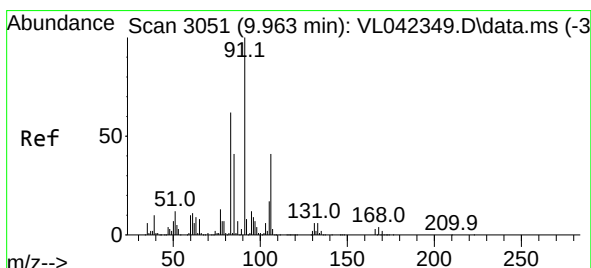
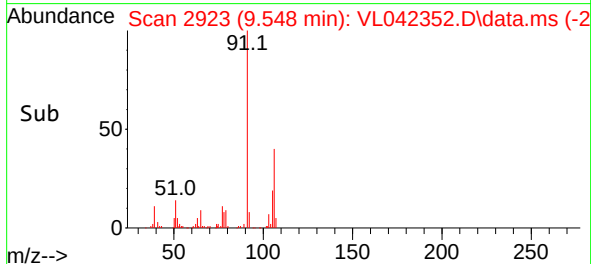
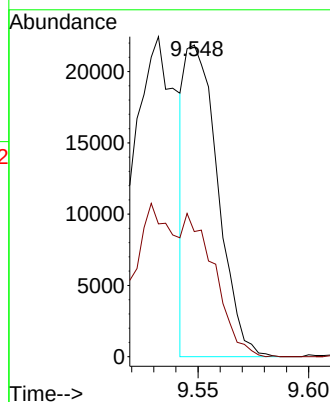
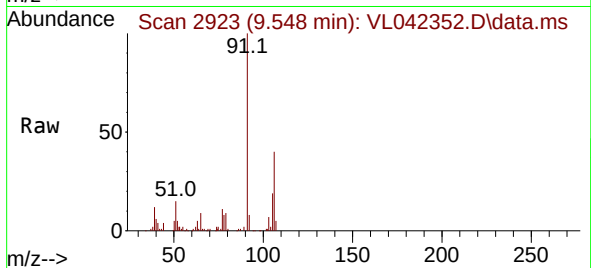
VSTDICC0.5

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

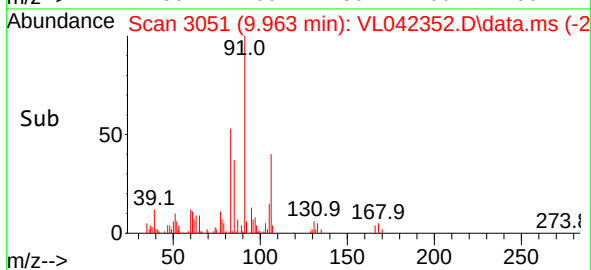
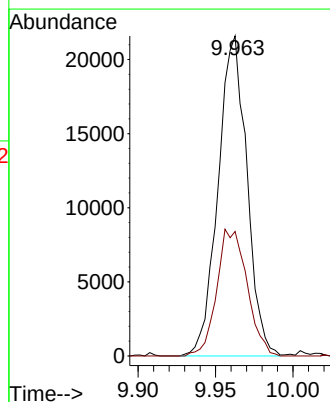
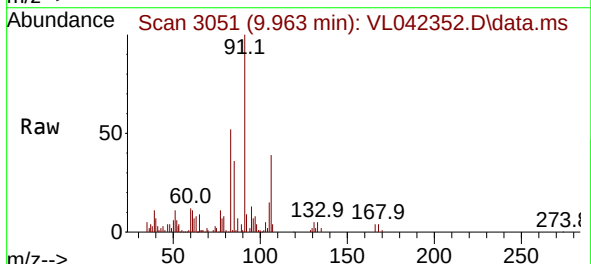
Acq: 17 Apr 2025 11:19

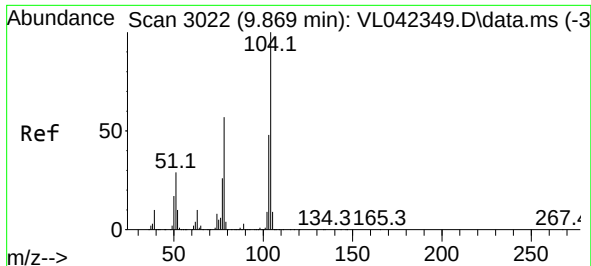
Tgt Ion: 91 Resp: 27983

Ion Ratio Lower Upper

91 100

106 41.6 21.1 63.4

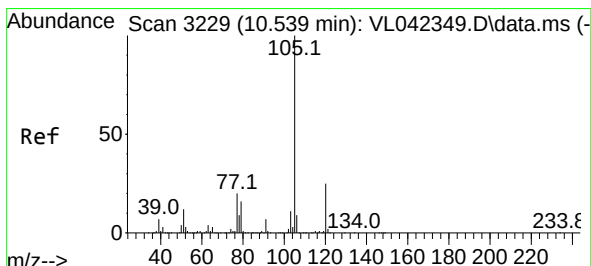
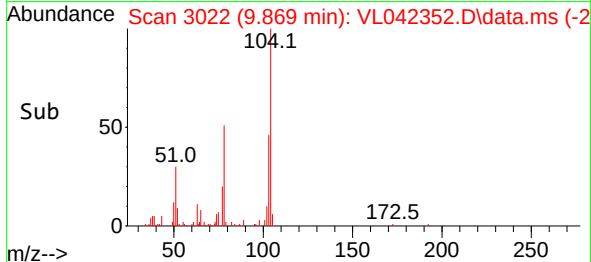
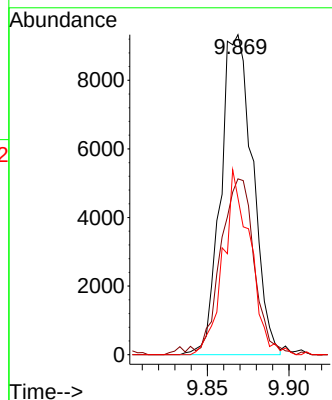
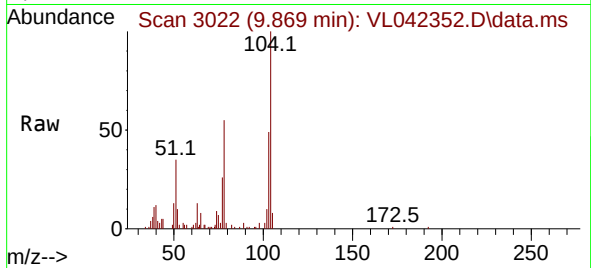




#61
Styrene
Concen: 0.516 ppbv
RT: 9.869 min Scan# 3022
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

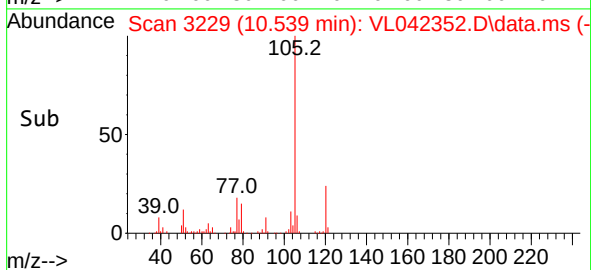
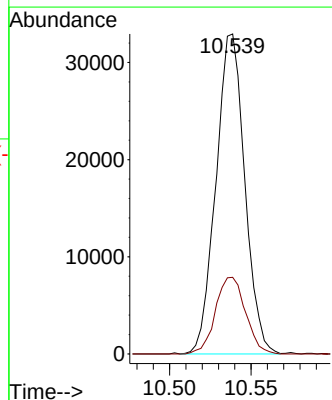
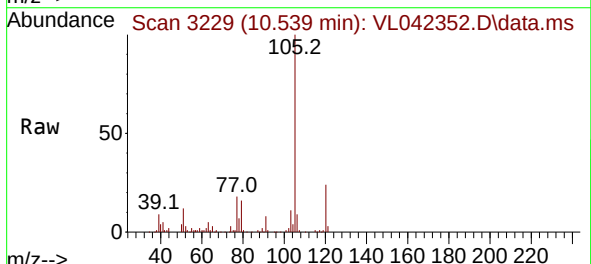
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

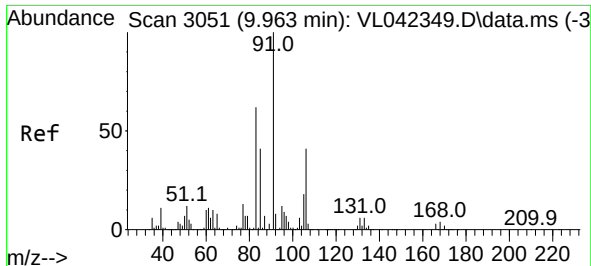
Tgt Ion:	104	Resp:	12736
Ion Ratio	Lower	Upper	
104	100		
78	58.6	44.6	66.8
103	49.2	37.4	56.0



#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_1

ClientSampleId :

VSTDIC0.5

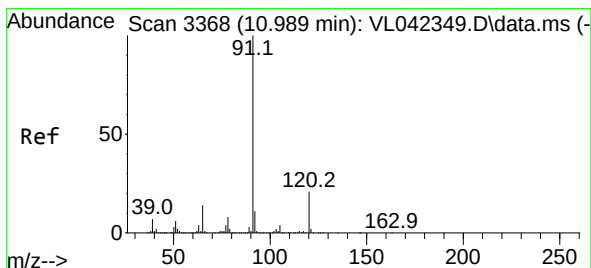
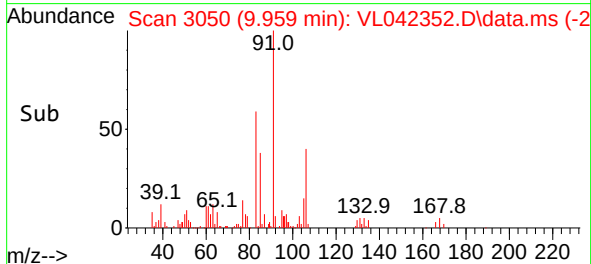
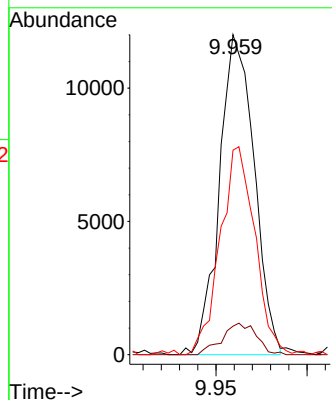
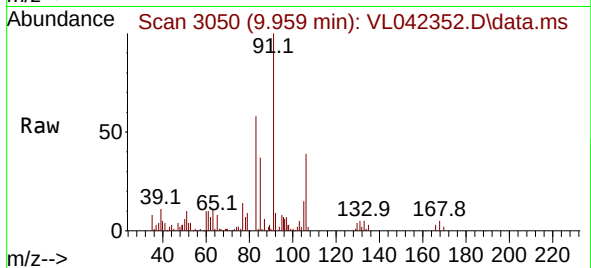
Tgt Ion: 83 Resp: 15920

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

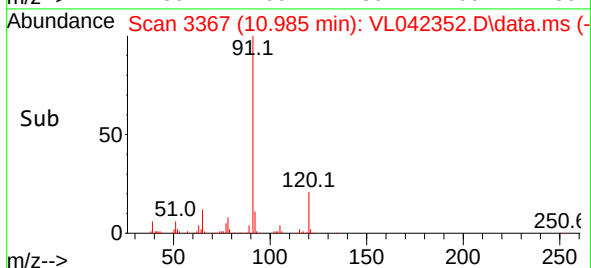
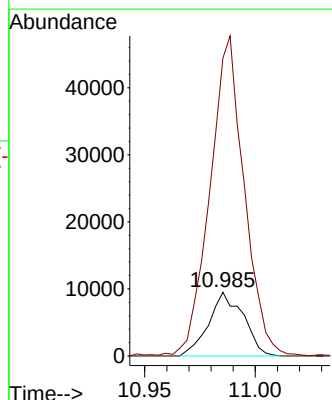
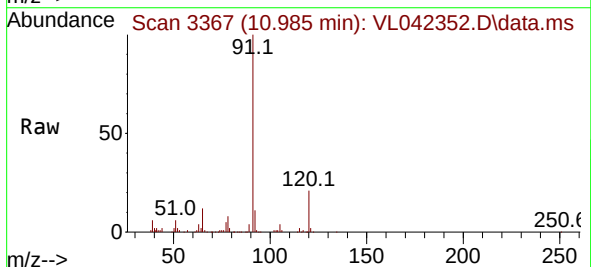
Acq: 17 Apr 2025 11:19

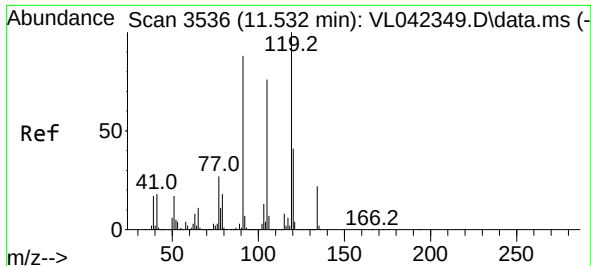
Tgt Ion: 120 Resp: 10369

Ion Ratio Lower Upper

120 100

91 499.6 392.4 588.6

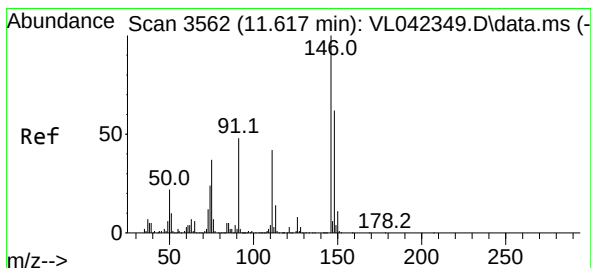
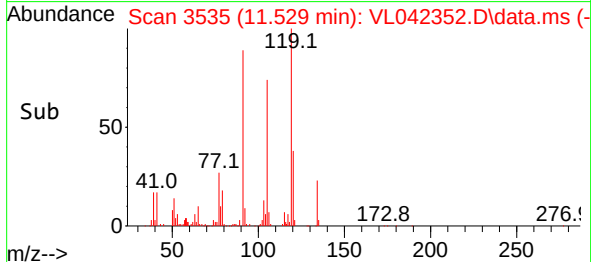
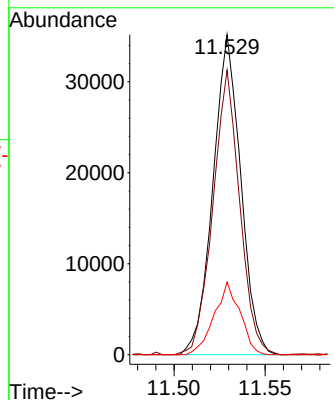
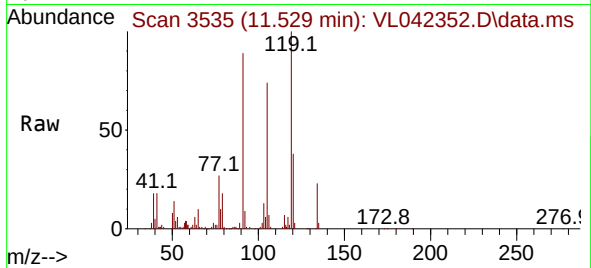




#65
tert-Butylbenzene
Concen: 0.535 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

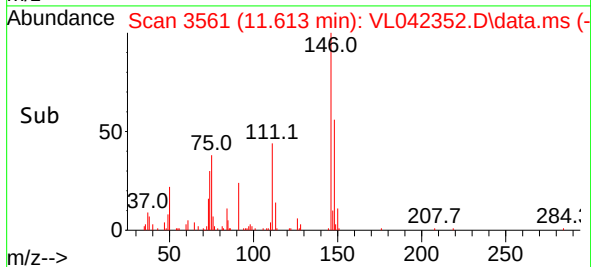
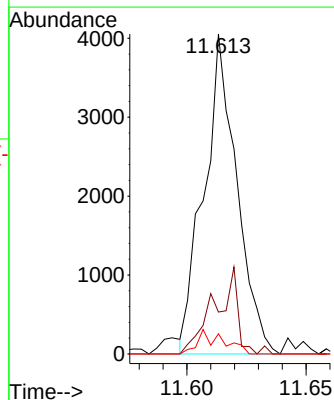
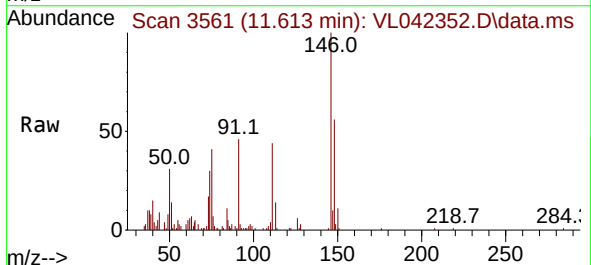
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

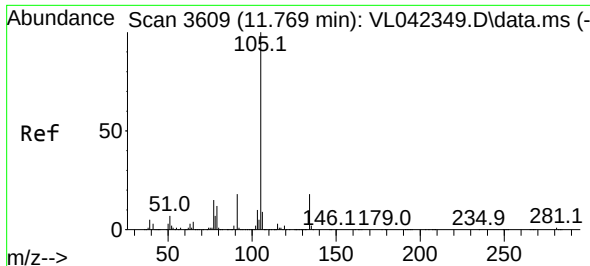
Tgt Ion:119 Resp: 37294
Ion Ratio Lower Upper
119 100
91 85.8 74.6 111.8
134 21.1 18.8 28.2



#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# 3178

Delta R.T. -0.003 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Instrument :

MSVOA_1

ClientSampleId :

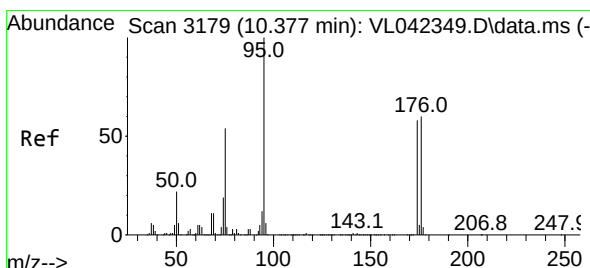
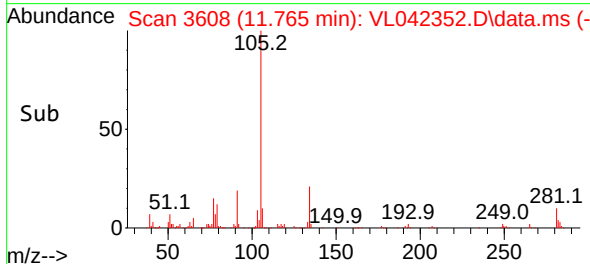
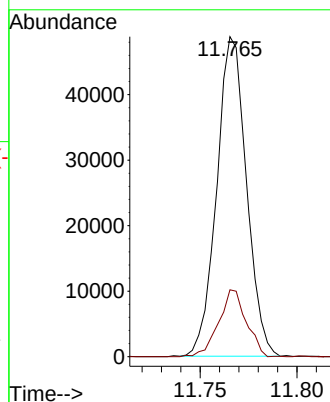
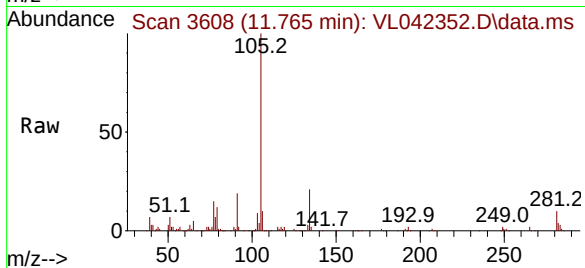
VSTDIC0.5

Tgt Ion:105 Resp: 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

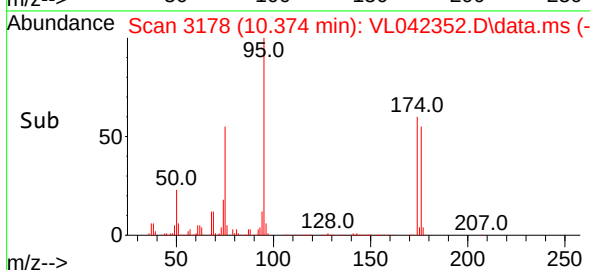
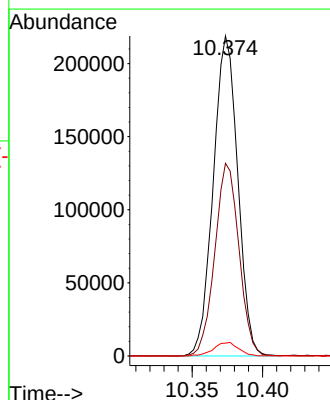
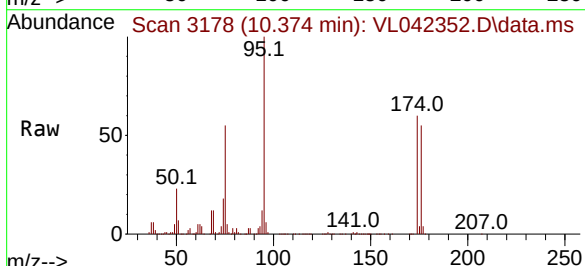
Tgt Ion: 95 Resp: 265161

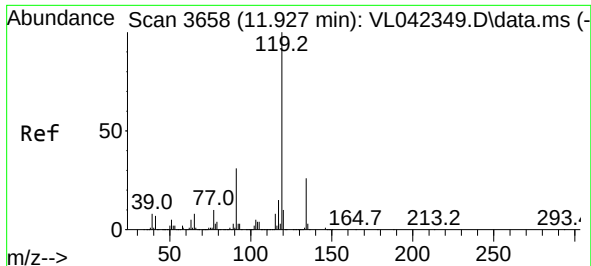
Ion Ratio Lower Upper

95 100

174 59.4 48.5 72.7

175 4.3 3.7 5.5

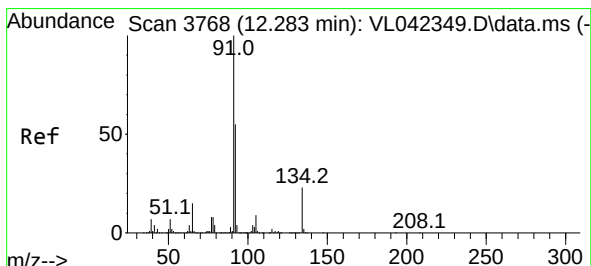
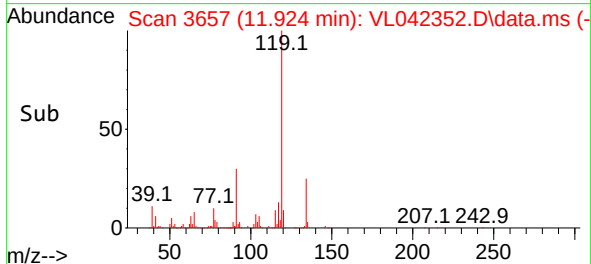
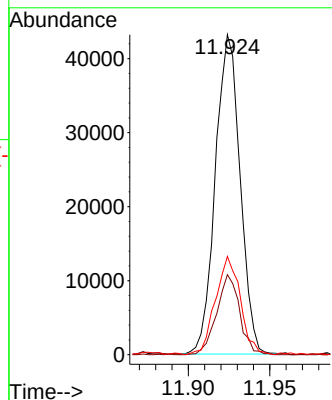
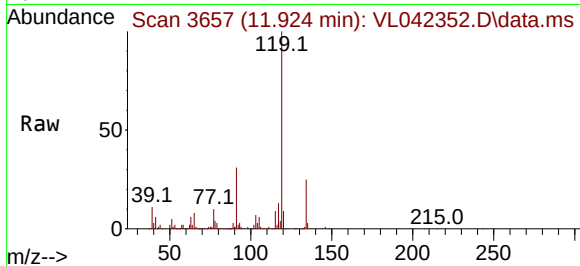




#69
p-Isopropyltoluene
Concen: 0.541 ppbv
RT: 11.924 min Scan# 3657
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

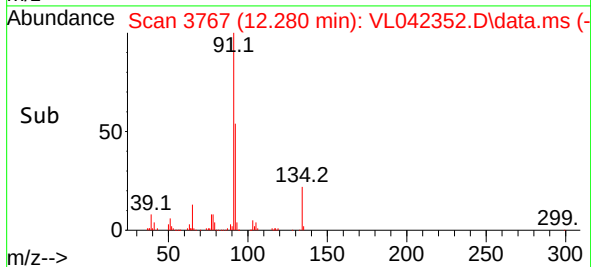
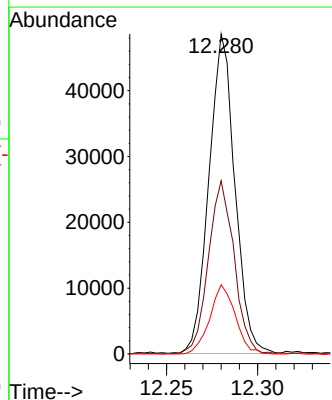
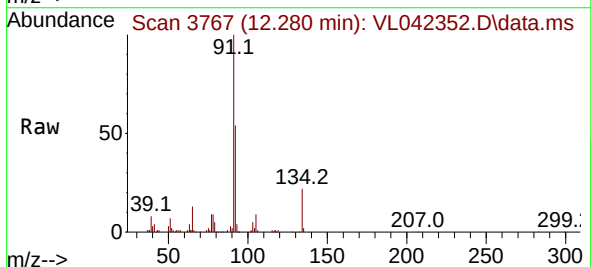
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

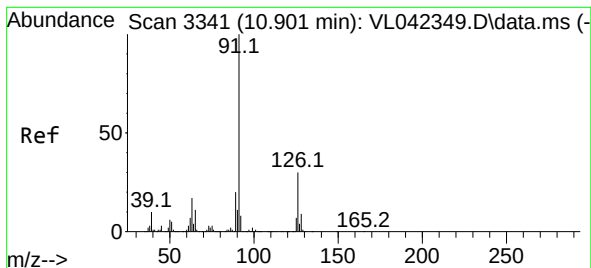
Tgt Ion:	119	Resp:	45574
Ion	Ratio	Lower	Upper
119	100		
134	23.3	20.0	30.0
91	31.4	24.4	36.6



#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

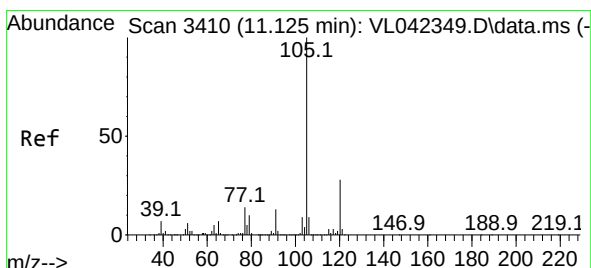
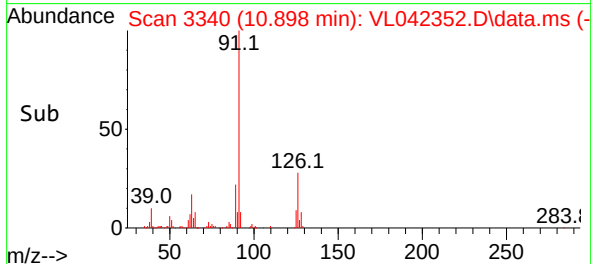
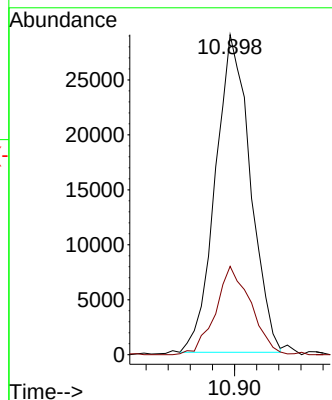
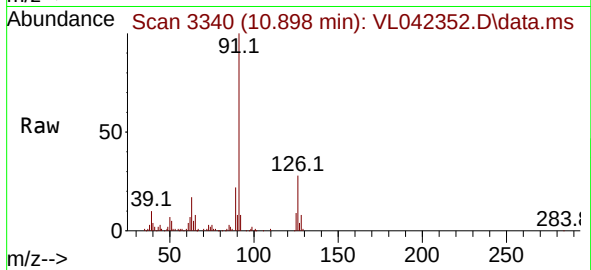




#71
2-Chlorotoluene
Concen: 0.533 ppbv
RT: 10.898 min Scan# 31709
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

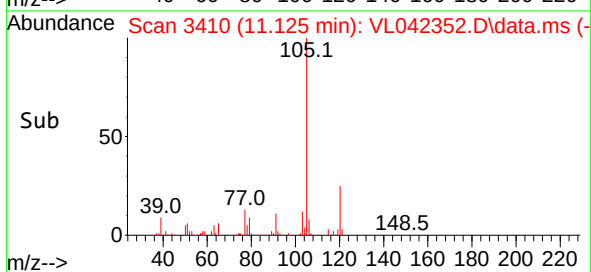
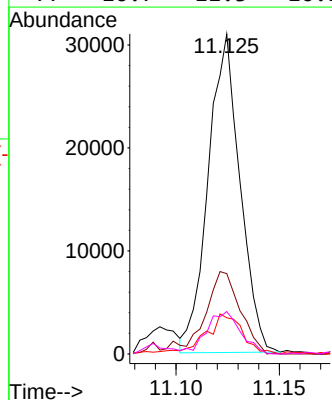
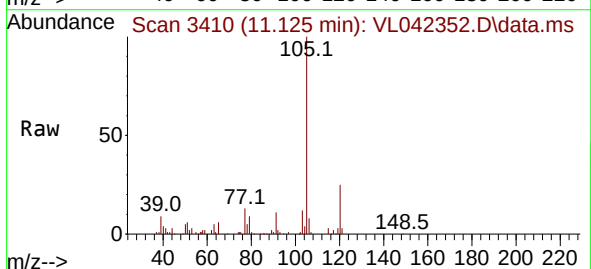
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

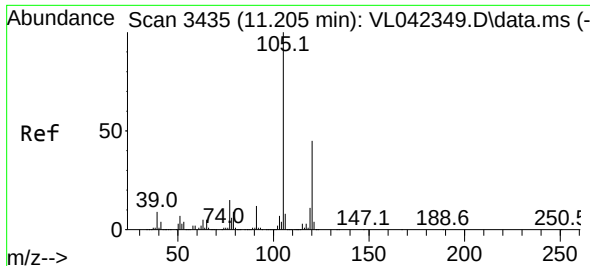
Tgt Ion: 91 Resp: 31709
Ion Ratio Lower Upper
91 100
126 28.3 11.4 45.4



#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

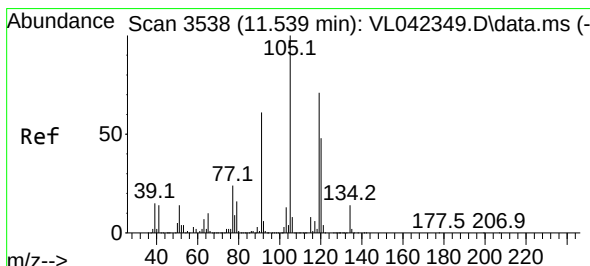
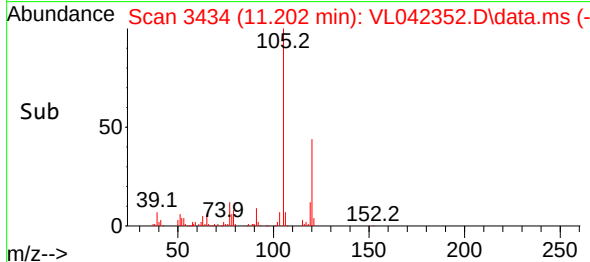
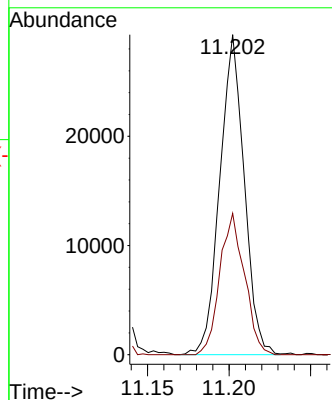
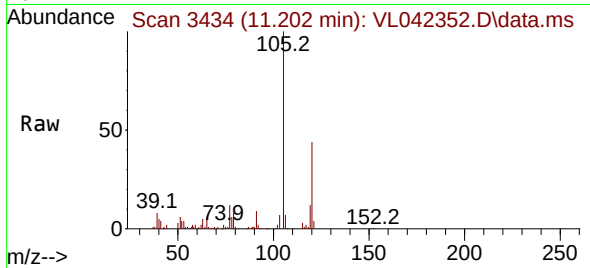




#73
1,3,5-Trimethylbenzene
Concen: 0.546 ppbv
RT: 11.202 min Scan# 3435
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

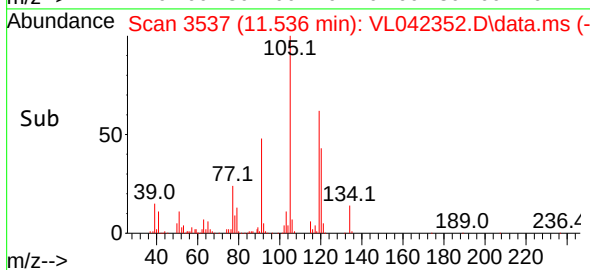
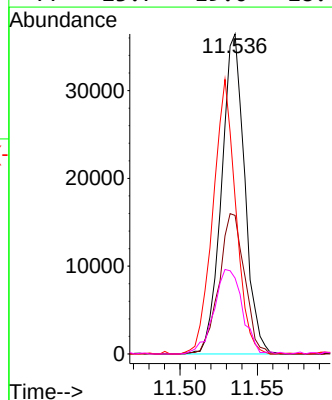
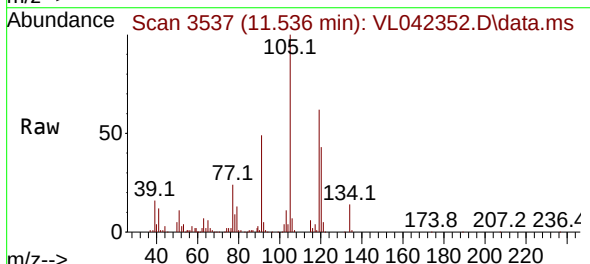
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

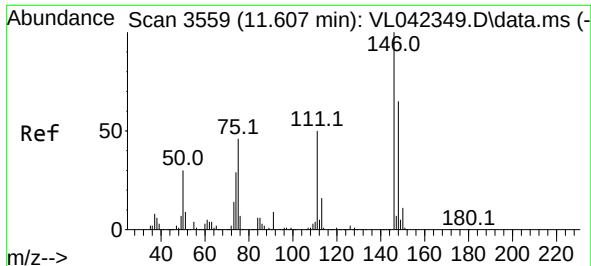
Tgt Ion:105 Resp: 30464
Ion Ratio Lower Upper
105 100
120 44.1 35.6 53.4



#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

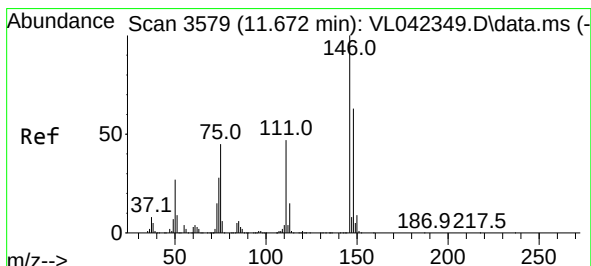
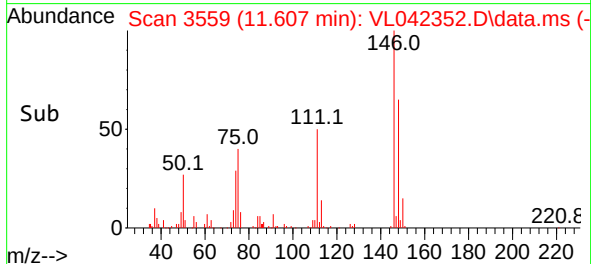
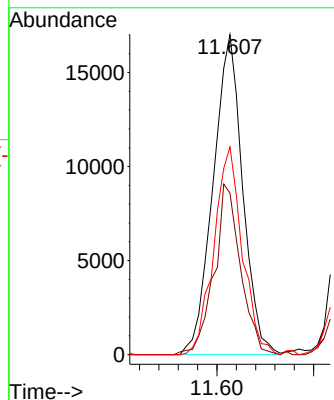
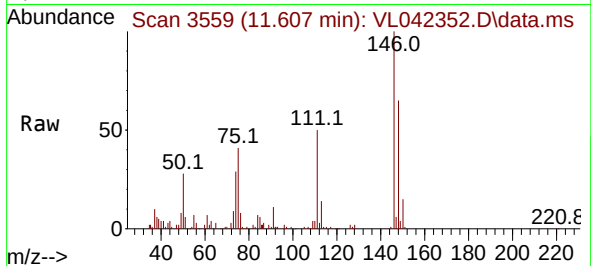




#75
1,3-Dichlorobenzene
Concen: 0.531 ppbv
RT: 11.607 min Scan# 3559
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

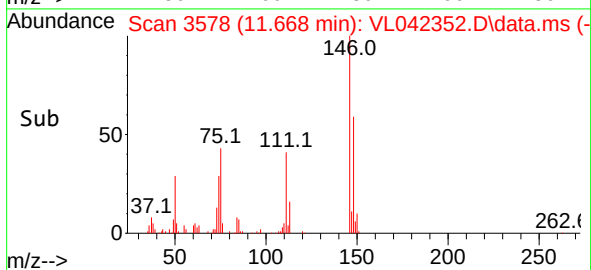
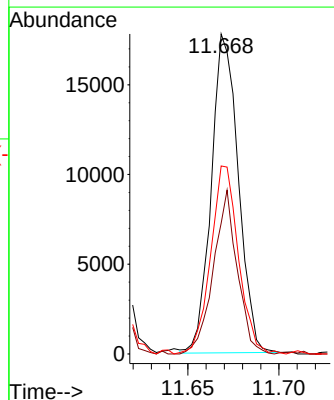
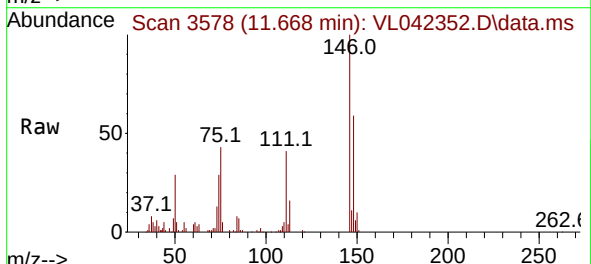
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

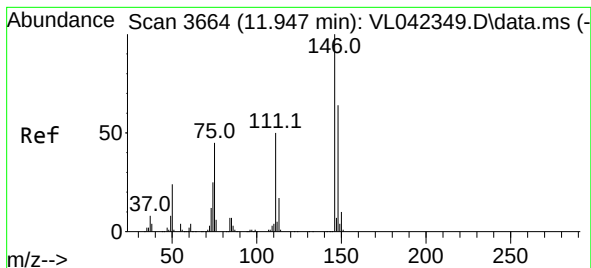
Tgt Ion	Ratio	Lower	Upper
146	100		
111	47.9	24.3	72.8
148	62.9	31.6	94.8



#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	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# 3

Delta R.T. -0.000 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

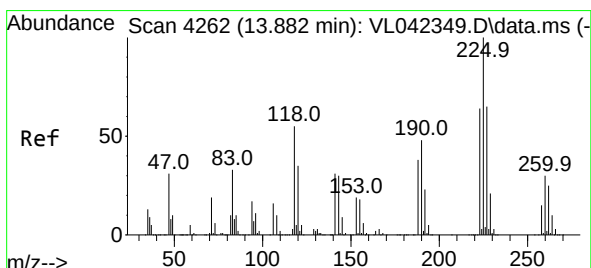
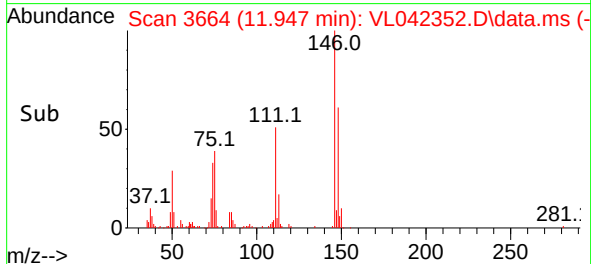
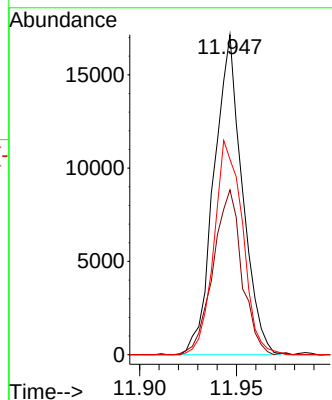
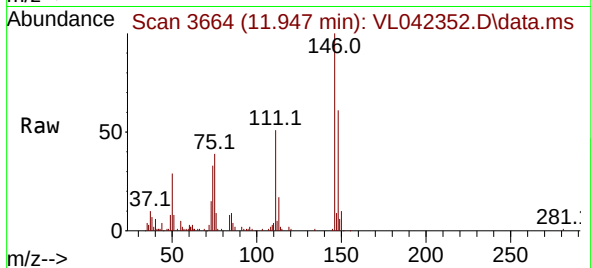
Tgt Ion:146 Resp: 17446

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

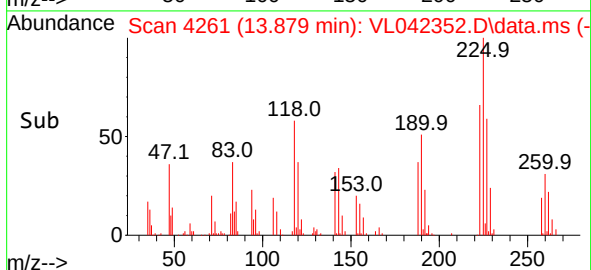
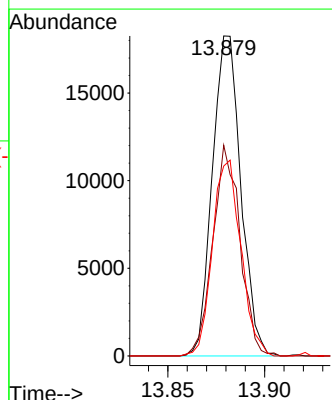
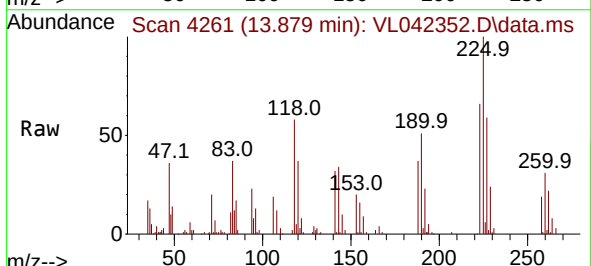
Tgt Ion:225 Resp: 18705

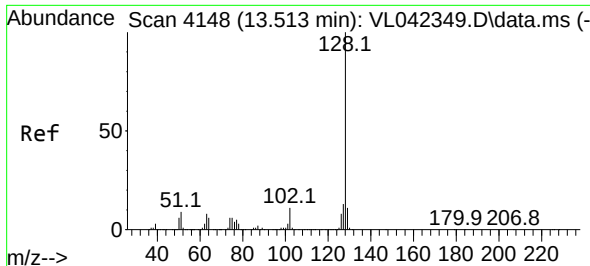
Ion Ratio Lower Upper

225 100

223 62.8 50.3 75.5

227 61.1 51.5 77.3

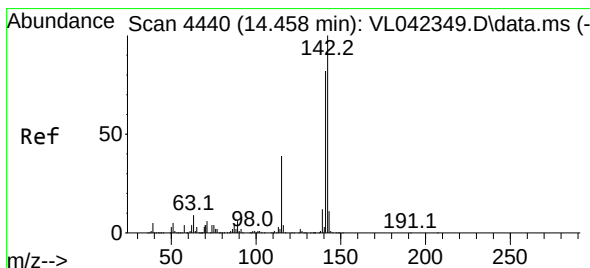
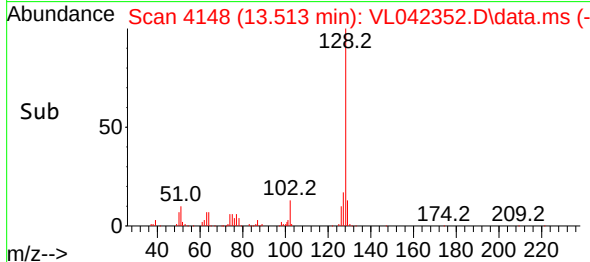
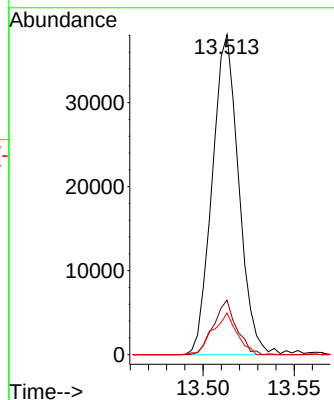
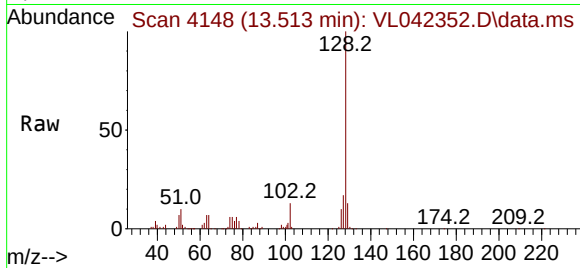




#79
Naphthalene
Concen: 0.494 ppbv
RT: 13.513 min Scan# 4148
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

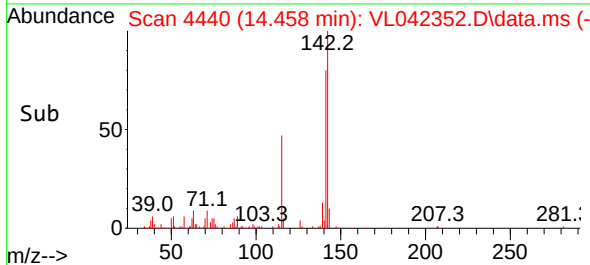
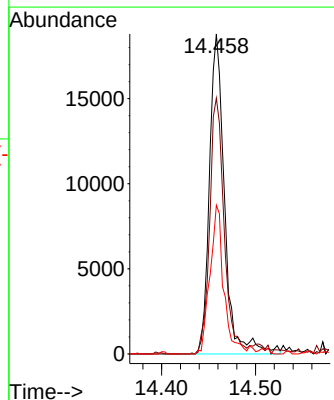
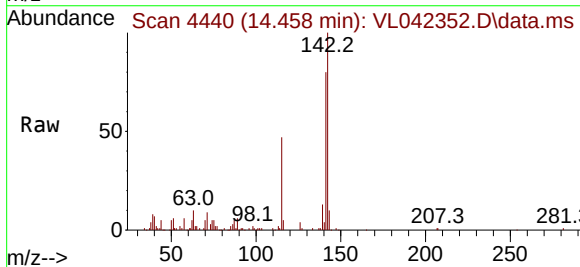
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

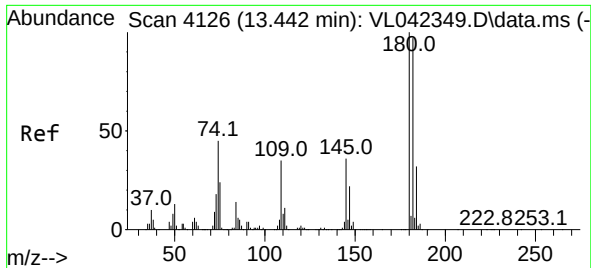
Tgt Ion:	128	Resp:	38521
Ion Ratio	Lower	Upper	
128	100		
127	17.0	10.6	15.8#
129	13.0	8.6	12.8#



#80
Naphthalene, 2-methyl-
Concen: 0.475 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:	142	Resp:	21076
Ion Ratio	Lower	Upper	
142	100		
141	79.2	66.8	100.2
115	44.1	33.4	50.2





#81

1,2,4-Trichlorobenzene

Concen: 0.493 ppbv

RT: 13.442 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL042352.D

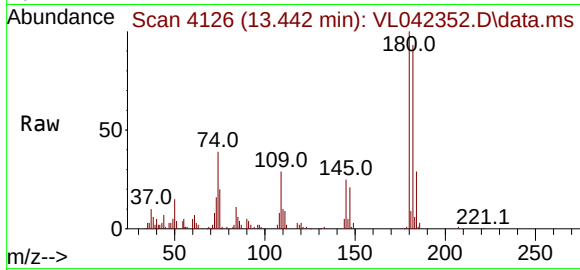
Acq: 17 Apr 2025 11:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.5



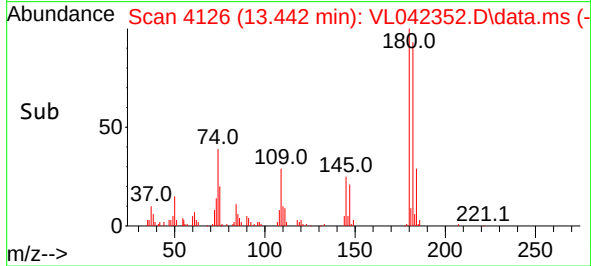
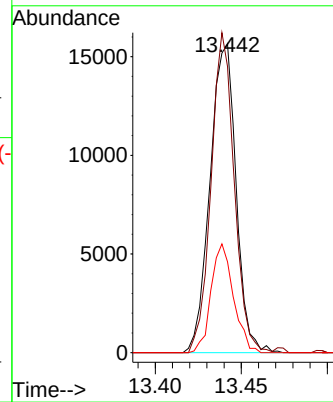
Tgt Ion:180 Resp: 16504

Ion Ratio Lower Upper

180 100

182 92.4 76.8 115.2

184 30.2 24.6 36.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042353.D
 Acq On : 17 Apr 2025 11:50
 Operator : SY/MD
 Sample : 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

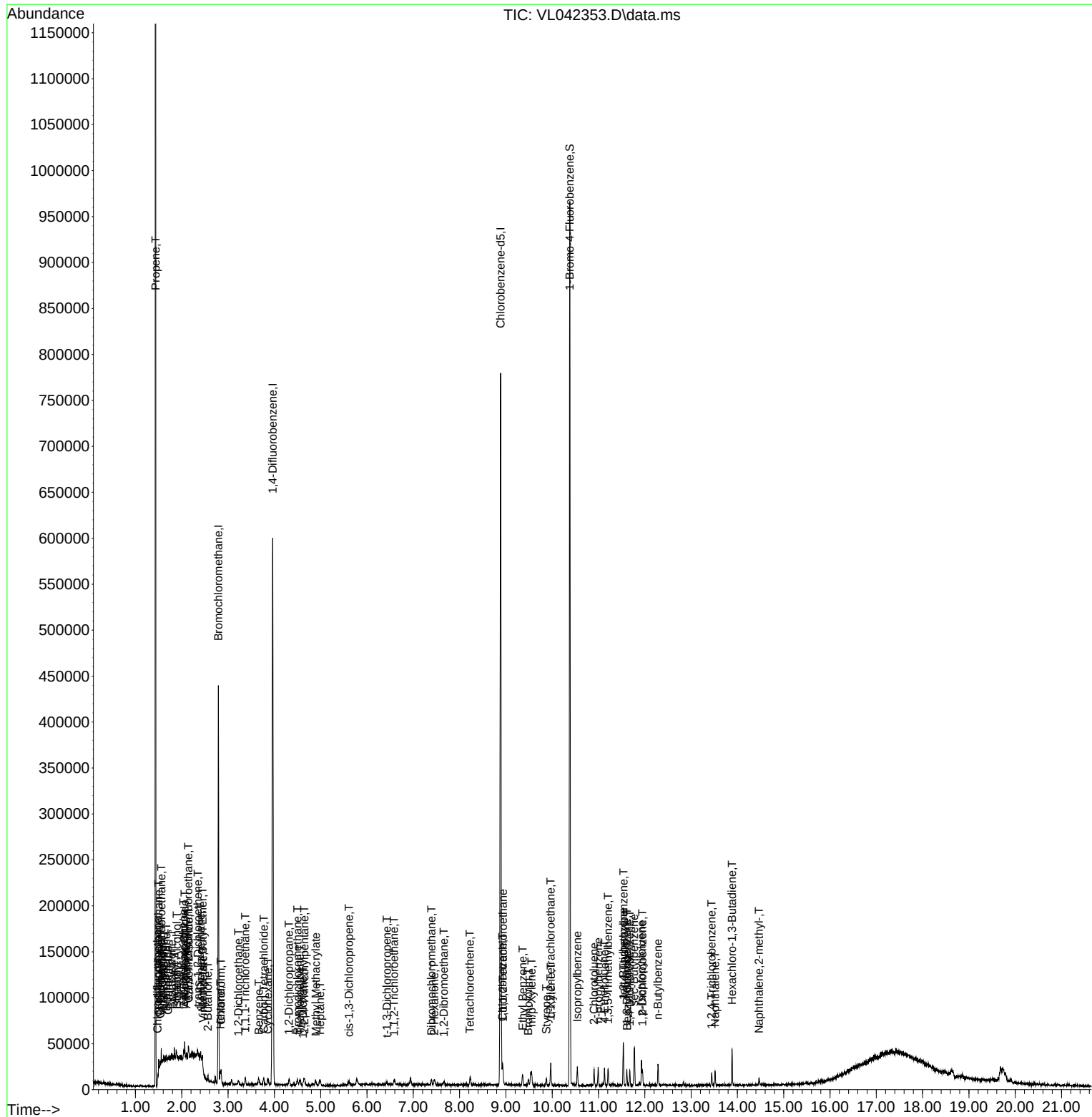
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
51) 2-Hexanone	7.455	43	4915	0.118	ppbv	#	99
52) Tetrachloroethene	8.222	164	957	0.065	ppbv		88
54) 1,2-Dibromoethane	7.662	107	1470	0.072	ppbv	#	75
56) 1,1,1,2-Tetrachloroethane	8.934	131	2031	0.107	ppbv	#	47
57) Chlorobenzene	8.924	112	3842	0.117	ppbv	#	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

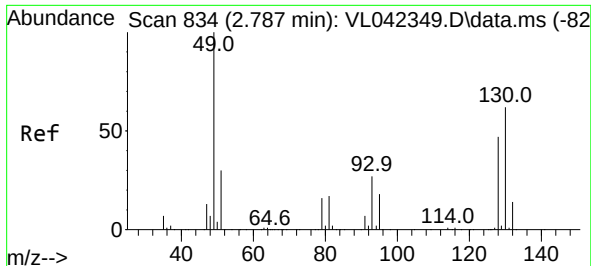
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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
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Response via : Initial Calibration

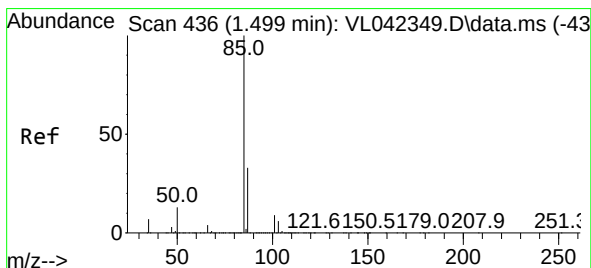
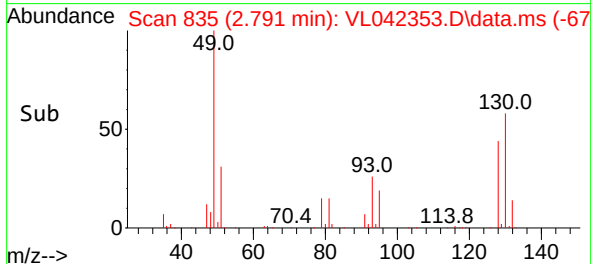
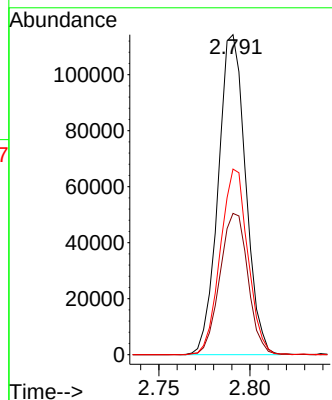
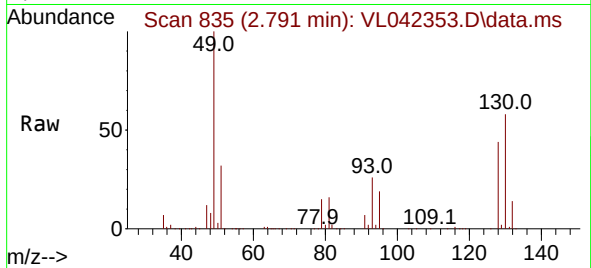




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.791 min Scan# 81
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

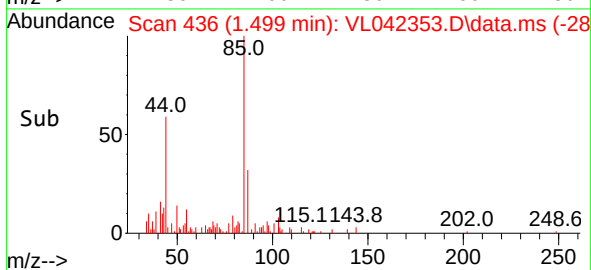
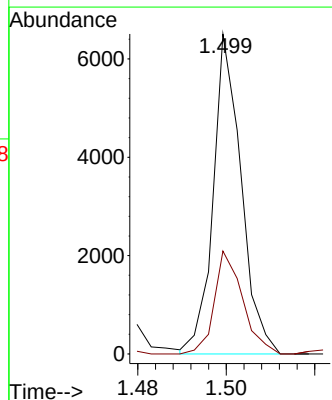
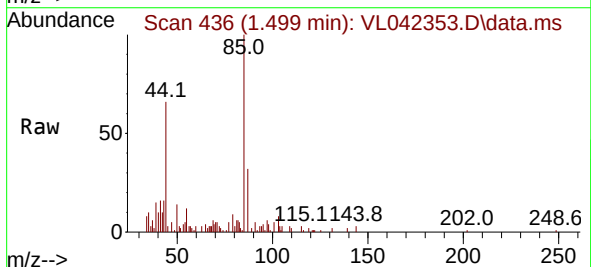
Instrument :
MSVOA_1
ClientSampleId :
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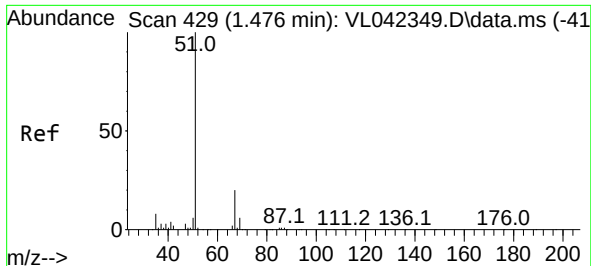
Tgt Ion: 49 Resp: 119461
Ion Ratio Lower Upper
49 100
128 45.3 22.8 68.4
130 58.3 29.3 88.0



#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

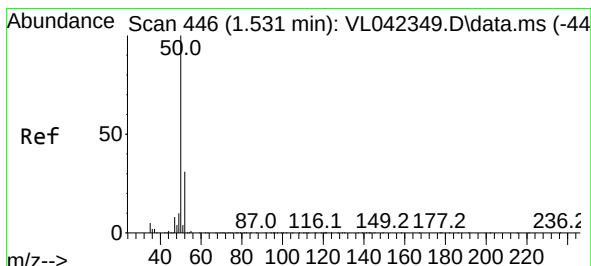
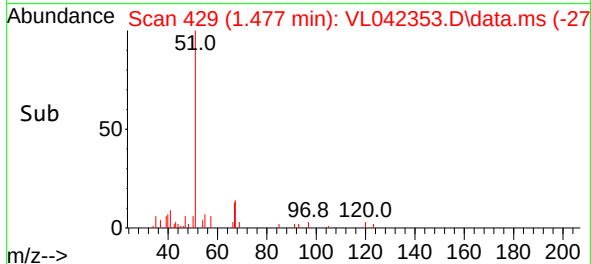
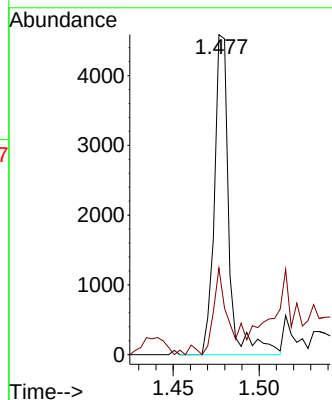
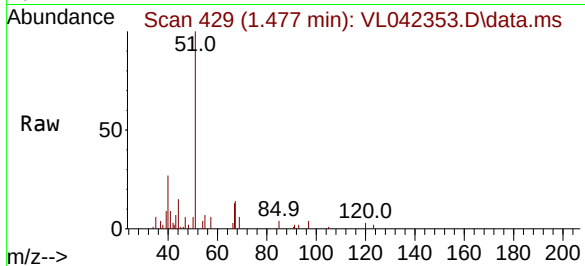




#3
Chlorodifluoromethane
Concen: 0.135 ppbv
RT: 1.477 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

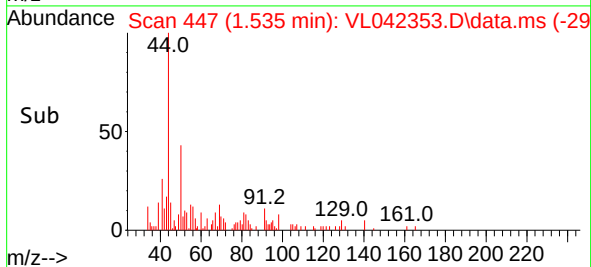
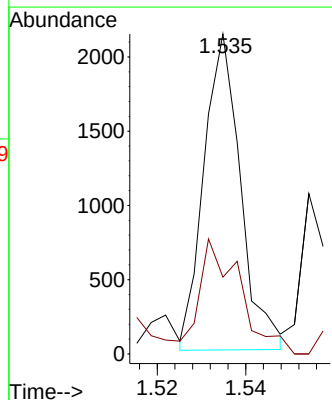
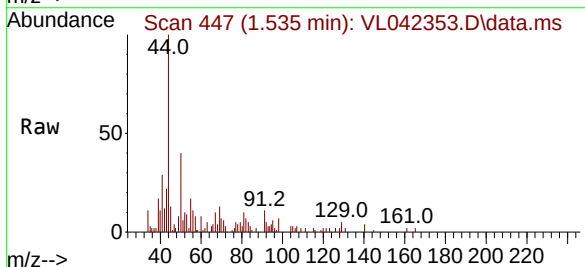
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

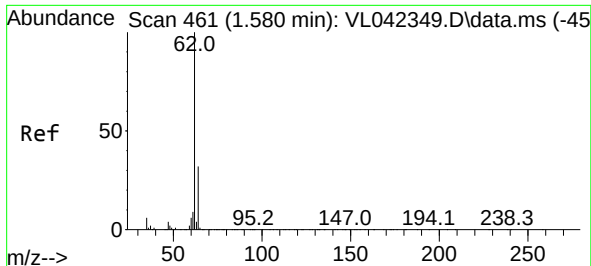
Tgt Ion: 51 Resp: 2706
Ion Ratio Lower Upper
51 100
67 24.5 16.2 24.4#



#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#

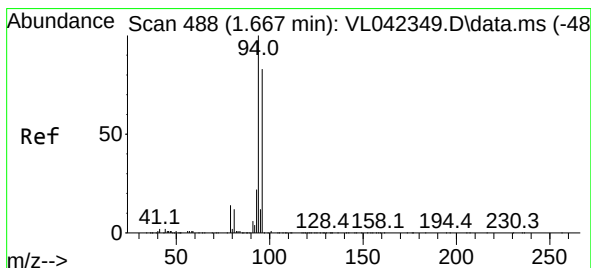
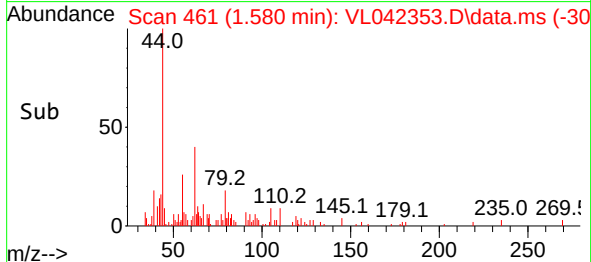
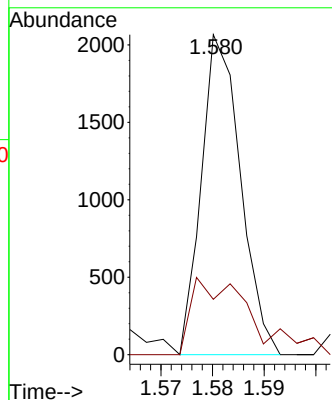
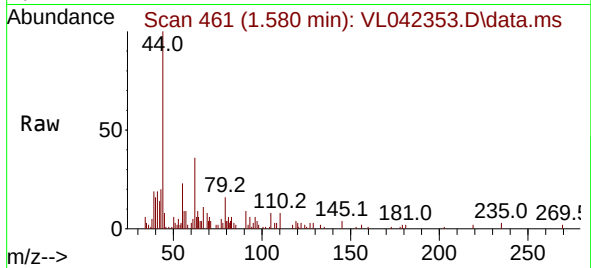




#5
 Vinyl Chloride
 Concen: 0.120 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. 0.000 min
 Lab File: VL042353.D
 Acq: 17 Apr 2025 11:50

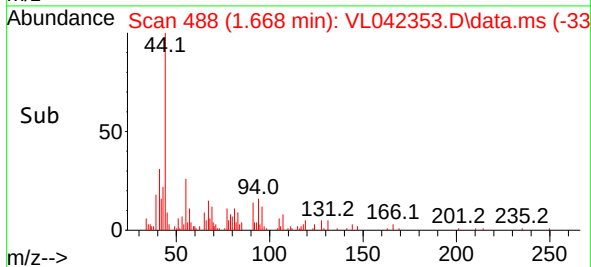
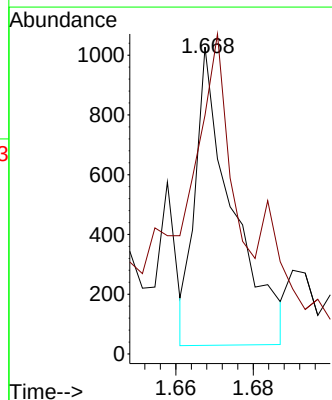
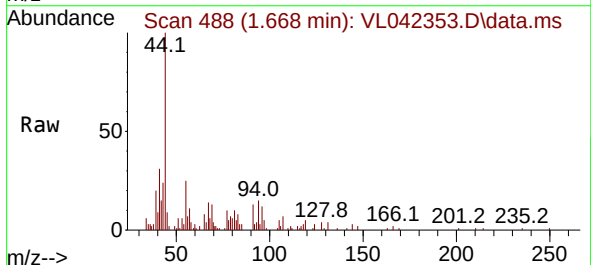
Instrument :
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 ClientSampleId :
 VSTDIC0.1

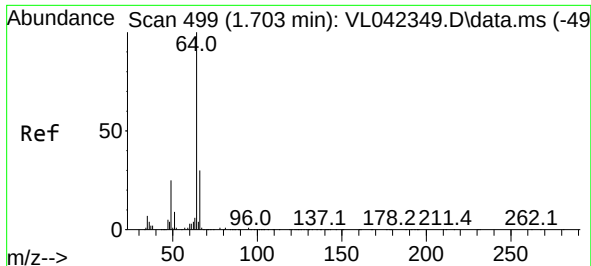
Tgt Ion: 62 Resp: 1088
 Ion Ratio Lower Upper
 62 100
 64 17.3 25.4 38.0#



#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#

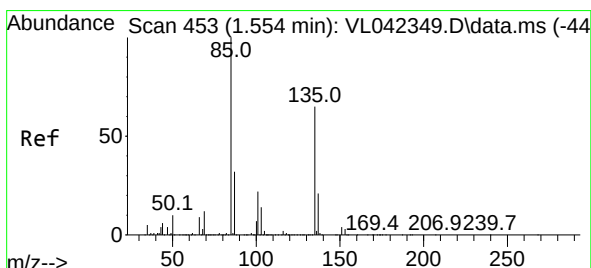
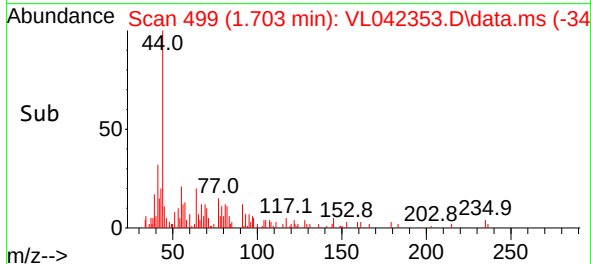
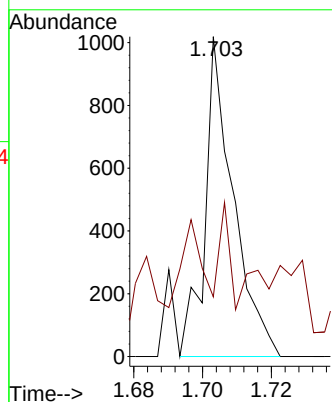
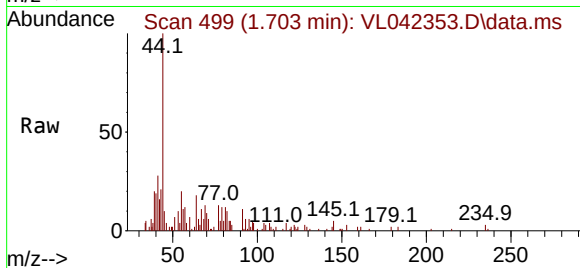




#7
Chloroethane
Concen: 0.176 ppbv
RT: 1.703 min Scan# 499
Delta R.T. 0.000 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

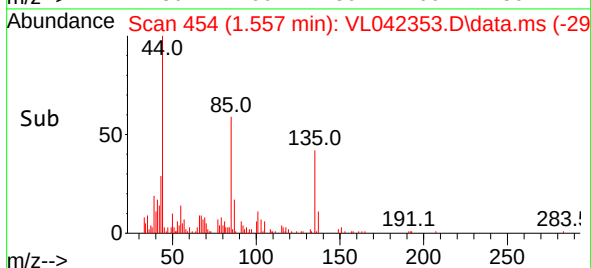
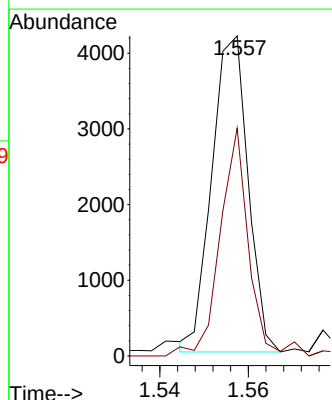
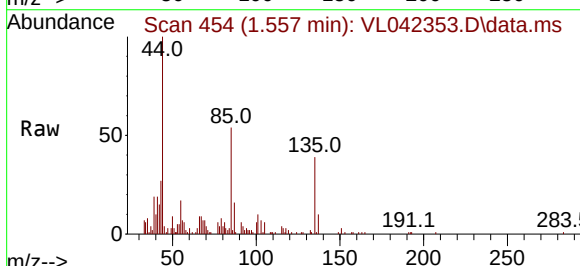
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

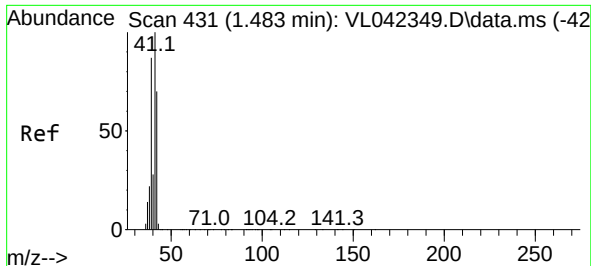
Tgt Ion: 64 Resp: 579
Ion Ratio Lower Upper
64 100
66 18.6 24.6 37.0#



#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

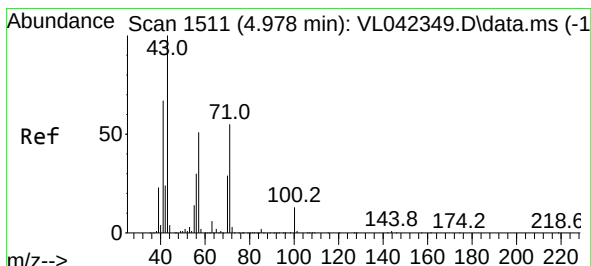
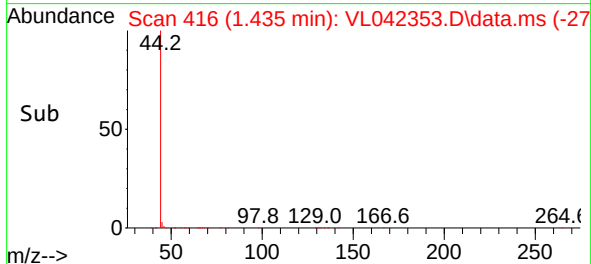
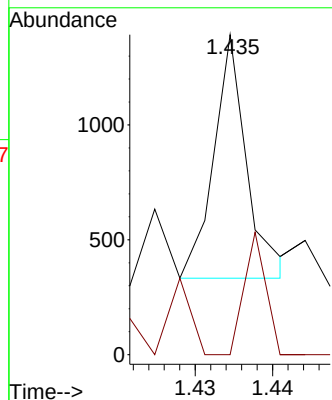
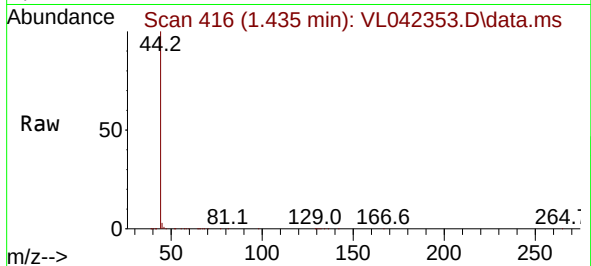




#9
 Propene
 Concen: 0.034 ppbv
 RT: 1.435 min Scan# 41
 Delta R.T. -0.048 min
 Lab File: VL042353.D
 Acq: 17 Apr 2025 11:50

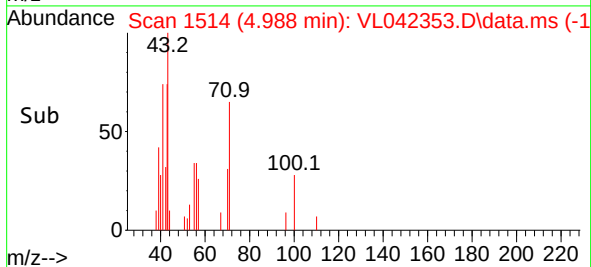
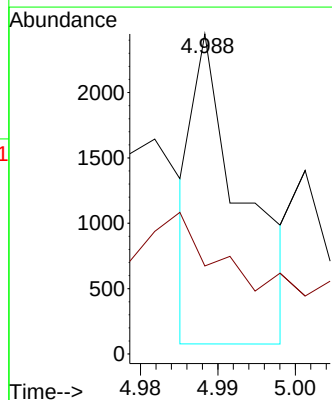
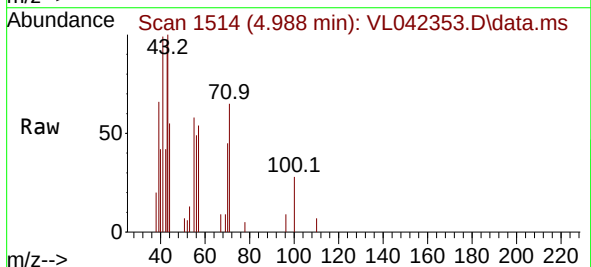
Instrument :
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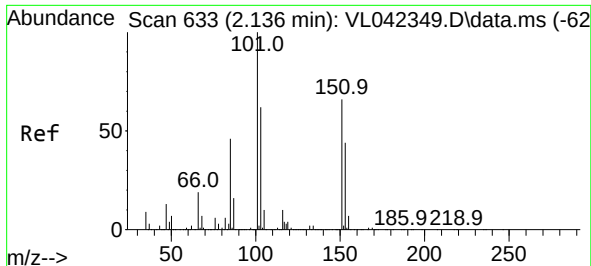
Tgt Ion: 41 Resp: 314
 Ion Ratio Lower Upper
 41 100
 42 78.7 56.2 84.4



#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#

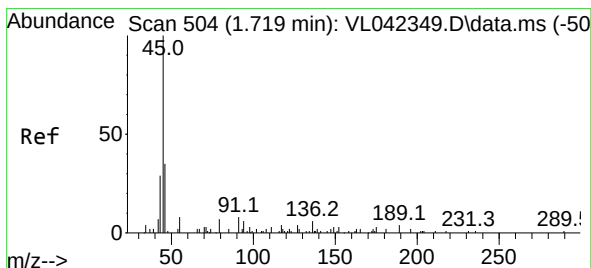
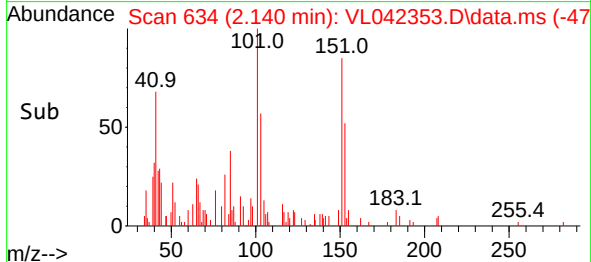
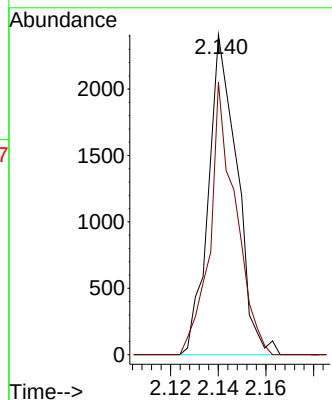
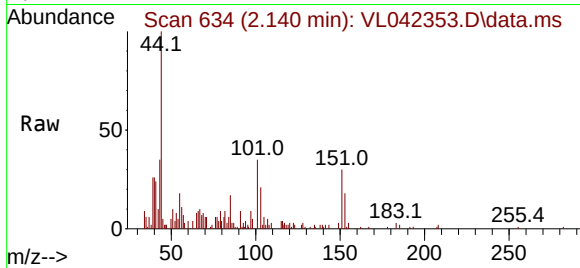




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.123 ppbv
RT: 2.140 min Scan# 61
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

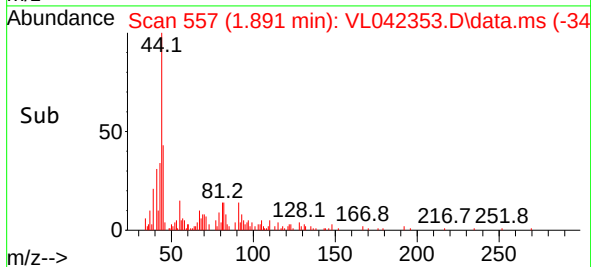
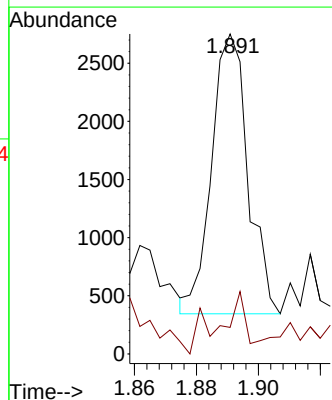
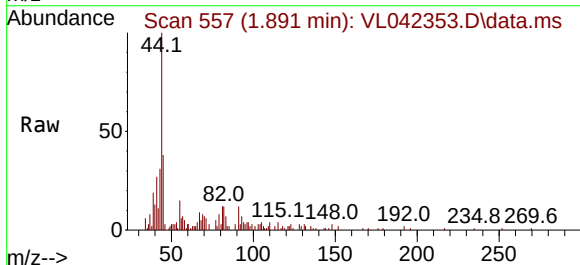
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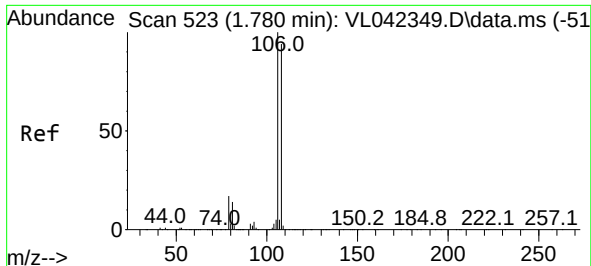
Tgt Ion:101 Resp: 2017
Ion Ratio Lower Upper
101 100
151 76.2 57.0 85.6



#13
Ethanol
Concen: 2.618 ppbv
RT: 1.891 min Scan# 557
Delta R.T. 0.172 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 45 Resp: 1958
Ion Ratio Lower Upper
45 100
46 0.0 21.9 87.7#

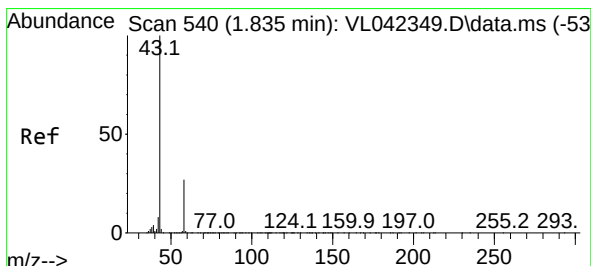
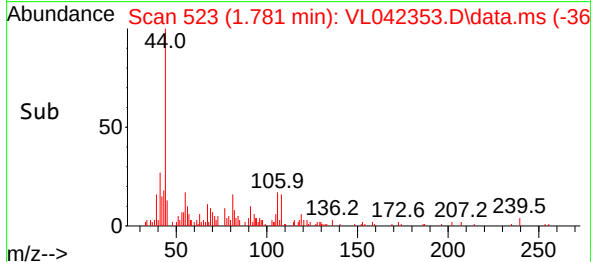
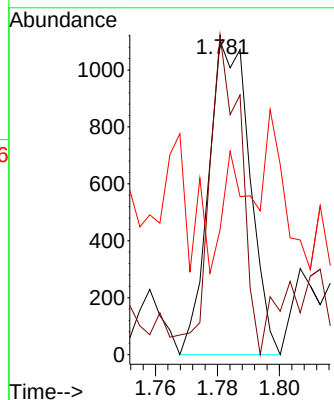
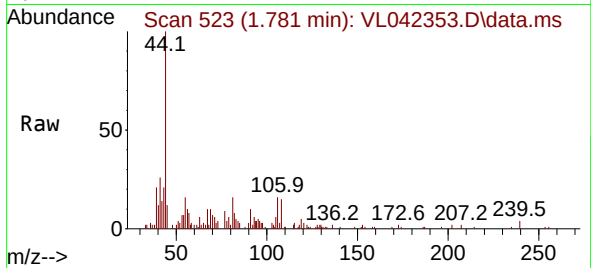




#14
Bromoethene
Concen: 0.164 ppbv
RT: 1.781 min Scan# 51
Delta R.T. 0.000 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

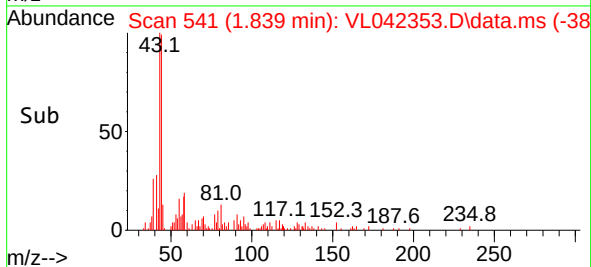
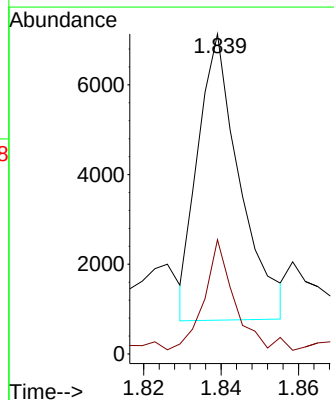
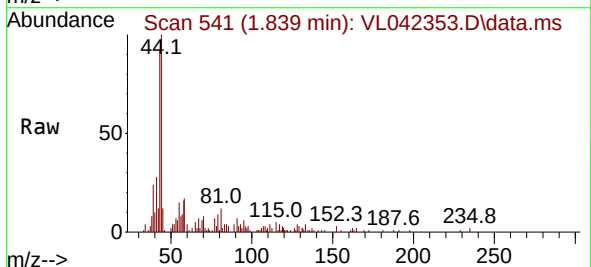
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

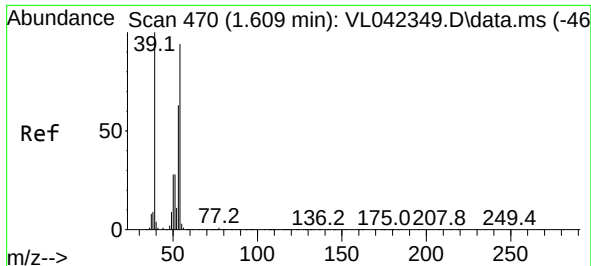
Tgt Ion:108 Resp: 1015
Ion Ratio Lower Upper
108 100
106 128.3 85.9 128.9
79 0.0 13.9 20.9#



#15
Acetone
Concen: 0.245 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 43 Resp: 4783
Ion Ratio Lower Upper
43 100
58 37.5 22.4 33.6#





#16

1,3-Butadiene

Concen: 0.193 ppbv

RT: 1.609 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL042353.D

Acq: 17 Apr 2025 11:50

Instrument :

MSVOA_1

ClientSampleId :

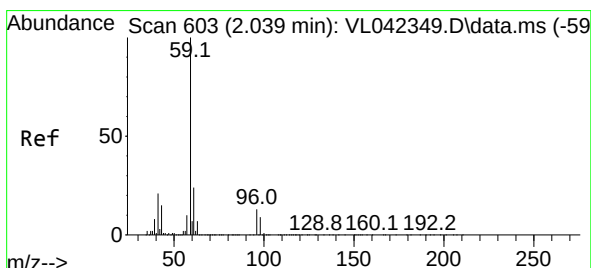
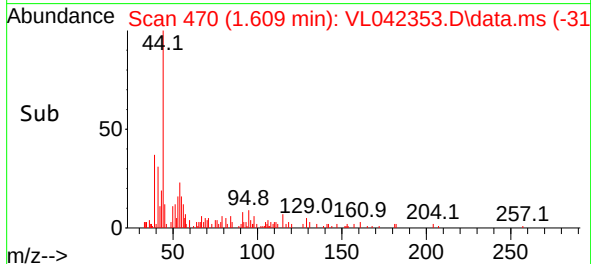
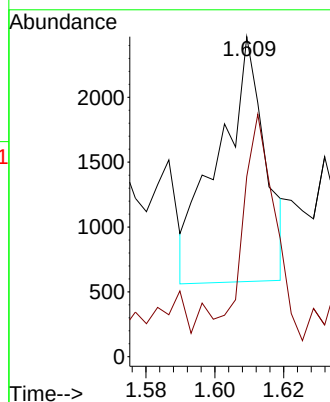
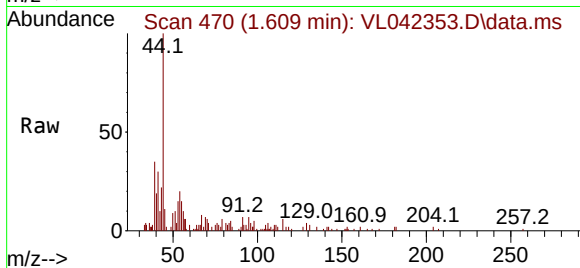
VSTDIC0.1

Tgt Ion: 39 Resp: 1776

Ion Ratio Lower Upper

39 100

54 128.7 64.9 97.3#



#17

tert-Butyl alcohol

Concen: 0.129 ppbv

RT: 2.049 min Scan# 606

Delta R.T. 0.010 min

Lab File: VL042353.D

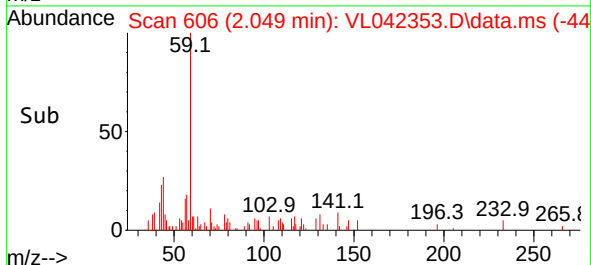
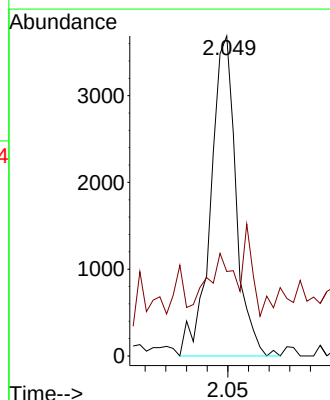
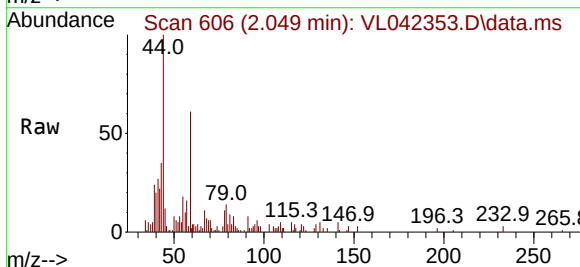
Acq: 17 Apr 2025 11:50

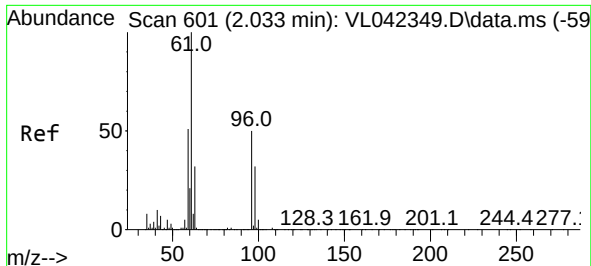
Tgt Ion: 59 Resp: 3130

Ion Ratio Lower Upper

59 100

57 46.5 8.7 13.1#

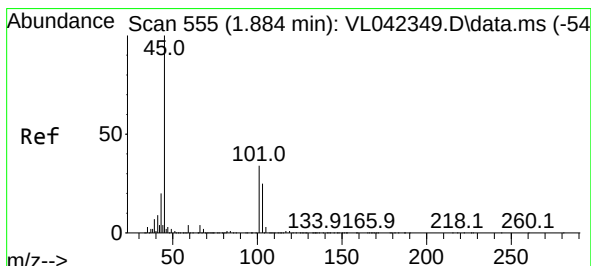
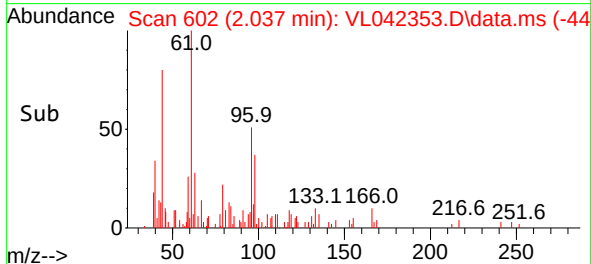
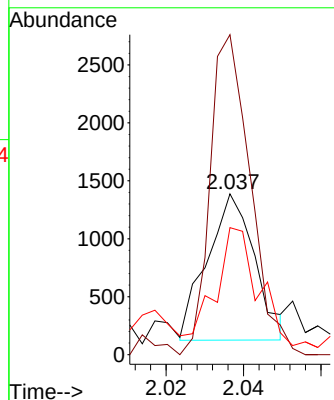
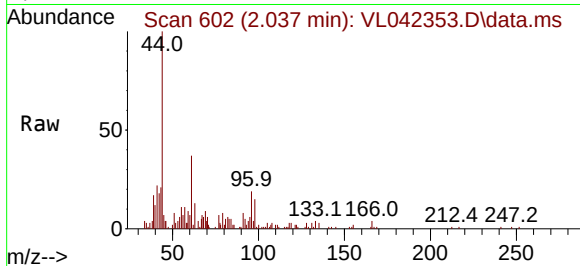




#18
1,1-Dichloroethene
Concen: 0.136 ppbv
RT: 2.037 min Scan# 601
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

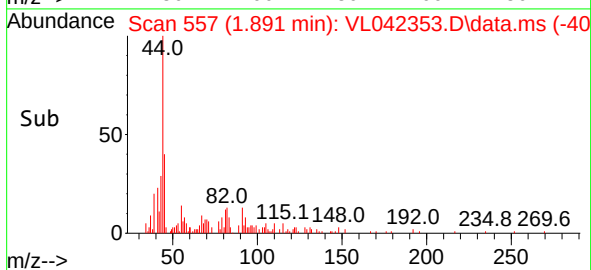
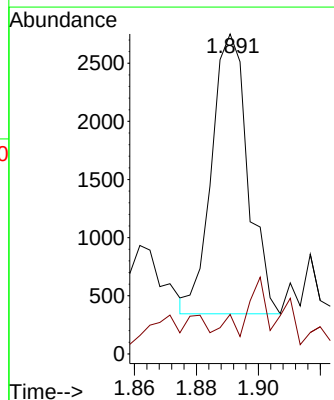
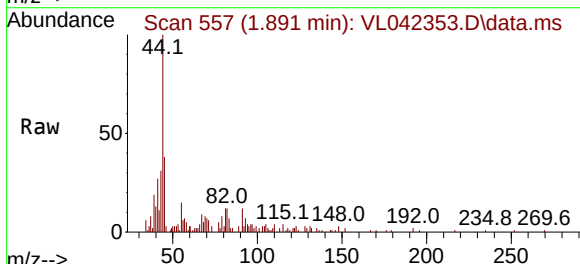
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

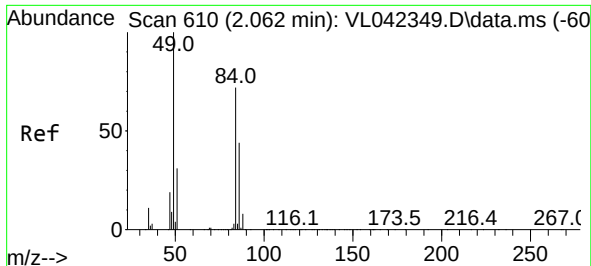
Tgt Ion: 96 Resp: 1074
Ion Ratio Lower Upper
96 100
61 222.5 160.2 240.2
98 75.2 51.0 76.4



#19
Isopropyl Alcohol
Concen: 0.180 ppbv
RT: 1.891 min Scan# 557
Delta R.T. 0.007 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 45 Resp: 1958
Ion Ratio Lower Upper
45 100
58 49.5 34.5 51.7

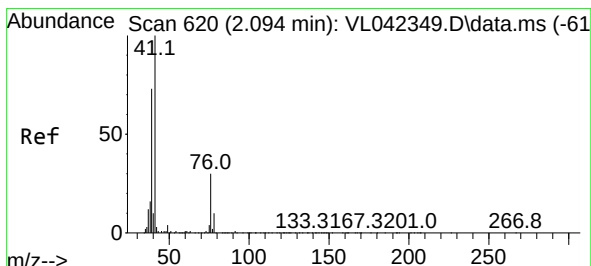
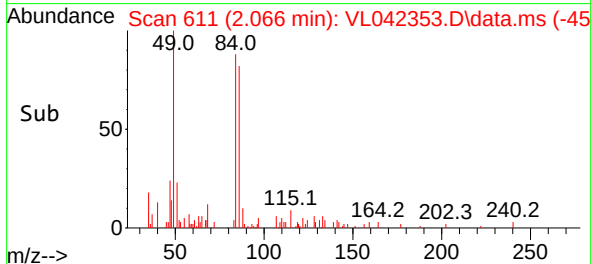
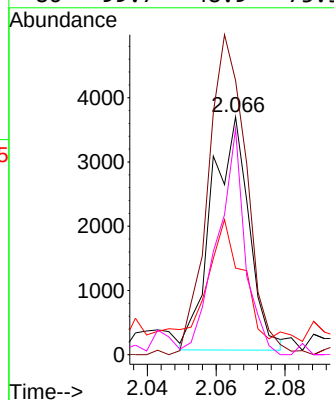
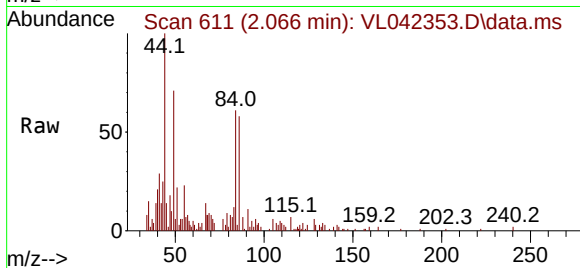




#20
Methylene Chloride
Concen: 0.358 ppbv
RT: 2.066 min Scan# 610
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

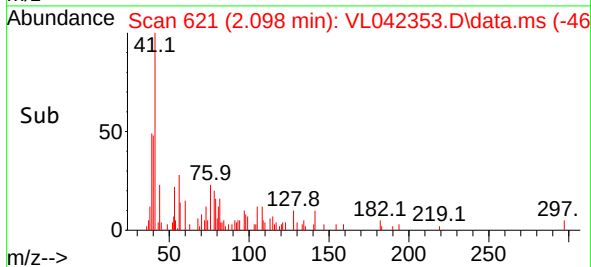
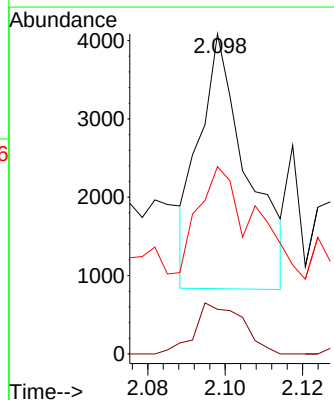
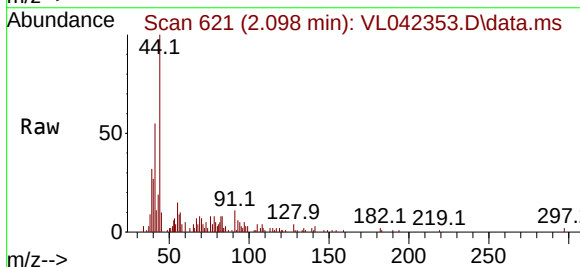
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

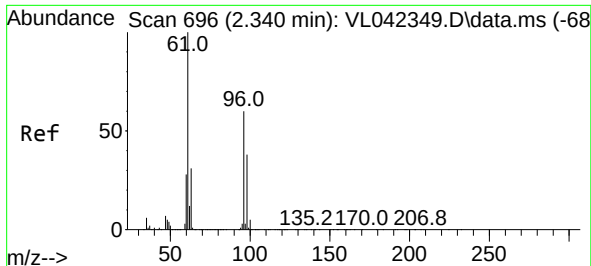
Tgt Ion:	84	Resp:	2741
Ion	Ratio	Lower	Upper
84	100		
49	119.3	111.6	167.4
51	28.2	35.1	52.7#
86	99.7	48.9	73.3#



#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#

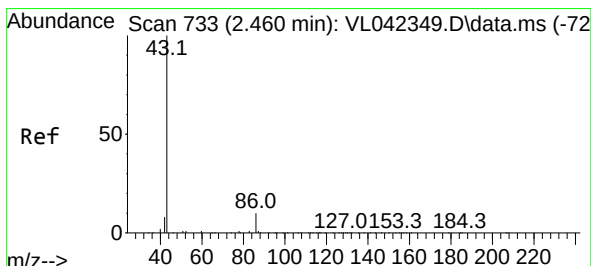
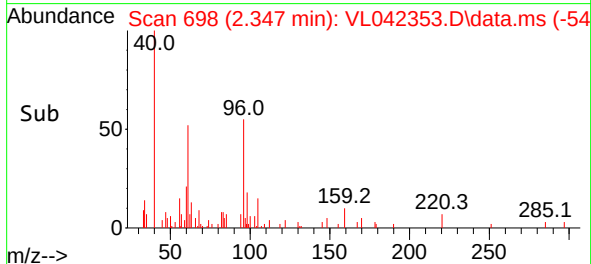
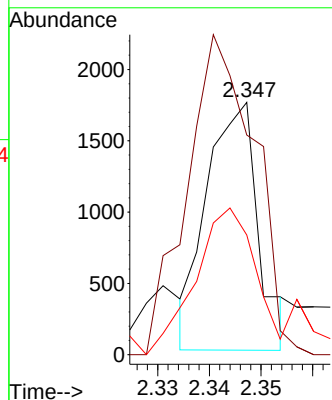
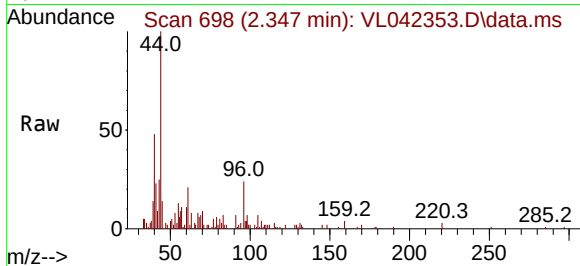




#22
trans-1,2-Dichloroethene
Concen: 0.138 ppbv
RT: 2.347 min Scan# 61
Delta R.T. 0.007 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

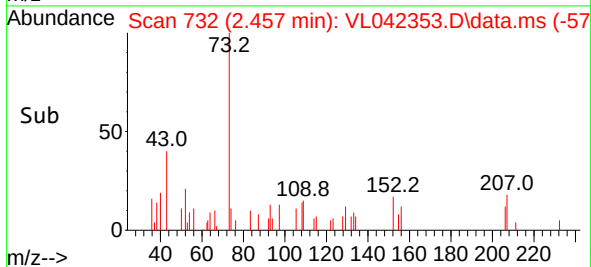
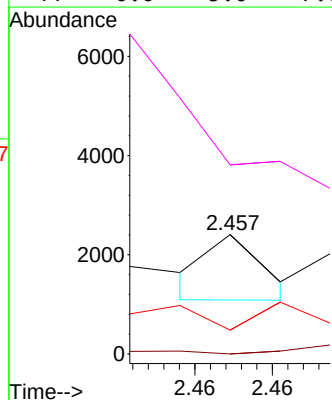
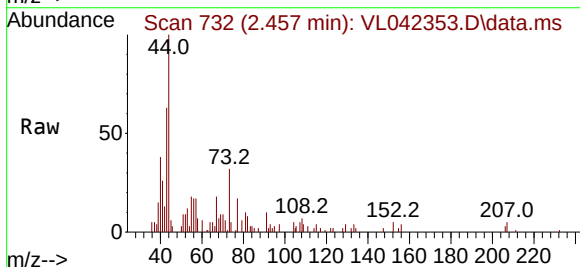
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

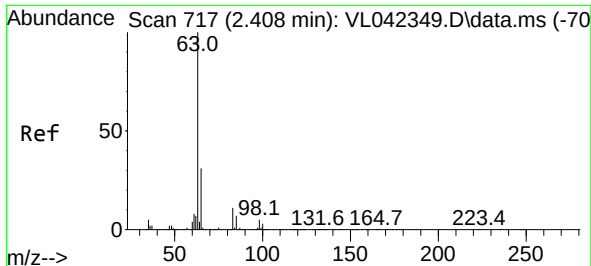
Tgt Ion: 96 Resp: 1201
Ion Ratio Lower Upper
96 100
61 99.5 133.7 200.5#
98 52.9 50.3 75.5



#23
Vinyl Acetate
Concen: 0.041 ppbv
RT: 2.457 min Scan# 732
Delta R.T. -0.003 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 43 Resp: 326
Ion Ratio Lower Upper
43 100
86 0.0 6.5 9.7#
42 0.0 7.8 11.8#
44 0.0 5.0 7.6#

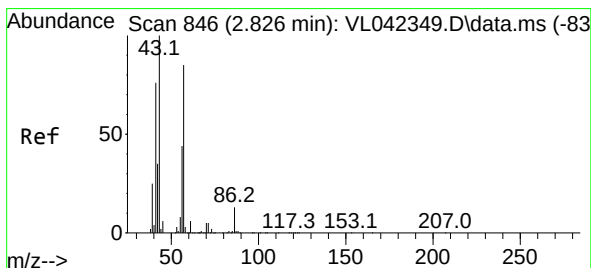
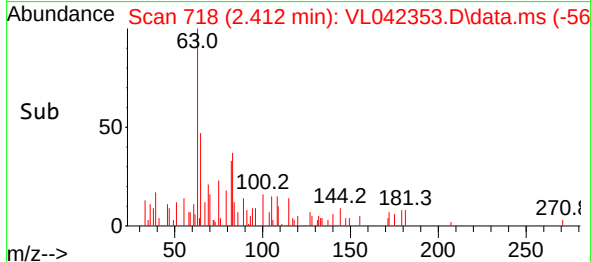
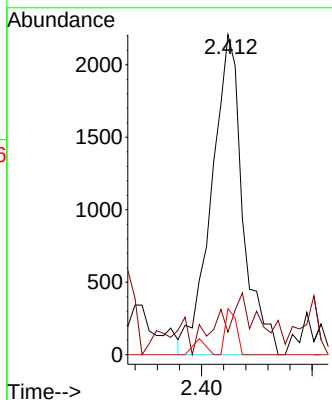
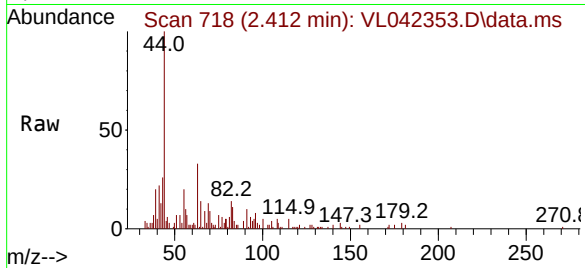




#24
1,1-Dichloroethane
Concen: 0.131 ppbv
RT: 2.412 min Scan# 718
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

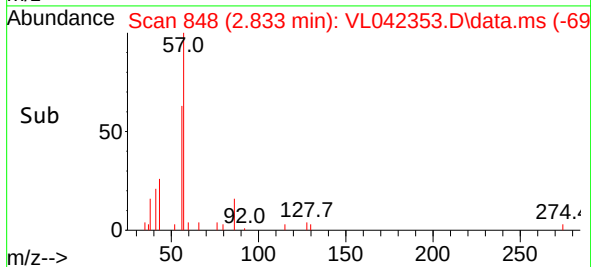
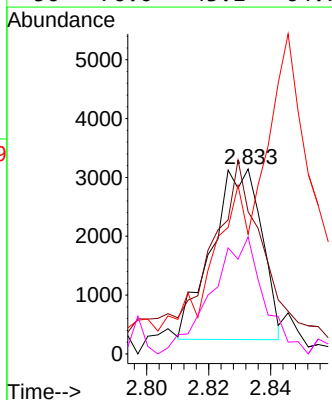
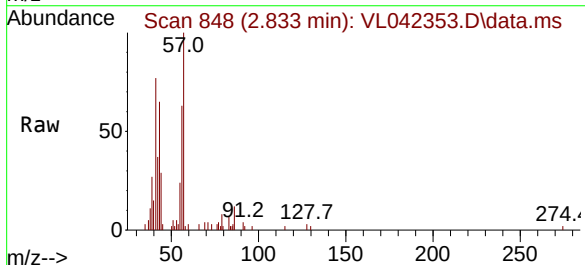
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

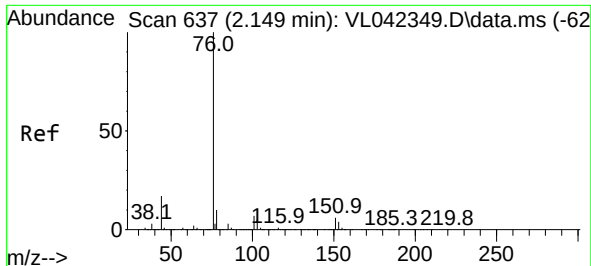
Tgt Ion	63	Resp	2169
Ion	Ratio	Lower	Upper
63	100		
98	0.0	2.3	6.8#
100	14.4	1.6	4.8#



#26
Hexane
Concen: 0.167 ppbv
RT: 2.833 min Scan# 848
Delta R.T. 0.007 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion	57	Resp	3260
Ion	Ratio	Lower	Upper
57	100		
41	134.5	77.9	116.9#
43	0.0	208.4	312.6#
56	76.0	43.1	64.7#

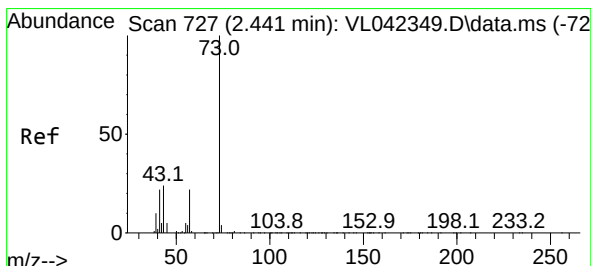
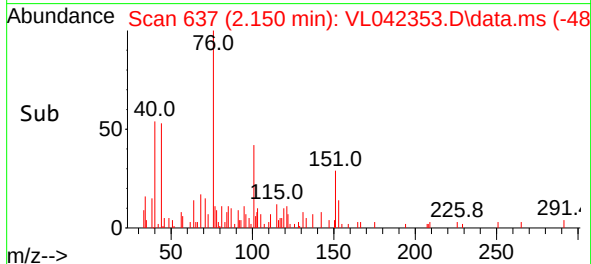
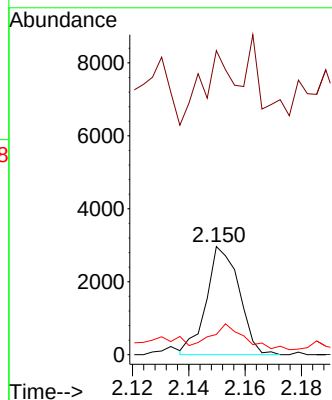
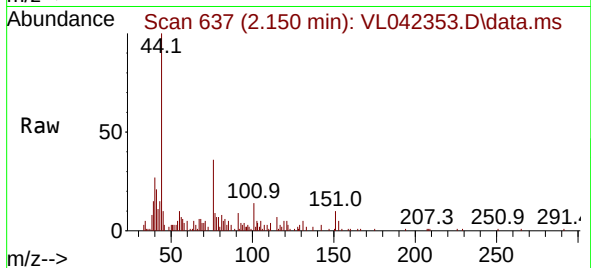




#27
Carbon Disulfide
Concen: 0.115 ppbv
RT: 2.150 min Scan# 61
Delta R.T. 0.000 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

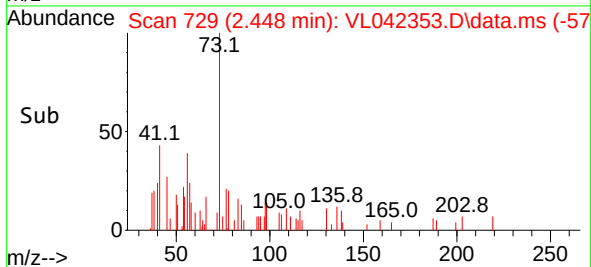
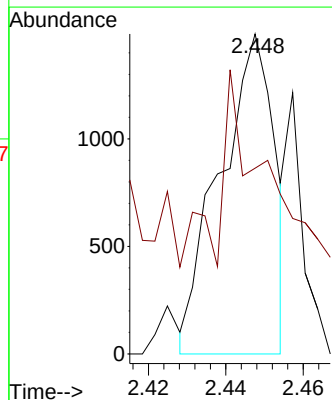
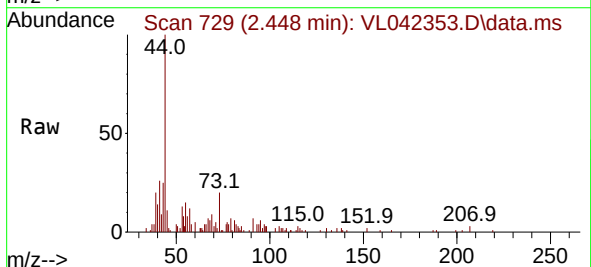
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

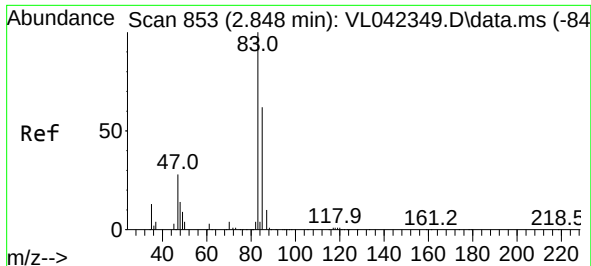
Tgt Ion: 76 Resp: 2396
Ion Ratio Lower Upper
76 100
44 214.1 15.5 23.3#
78 41.9 9.3 13.9#



#28
Methyl tert-Butyl Ether
Concen: 0.114 ppbv
RT: 2.448 min Scan# 729
Delta R.T. 0.007 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 73 Resp: 1460
Ion Ratio Lower Upper
73 100
57 84.5 21.3 31.9#





#29

Chloroform

Concen: 0.128 ppbv

RT: 2.849 min Scan# 81

Delta R.T. 0.000 min

Lab File: VL042353.D

Acq: 17 Apr 2025 11:50

Instrument :

MSVOA_1

ClientSampleId :

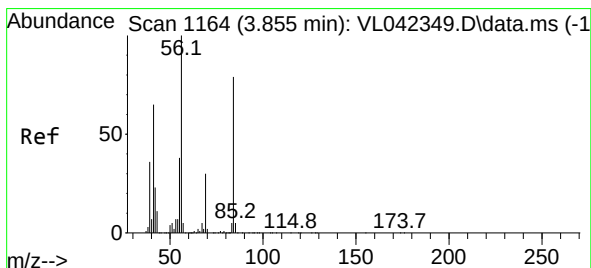
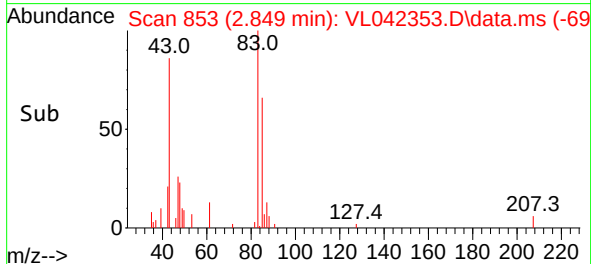
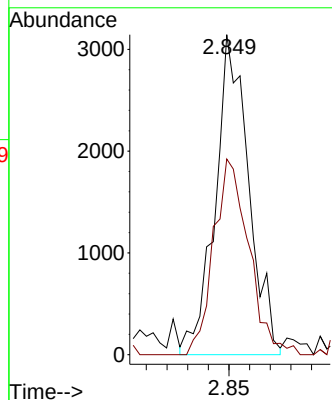
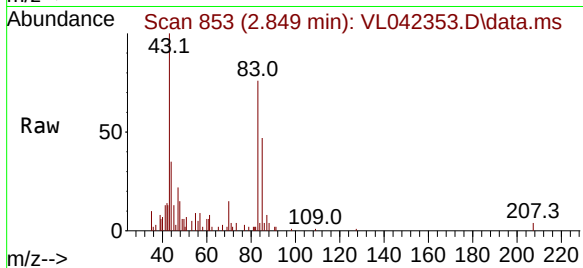
VSTDIC0.1

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

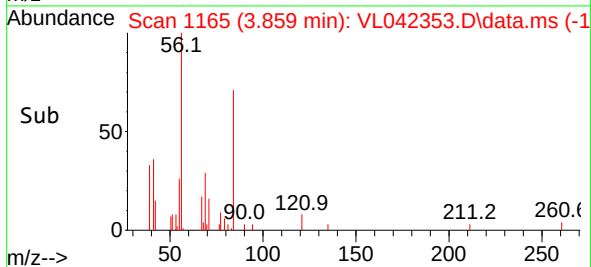
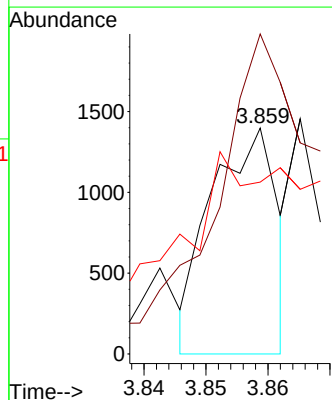
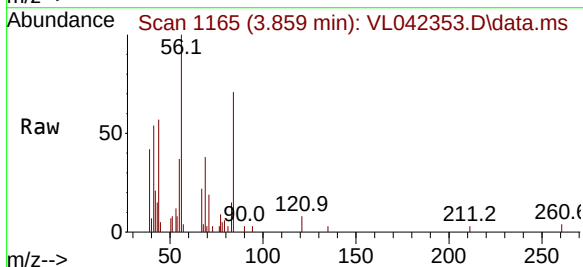
Tgt Ion: 84 Resp: 1037

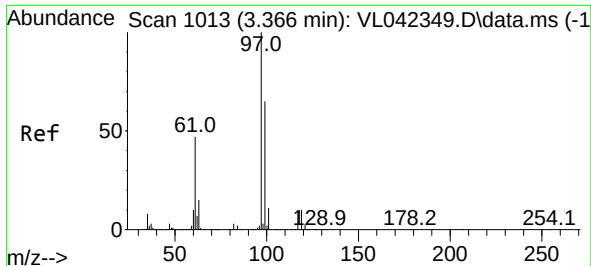
Ion Ratio Lower Upper

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# 110

Delta R.T. 0.007 min

Lab File: VL042353.D

Acq: 17 Apr 2025 11:50

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

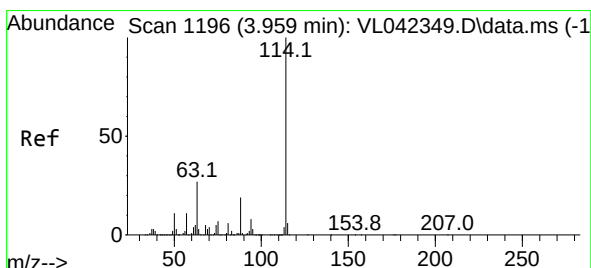
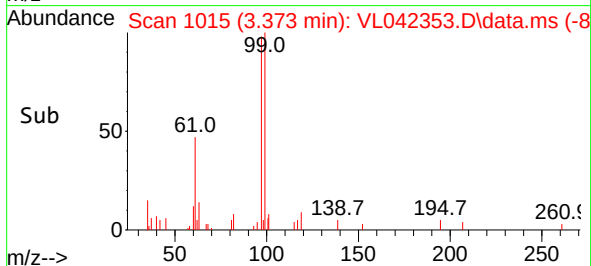
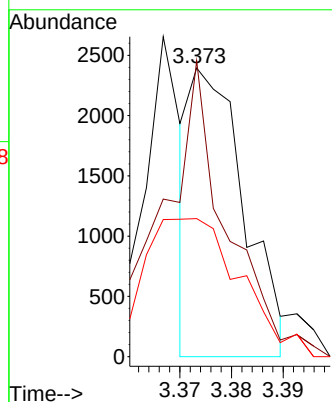
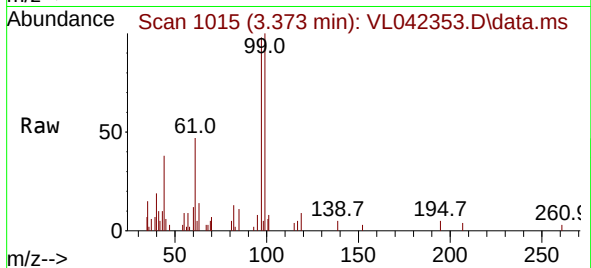
Tgt Ion: 97 Resp: 1734

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

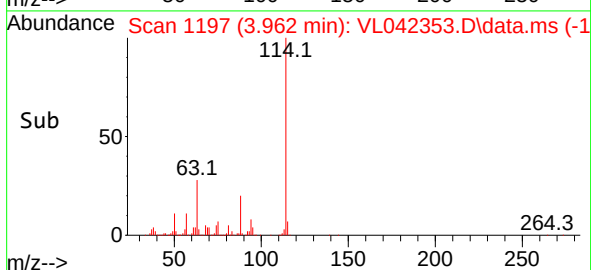
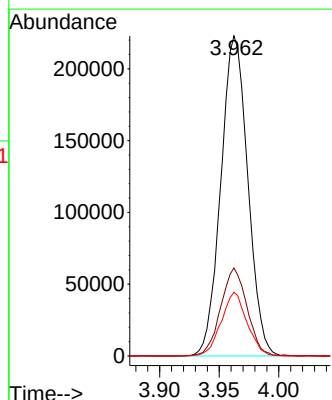
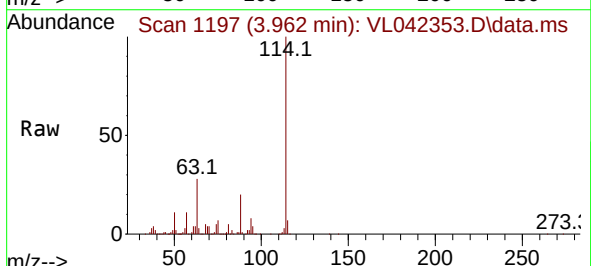
Tgt Ion: 114 Resp: 350484

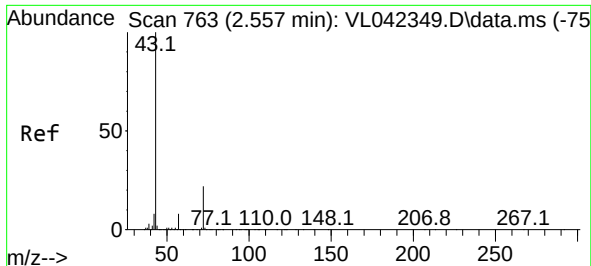
Ion Ratio Lower Upper

114 100

63 26.9 21.8 32.6

88 19.1 15.5 23.3

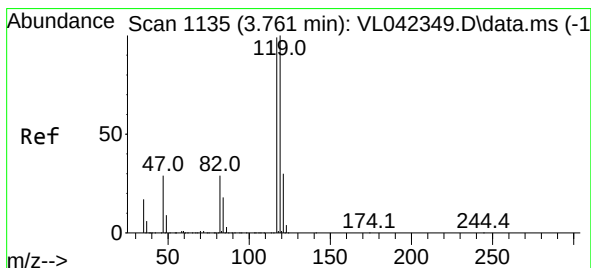
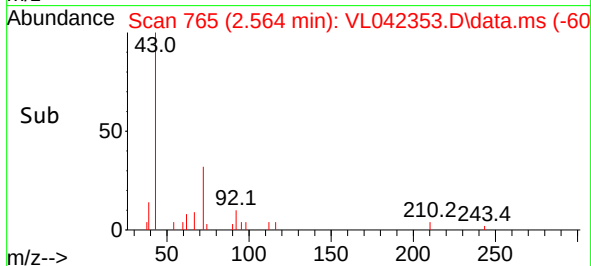
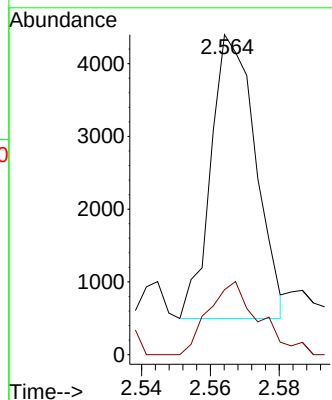
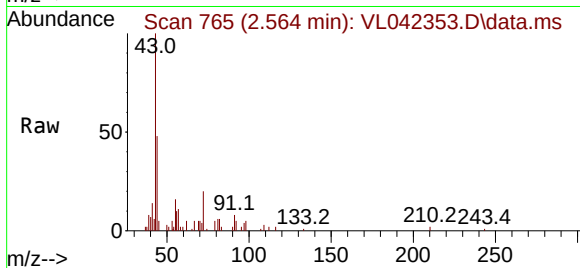




#34
2-Butanone
Concen: 0.126 ppbv
RT: 2.564 min Scan# 71
Delta R.T. 0.007 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

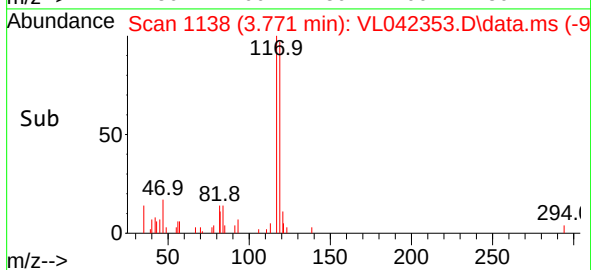
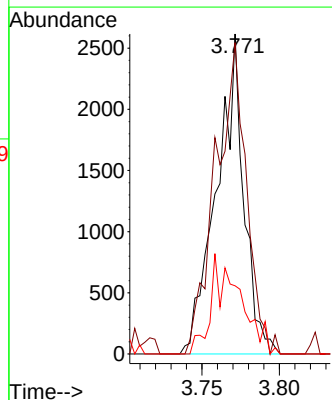
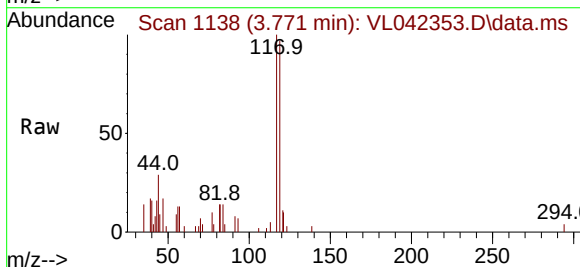
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

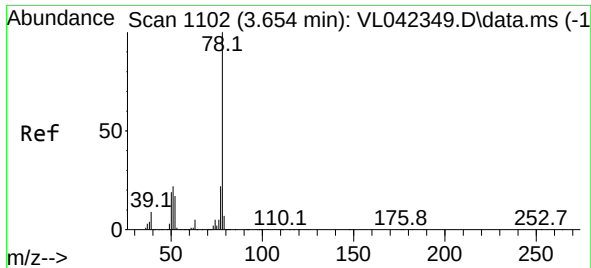
Tgt Ion: 43 Resp: 3506
Ion Ratio Lower Upper
43 100
72 32.7 18.2 27.2#



#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#

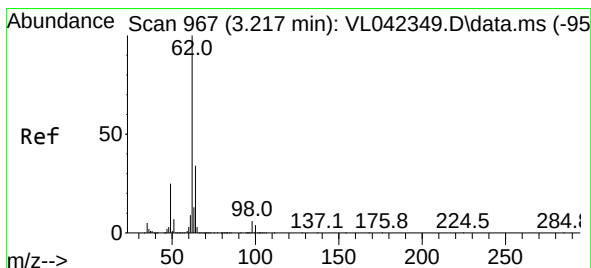
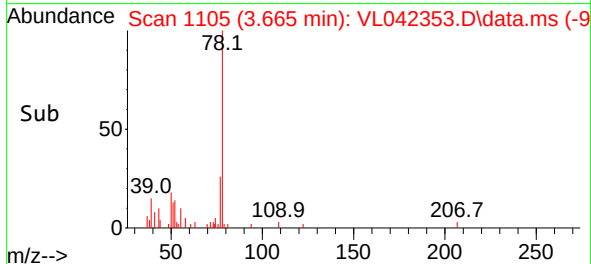
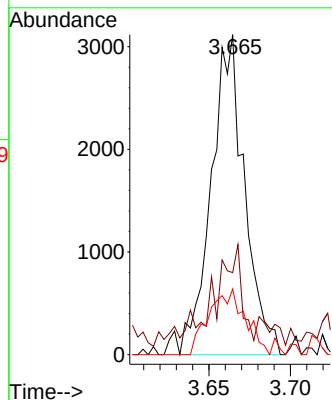
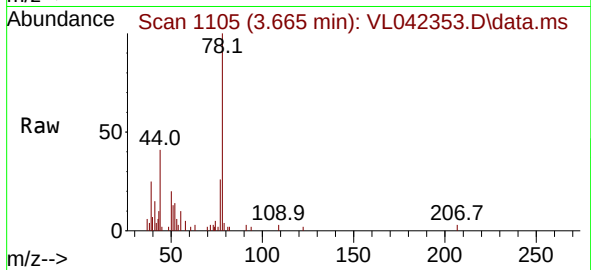




#36
Benzene
Concen: 0.117 ppbv
RT: 3.665 min Scan# 1105
Delta R.T. 0.010 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

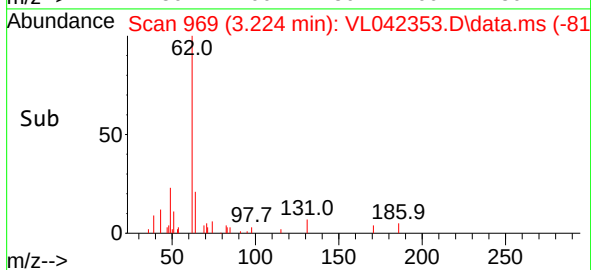
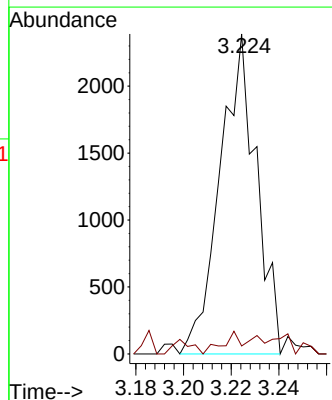
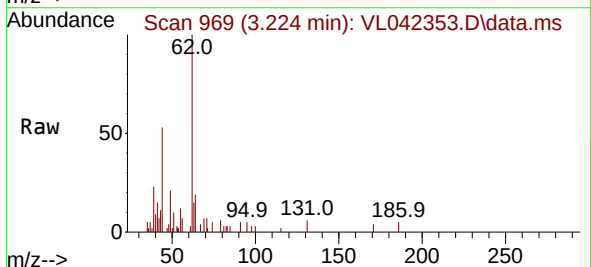
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

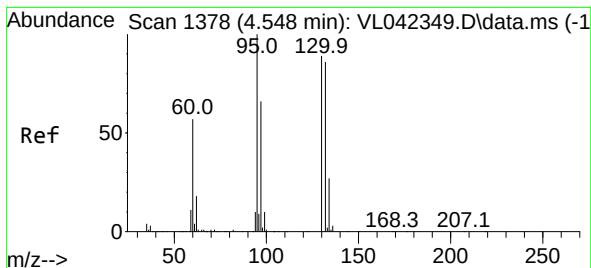
Tgt Ion: 78 Resp: 4424
Ion Ratio Lower Upper
78 100
77 20.4 17.4 26.0
50 20.5 15.5 23.3



#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

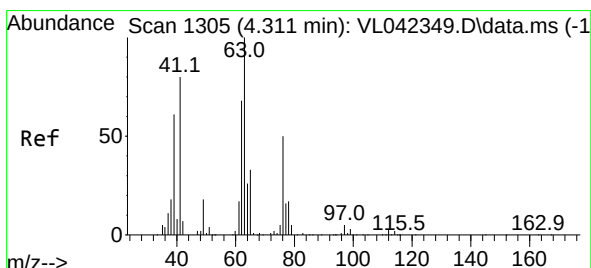
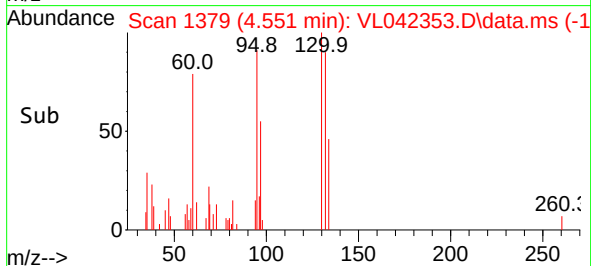
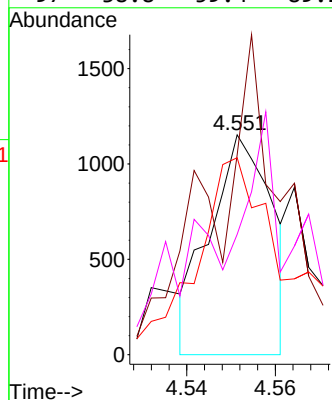
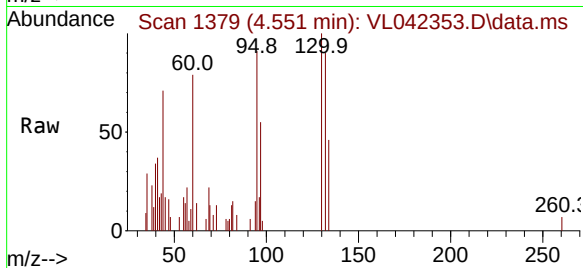
Ion Ratio Lower Upper

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

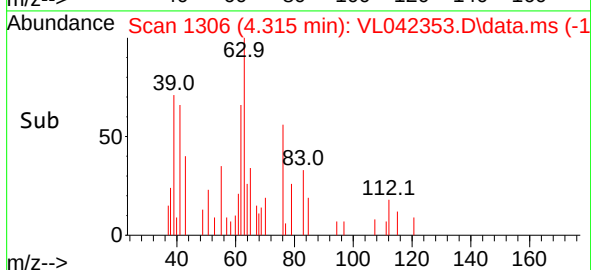
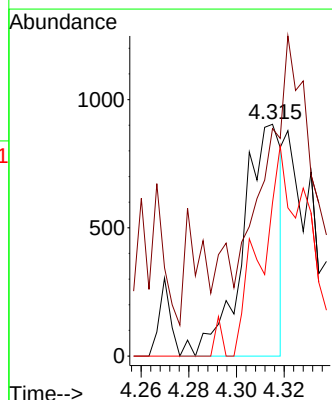
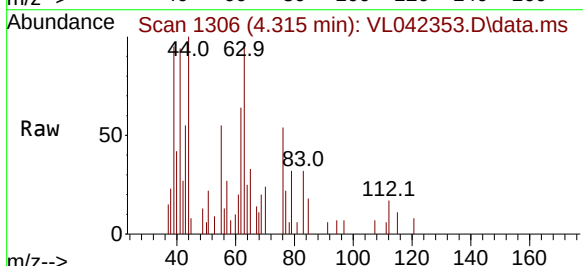
Tgt Ion: 63 Resp: 1007

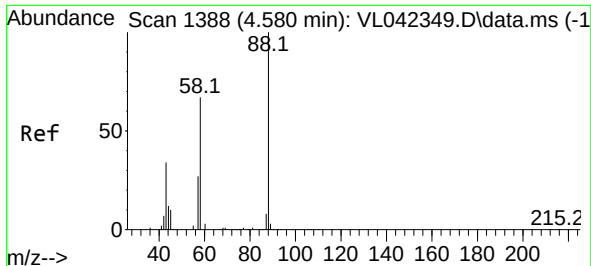
Ion Ratio Lower Upper

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

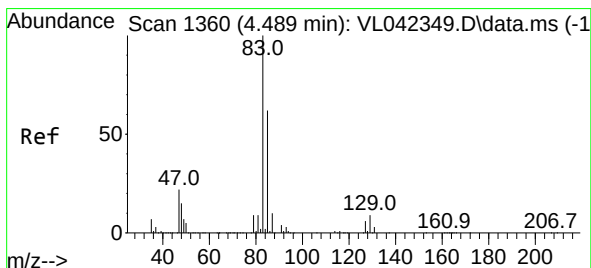
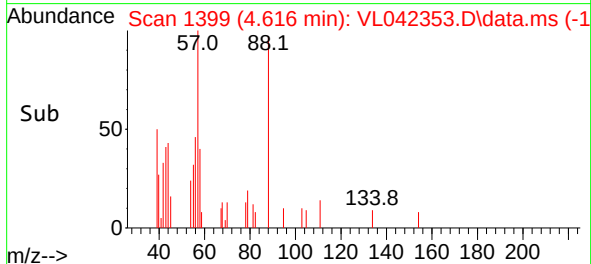
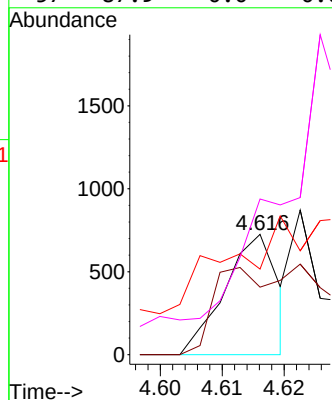
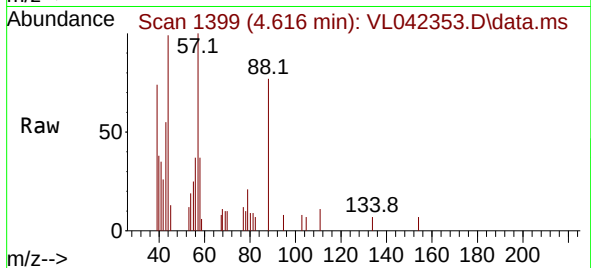
Ion Ratio Lower Upper

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

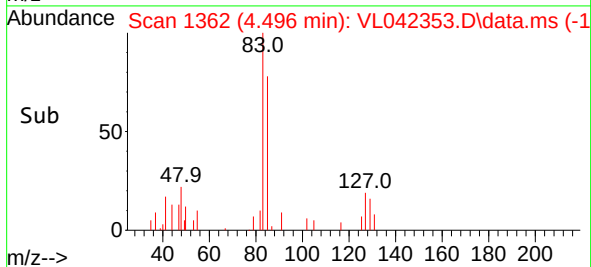
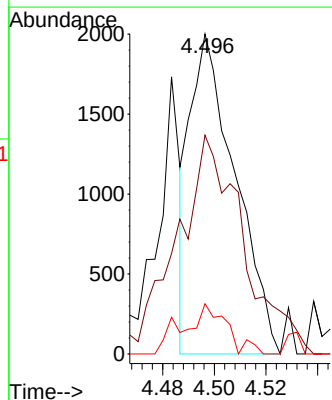
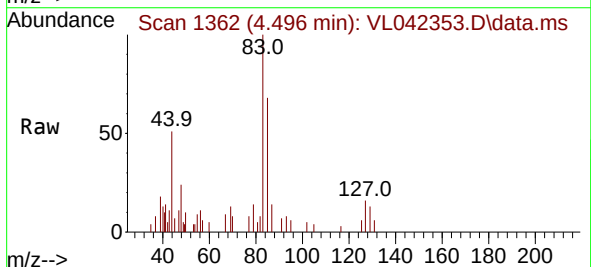
Tgt Ion: 83 Resp: 2443

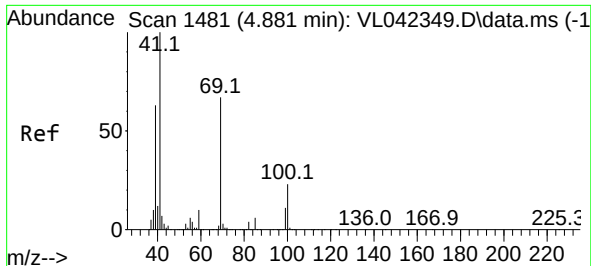
Ion Ratio Lower Upper

83 100

85 55.0 49.7 74.5

127 15.7 5.1 7.7#

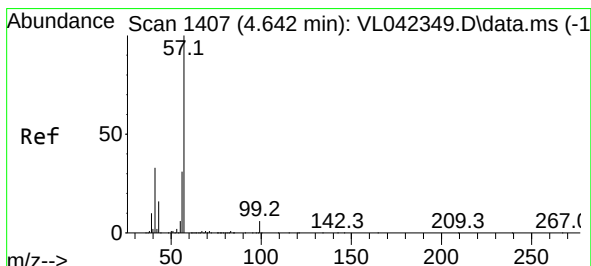
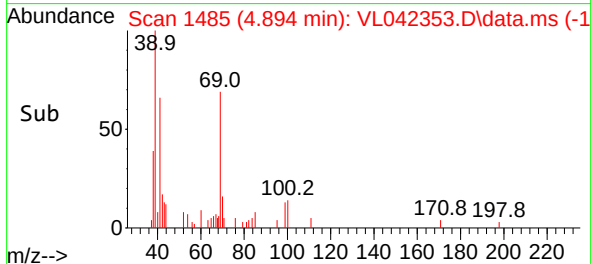
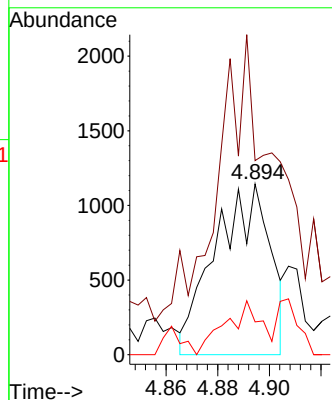
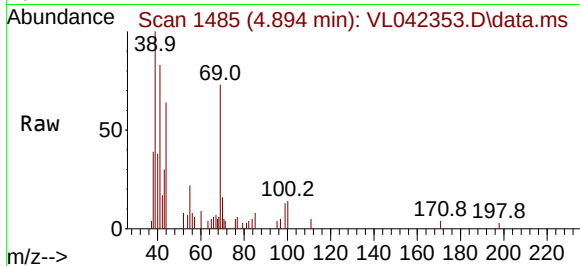




#43
Methyl Methacrylate
Concen: 0.099 ppbv
RT: 4.894 min Scan# 1485
Delta R.T. 0.013 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

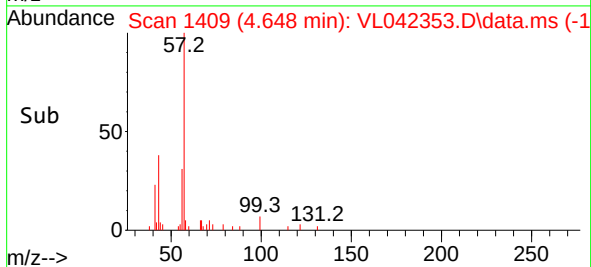
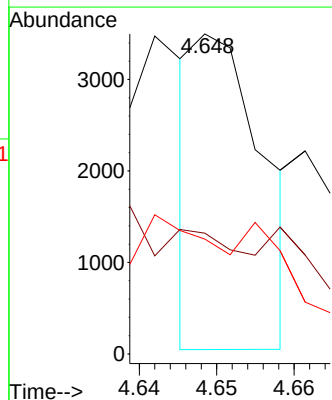
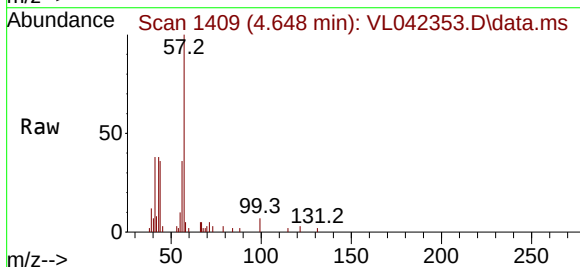
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

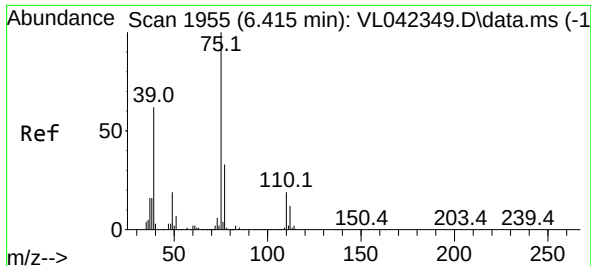
Tgt Ion: 69 Resp: 1683
Ion Ratio Lower Upper
69 100
41 192.5 118.6 177.8#
100 0.0 28.2 42.2#



#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#

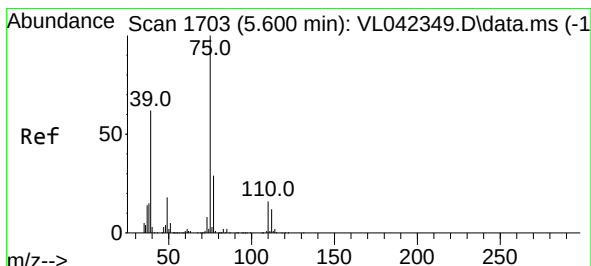
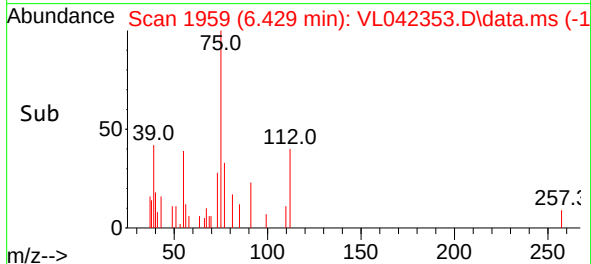
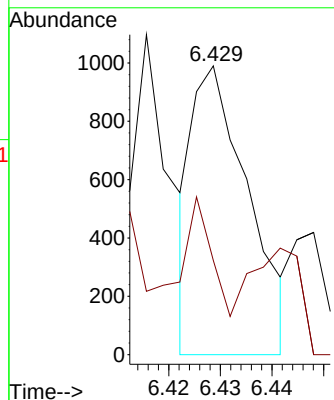
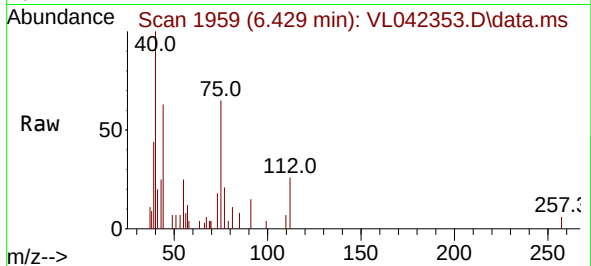




#45
t-1,3-Dichloropropene
Concen: 0.043 ppbv
RT: 6.429 min Scan# 1959
Delta R.T. 0.013 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

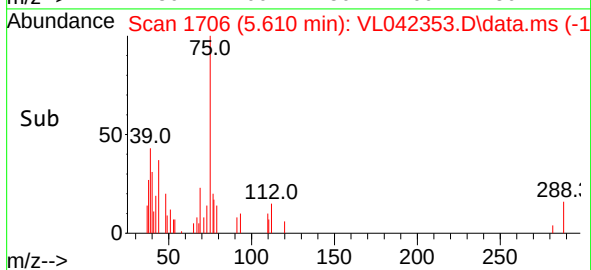
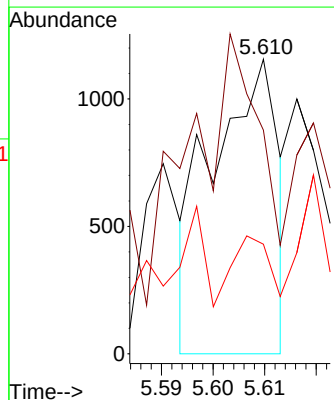
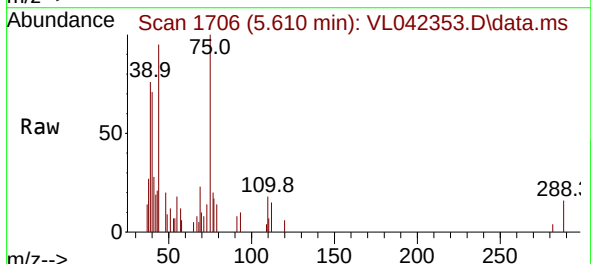
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

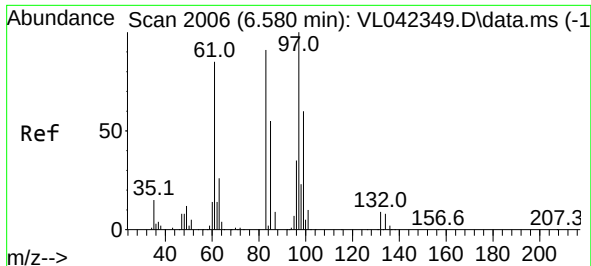
Tgt Ion: 75 Resp: 748
Ion Ratio Lower Upper
75 100
77 32.6 27.0 40.6



#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

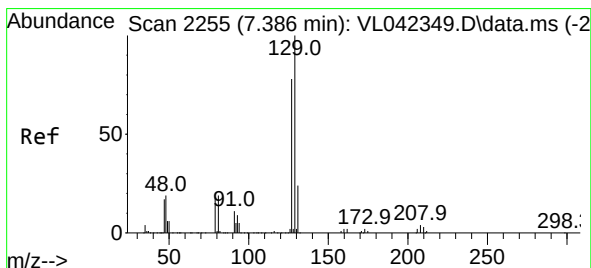
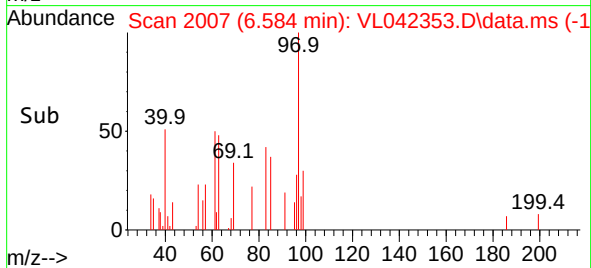
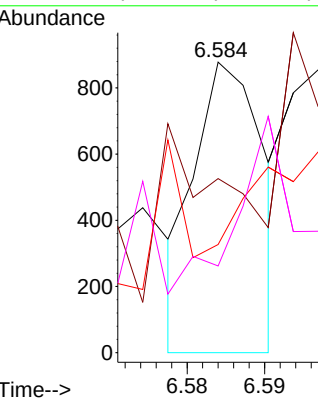
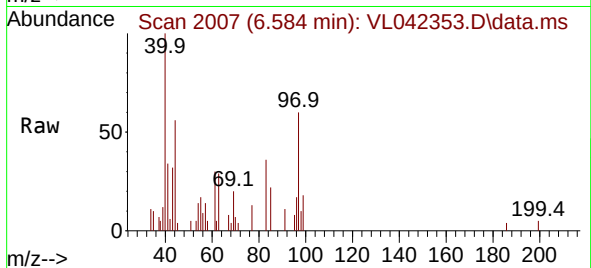
Ion Ratio Lower Upper

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

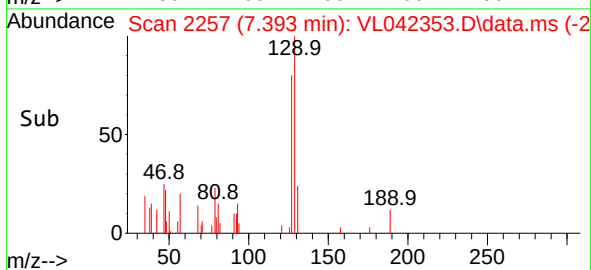
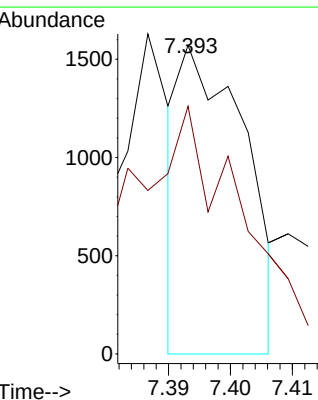
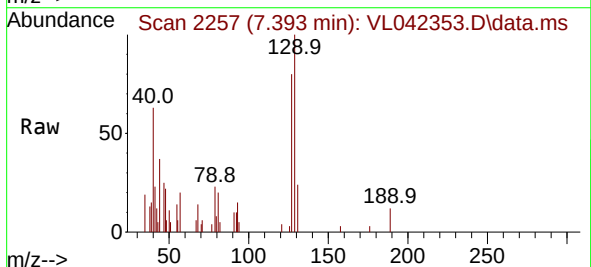
Acq: 17 Apr 2025 11:50

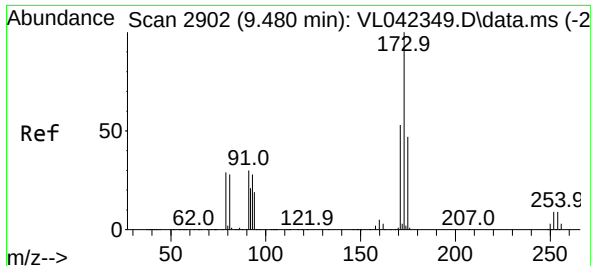
Tgt Ion: 129 Resp: 1149

Ion Ratio Lower Upper

129 100

127 167.2 39.1 117.3#

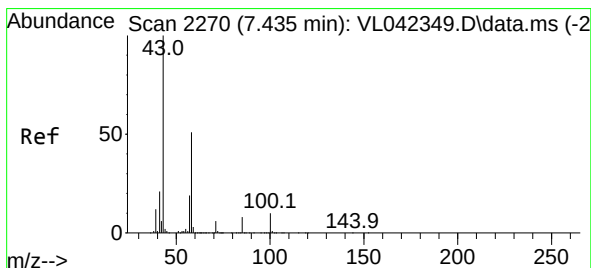
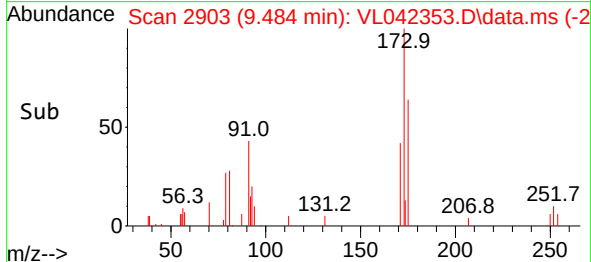
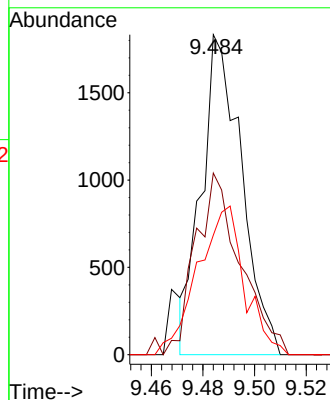
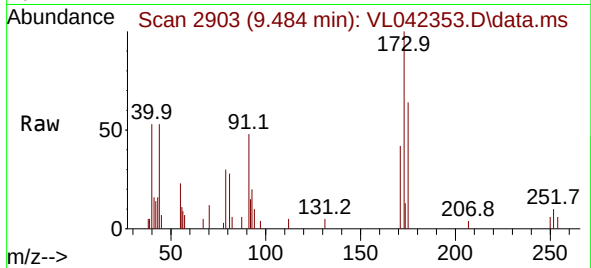




#49
Bromoform
Concen: 0.089 ppbv
RT: 9.484 min Scan# 2903
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

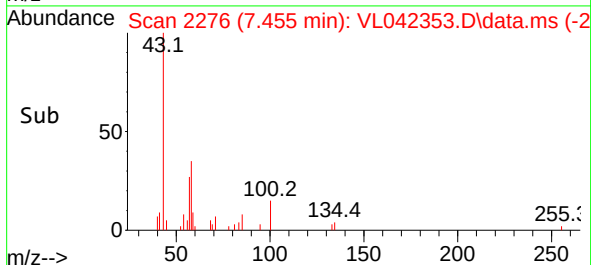
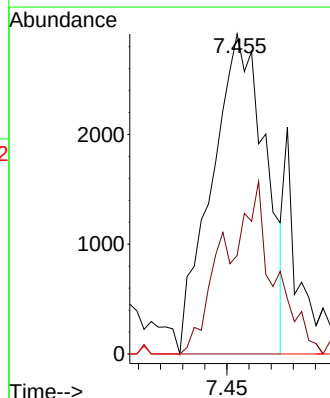
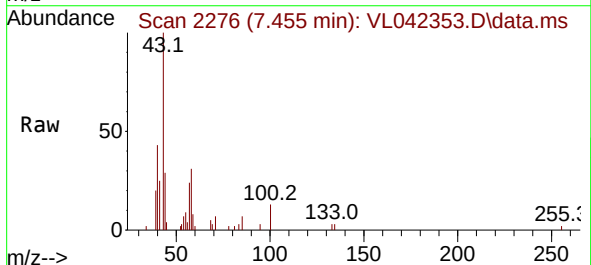
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

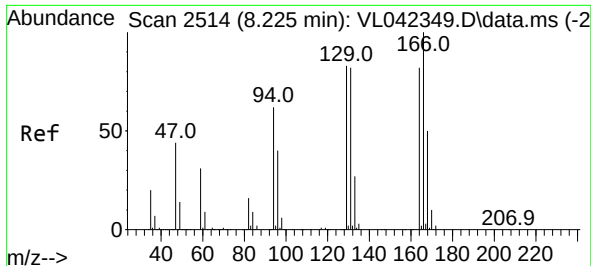
Tgt Ion:173 Resp: 1973
Ion Ratio Lower Upper
173 100
175 64.7 38.2 57.2#
171 54.2 40.9 61.3



#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#

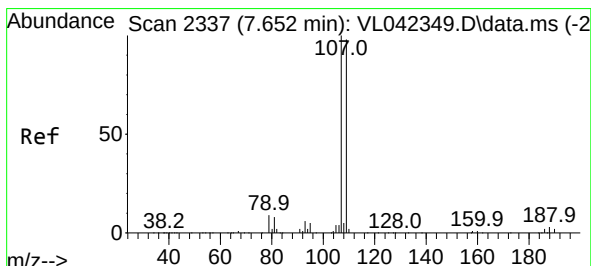
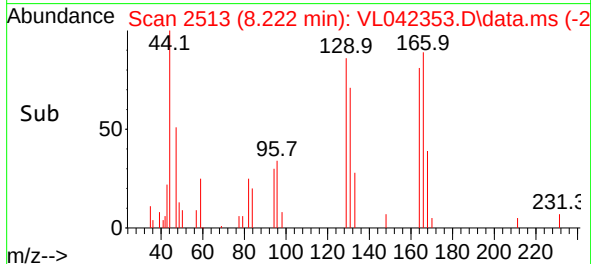
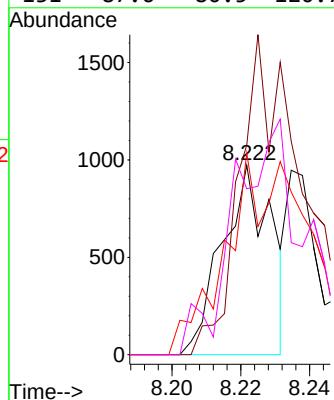
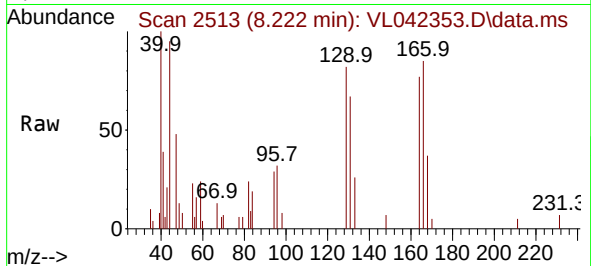




#52
Tetrachloroethene
Concen: 0.065 ppbv
RT: 8.222 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

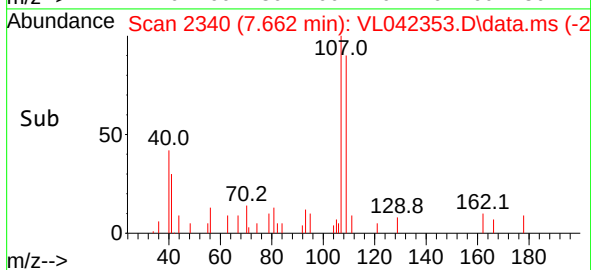
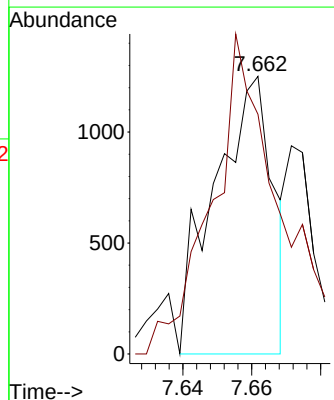
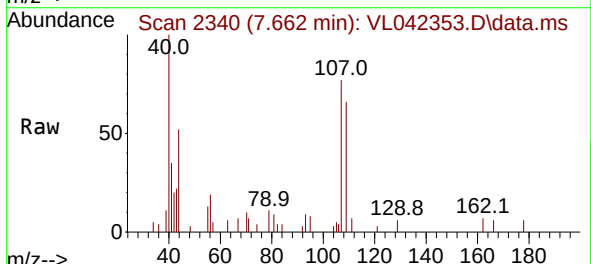
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

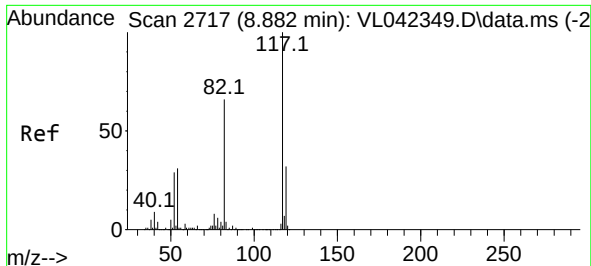
Tgt	Ion:164	Resp:	957
Ion	Ratio	Lower	Upper
164	100		
166	110.6	98.2	147.2
129	88.3	81.8	122.8
131	87.6	80.5	120.7



#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#

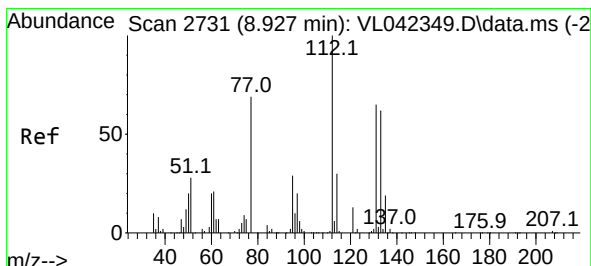
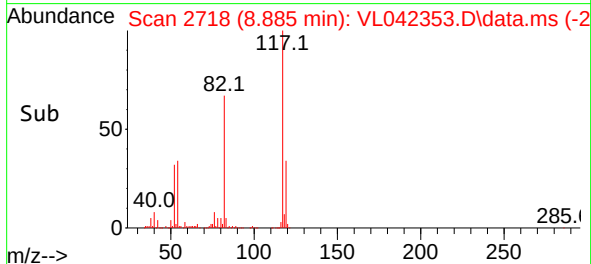
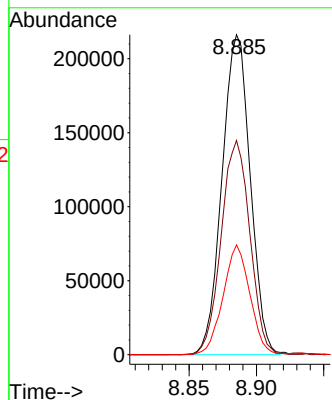
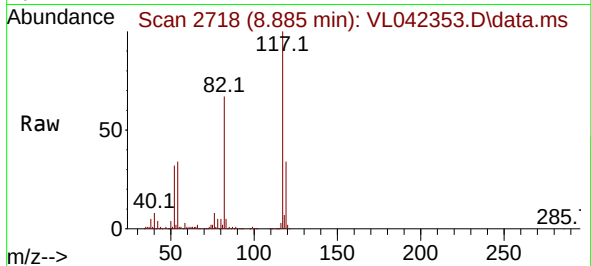




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2717
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

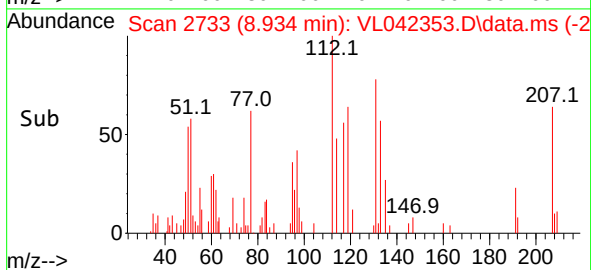
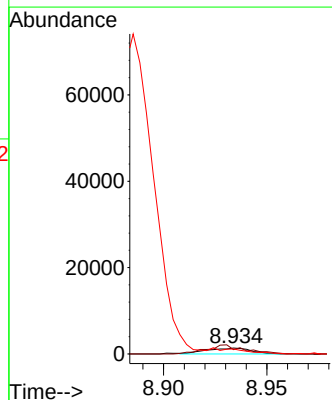
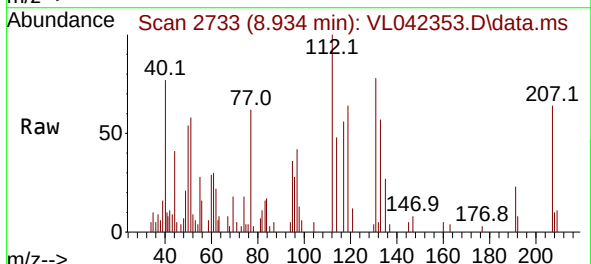
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

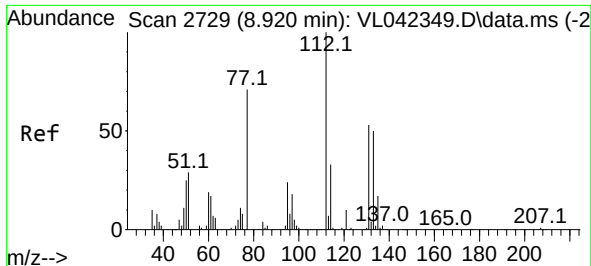
Tgt Ion:117 Resp: 315004
Ion Ratio Lower Upper
117 100
82 68.1 57.8 86.6
119 33.0 25.2 37.8



#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#

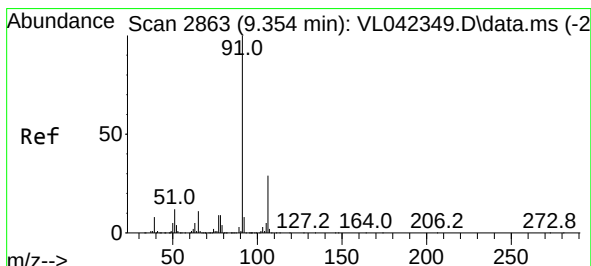
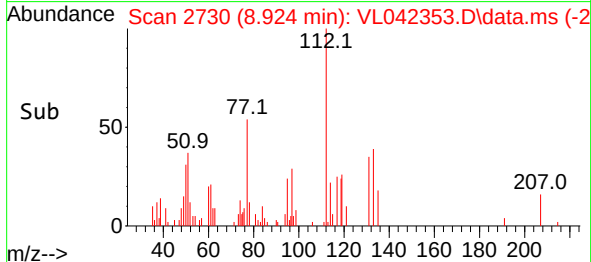
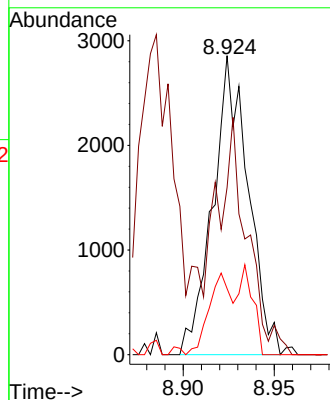
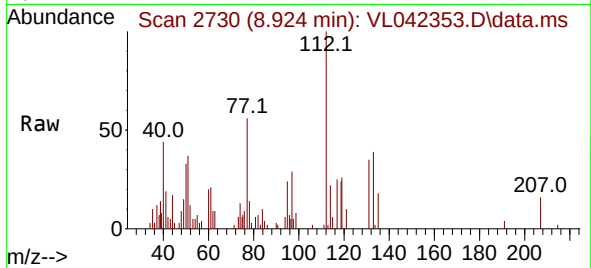




#57
Chlorobenzene
Concen: 0.117 ppbv
RT: 8.924 min Scan# 21
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

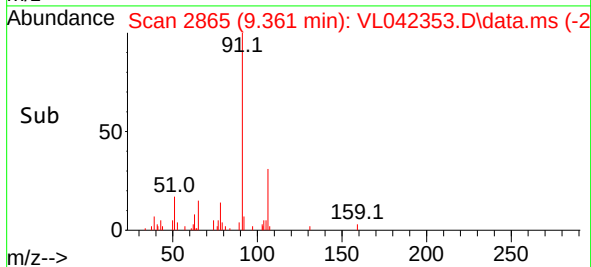
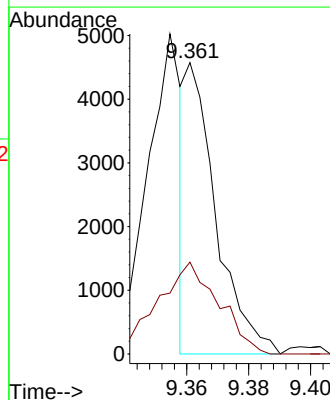
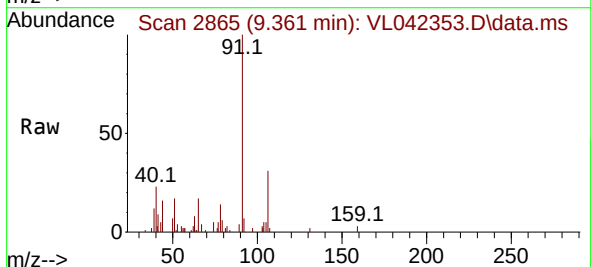
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

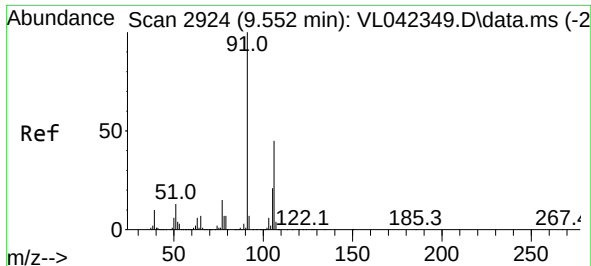
Tgt Ion:112 Resp: 3842
Ion Ratio Lower Upper
112 100
77 50.6 57.8 86.6#
114 22.1 29.3 35.9#



#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 :

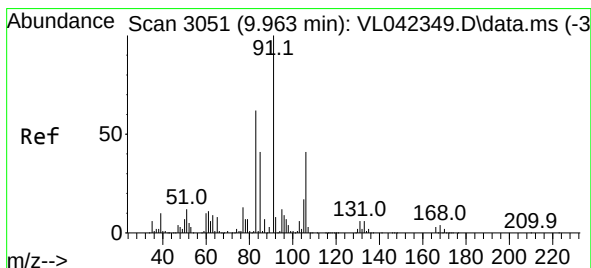
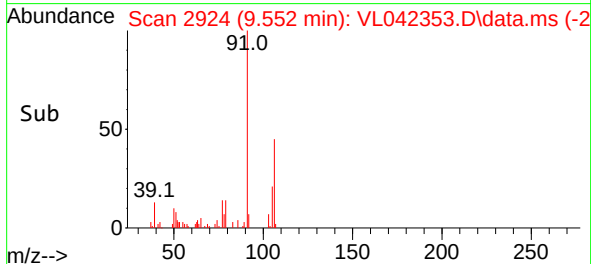
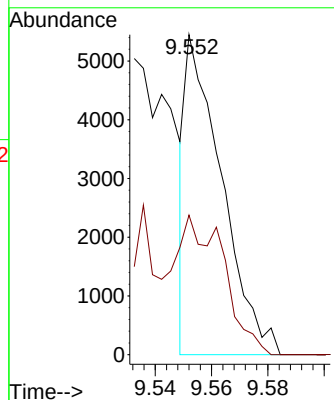
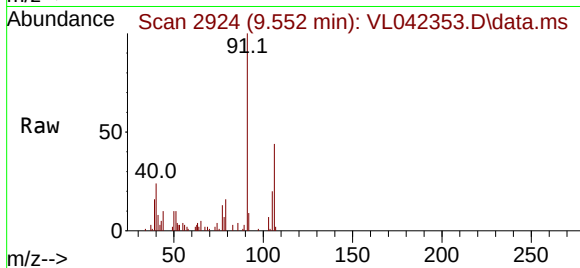
VSTDIC0.1

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

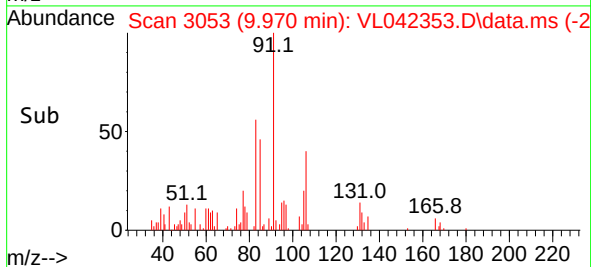
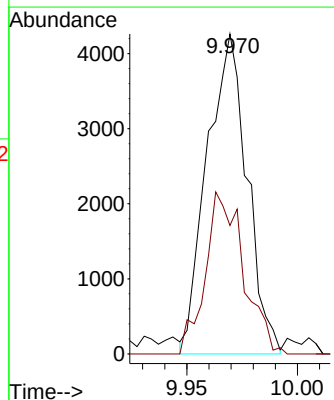
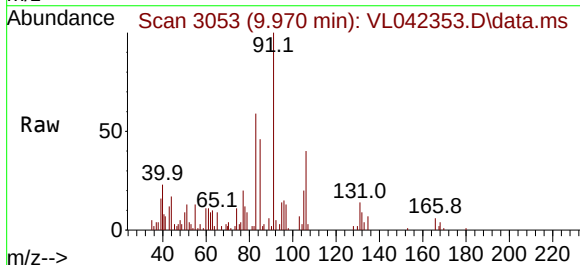
Acq: 17 Apr 2025 11:50

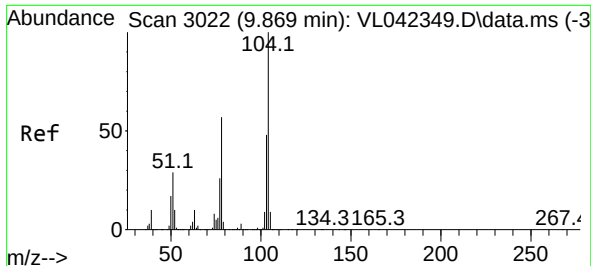
Tgt Ion: 91 Resp: 5359

Ion Ratio Lower Upper

91 100

106 48.3 21.1 63.4

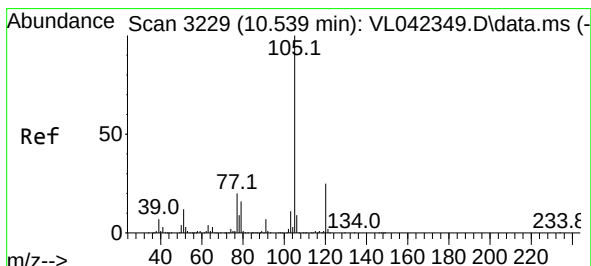
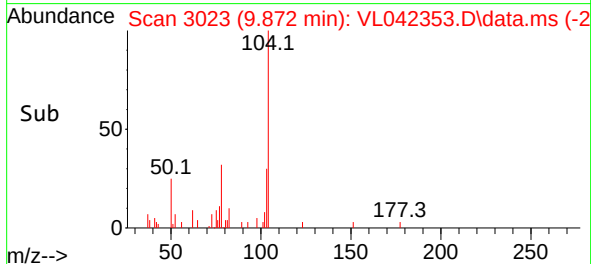
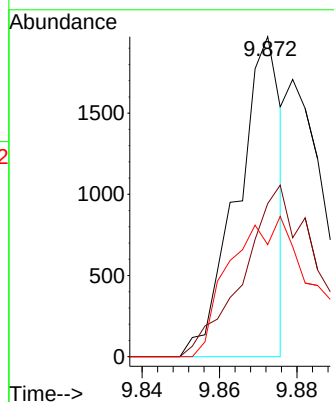
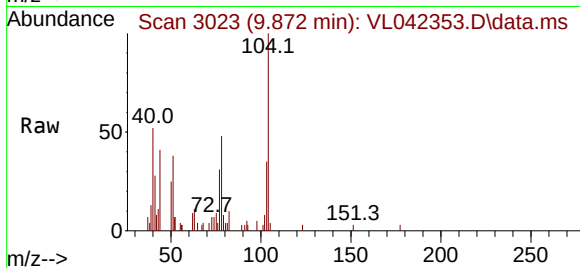




#61
Styrene
Concen: 0.064 ppbv
RT: 9.872 min Scan# 3023
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

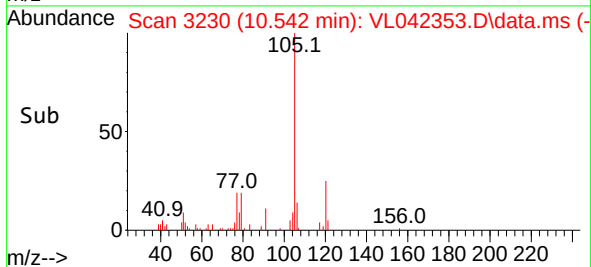
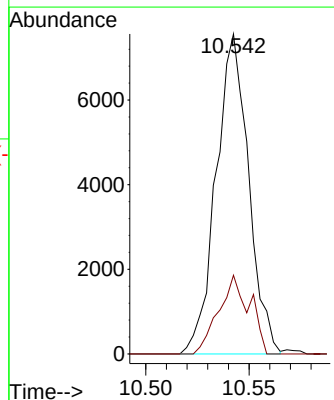
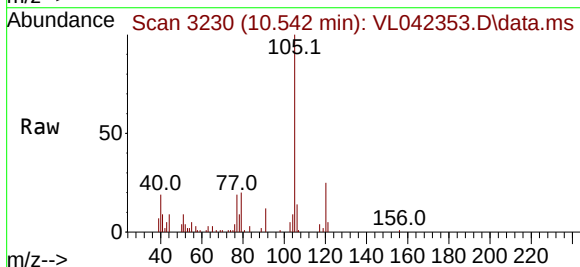
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

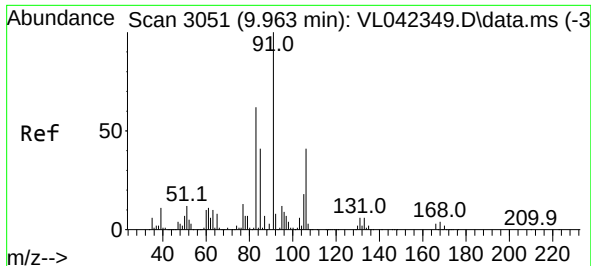
Tgt Ion:104 Resp: 1549
Ion Ratio Lower Upper
104 100
78 0.0 44.6 66.8#
103 0.0 37.4 56.0#



#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

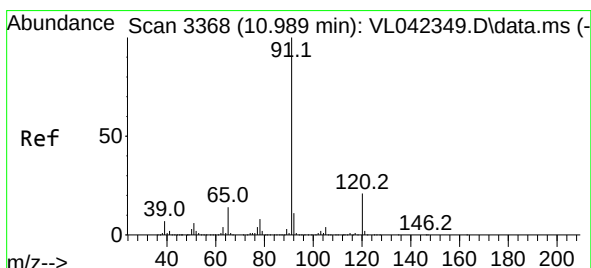
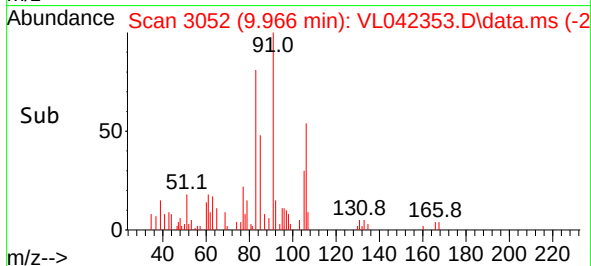
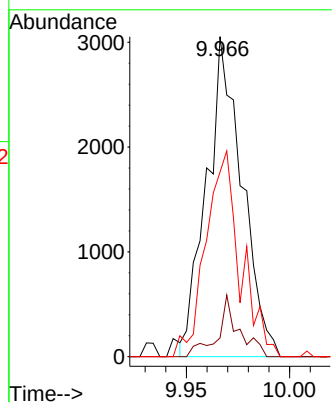
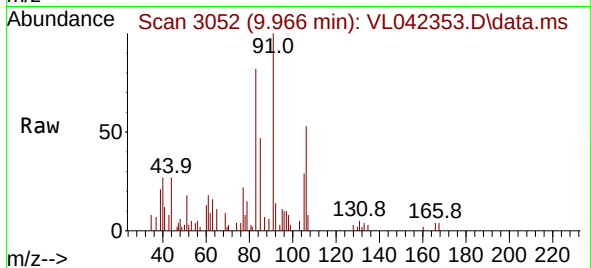




#63
1,1,2,2-Tetrachloroethane
Concen: 0.111 ppbv
RT: 9.966 min Scan# 3051
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

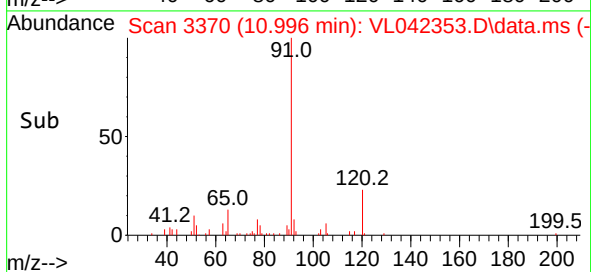
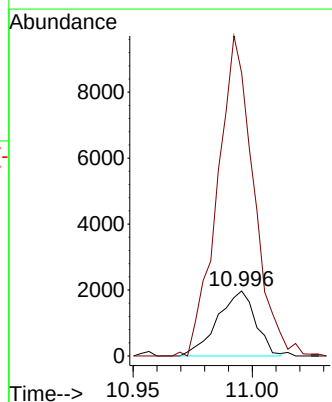
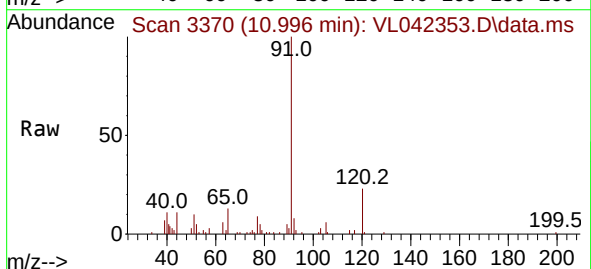
Instrument : MSVOA_1
ClientSampleId : VSTDIC0.1

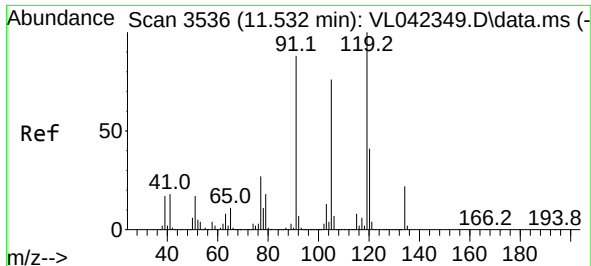
Tgt Ion: 83 Resp: 3646
Ion Ratio Lower Upper
83 100
131 11.4 4.5 13.7
85 62.7 32.4 97.0



#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

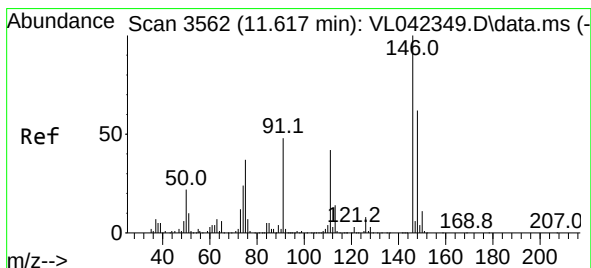
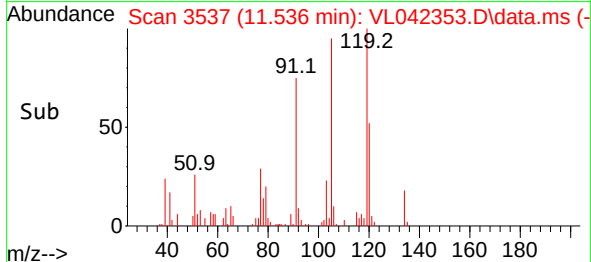
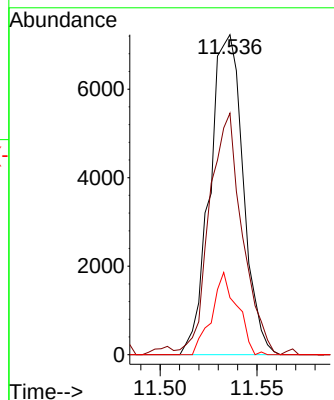
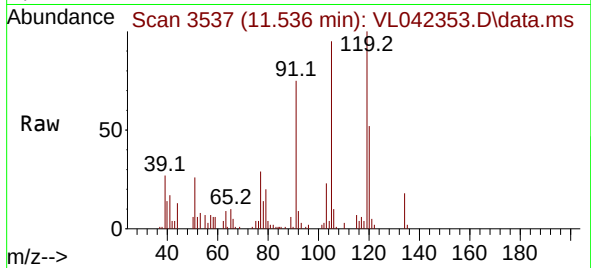




#65
tert-Butylbenzene
Concen: 0.127 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

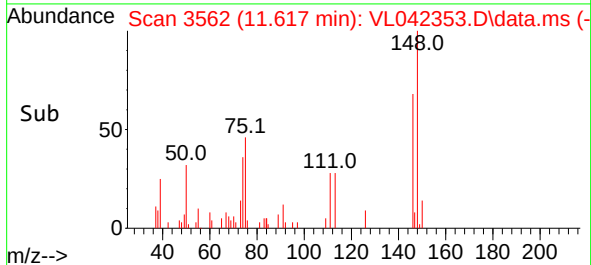
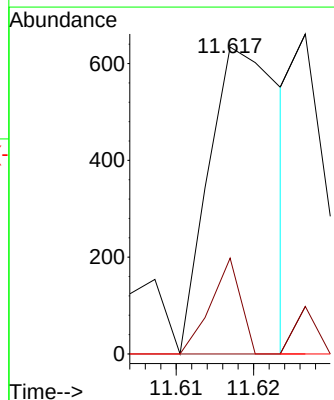
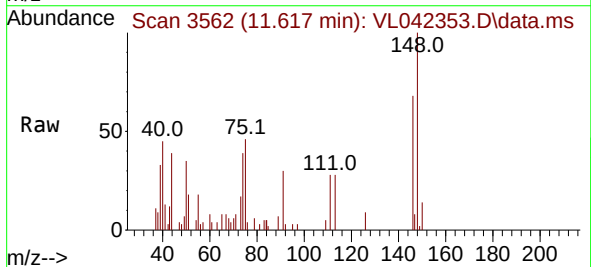
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

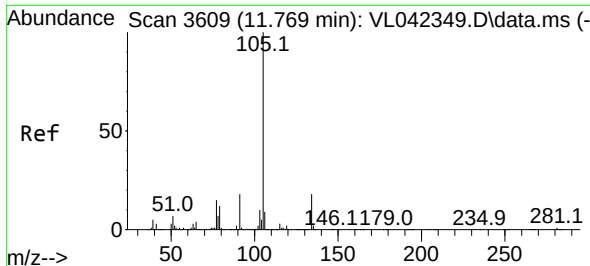
Tgt Ion:119 Resp: 8656
Ion Ratio Lower Upper
119 100
91 77.2 74.6 111.8
134 19.6 18.8 28.2



#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#

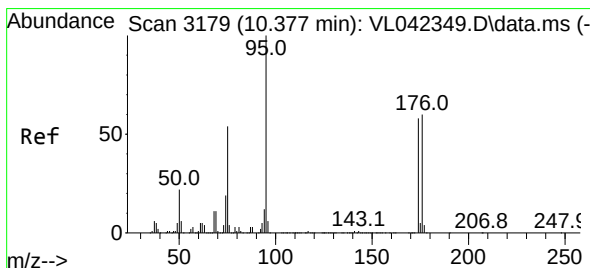
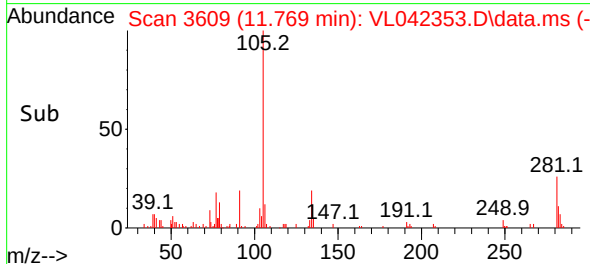
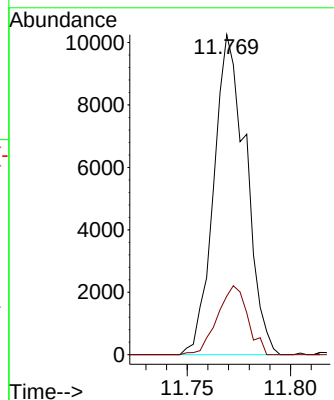
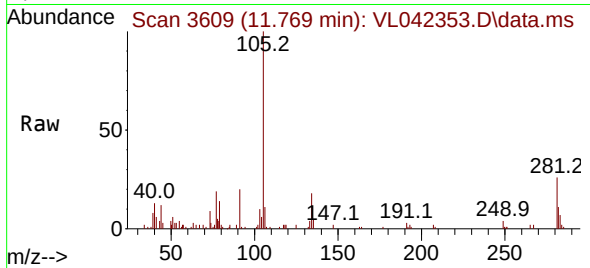




#67
 sec-Butylbenzene
 Concen: 0.117 ppbv
 RT: 11.769 min Scan# 3609
 Delta R.T. 0.000 min
 Lab File: VL042353.D
 Acq: 17 Apr 2025 11:50

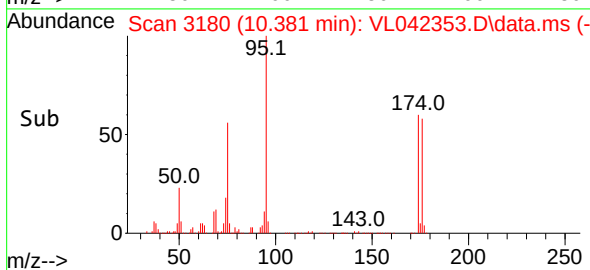
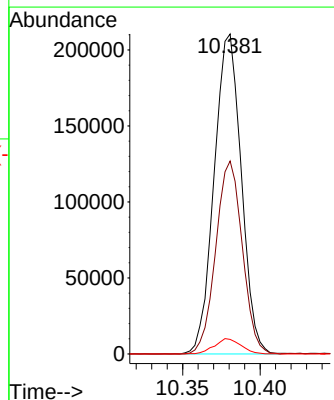
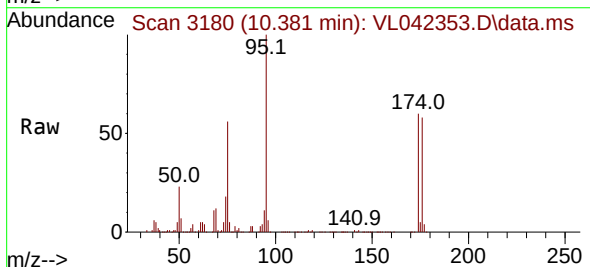
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

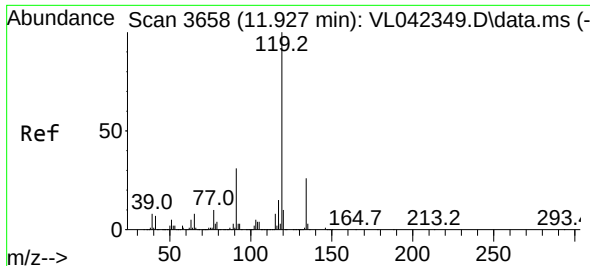
Tgt Ion:105 Resp: 11126
 Ion Ratio Lower Upper
 105 100
 134 20.2 14.6 21.8



#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

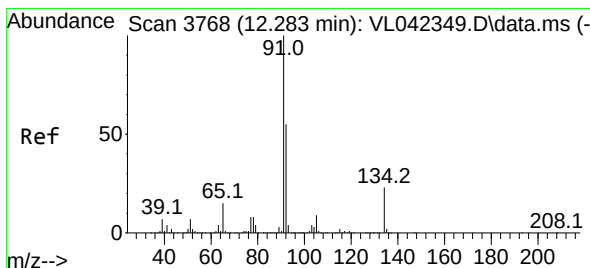
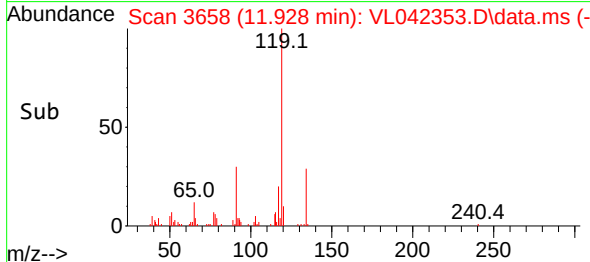
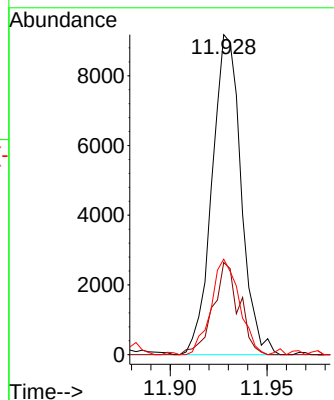
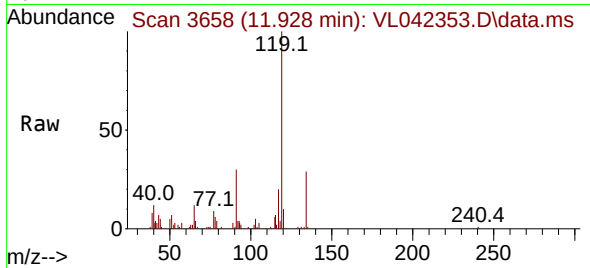




#69
 p-Isopropyltoluene
 Concen: 0.115 ppbv
 RT: 11.928 min Scan# 3658
 Delta R.T. 0.000 min
 Lab File: VL042353.D
 Acq: 17 Apr 2025 11:50

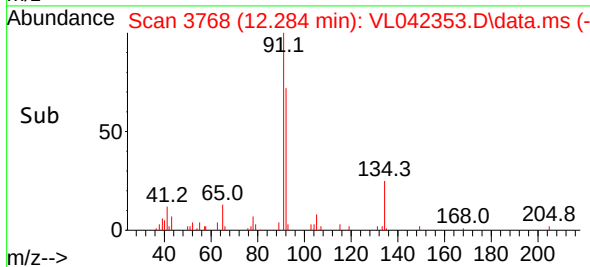
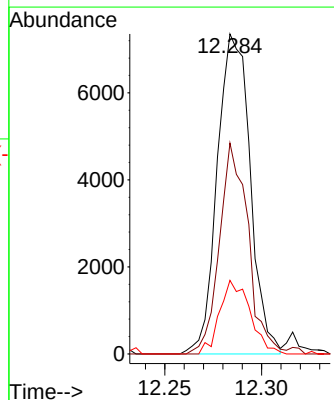
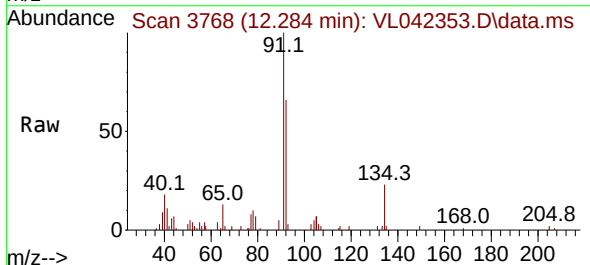
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

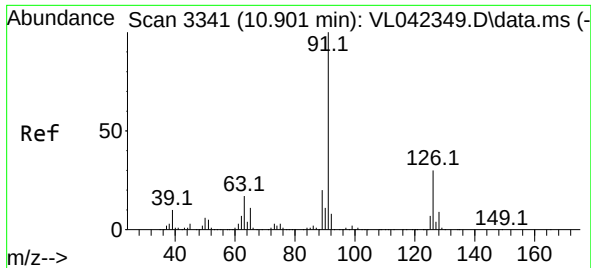
Tgt Ion:	119	Resp:	9534
Ion	Ratio	Lower	Upper
119	100		
134	26.0	20.0	30.0
91	31.6	24.4	36.6



#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

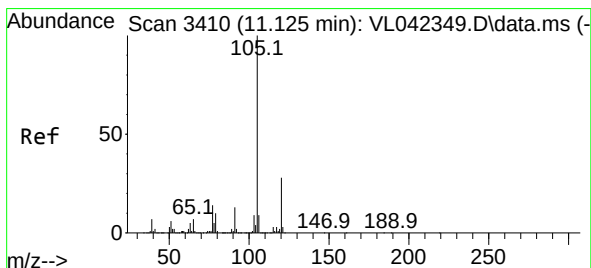
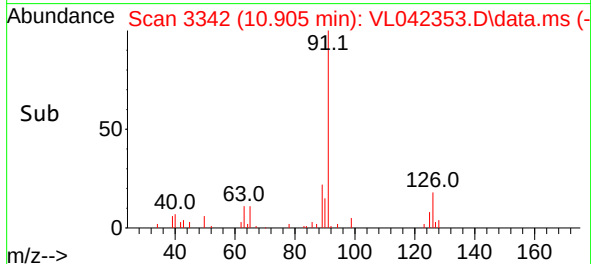
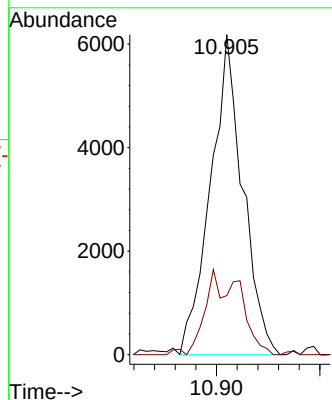
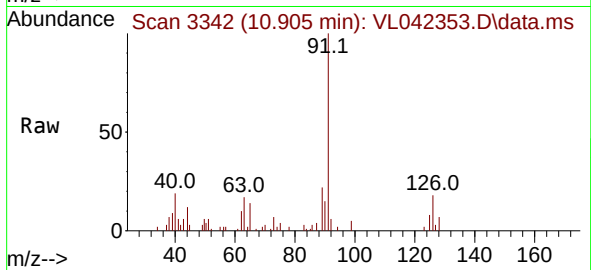




#71
2-Chlorotoluene
Concen: 0.115 ppbv
RT: 10.905 min Scan# 311
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

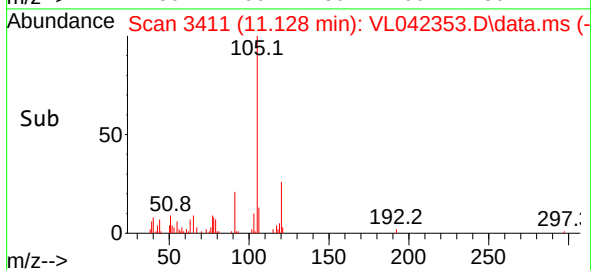
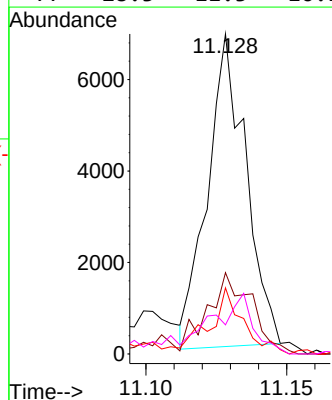
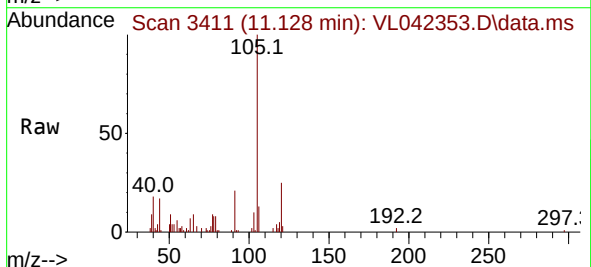
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

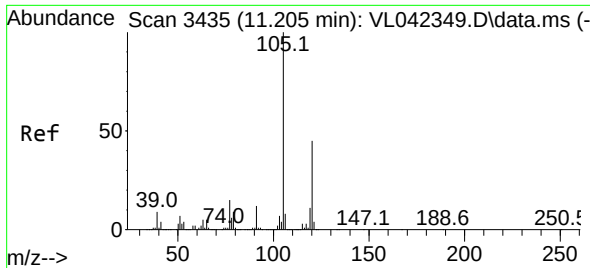
Tgt Ion: 91 Resp: 6703
Ion Ratio Lower Upper
91 100
126 29.2 11.4 45.4



#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#

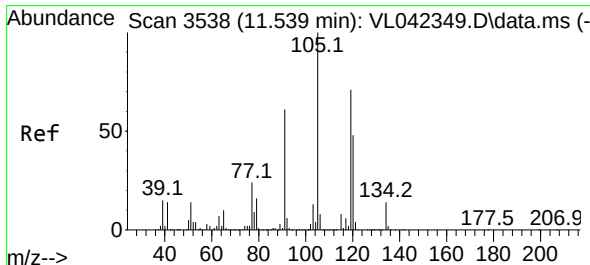
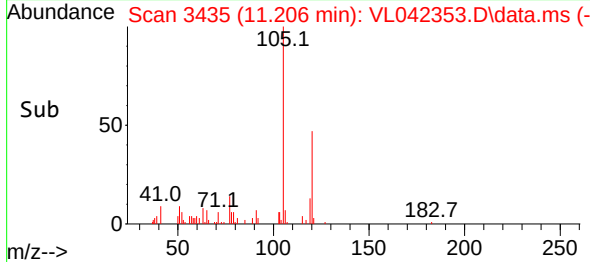
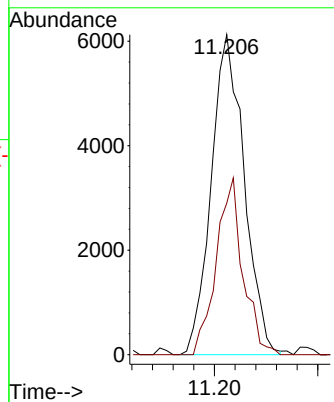
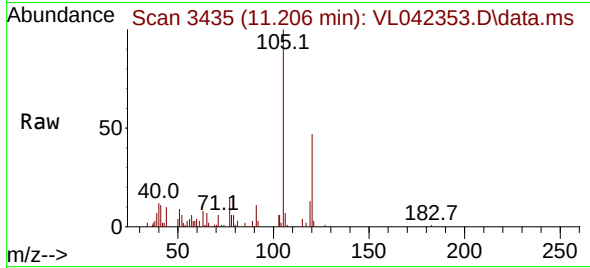




#73
 1,3,5-Trimethylbenzene
 Concen: 0.124 ppbv
 RT: 11.206 min Scan# 3435
 Delta R.T. 0.000 min
 Lab File: VL042353.D
 Acq: 17 Apr 2025 11:50

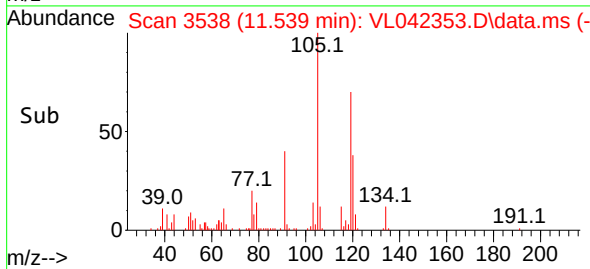
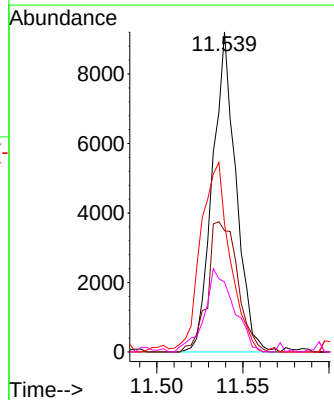
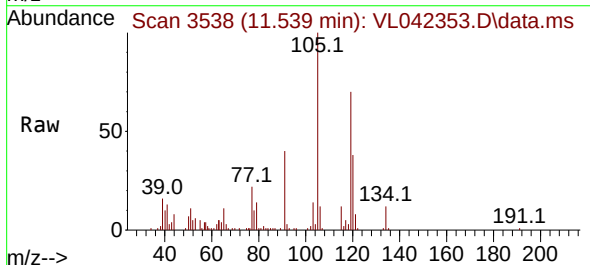
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

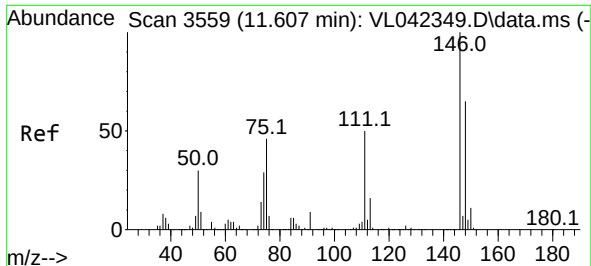
Tgt Ion:105 Resp: 6797
 Ion Ratio Lower Upper
 105 100
 120 47.4 35.6 53.4



#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

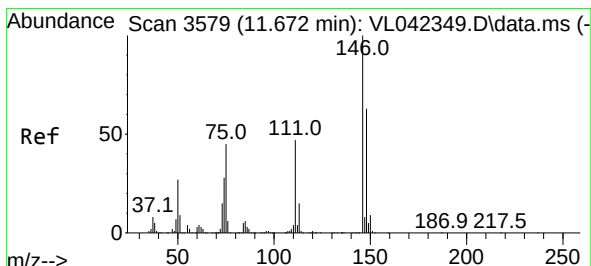
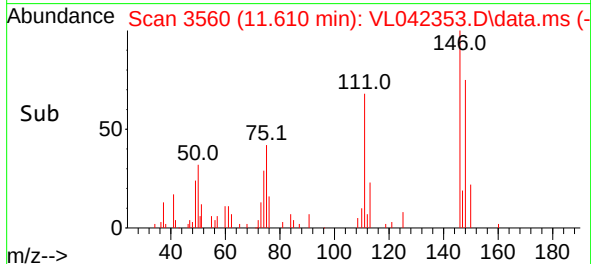
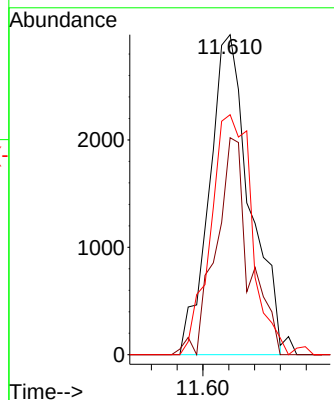
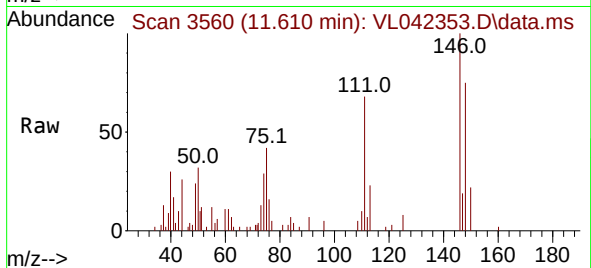




#75
1,3-Dichlorobenzene
Concen: 0.098 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

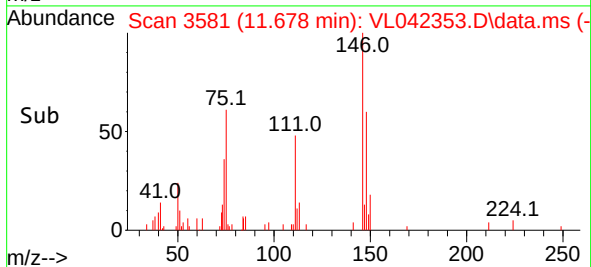
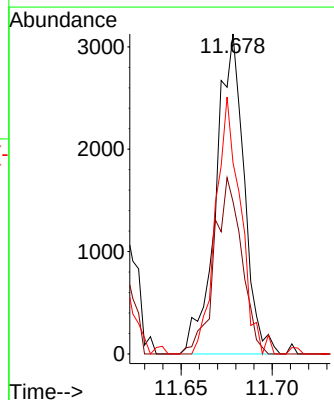
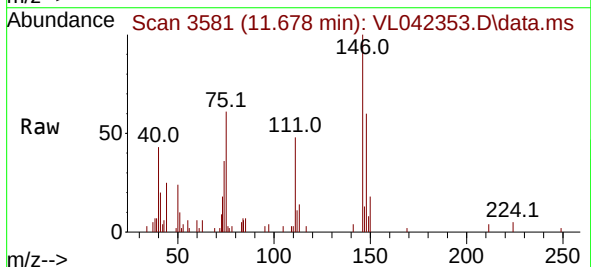
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

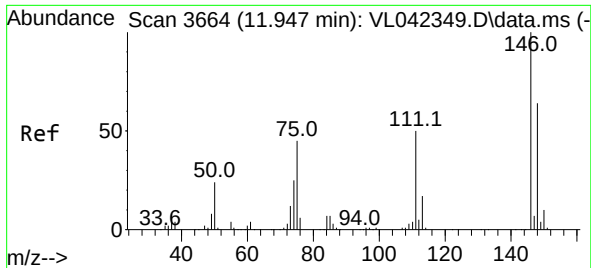
Tgt Ion:146 Resp: 3258
Ion Ratio Lower Upper
146 100
111 55.9 24.3 72.8
148 77.0 31.6 94.8



#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

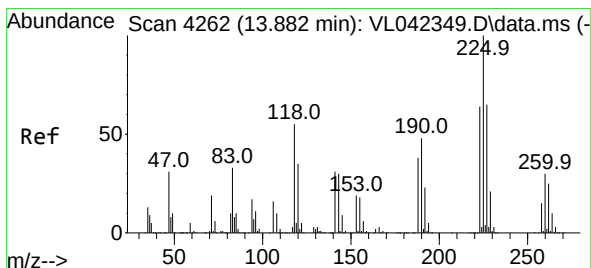
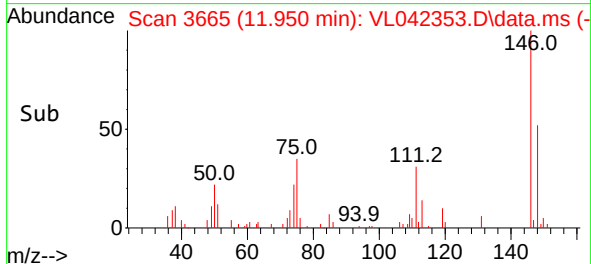
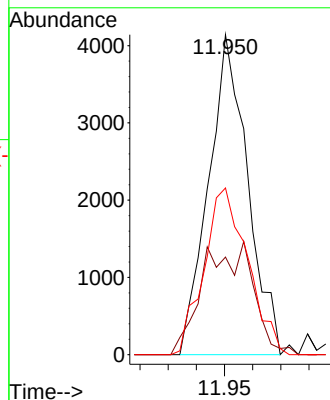
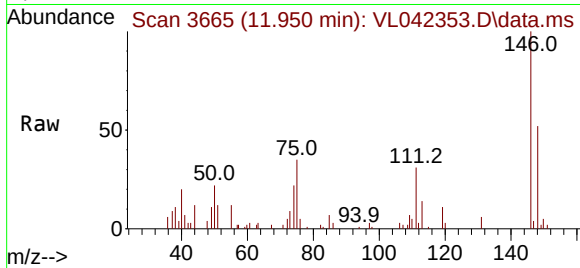




#77
1,2-Dichlorobenzene
Concen: 0.124 ppbv
RT: 11.950 min Scan# 3665
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

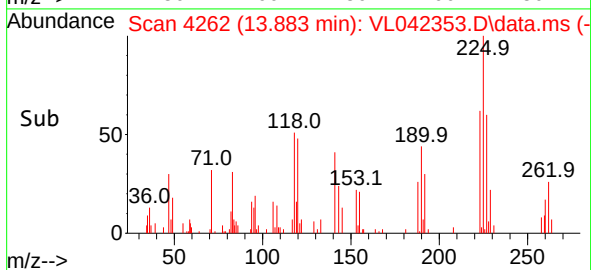
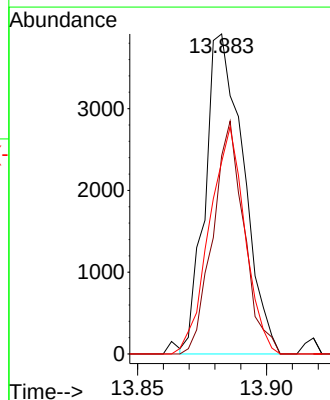
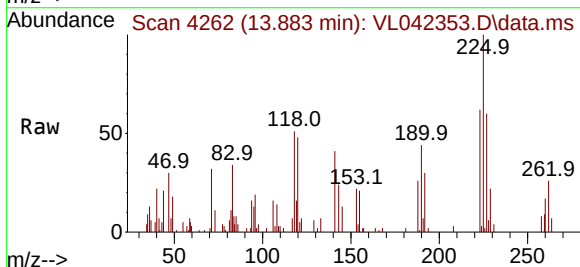
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

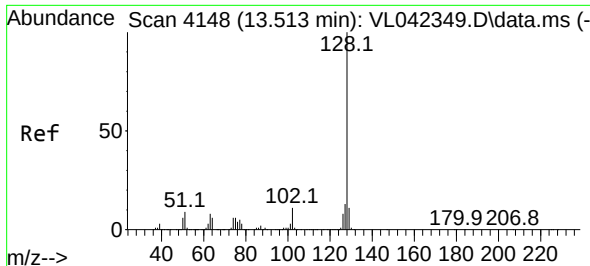
Tgt Ion:	146	Resp:	3996
Ion Ratio	Lower	Upper	
146	100		
111	45.1	25.3	75.9
148	58.1	31.5	94.5



#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

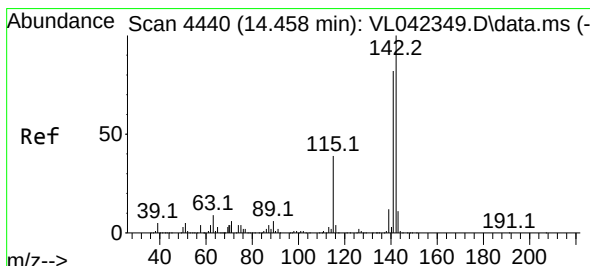
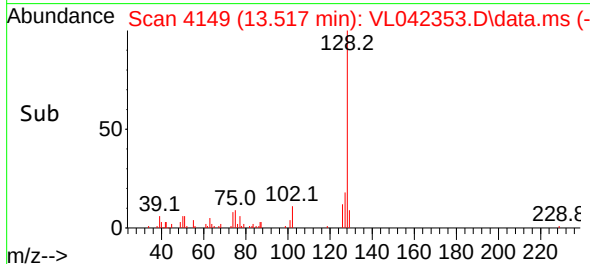
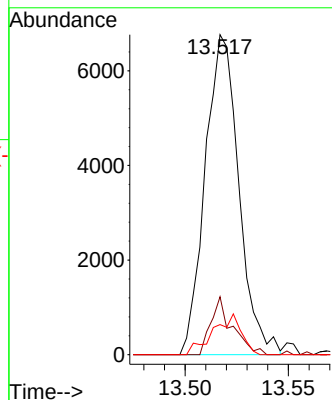
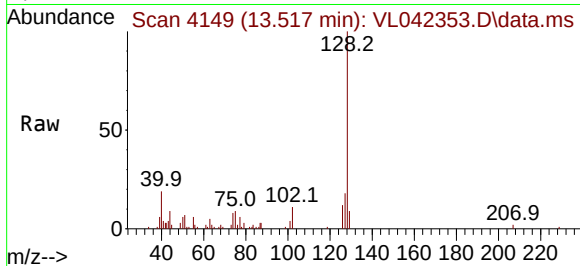




#79
Naphthalene
Concen: 0.100 ppbv
RT: 13.517 min Scan# 4149
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

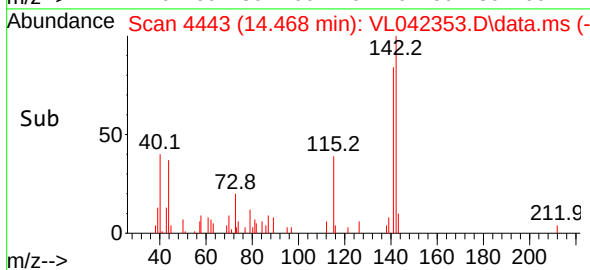
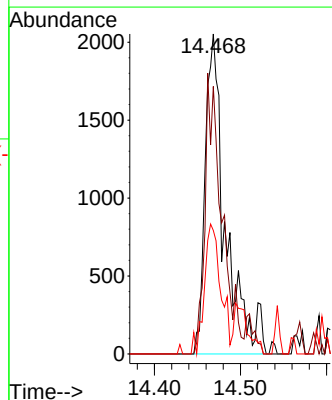
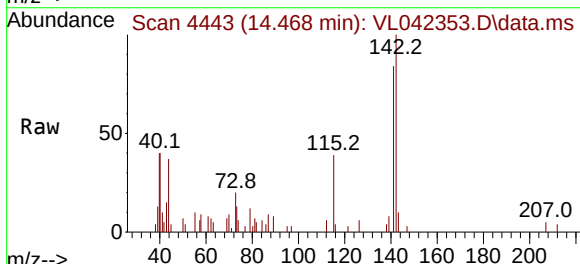
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

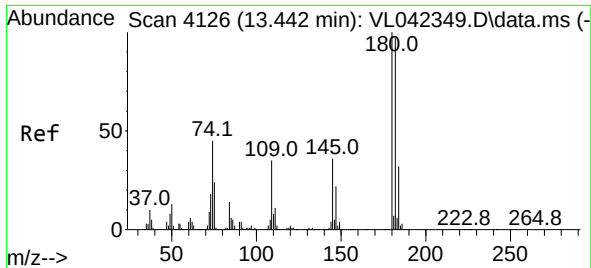
Tgt Ion	128	127	129
Resp:	7664		
Ion Ratio	100	18.1	9.4
Lower		10.6	8.6
Upper		15.8#	12.8



#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	141	115
Resp:	3339		
Ion Ratio	100	78.4	33.1
Lower		66.8	33.4
Upper		100.2	50.2#

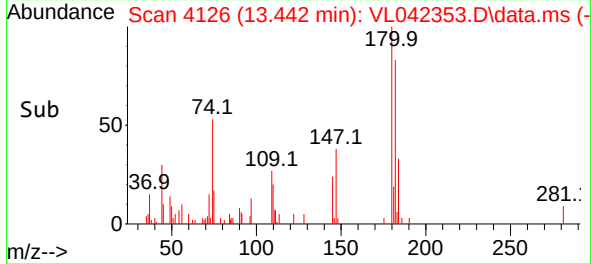
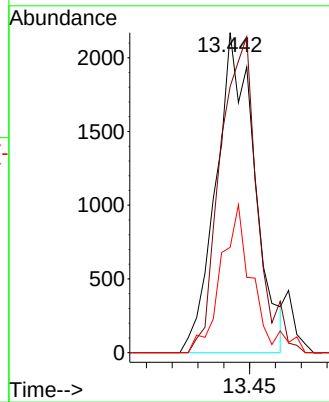
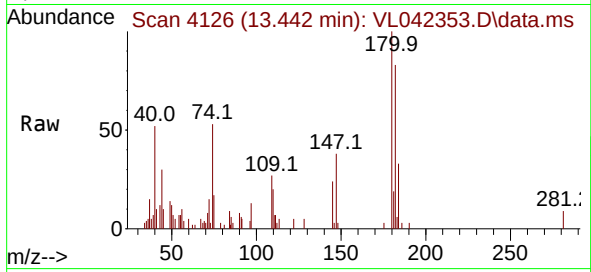




#81
 1,2,4-Trichlorobenzene
 Concen: 0.069 ppbv
 RT: 13.442 min Scan# 41
 Delta R.T. 0.000 min
 Lab File: VL042353.D
 Acq: 17 Apr 2025 11:50

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

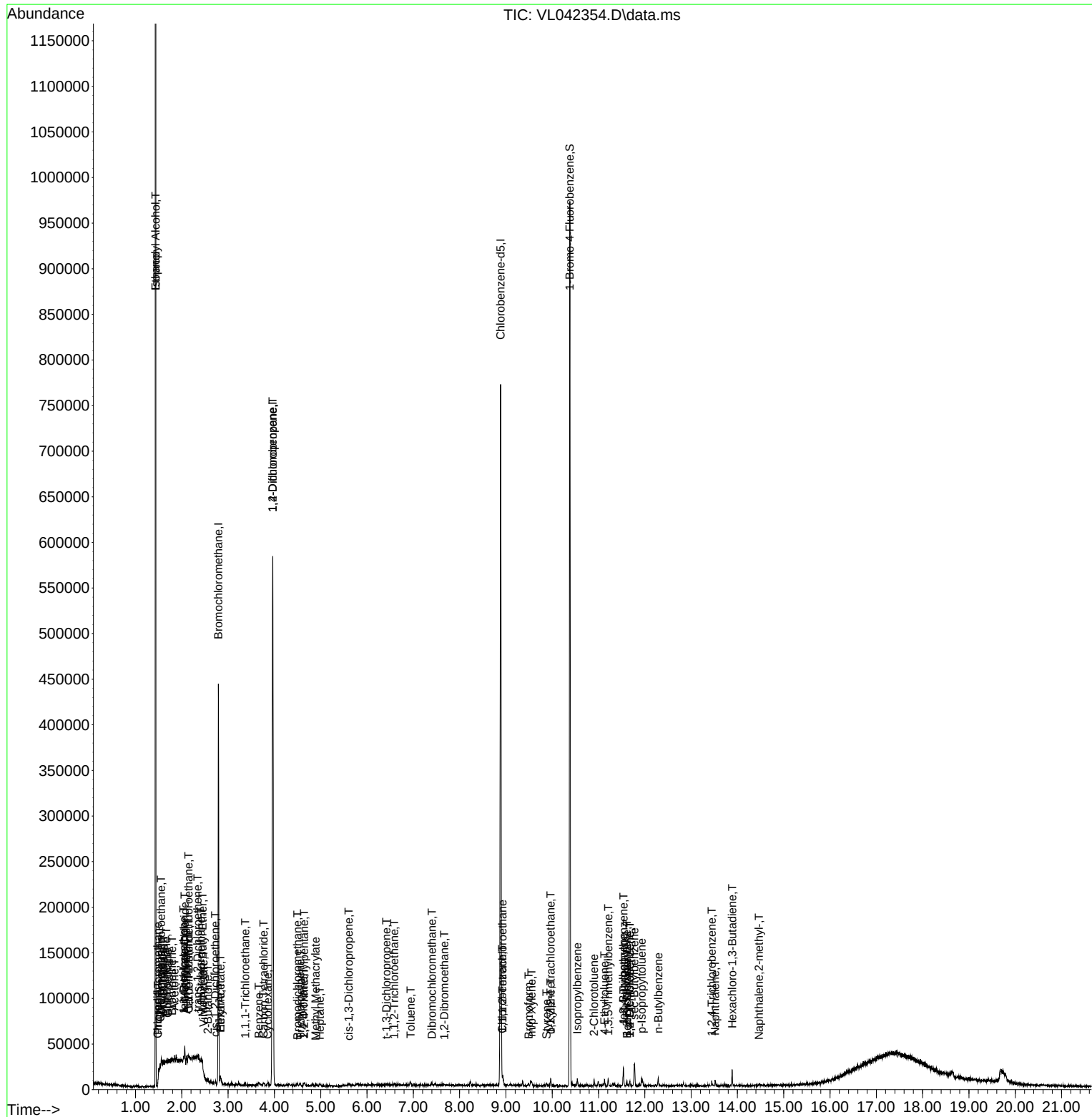
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
54) 1,2-Dibromoethane	7.668	107	422	0.021	ppbv	#	12
56) 1,1,1,2-Tetrachloroethane	8.927	131	589	0.031	ppbv	#	1
57) Chlorobenzene	8.920	112	567	0.017	ppbv	#	74
59) m/p-Xylene	9.555	91	1648	0.033	ppbv	#	32
60) o-Xylene	9.966	91	1938	0.039	ppbv		84
61) Styrene	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

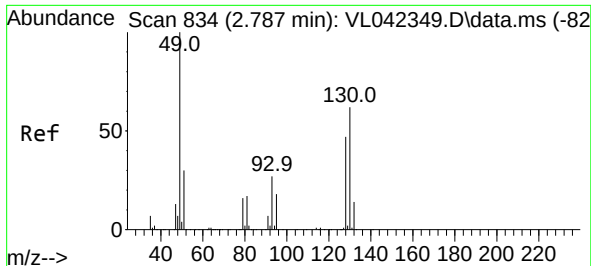
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

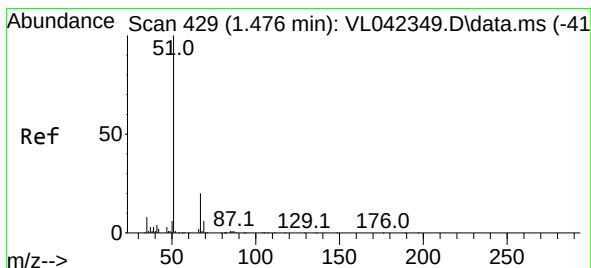
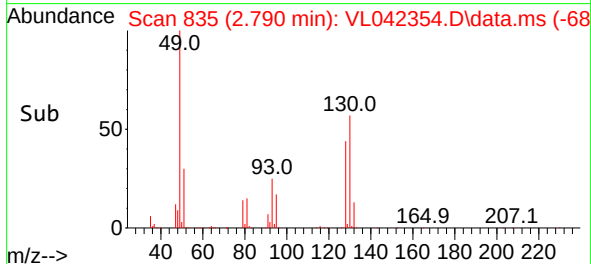
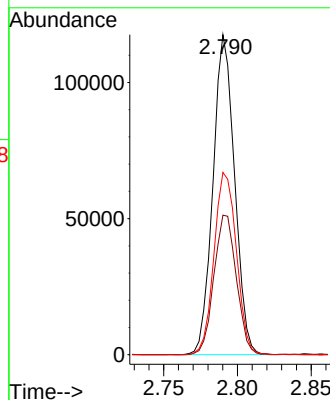
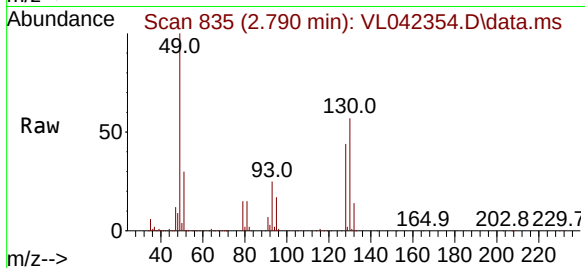




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

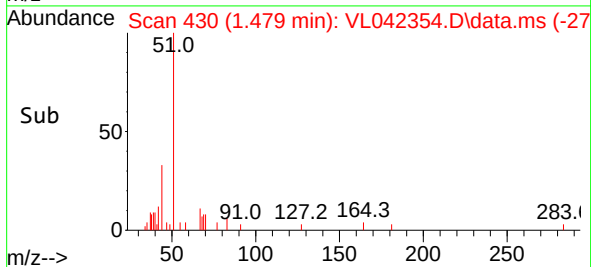
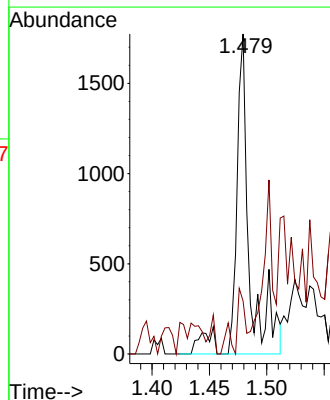
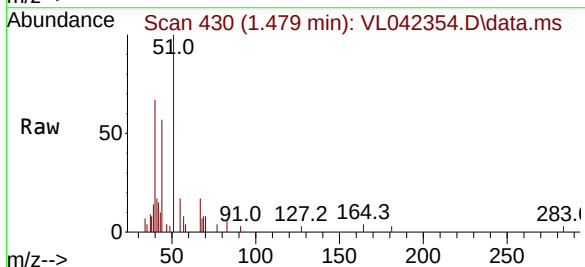
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

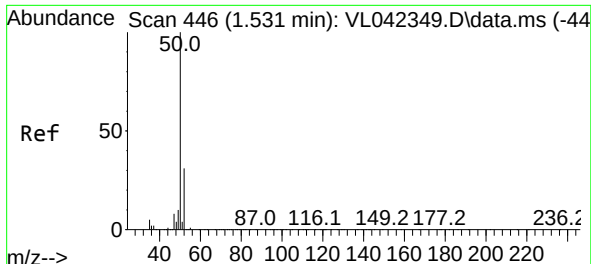
Tgt Ion: 49 Resp: 120042
Ion Ratio Lower Upper
49 100
128 45.3 22.8 68.4
130 59.0 29.3 88.0



#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#

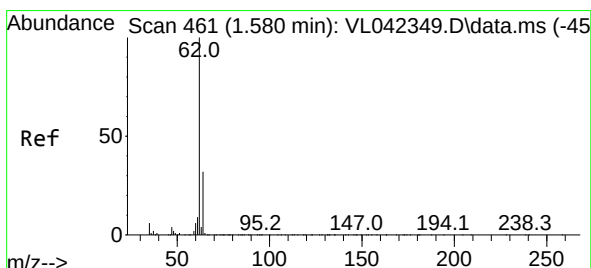
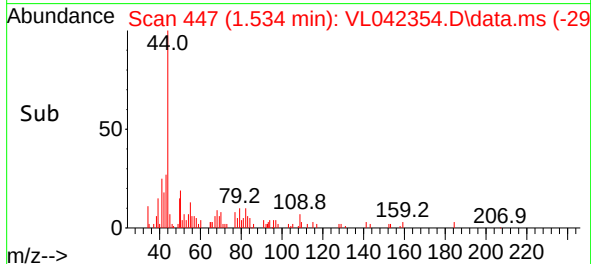
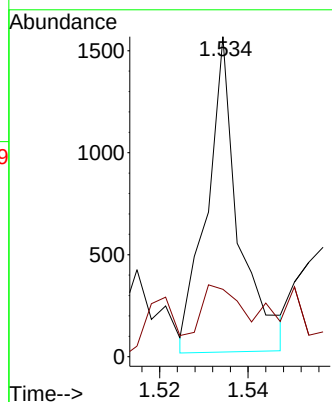
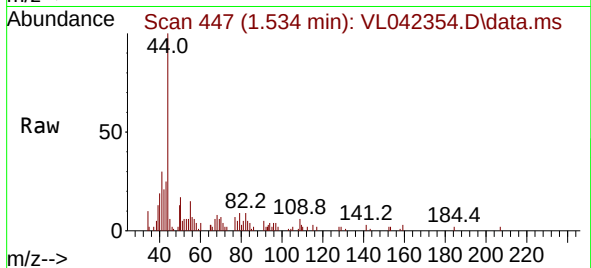




#4
Chloromethane
Concen: 0.092 ppbv
RT: 1.534 min Scan# 446
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

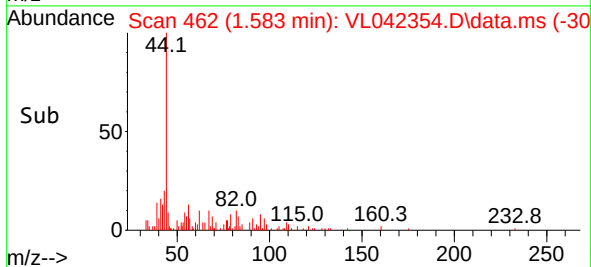
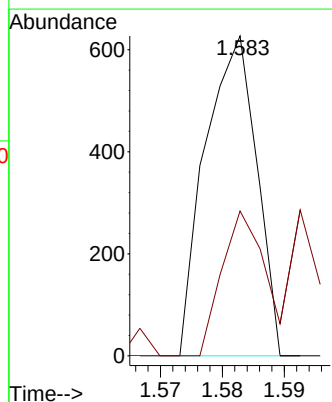
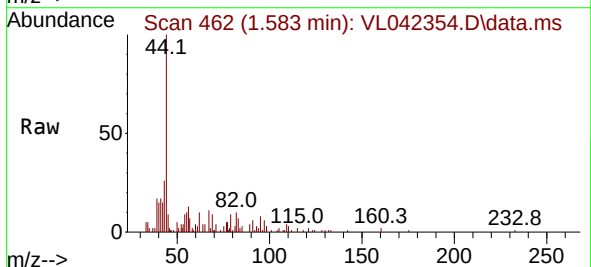
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.03

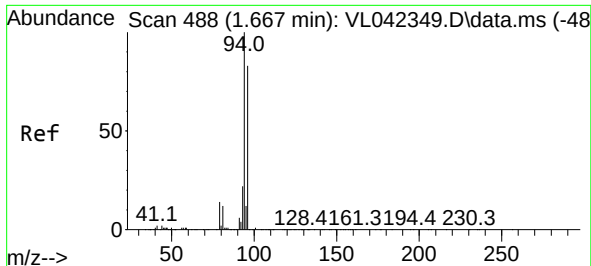
Tgt Ion: 50 Resp: 773
Ion Ratio Lower Upper
50 100
52 15.3 24.7 37.1#



#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#

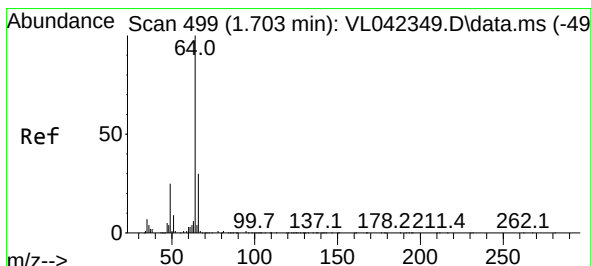
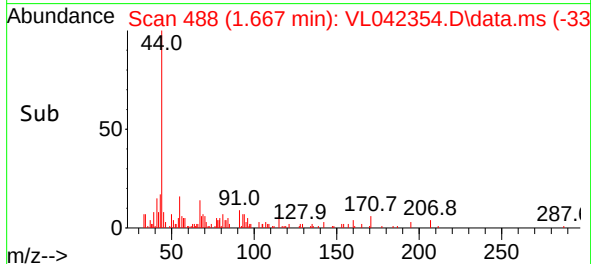
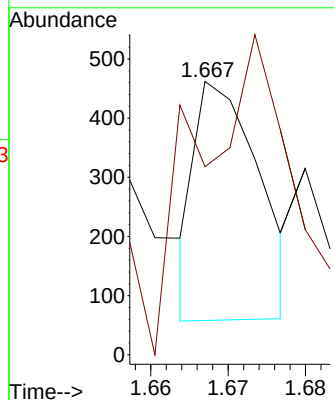
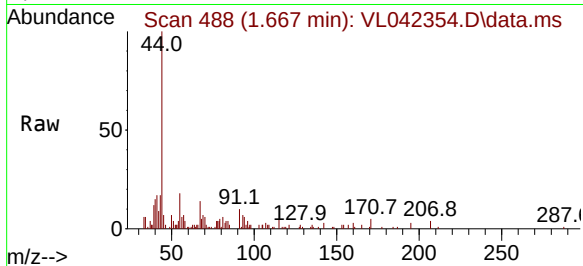




#6
Bromomethane
Concen: 0.059 ppbv
RT: 1.667 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

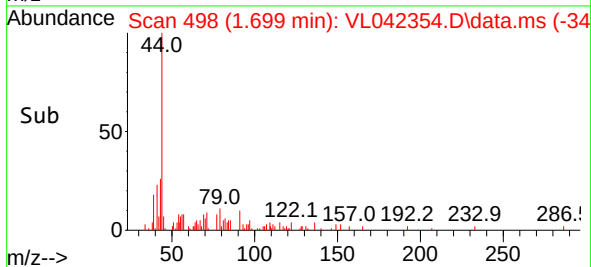
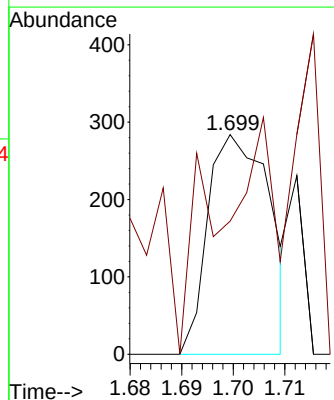
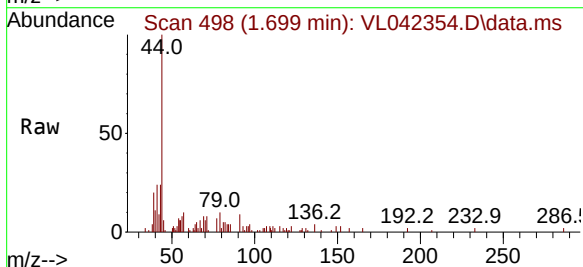
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.03

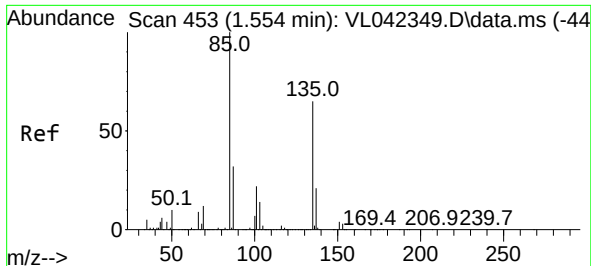
Tgt Ion: 94 Resp: 232
Ion Ratio Lower Upper
94 100
96 0.0 66.2 99.2#



#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#

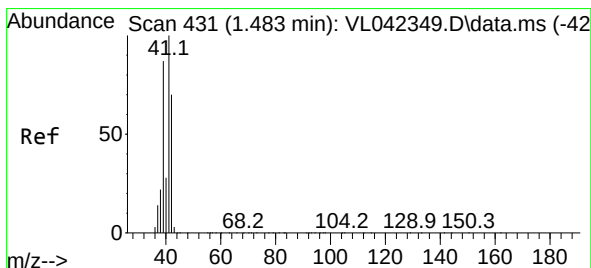
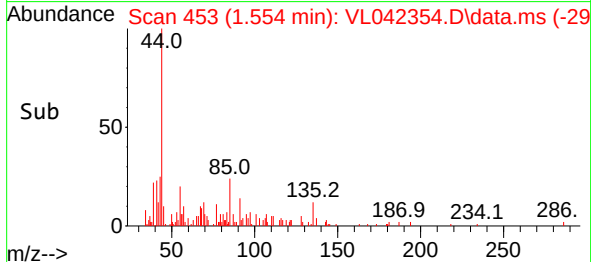
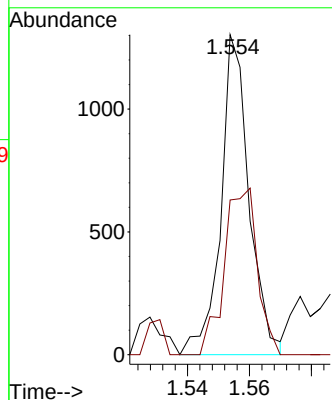
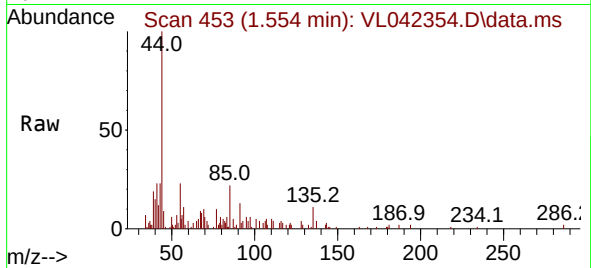




#8
Dichlorotetrafluoroethane
Concen: 0.045 ppbv
RT: 1.554 min Scan# 411
Delta R.T. -0.000 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

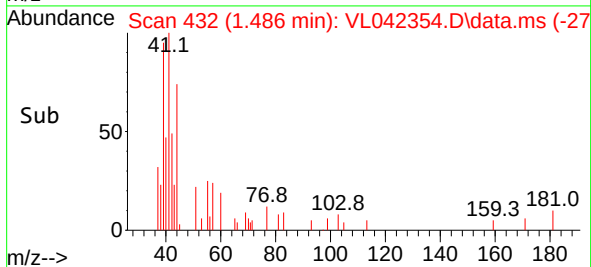
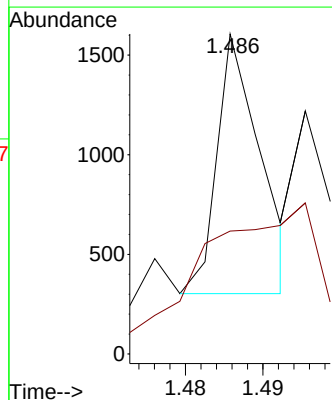
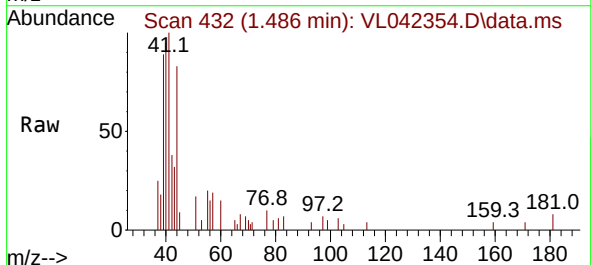
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

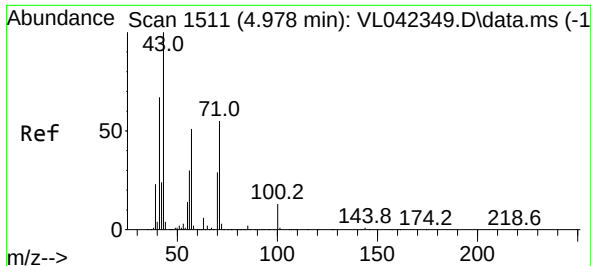
Tgt Ion: 85 Resp: 823
Ion Ratio Lower Upper
85 100
135 69.1 52.2 78.2



#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#

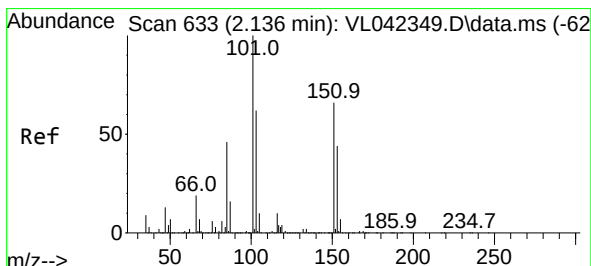
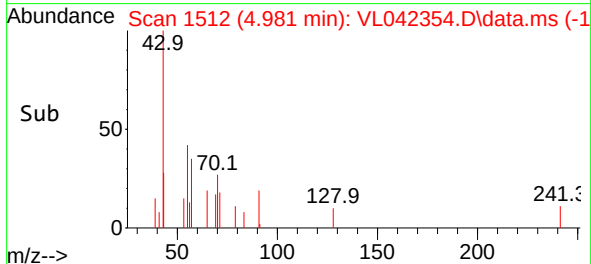
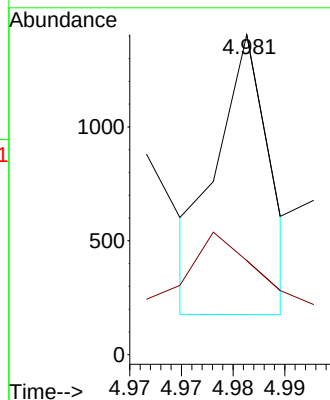
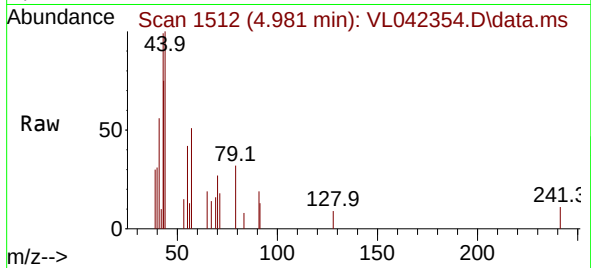




#10
Heptane
Concen: 0.018 ppbv
RT: 4.981 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

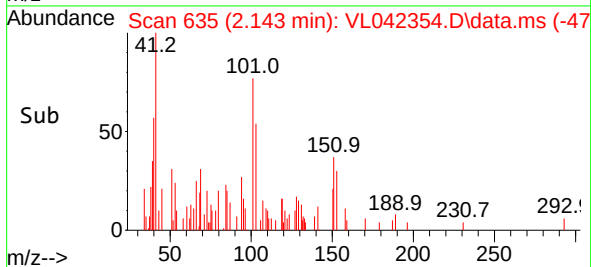
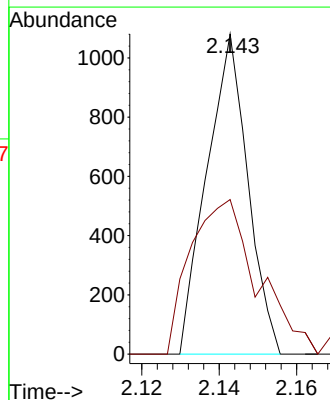
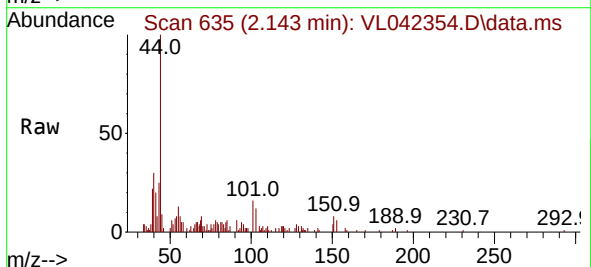
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

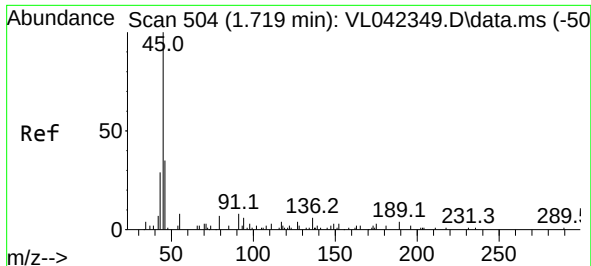
Tgt Ion: 43 Resp: 435
Ion Ratio Lower Upper
43 100
57 283.4 39.9 59.9#



#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#

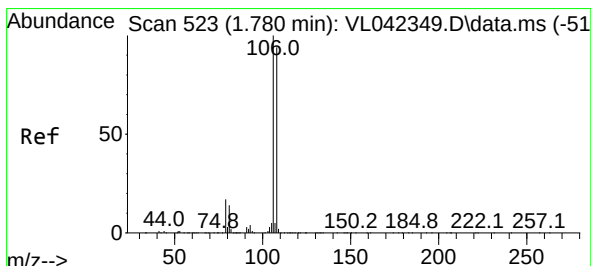
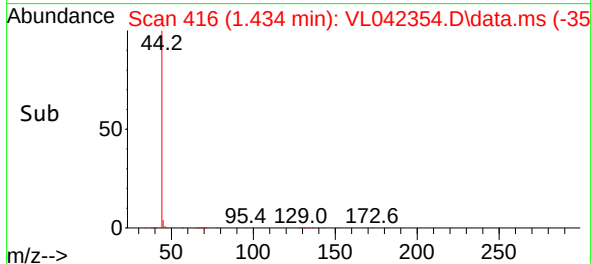
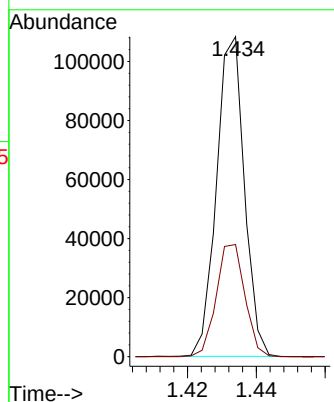
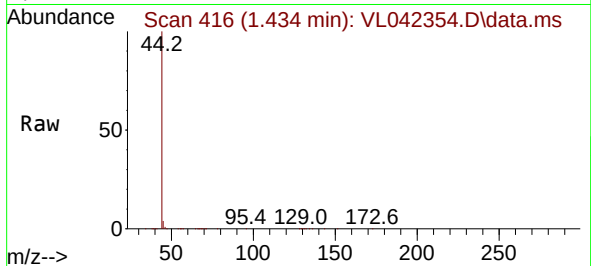




#13
Ethanol
Concen: 81.065 ppbv
RT: 1.434 min Scan# 416
Delta R.T. -0.285 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

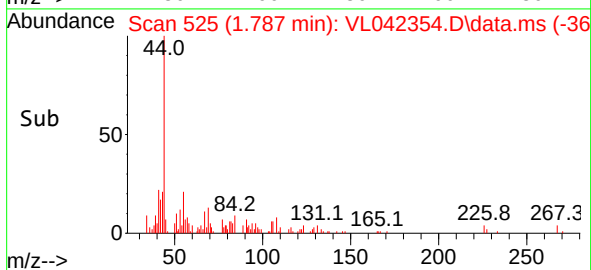
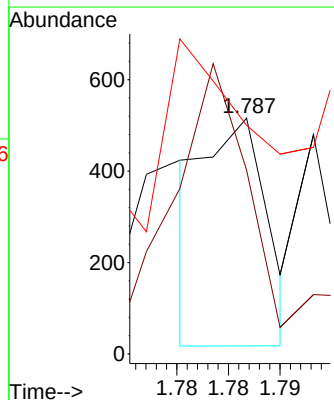
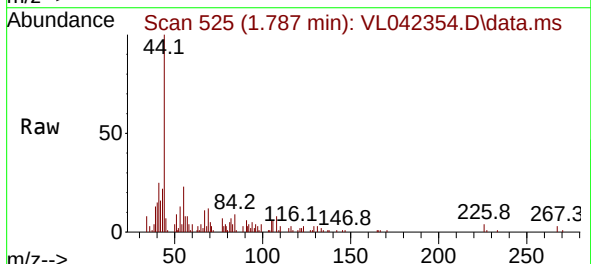
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

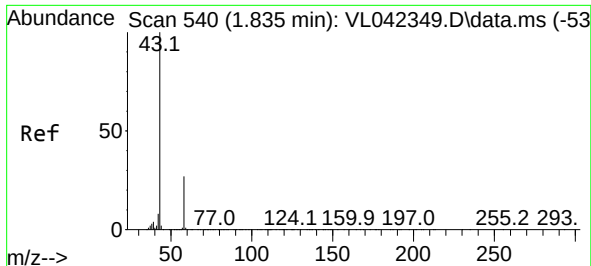
Tgt Ion: 45 Resp: 60931
Ion Ratio Lower Upper
45 100
46 36.1 21.9 87.7



#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#

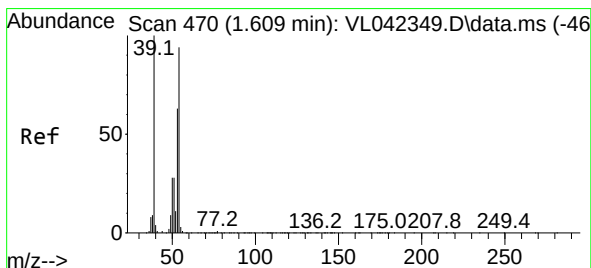
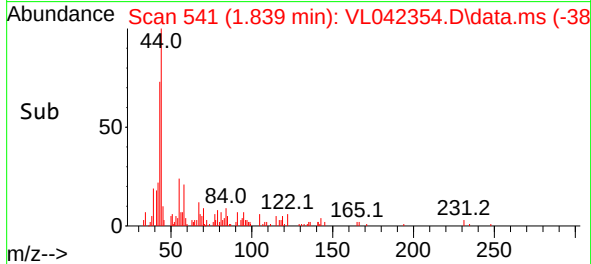
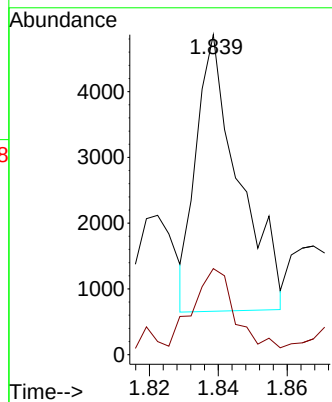
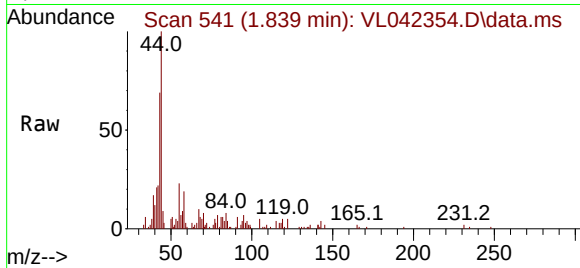




#15
Acetone
Concen: 0.183 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

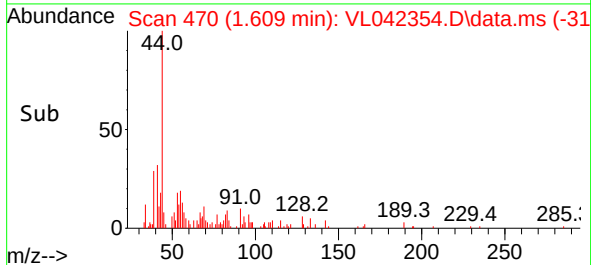
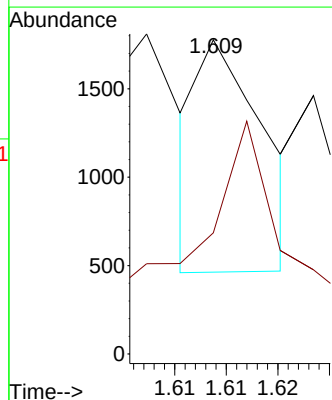
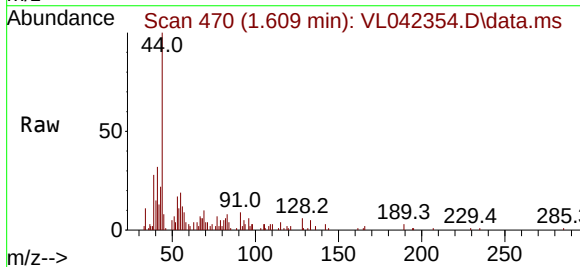
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

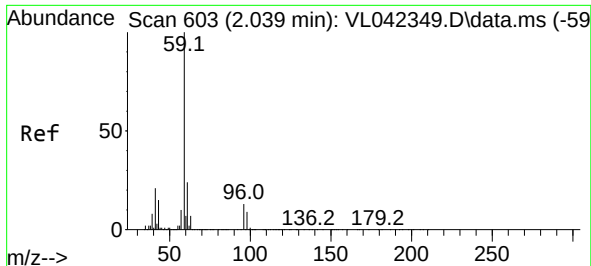
Tgt Ion: 43 Resp: 3597
Ion Ratio Lower Upper
43 100
58 33.7 22.4 33.6#



#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_L

ClientSampleId :

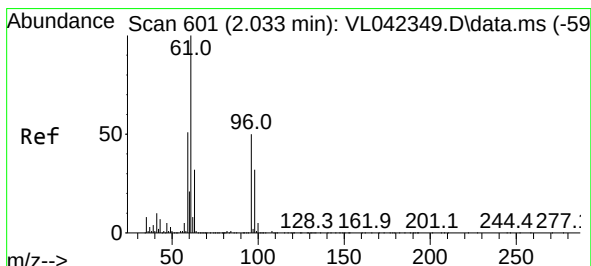
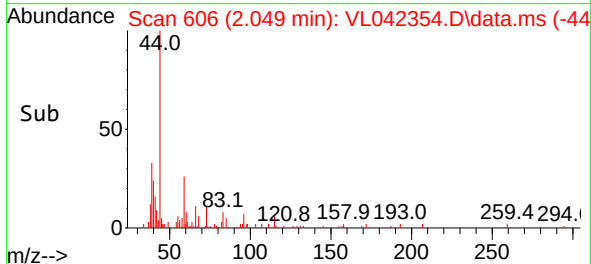
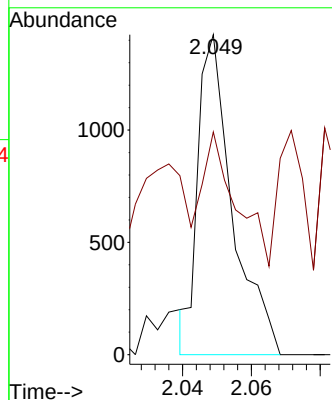
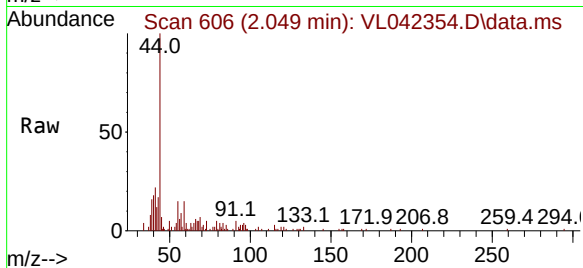
VSTDIC0.03

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

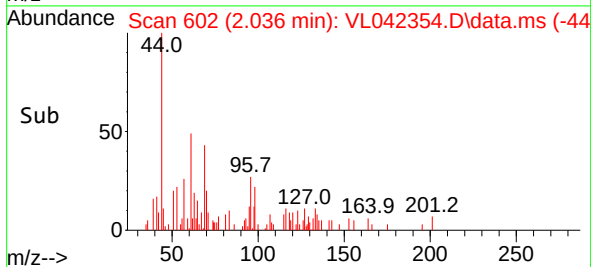
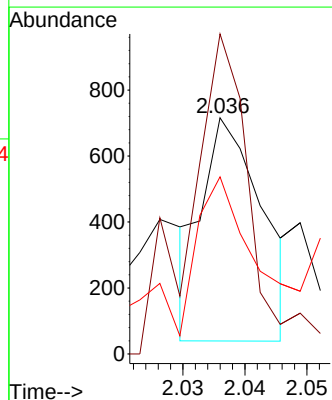
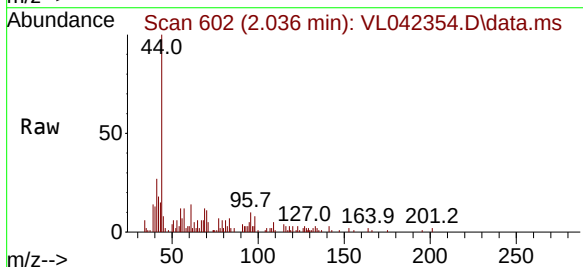
Tgt Ion: 96 Resp: 455

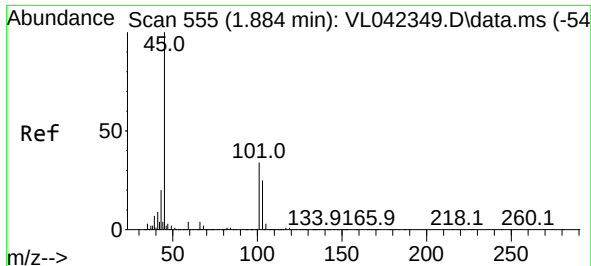
Ion Ratio Lower Upper

96 100

61 271.0 160.2 240.2#

98 132.1 51.0 76.4#

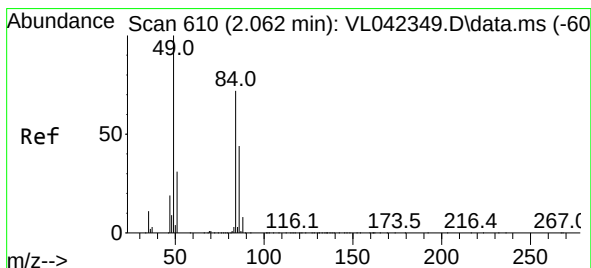
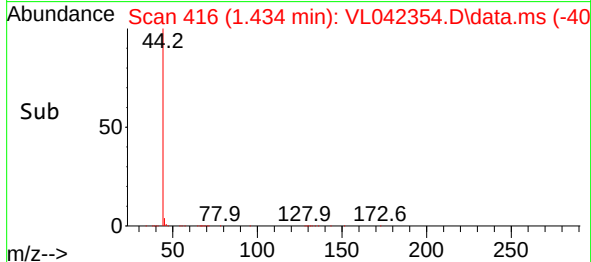
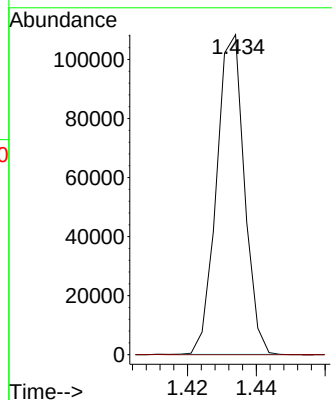
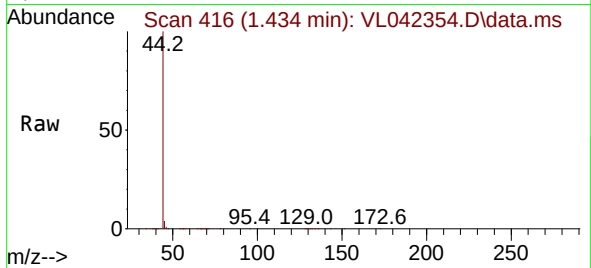




#19
Isopropyl Alcohol
Concen: 5.582 ppbv
RT: 1.434 min Scan# 416
Delta R.T. -0.450 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

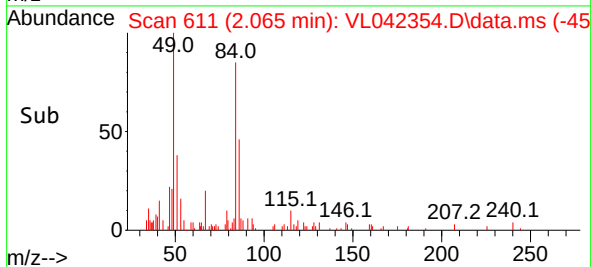
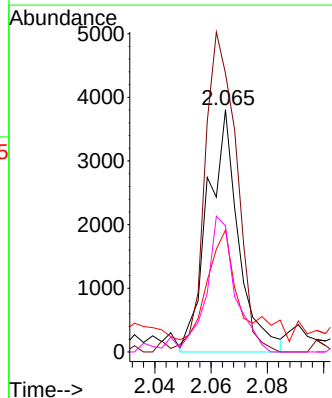
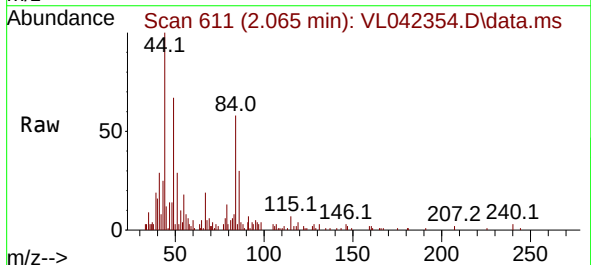
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.03

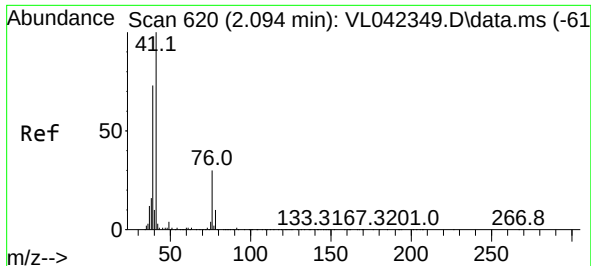
Tgt Ion: 45 Resp: 60931
Ion Ratio Lower Upper
45 100
58 0.2 34.5 51.7#



#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

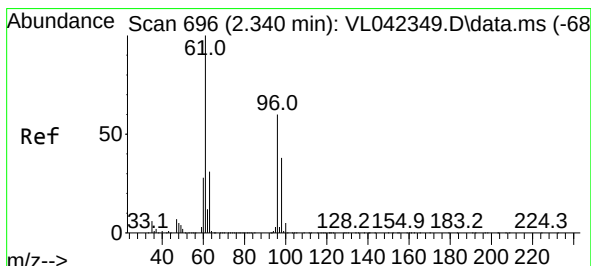
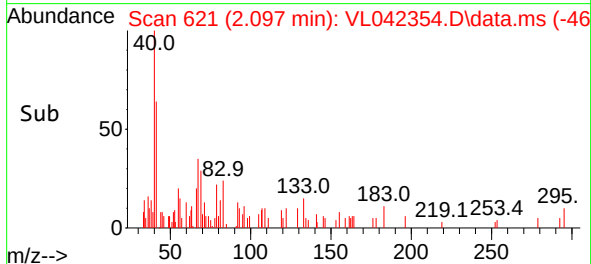
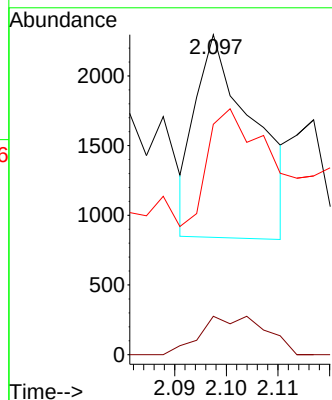
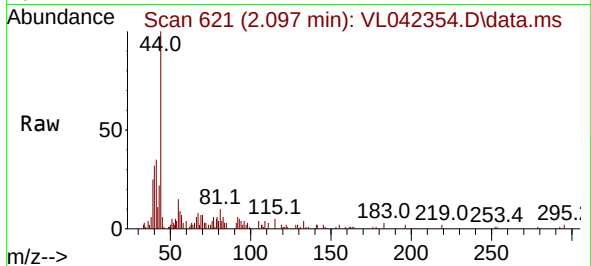




#21
 Allyl Chloride
 Concen: 0.083 ppbv
 RT: 2.097 min Scan# 61
 Delta R.T. 0.003 min
 Lab File: VL042354.D
 Acq: 17 Apr 2025 12:22

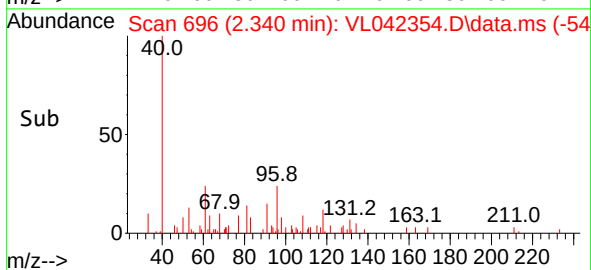
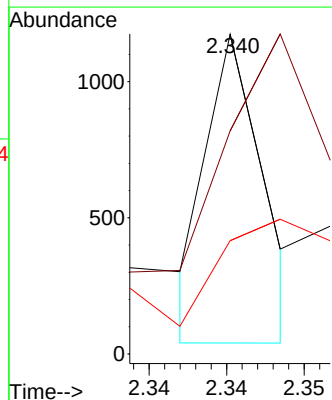
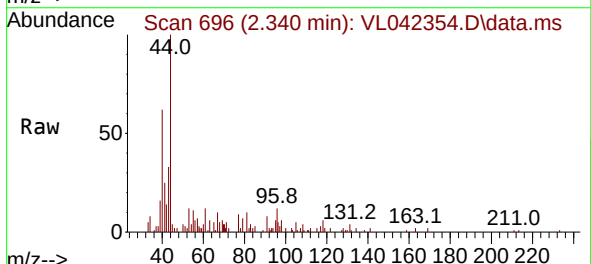
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

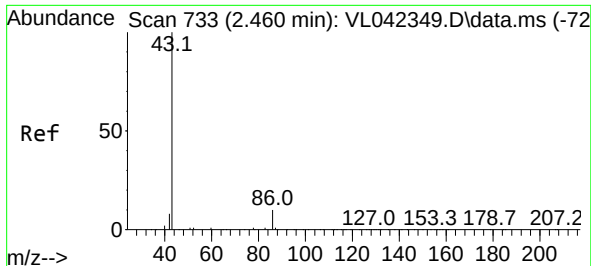
Tgt Ion: 41 Resp: 1132
 Ion Ratio Lower Upper
 41 100
 76 21.5 24.8 37.2#
 39 407.5 60.6 90.8#



#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#

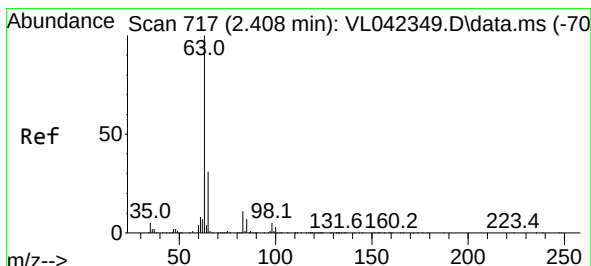
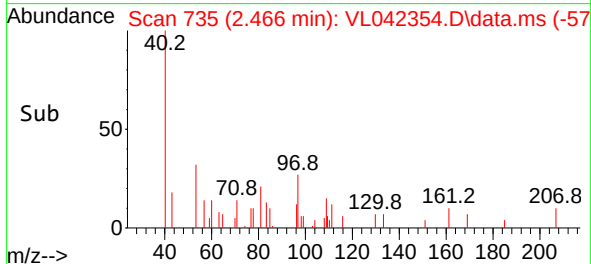
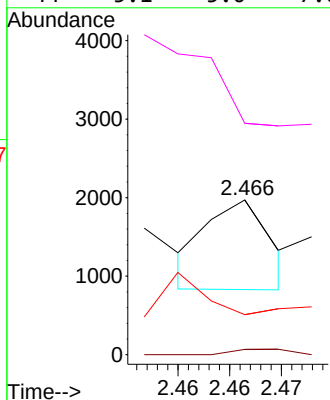
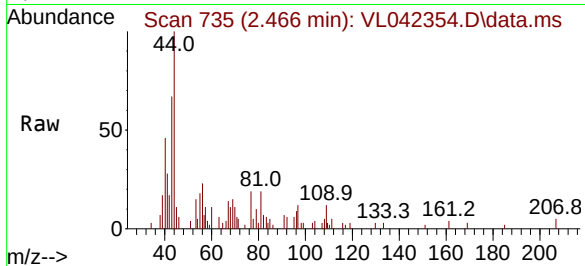




#23
 Vinyl Acetate
 Concen: 0.062 ppbv
 RT: 2.466 min Scan# 719
 Delta R.T. 0.006 min
 Lab File: VL042354.D
 Acq: 17 Apr 2025 12:22

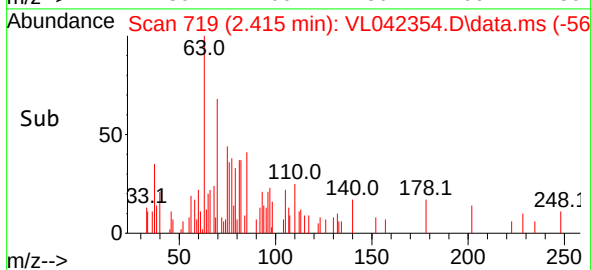
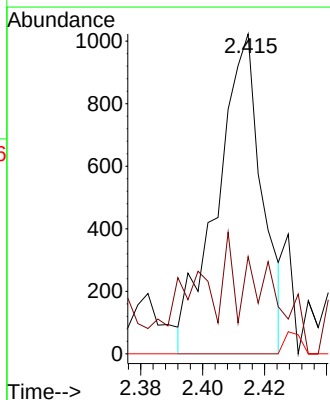
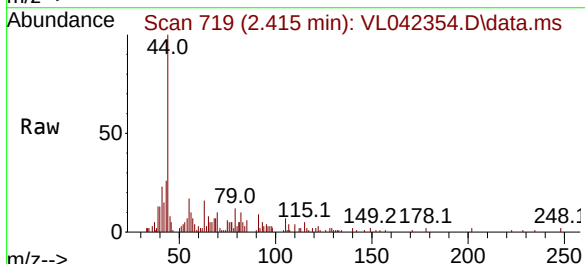
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.03

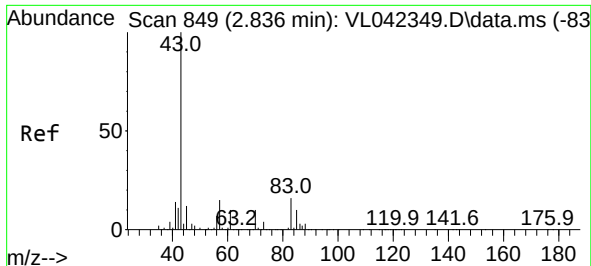
Tgt Ion: 43	Resp:	490
Ion Ratio	Lower	Upper
43	100	
86	10.1	6.5 9.7#
42	0.0	7.8 11.8#
44	5.1	5.0 7.6



#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#

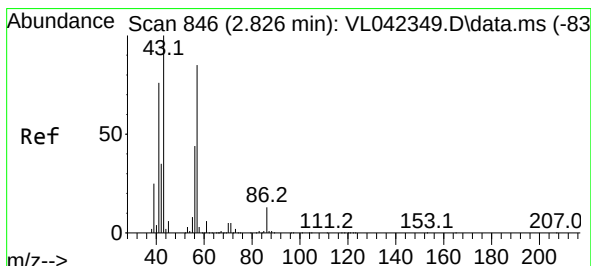
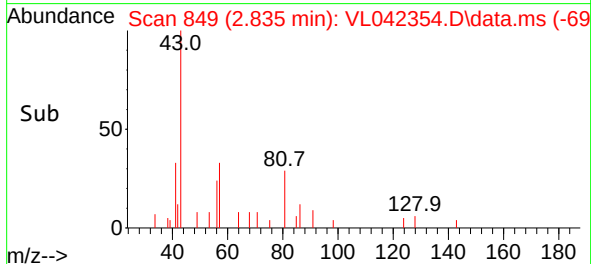
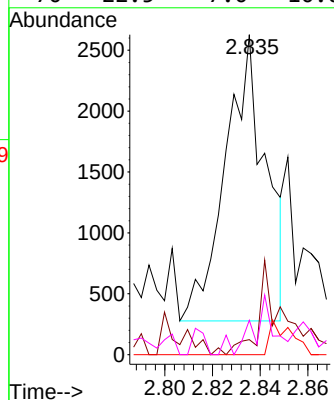
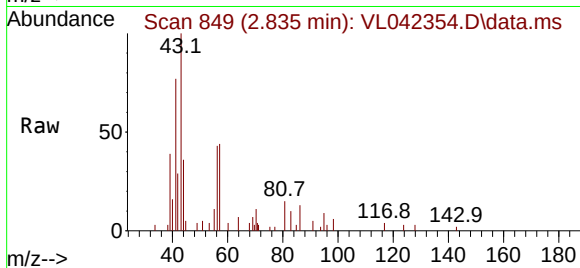




#25
Ethyl Acetate
Concen: 0.057 ppbv
RT: 2.835 min Scan# 849
Delta R.T. -0.000 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

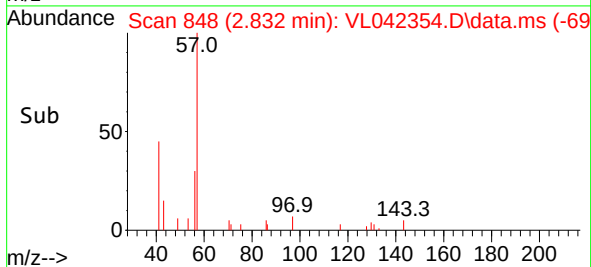
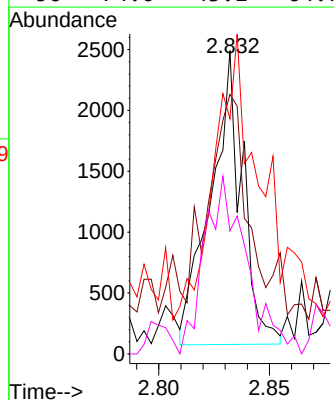
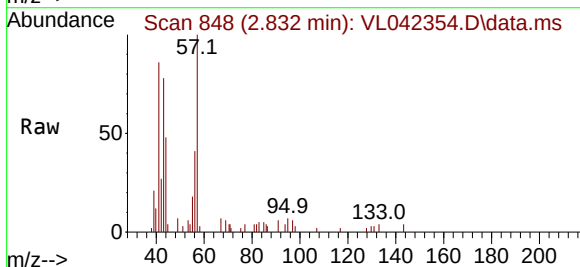
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

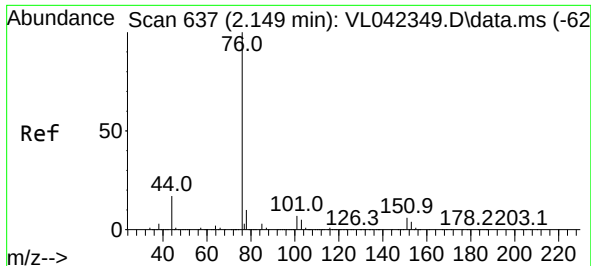
Tgt Ion: 43	Resp: 2744
Ion Ratio	Lower Upper
43 100	
45 21.1	8.3 12.5#
61 6.4	7.3 10.9#
70 22.5	7.0 10.6#



#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 :

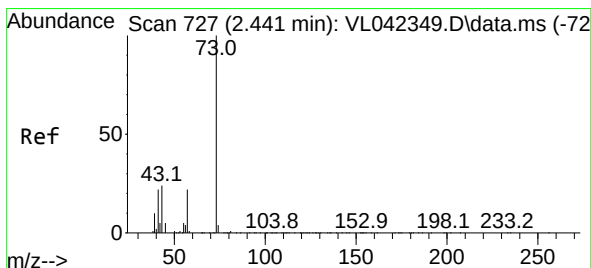
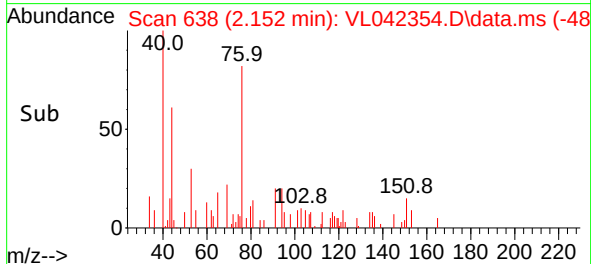
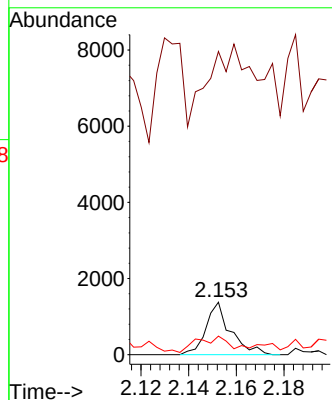
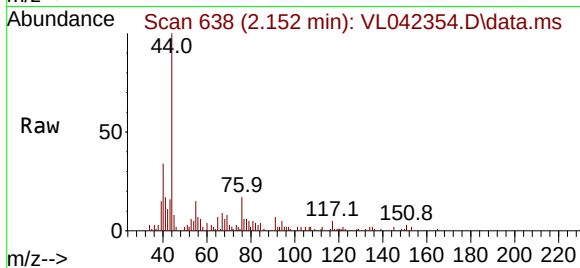
MSVOA_1

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

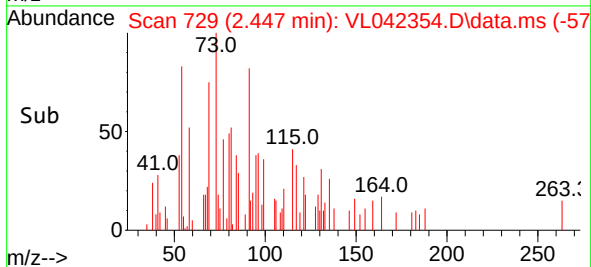
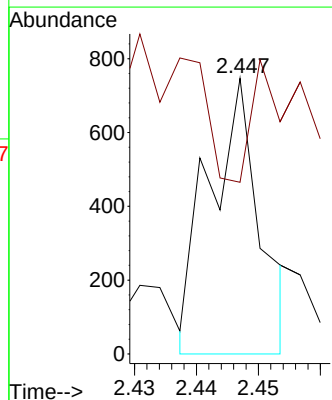
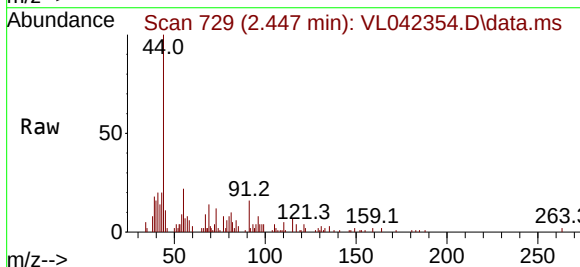
Delta R.T. 0.006 min

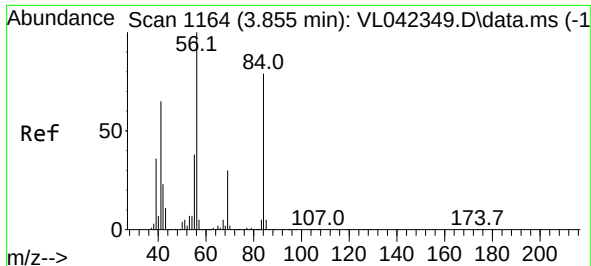
Lab File: VL042354.D

Acq: 17 Apr 2025 12:22

Tgt Ion: 73 Resp: 426

Ion	Ratio	Lower	Upper
73	100		
57	0.0	21.3	31.9#

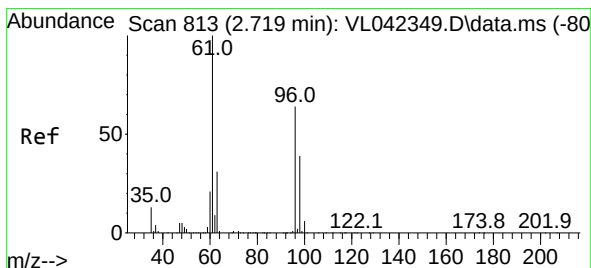
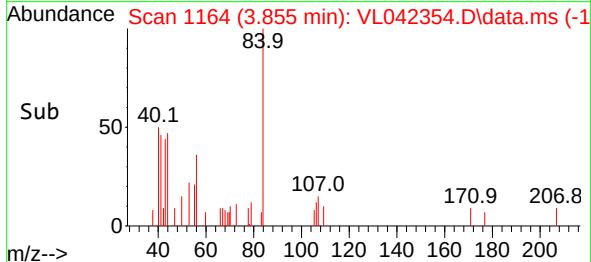
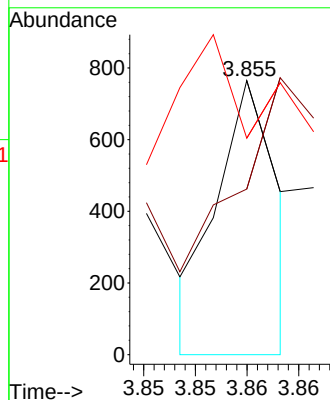
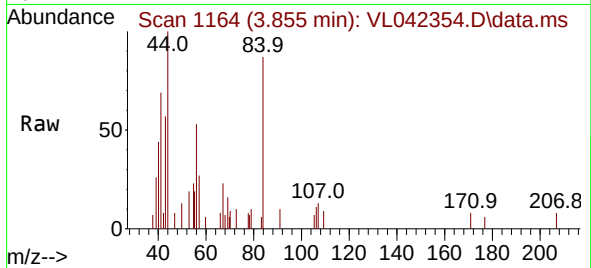




#30
Cyclohexane
Concen: 0.020 ppbv
RT: 3.855 min Scan# 1164
Delta R.T. -0.000 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

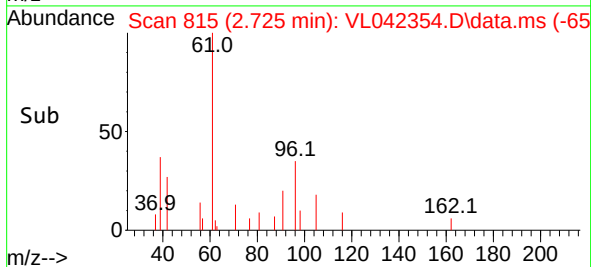
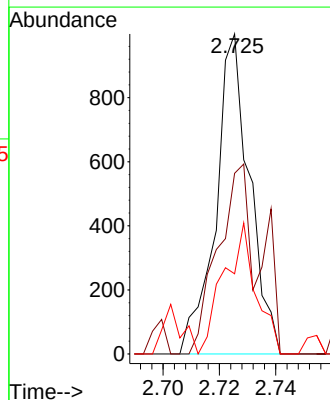
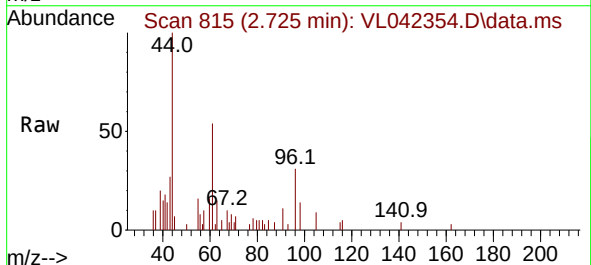
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

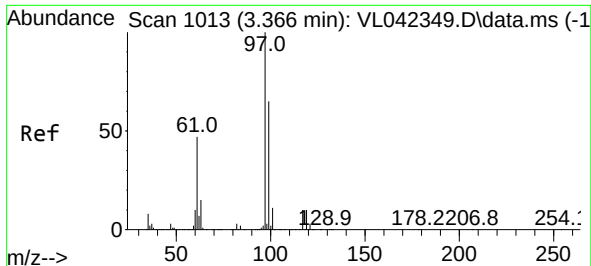
Tgt Ion: 84 Resp: 311
Ion Ratio Lower Upper
84 100
56 0.0 101.0 151.4#
41 0.0 67.4 101.0#



#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#

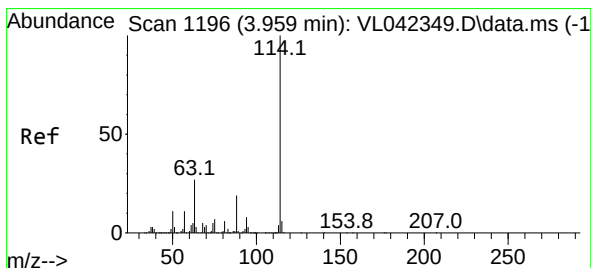
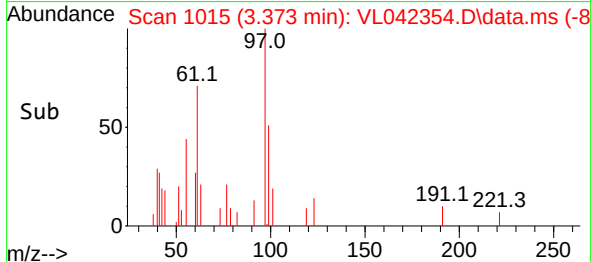
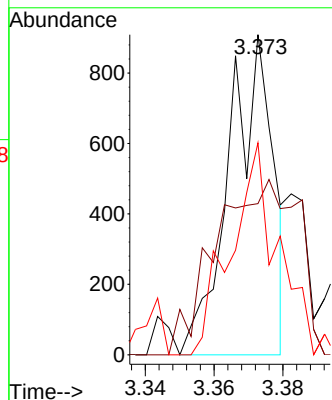
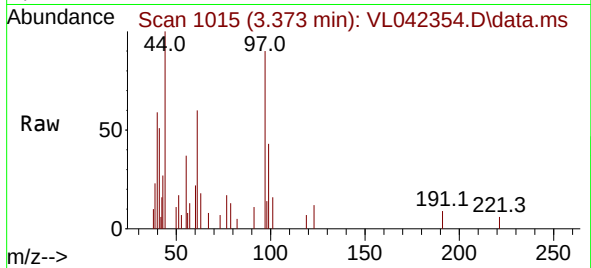




#32
 1,1,1-Trichloroethane
 Concen: 0.027 ppbv
 RT: 3.373 min Scan# 1109
 Delta R.T. 0.006 min
 Lab File: VL042354.D
 Acq: 17 Apr 2025 12:22

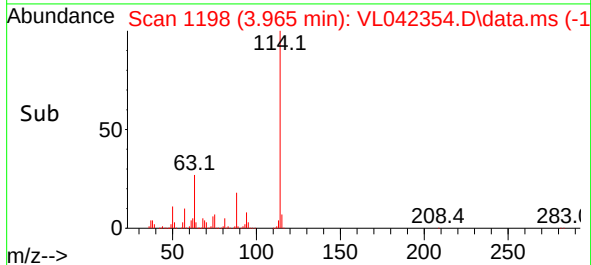
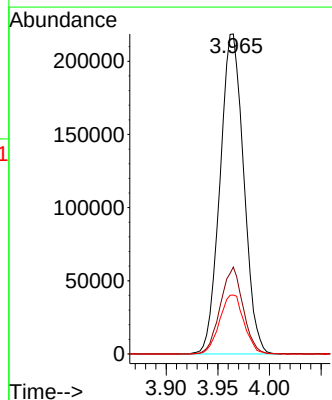
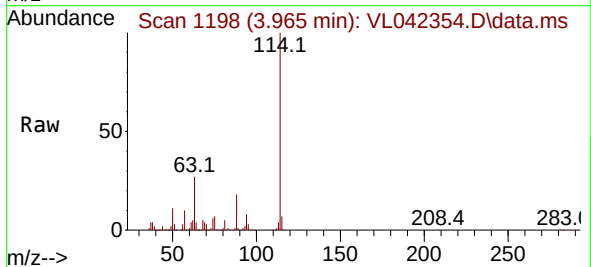
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

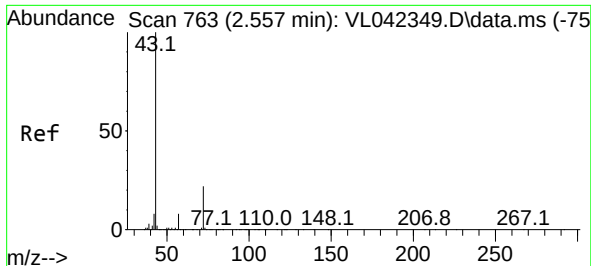
Tgt Ion: 97 Resp: 809
 Ion Ratio Lower Upper
 97 100
 99 103.0 51.0 76.4#
 61 78.7 38.8 58.2#



#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

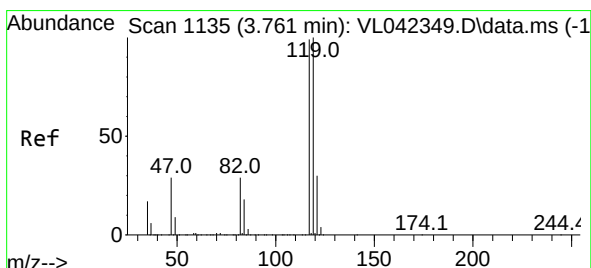
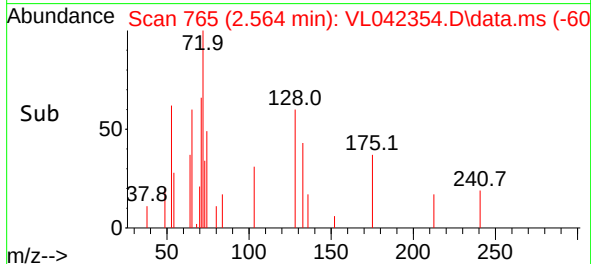
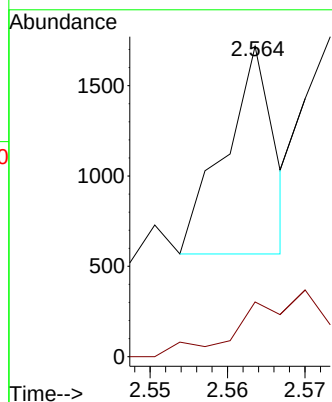
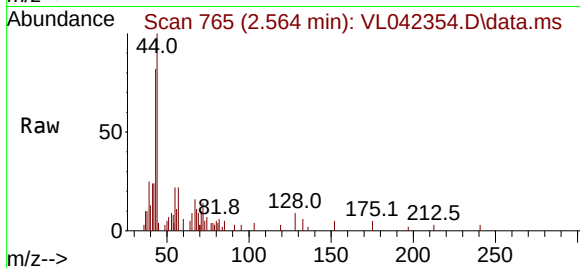




#34
2-Butanone
Concen: 0.018 ppbv
RT: 2.564 min Scan# 71
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

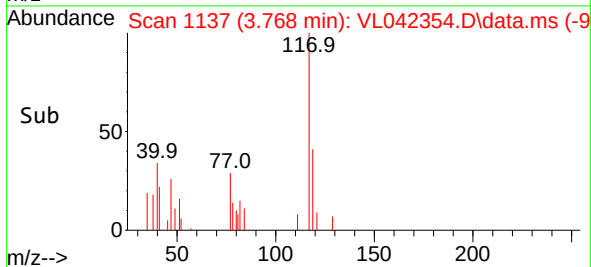
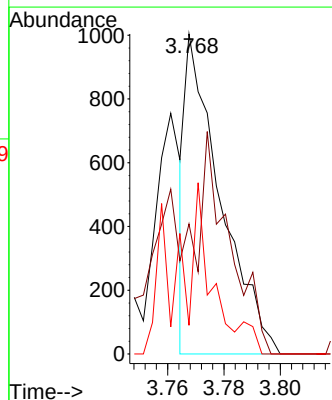
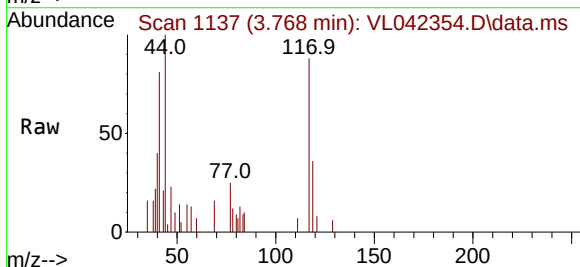
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.03

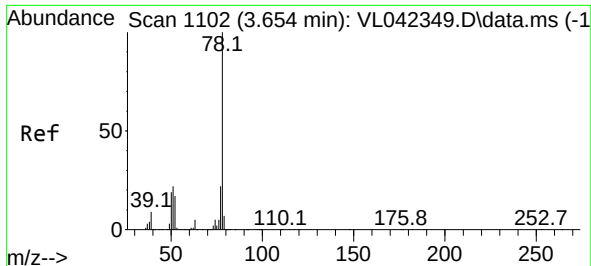
Tgt Ion: 43 Resp: 510
Ion Ratio Lower Upper
43 100
72 0.0 18.2 27.2#



#35
Carbon Tetrachloride
Concen: 0.027 ppbv
RT: 3.768 min Scan# 1137
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 117 Resp: 862
Ion Ratio Lower Upper
117 100
119 40.6 80.5 120.7#
121 9.0 24.2 36.2#

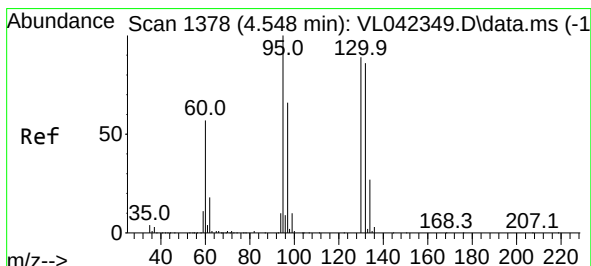
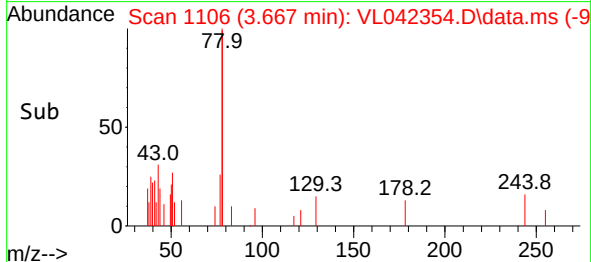
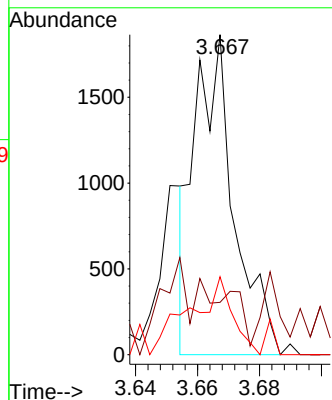
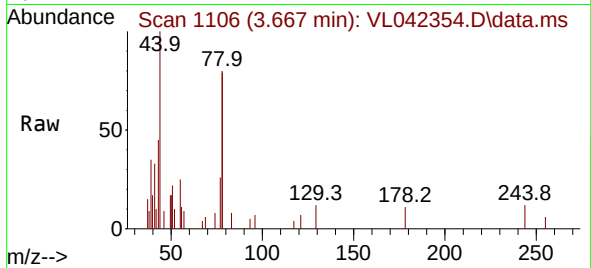




#36
Benzene
Concen: 0.043 ppbv
RT: 3.667 min Scan# 1106
Delta R.T. 0.013 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

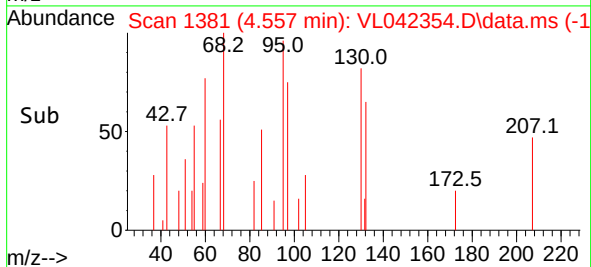
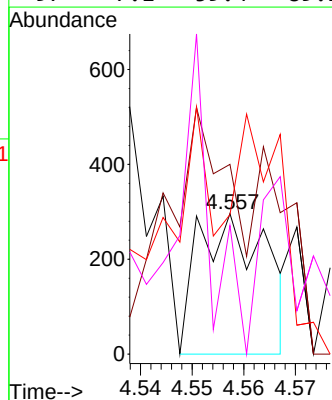
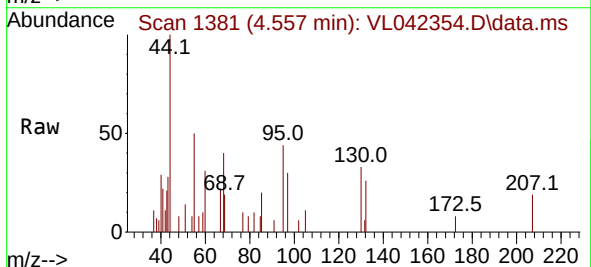
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.03

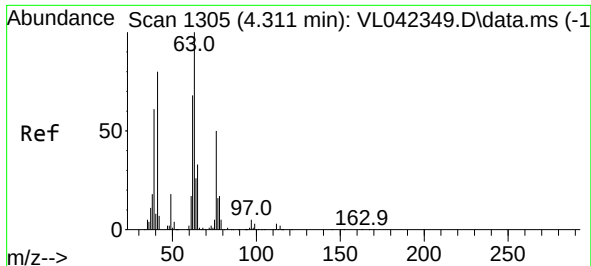
Tgt Ion: 78 Resp: 1629
Ion Ratio Lower Upper
78 100
77 4.6 17.4 26.0#
50 25.2 15.5 23.3#



#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 :

VSTDICC0.03

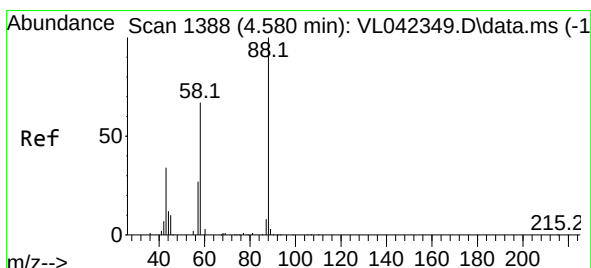
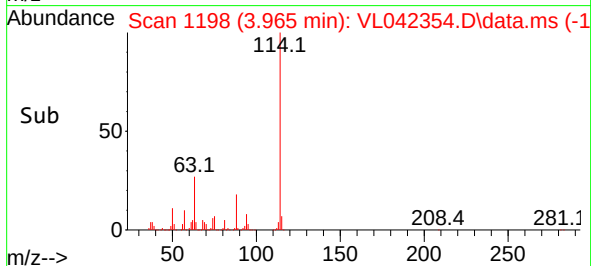
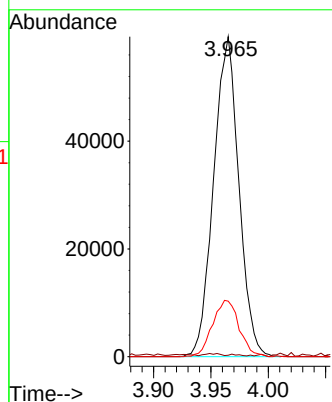
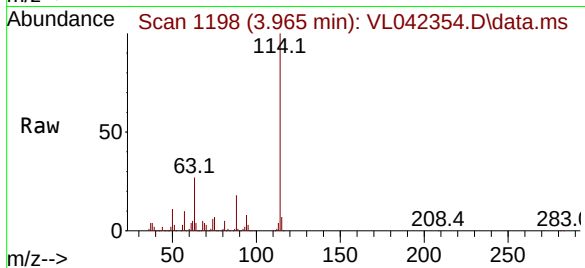
Tgt Ion: 63 Resp: 90827

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

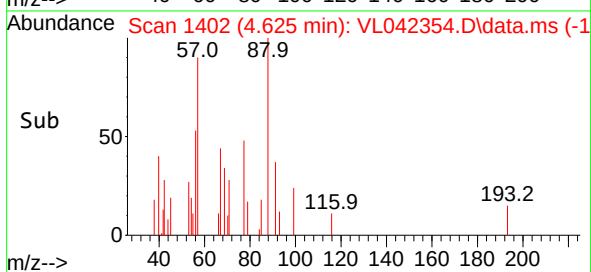
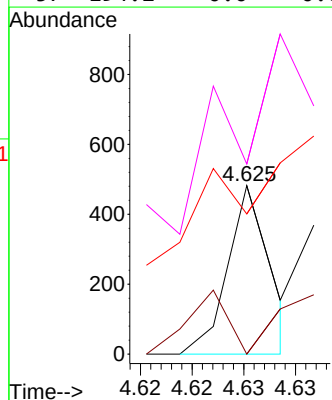
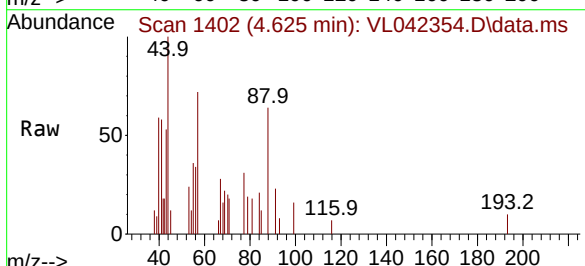
Ion Ratio Lower Upper

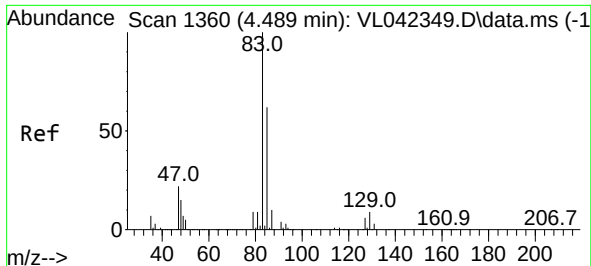
88 100

58 0.0 61.4 92.0#

43 251.8 23.2 34.8#

57 194.2 0.0 0.0#

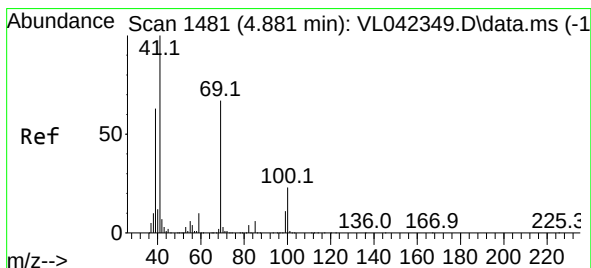
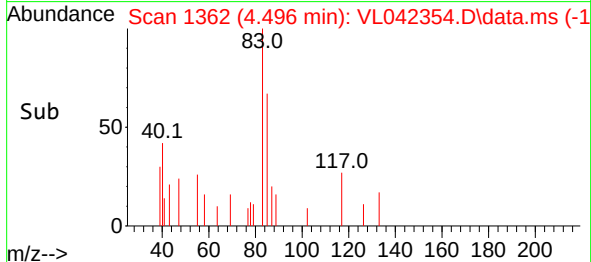
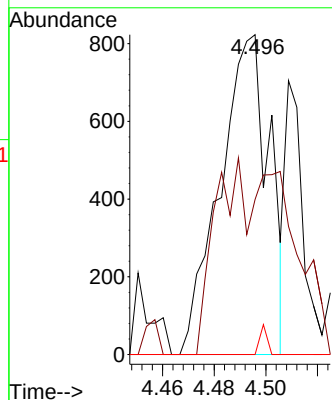
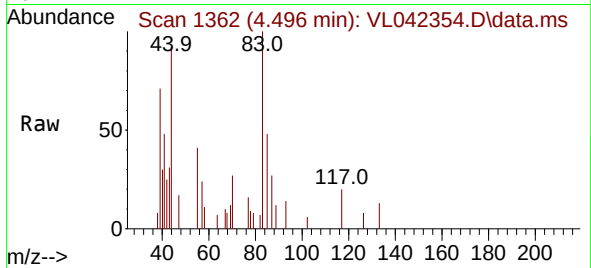




#42
Bromodichloromethane
Concen: 0.035 ppbv
RT: 4.496 min Scan# 11
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

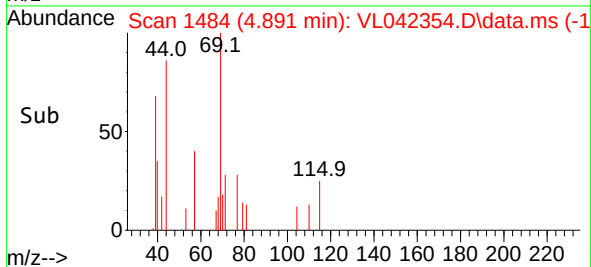
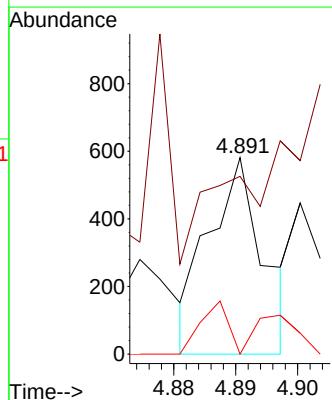
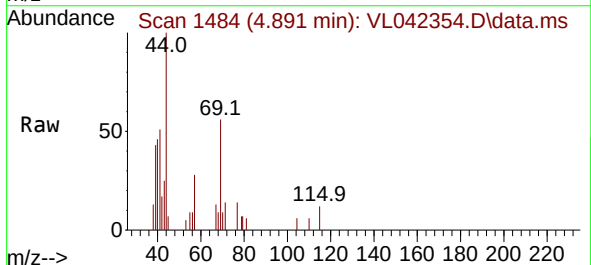
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

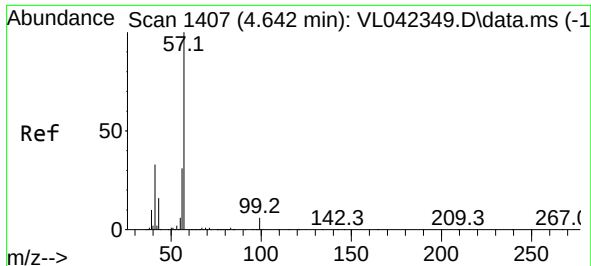
Tgt Ion: 83 Resp: 1093
Ion Ratio Lower Upper
83 100
85 48.5 49.7 74.5#
127 0.0 5.1 7.7#



#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

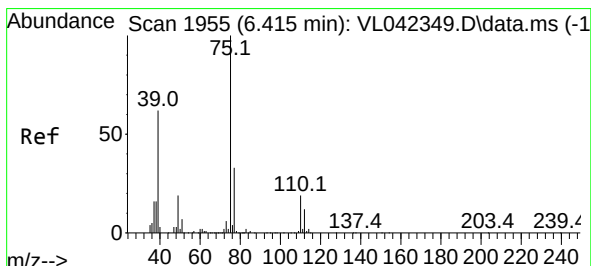
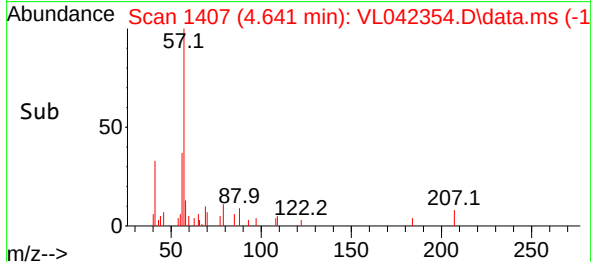
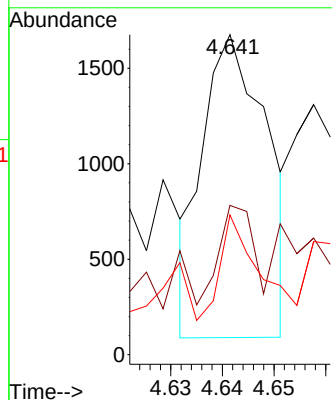
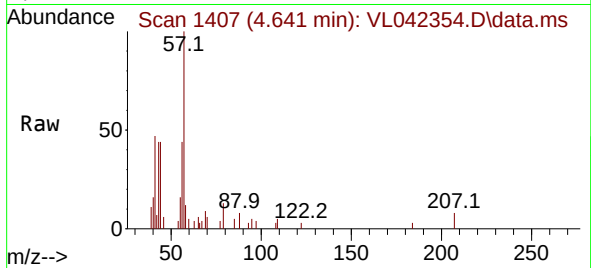




#44
2,2,4-Trimethylpentane
Concen: 0.021 ppbv
RT: 4.641 min Scan# 1407
Delta R.T. -0.000 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

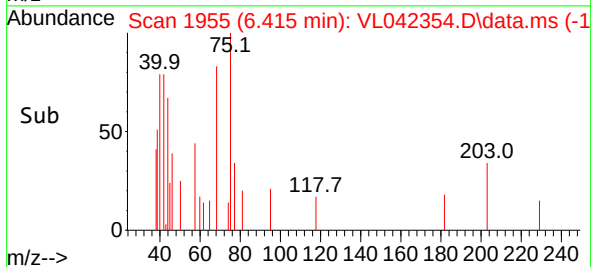
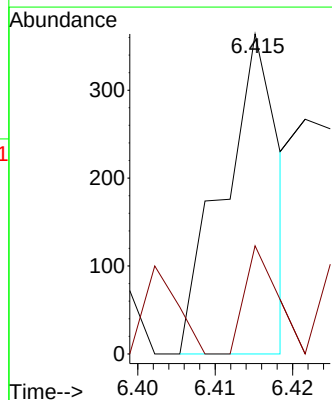
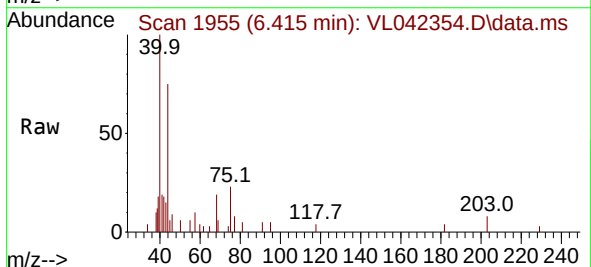
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.03

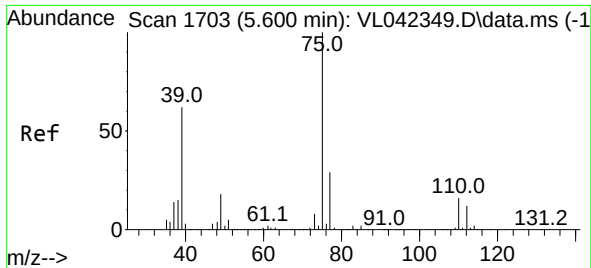
Tgt Ion: 57 Resp: 1377
Ion Ratio Lower Upper
57 100
41 0.0 27.2 40.8#
56 139.0 25.7 38.5#



#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

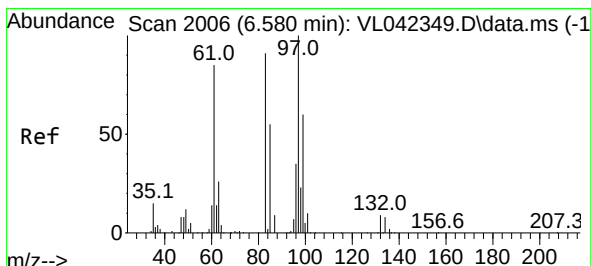
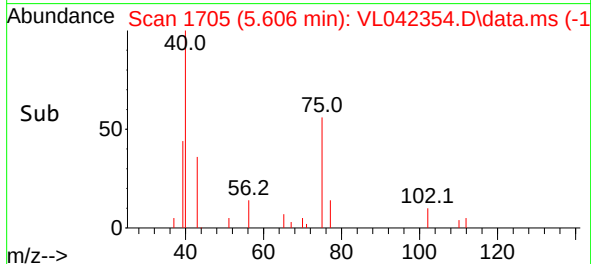
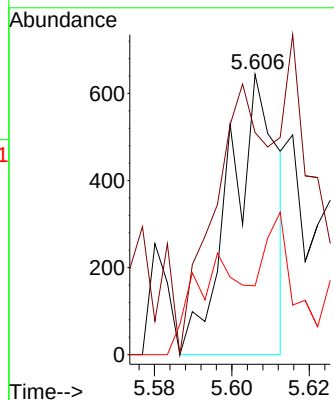
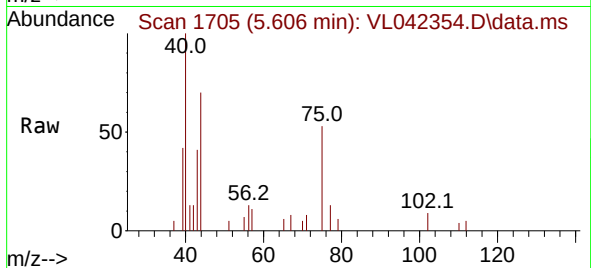




#46
 cis-1,3-Dichloropropene
 Concen: 0.026 ppbv
 RT: 5.606 min Scan# 11
 Delta R.T. 0.006 min
 Lab File: VL042354.D
 Acq: 17 Apr 2025 12:22

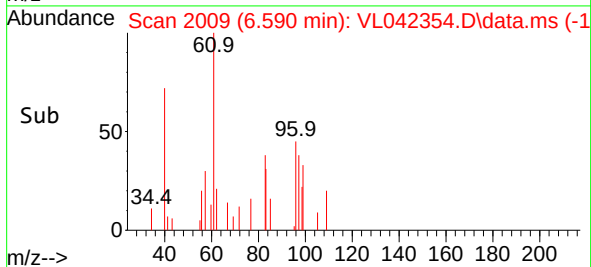
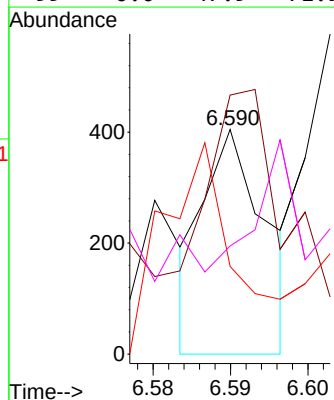
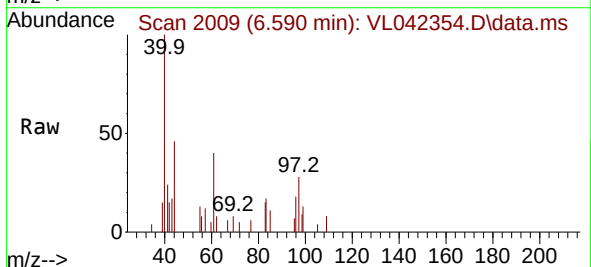
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

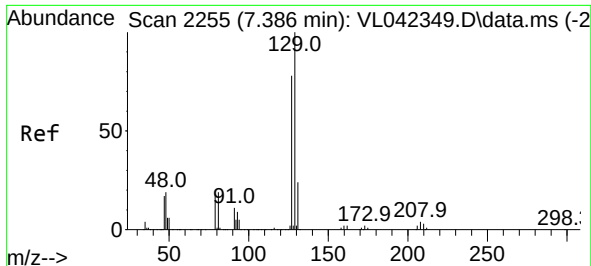
Tgt Ion: 75 Resp: 546
 Ion Ratio Lower Upper
 75 100
 39 1.7 50.0 75.0#
 77 13.7 23.0 34.6#



#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#

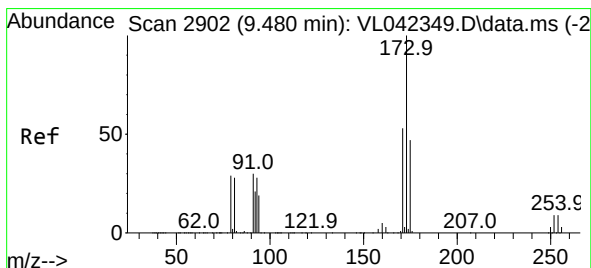
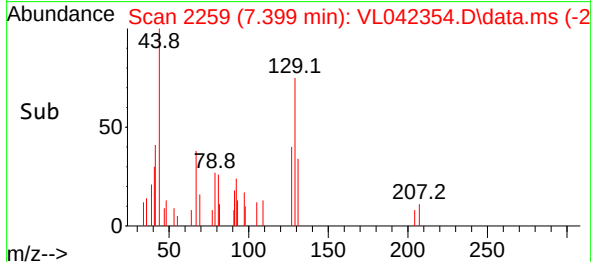
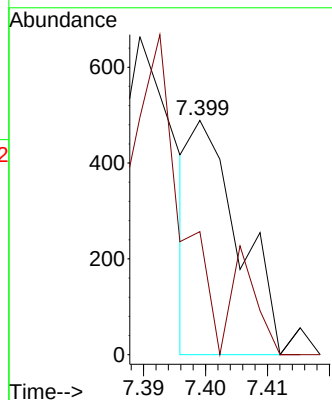
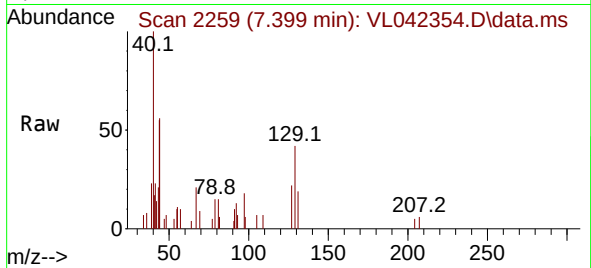




#48
 Dibromochloromethane
 Concen: 0.010 ppbv
 RT: 7.399 min Scan# 21
 Delta R.T. 0.013 min
 Lab File: VL042354.D
 Acq: 17 Apr 2025 12:22

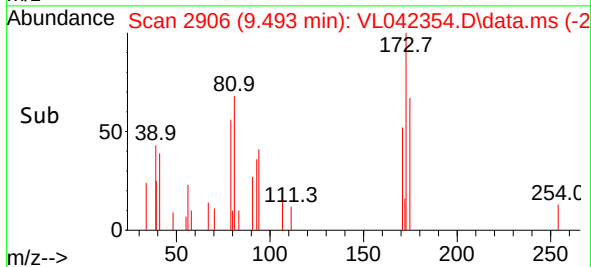
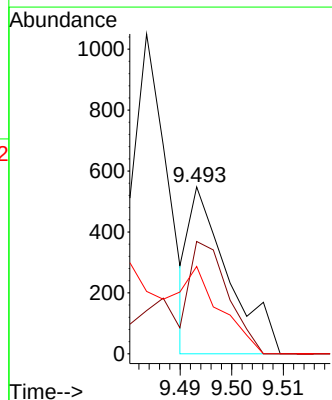
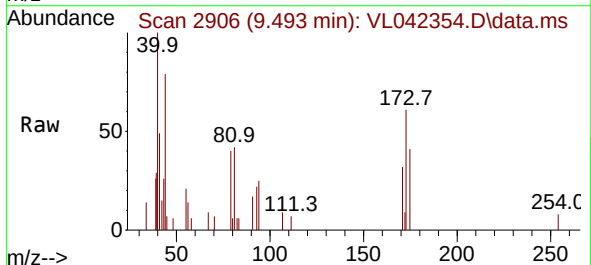
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

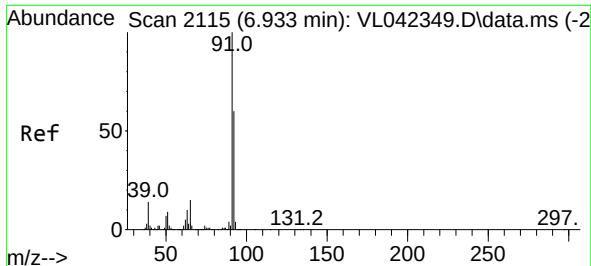
Tgt Ion:129 Resp: 258
 Ion Ratio Lower Upper
 129 100
 127 0.0 39.1 117.3#



#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#

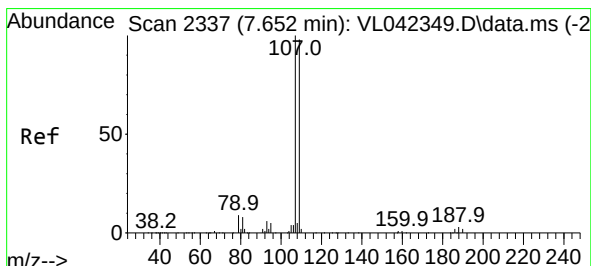
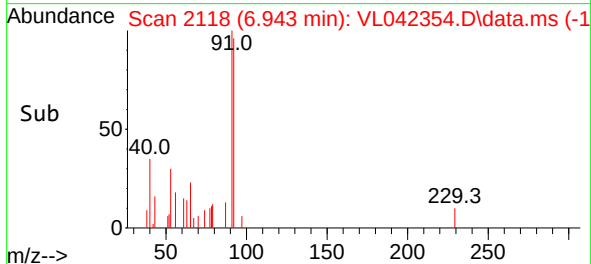
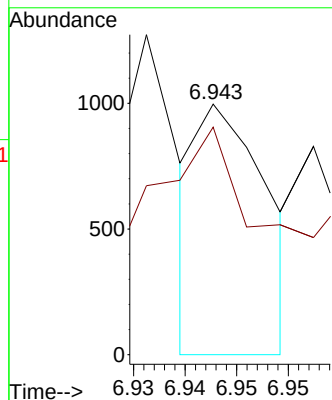
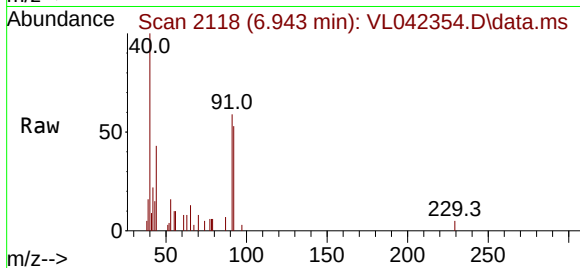




#53
Toluene
Concen: 0.010 ppbv
RT: 6.943 min Scan# 2118
Delta R.T. 0.010 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

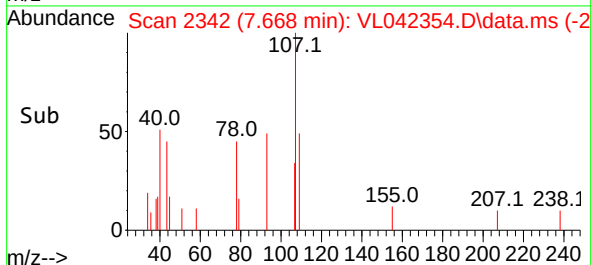
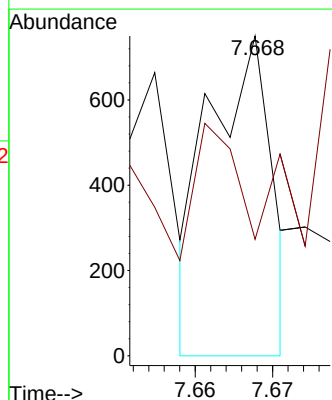
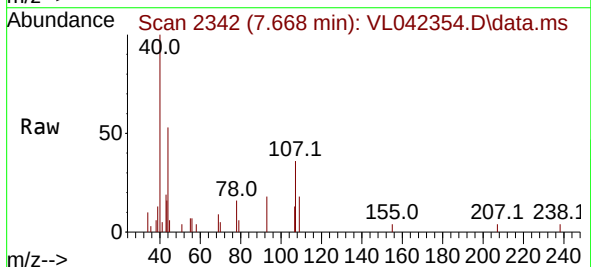
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

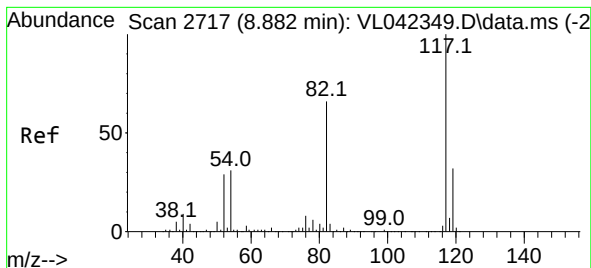
Tgt Ion: 91 Resp: 464
Ion Ratio Lower Upper
91 100
92 289.2 48.2 72.4#



#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 :

VSTDIC0.03

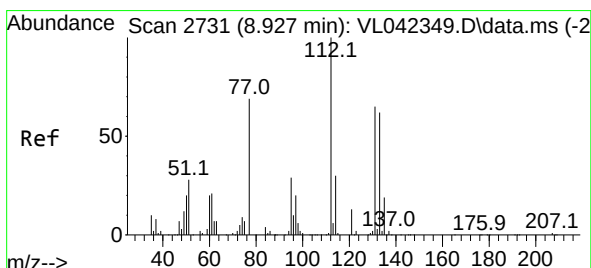
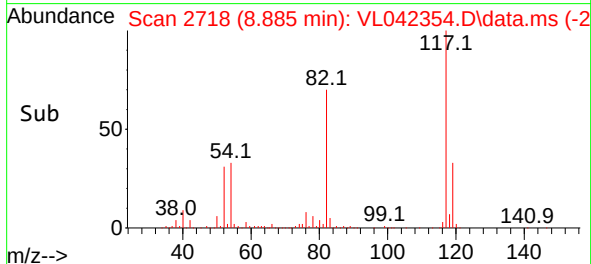
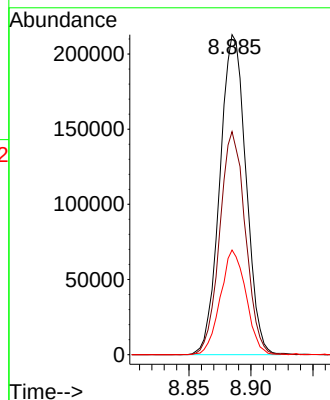
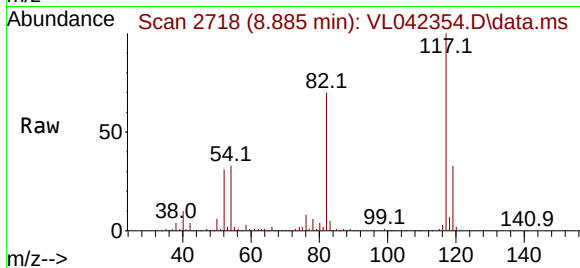
Tgt Ion:117 Resp: 312999

Ion Ratio Lower Upper

117 100

82 68.5 57.8 86.6

119 32.2 25.2 37.8



#56

1,1,1,2-Tetrachloroethane

Concen: 0.031 ppbv

RT: 8.927 min Scan# 2731

Delta R.T. -0.000 min

Lab File: VL042354.D

Acq: 17 Apr 2025 12:22

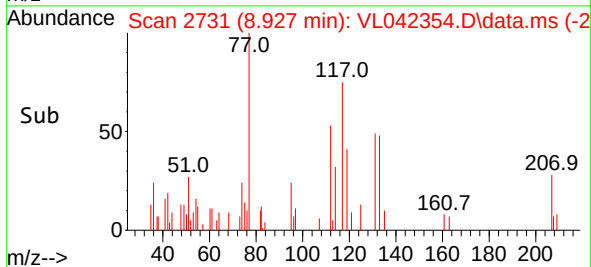
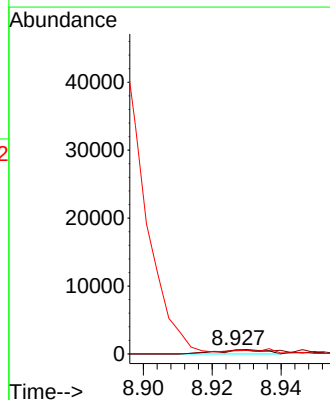
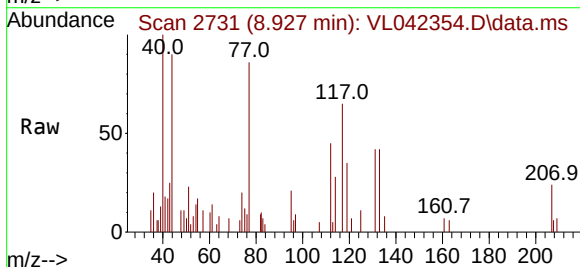
Tgt Ion:131 Resp: 589

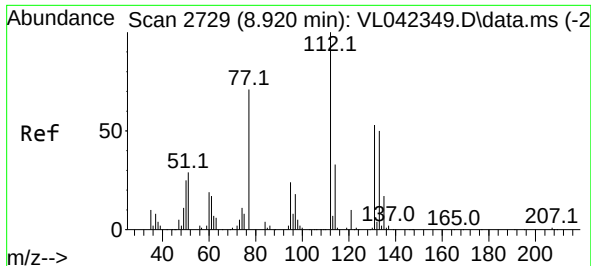
Ion Ratio Lower Upper

131 100

133 185.9 78.3 117.5#

119 17165.0 48.7 73.1#

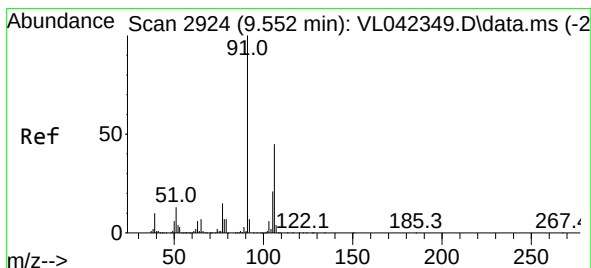
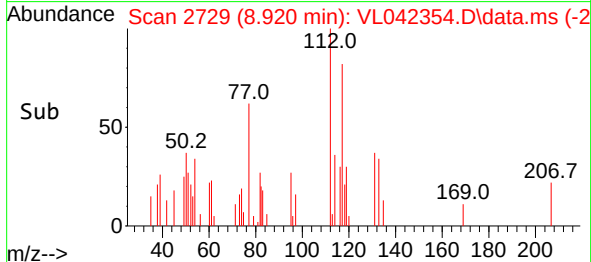
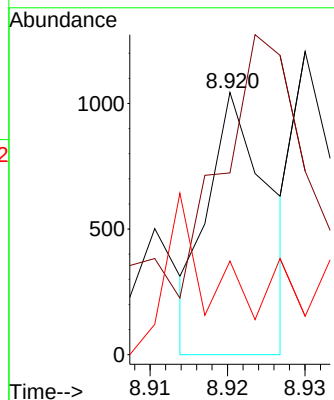
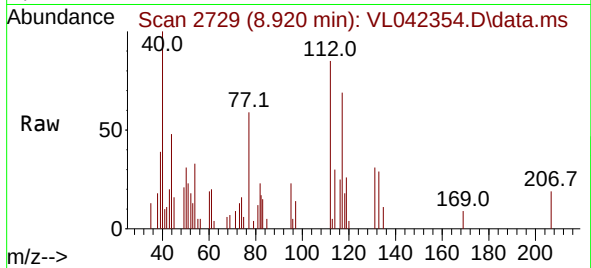




#57
Chlorobenzene
Concen: 0.017 ppbv
RT: 8.920 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

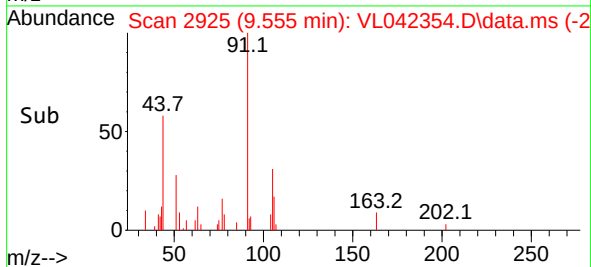
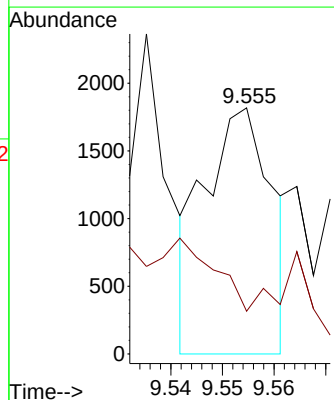
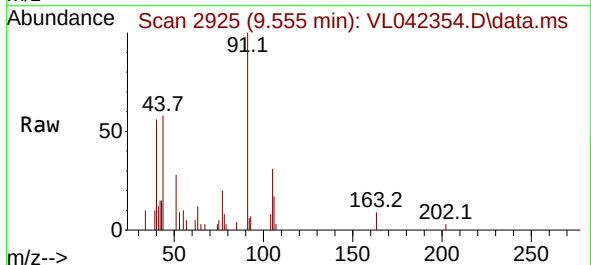
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

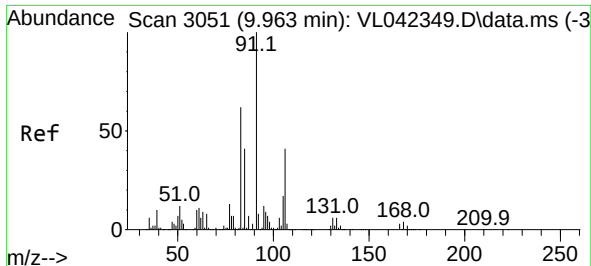
Tgt Ion:	112	Resp:	567
Ion Ratio	Lower	Upper	
112	100		
77	62.5	57.8	86.6
114	0.0	29.3	35.9#



#59
m/p-Xylene
Concen: 0.033 ppbv
RT: 9.555 min Scan# 2925
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion:	91	Resp:	1648
Ion Ratio	Lower	Upper	
91	100		
106	0.0	35.4	53.2#

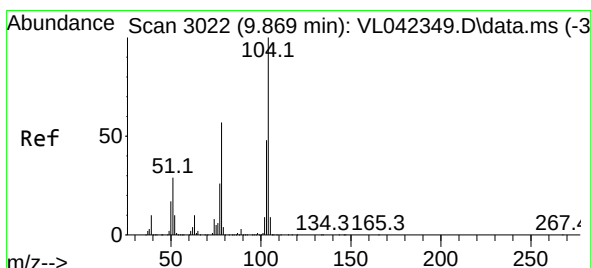
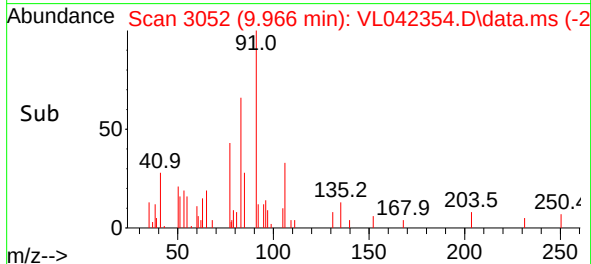
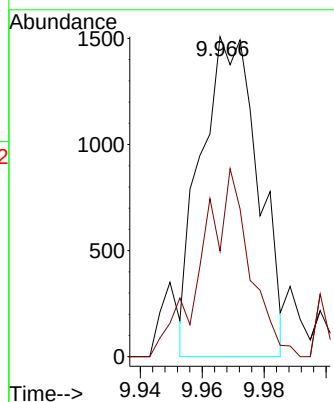
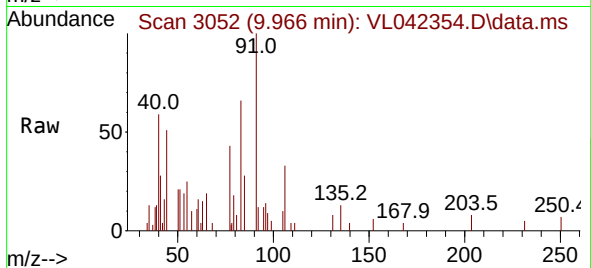




#60
o-Xylene
Concen: 0.039 ppbv
RT: 9.966 min Scan# 3051
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

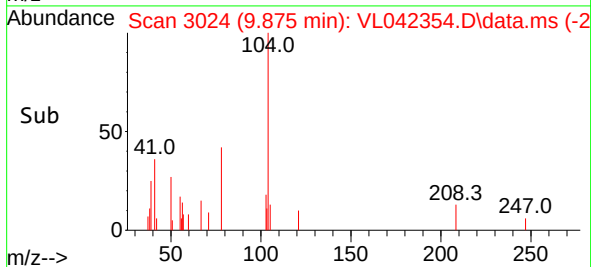
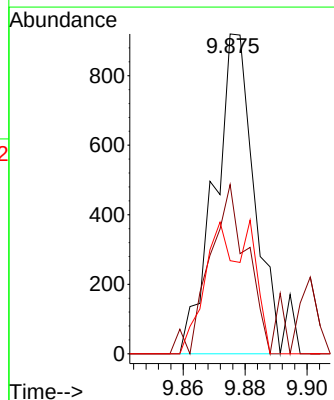
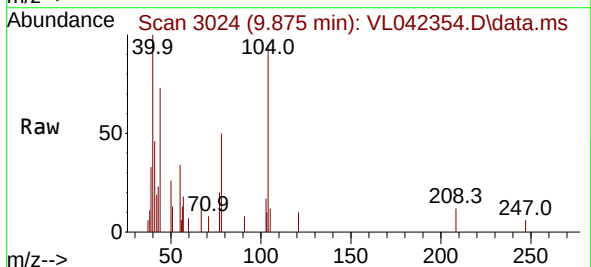
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.03

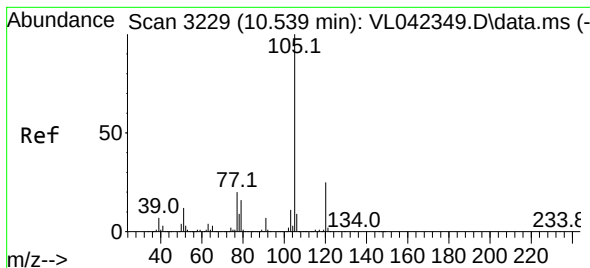
Tgt Ion: 91 Resp: 1938
Ion Ratio Lower Upper
91 100
106 52.6 21.1 63.4



#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

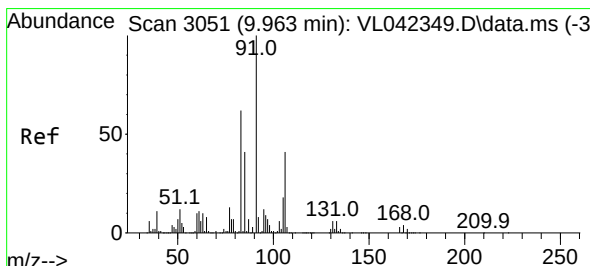
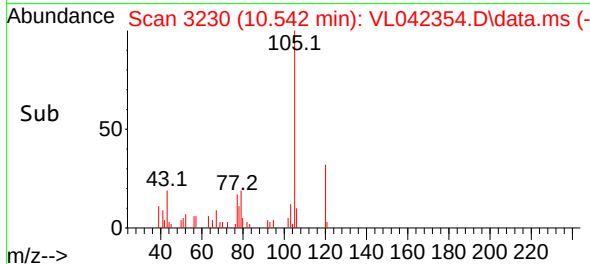
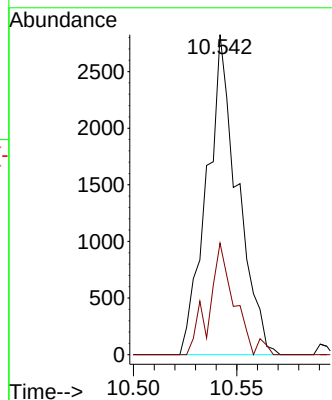
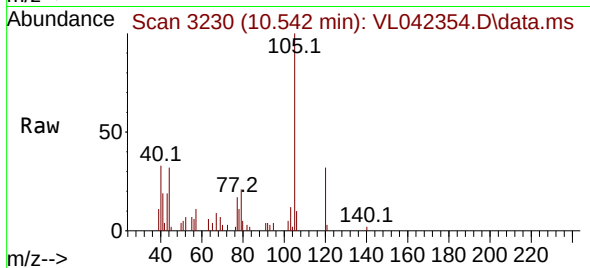




#62
Isopropylbenzene
Concen: 0.040 ppbv
RT: 10.542 min Scan# 31
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

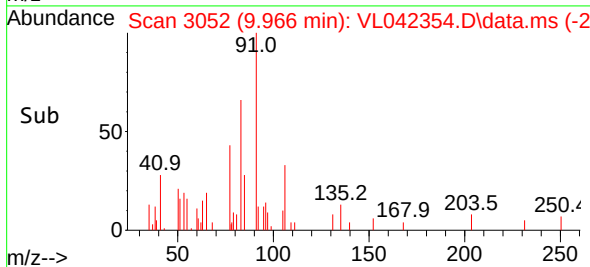
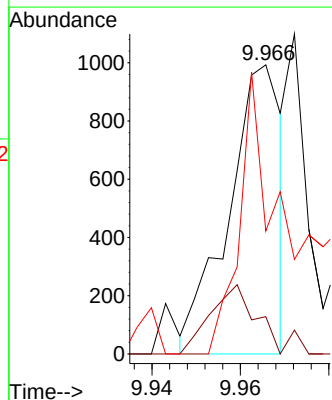
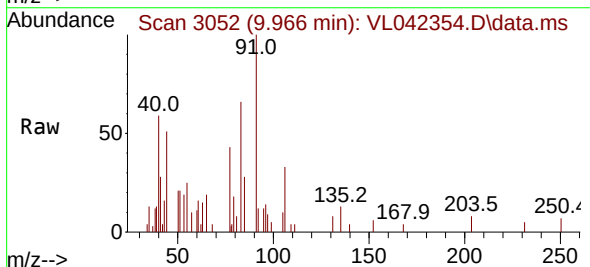
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.03

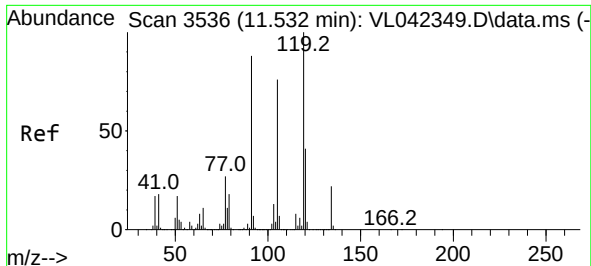
Tgt Ion:105 Resp: 2934
Ion Ratio Lower Upper
105 100
120 28.8 19.8 29.8



#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#

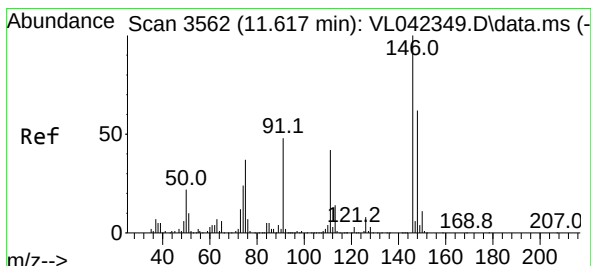
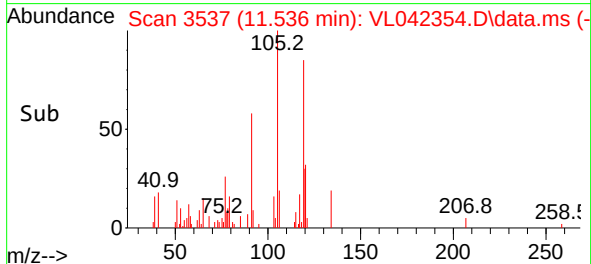
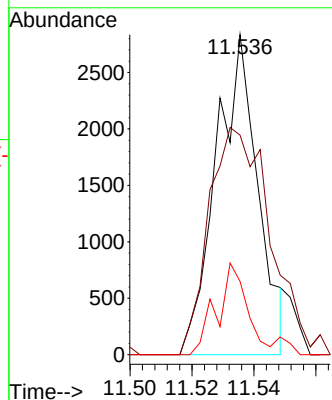
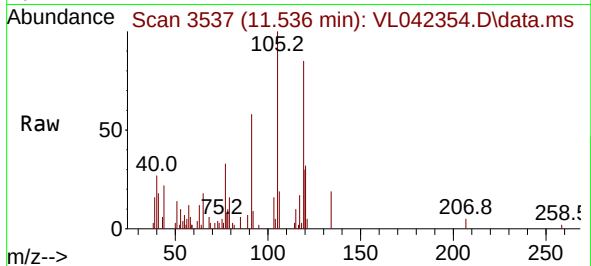




#65
tert-Butylbenzene
Concen: 0.039 ppbv
RT: 11.536 min Scan# 3536
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

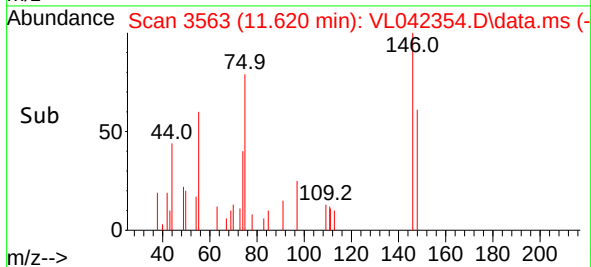
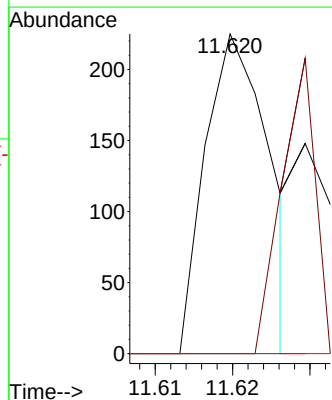
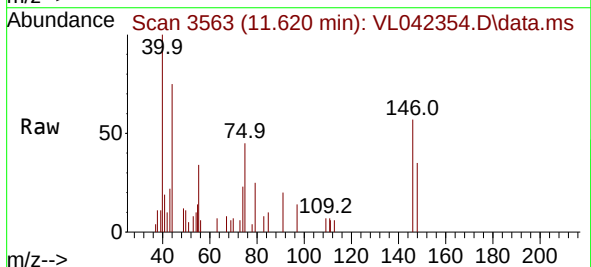
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

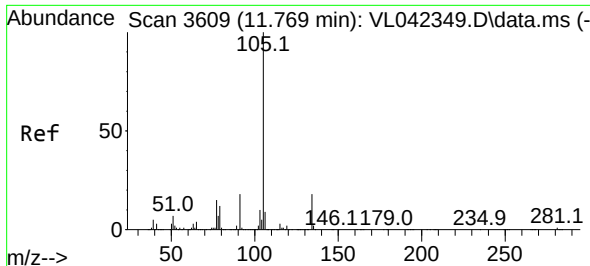
Tgt Ion:	119	Resp:	2656
Ion	Ratio	Lower	Upper
119	100		
91	104.4	74.6	111.8
134	22.5	18.8	28.2



#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# 3610

Delta R.T. 0.003 min

Lab File: VL042354.D

Acq: 17 Apr 2025 12:22

Instrument :

MSVOA_1

ClientSampleId :

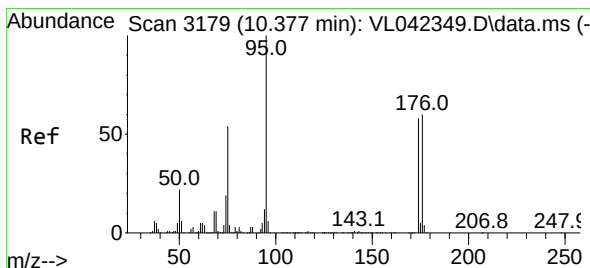
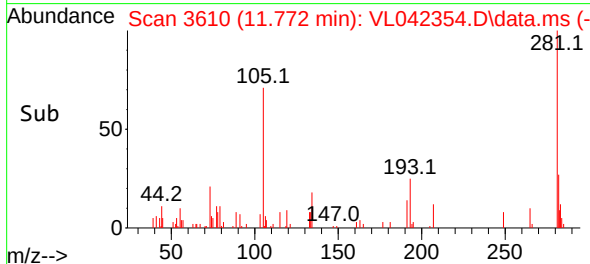
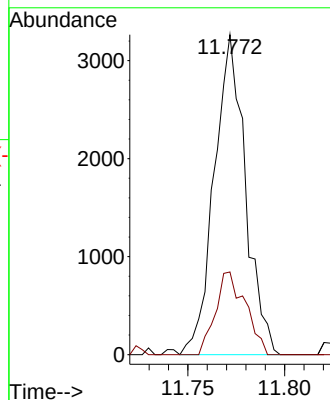
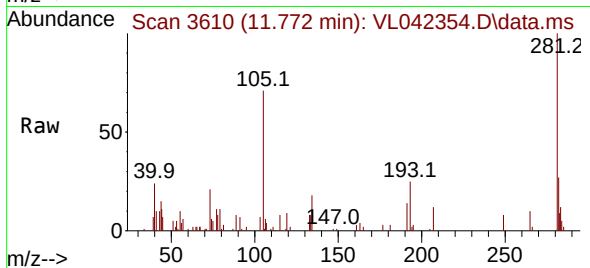
VSTDIC0.03

Tgt Ion:105 Resp: 3658

Ion Ratio Lower Upper

105 100

134 24.8 14.6 21.8#



#68

1-Bromo-4-Fluorobenzene

Concen: 9.962 ppbv

RT: 10.380 min Scan# 3180

Delta R.T. 0.003 min

Lab File: VL042354.D

Acq: 17 Apr 2025 12:22

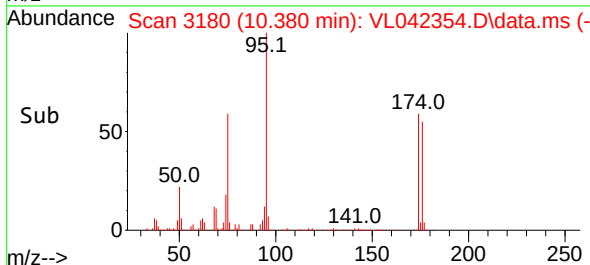
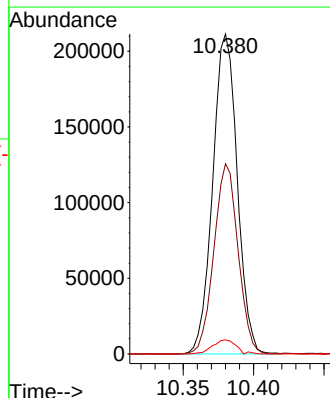
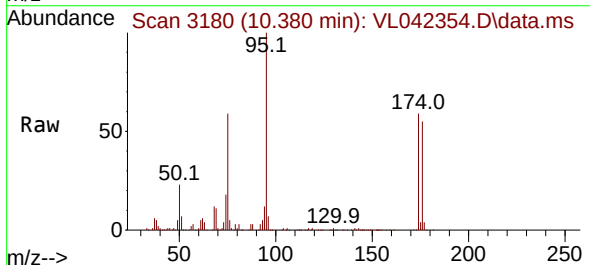
Tgt Ion: 95 Resp: 256230

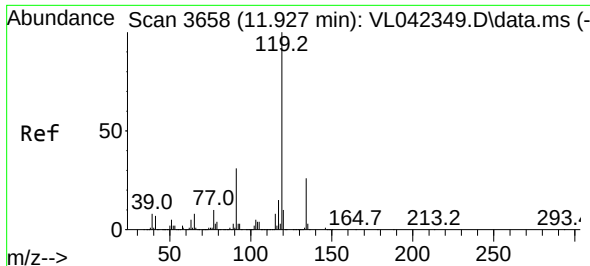
Ion Ratio Lower Upper

95 100

174 58.6 48.5 72.7

175 4.3 3.7 5.5

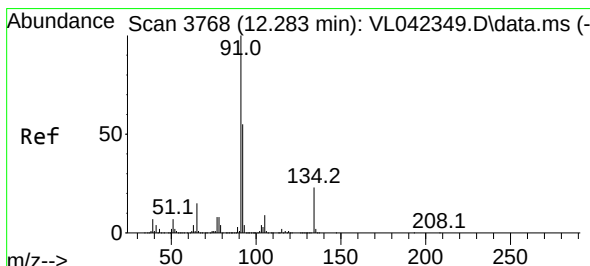
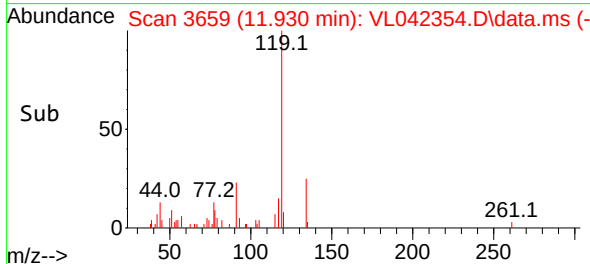
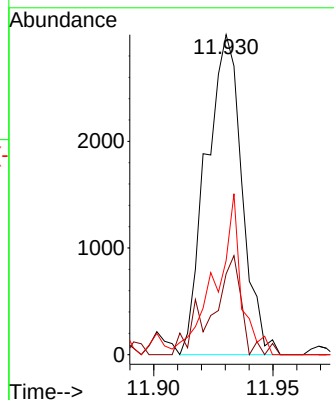
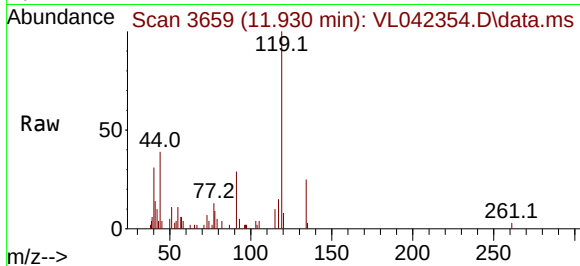




#69
p-Isopropyltoluene
Concen: 0.038 ppbv
RT: 11.930 min Scan# 3659
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

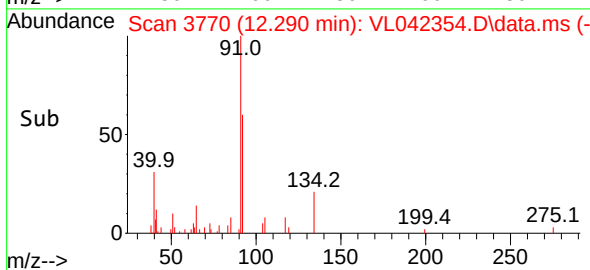
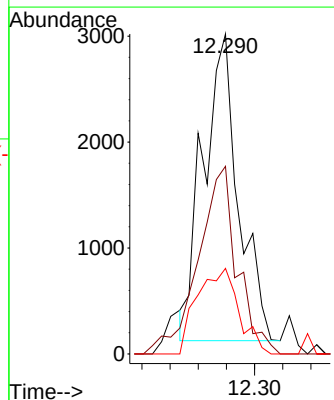
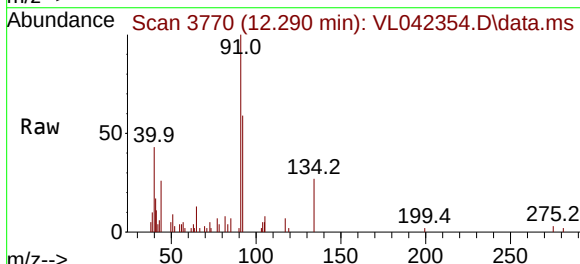
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.03

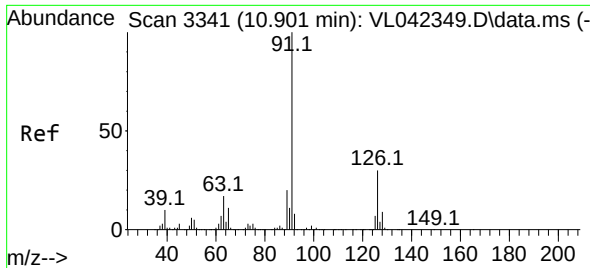
Tgt Ion:	119	Resp:	3139
Ion	Ratio	Lower	Upper
119	100		
134	25.9	20.0	30.0
91	35.7	24.4	36.6



#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#

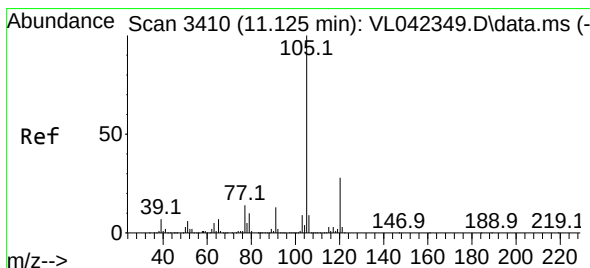
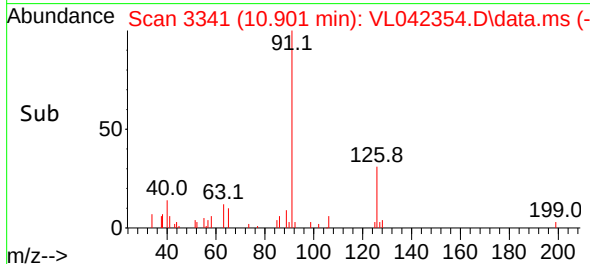
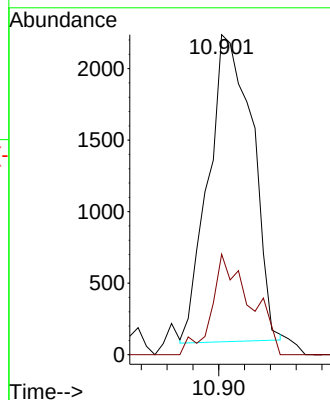
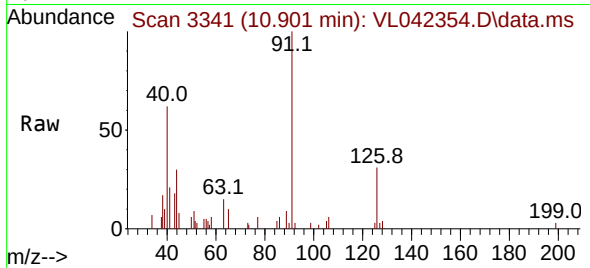




#71
2-Chlorotoluene
Concen: 0.044 ppbv
RT: 10.901 min Scan# 311
Delta R.T. -0.000 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

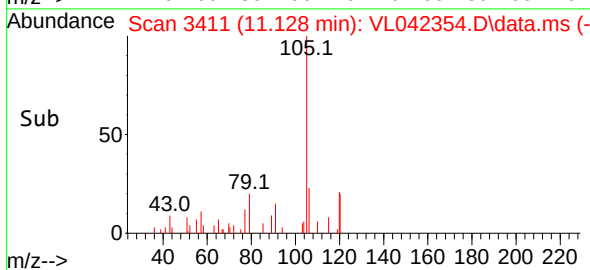
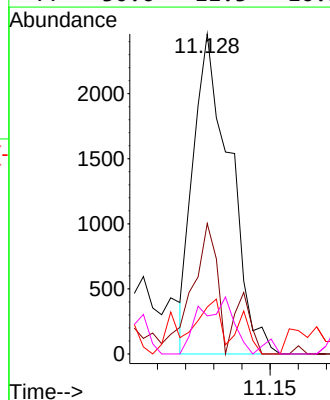
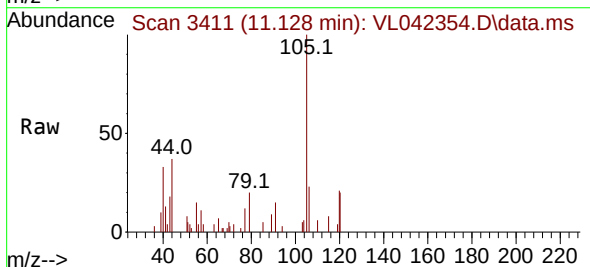
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.03

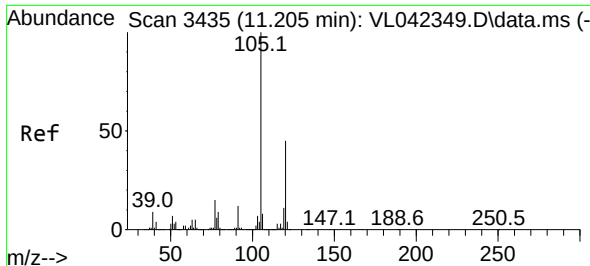
Tgt Ion: 91 Resp: 2537
Ion Ratio Lower Upper
91 100
126 28.7 11.4 45.4



#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#

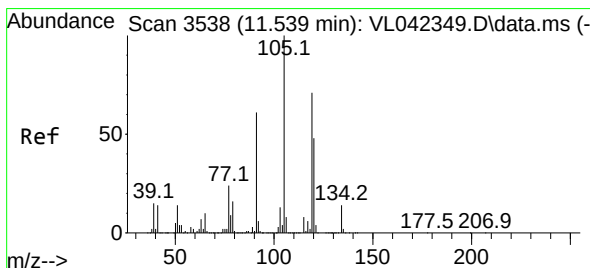
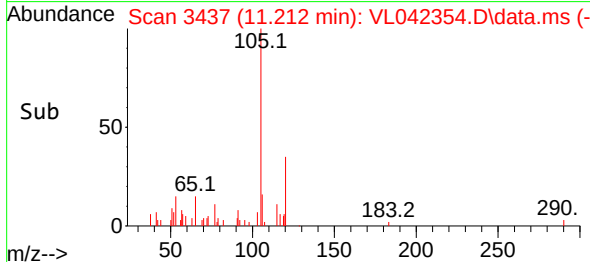
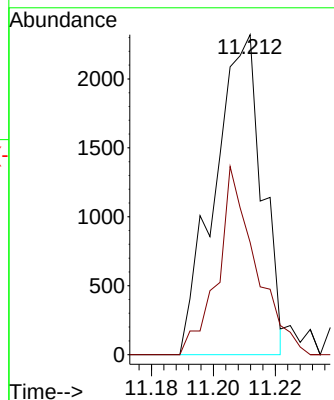
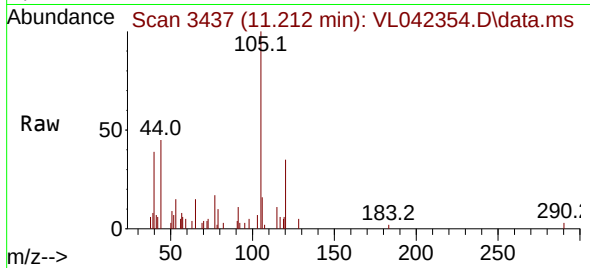




#73
 1,3,5-Trimethylbenzene
 Concen: 0.046 ppbv
 RT: 11.212 min Scan# 3437
 Delta R.T. 0.006 min
 Lab File: VL042354.D
 Acq: 17 Apr 2025 12:22

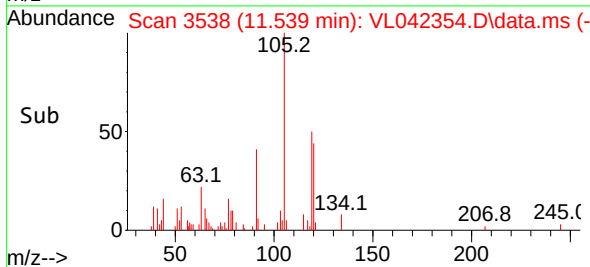
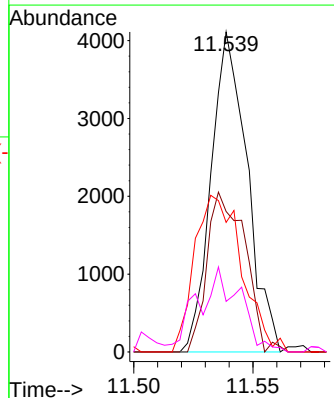
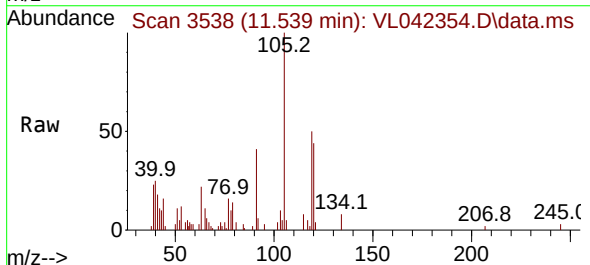
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.03

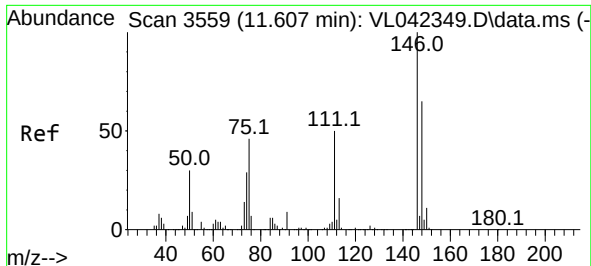
Tgt Ion:105 Resp: 2473
 Ion Ratio Lower Upper
 105 100
 120 35.1 35.6 53.4#



#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#

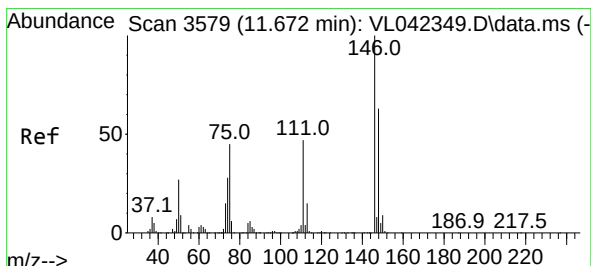
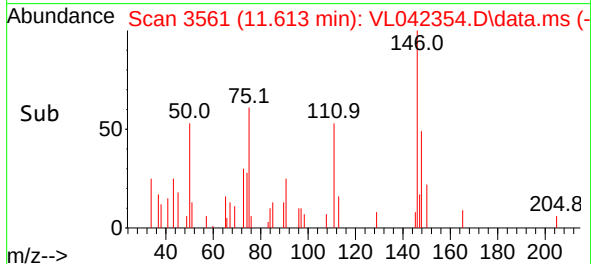
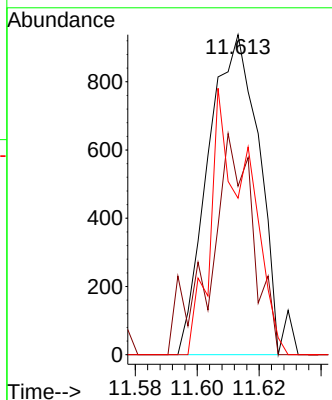
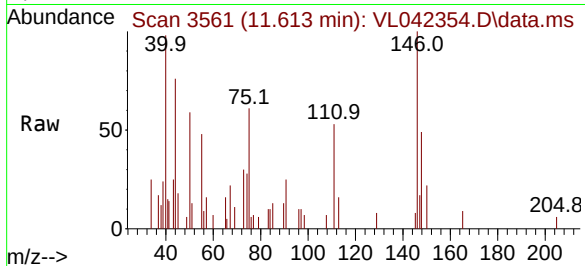




#75
1,3-Dichlorobenzene
Concen: 0.032 ppbv
RT: 11.613 min Scan# 3561
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

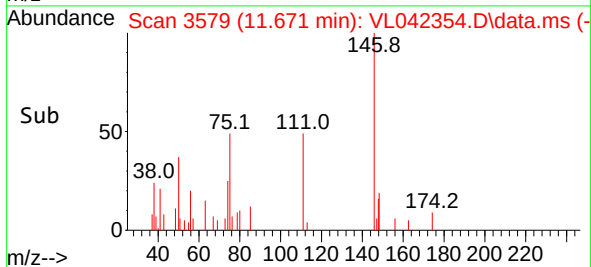
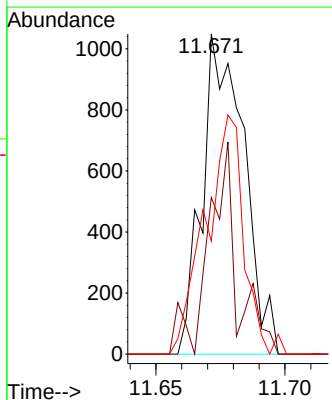
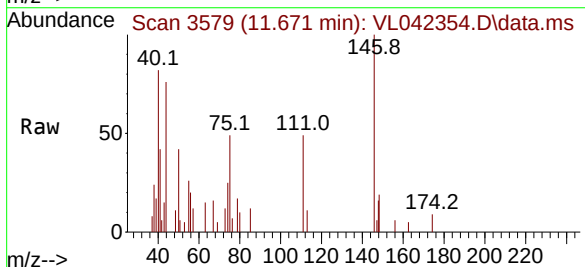
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

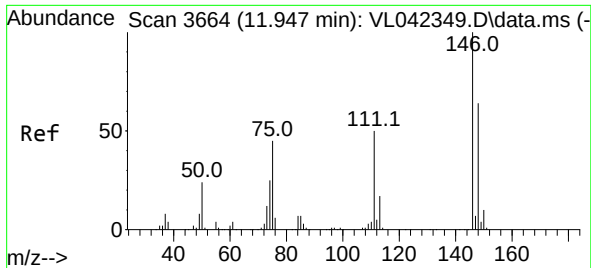
Tgt Ion:146 Resp: 1056
Ion Ratio Lower Upper
146 100
111 61.1 24.3 72.8
148 62.4 31.6 94.8



#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

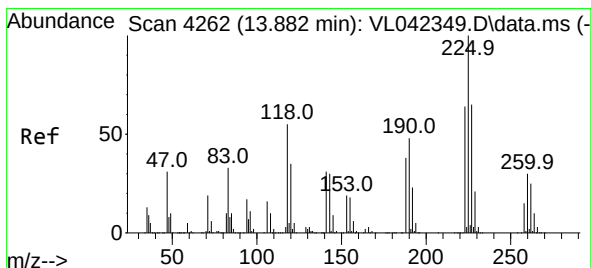
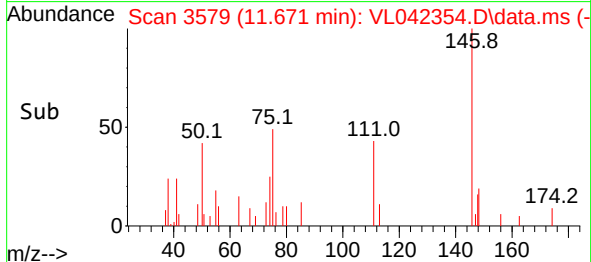
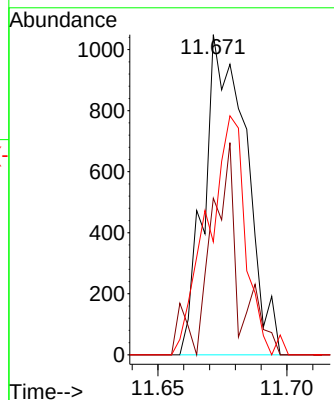
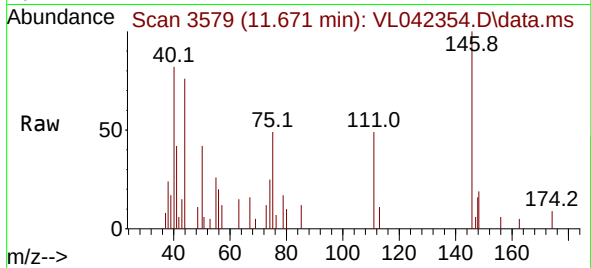




#77
1,2-Dichlorobenzene
Concen: 0.037 ppbv
RT: 11.671 min Scan# 311
Delta R.T. -0.275 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

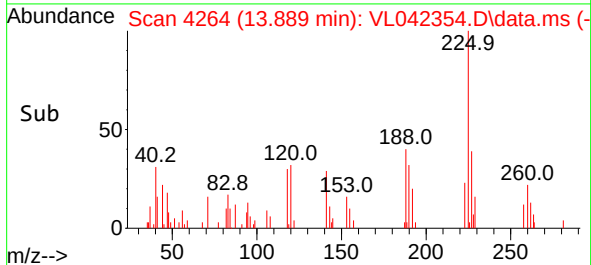
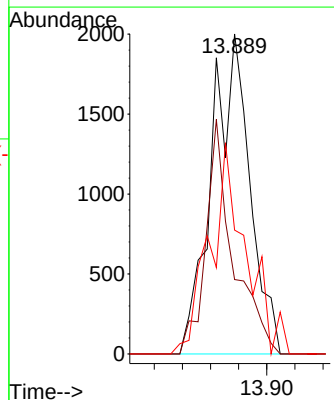
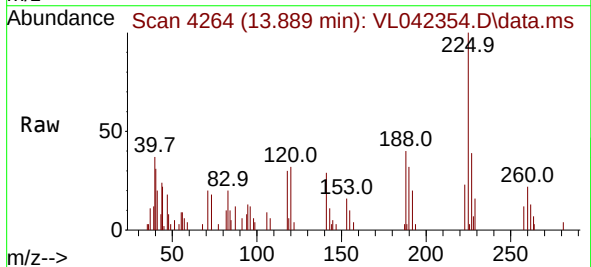
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

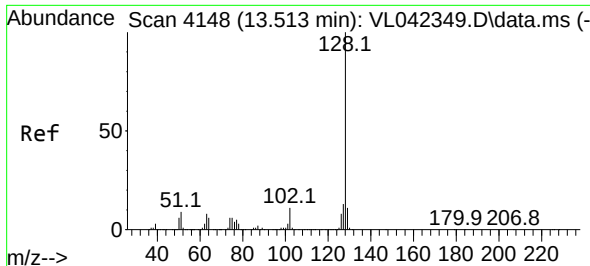
Tgt Ion:146 Resp: 1180
Ion Ratio Lower Upper
146 100
111 45.4 25.3 75.9
148 68.3 31.5 94.5



#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

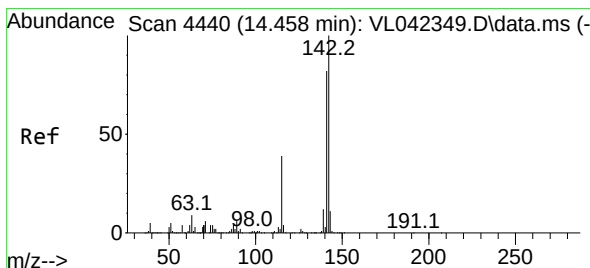
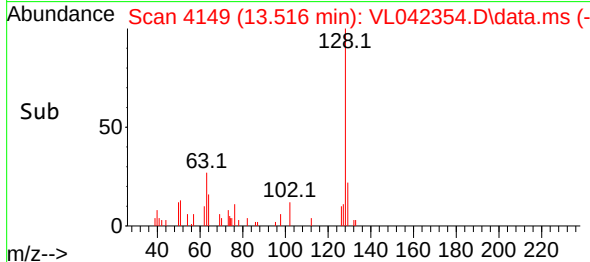
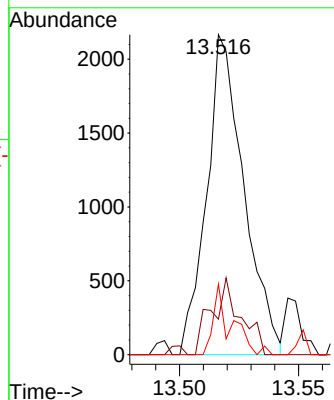
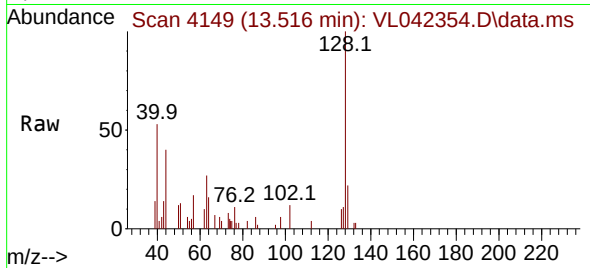




#79
Naphthalene
Concen: 0.031 ppbv
RT: 13.516 min Scan# 4148
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

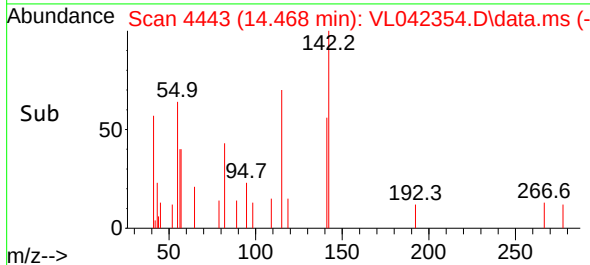
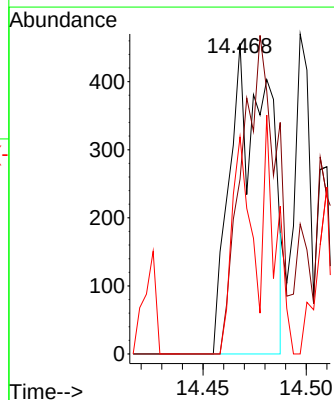
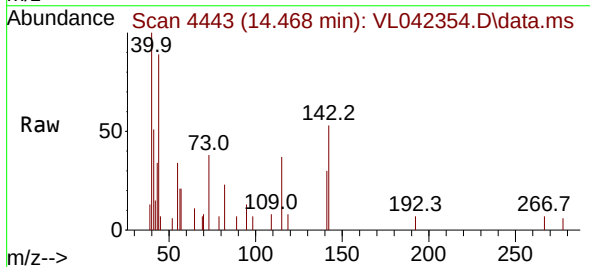
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.03

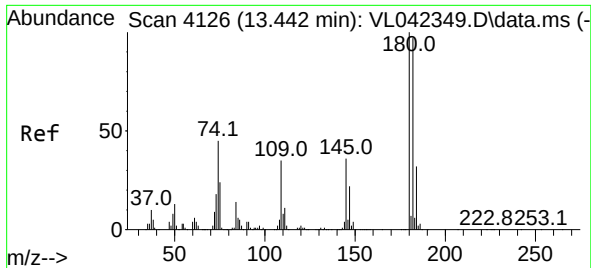
Tgt Ion:	128	Resp:	2354
Ion	Ratio	Lower	Upper
128	100		
127	11.1	10.6	15.8
129	22.1	8.6	12.8#



#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

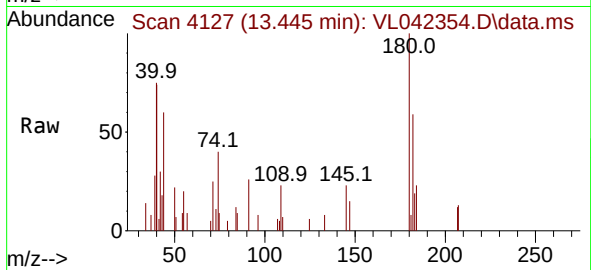
Tgt Ion:	142	Resp:	594
Ion	Ratio	Lower	Upper
142	100		
141	136.0	66.8	100.2#
115	59.1	33.4	50.2#



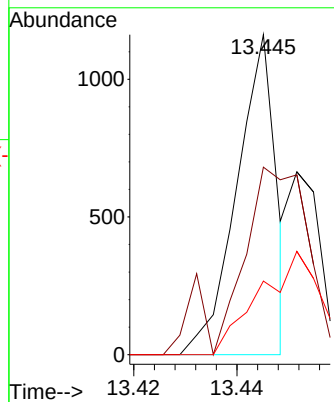
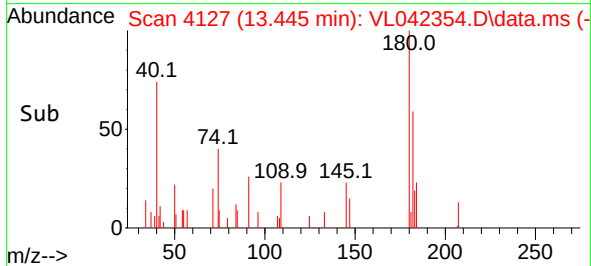


#81
 1,2,4-Trichlorobenzene
 Concen: 0.019 ppbv
 RT: 13.445 min Scan# 41
 Delta R.T. 0.003 min
 Lab File: VL042354.D
 Acq: 17 Apr 2025 12:22

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 : VSTDICC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC015

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

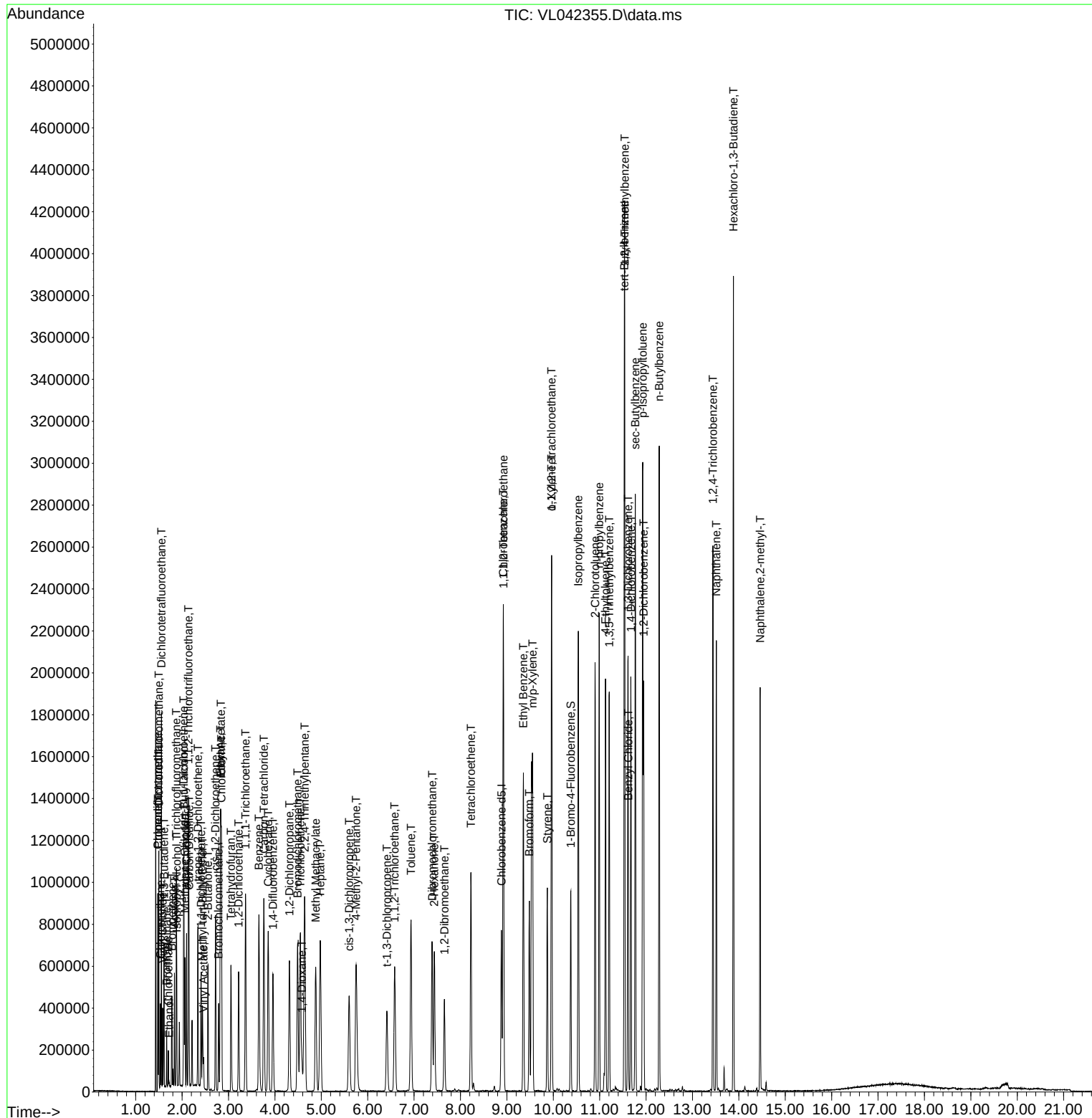
Quant Time: Apr 18 01:31:10 2025
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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 01:24:29 2025
 Response via : Initial Calibration

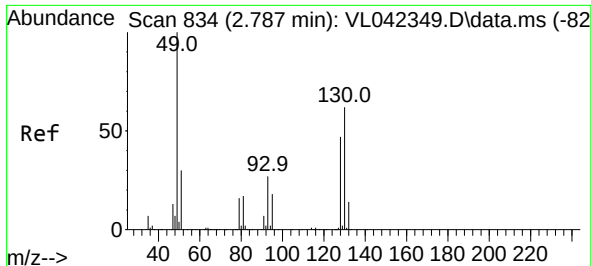
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.600	75	300145	14.878	ppbv	90
47) 1,1,2-Trichloroethane	6.581	97	198874	14.615	ppbv	98
48) Dibromochloromethane	7.390	129	362887	15.105	ppbv	98
49) Bromoform	9.484	173	312282	14.865	ppbv	99
50) 4-Methyl-2-Pentanone	5.749	43	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

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Quant Time: Apr 18 01:31:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
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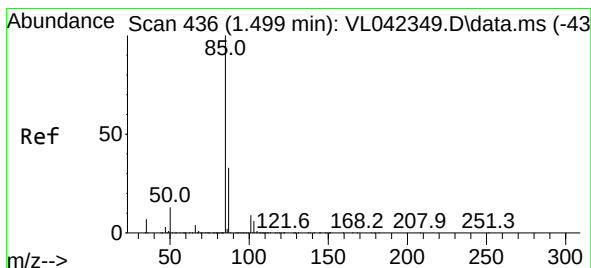
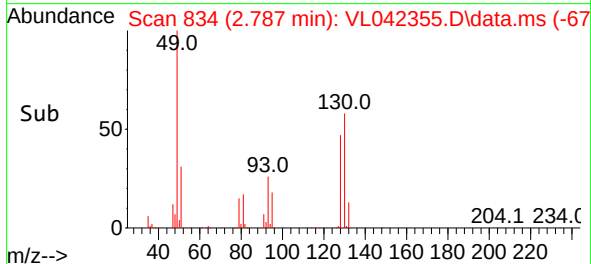
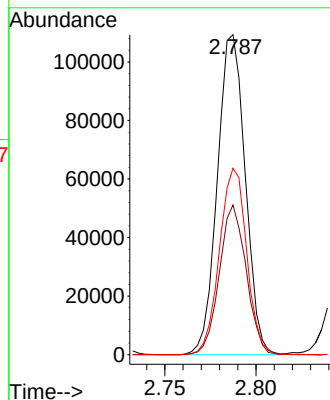
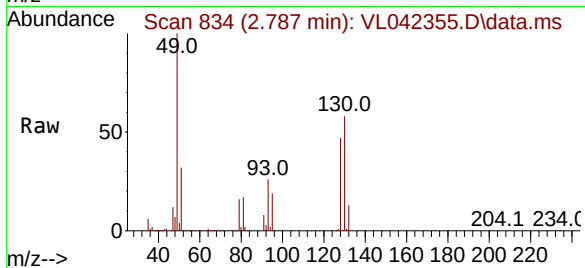




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 834
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

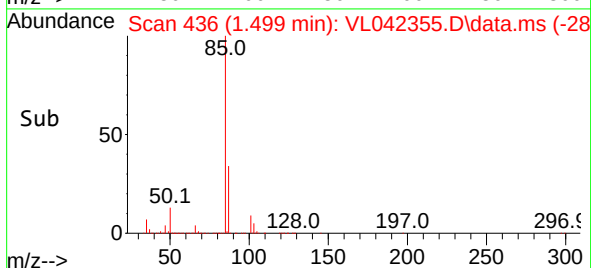
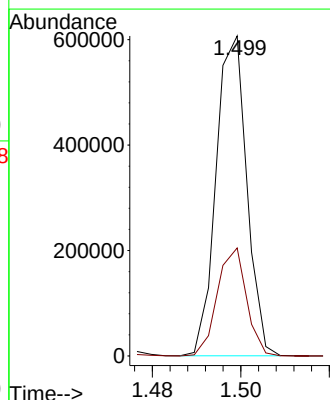
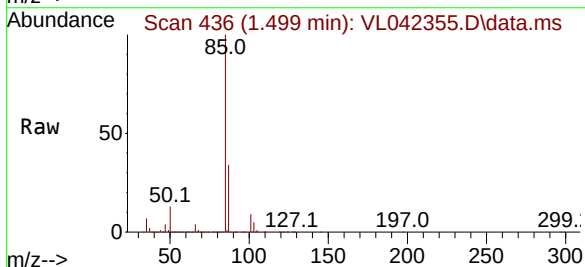
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

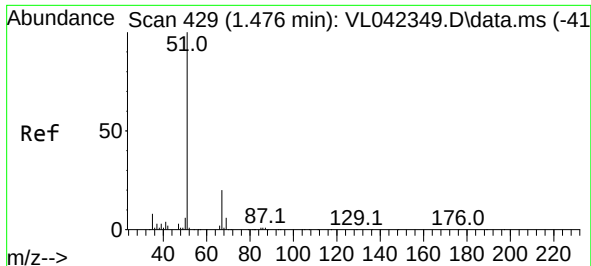
Tgt Ion: 49 Resp: 116071
Ion Ratio Lower Upper
49 100
128 45.1 22.8 68.4
130 57.1 29.3 88.0



#2
Dichlorodifluoromethane
Concen: 14.277 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 85 Resp: 292784
Ion Ratio Lower Upper
85 100
87 33.8 26.6 39.8

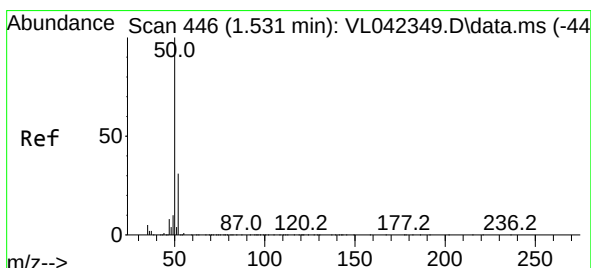
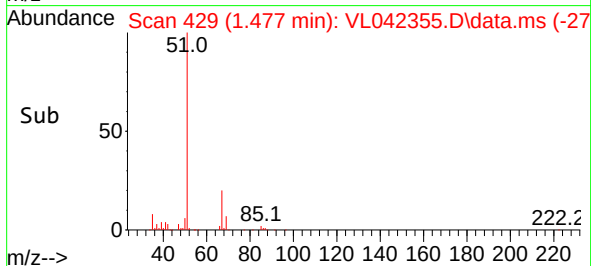
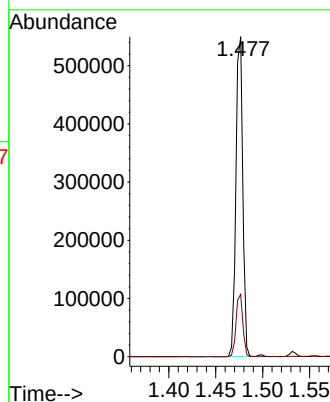
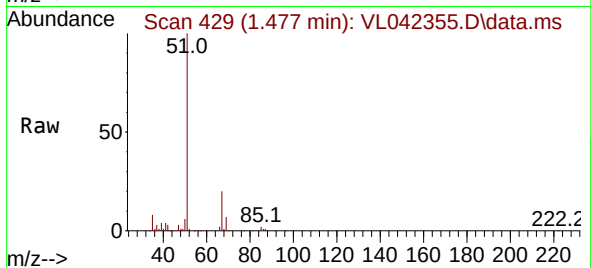




#3
Chlorodifluoromethane
Concen: 14.341 ppbv
RT: 1.477 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

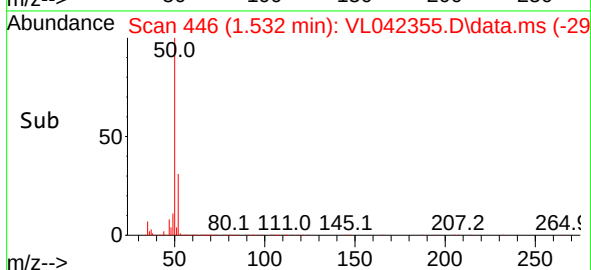
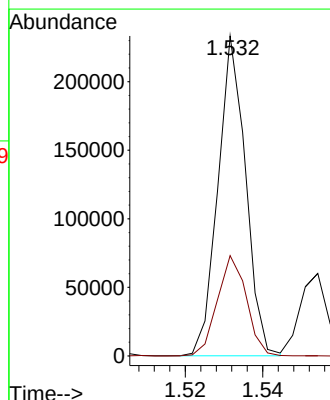
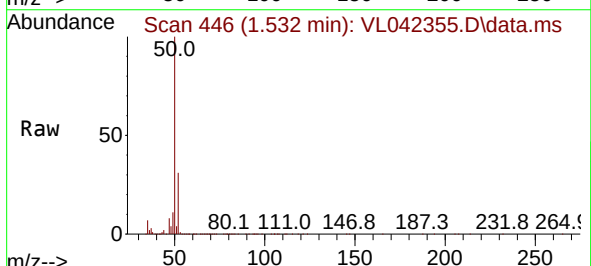
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

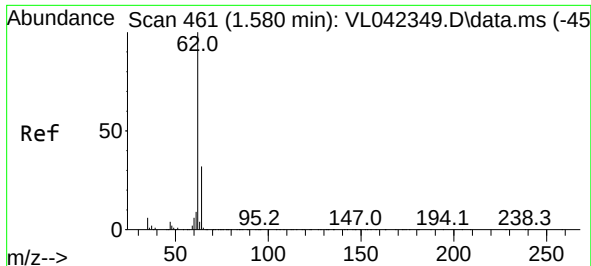
Tgt Ion: 51 Resp: 280042
Ion Ratio Lower Upper
51 100
67 19.5 16.2 24.4



#4
Chloromethane
Concen: 14.266 ppbv
RT: 1.532 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 50 Resp: 115775
Ion Ratio Lower Upper
50 100
52 31.3 24.7 37.1

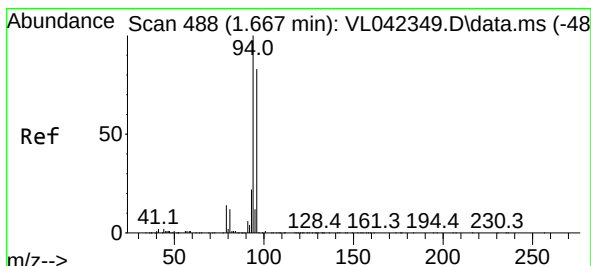
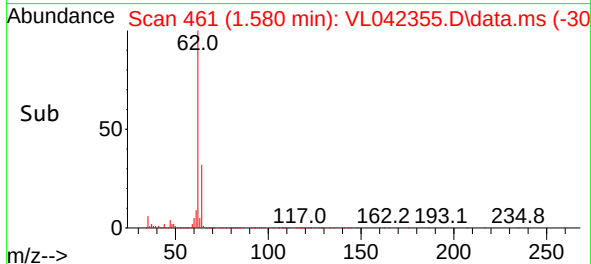
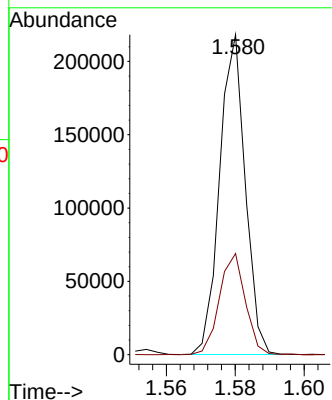
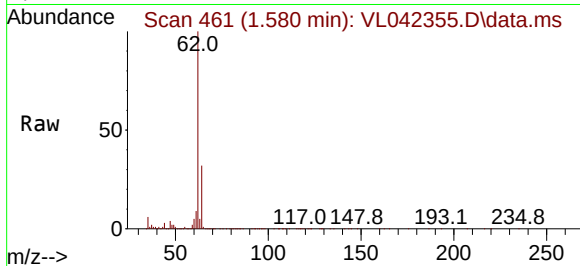




#5
 Vinyl Chloride
 Concen: 12.752 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. 0.000 min
 Lab File: VL042355.D
 Acq: 17 Apr 2025 12:54

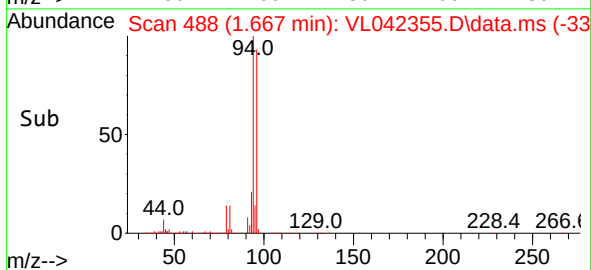
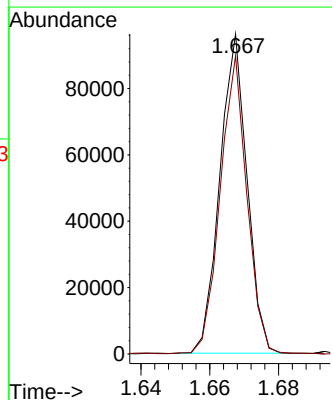
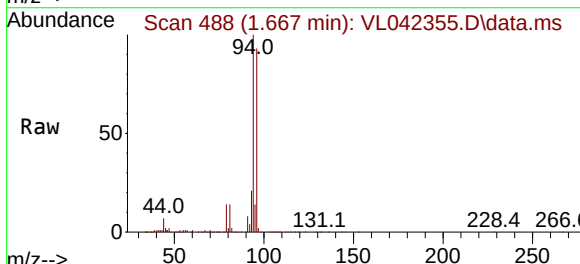
Instrument :
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 ClientSampleId :
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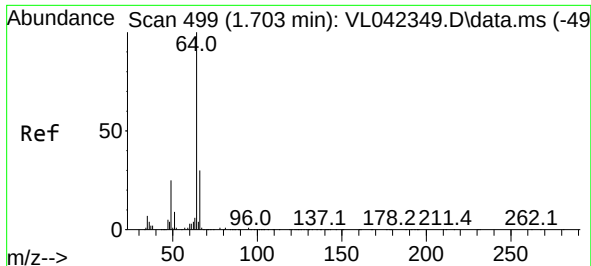
Tgt Ion: 62 Resp: 112650
 Ion Ratio Lower Upper
 62 100
 64 31.6 25.4 38.0



#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

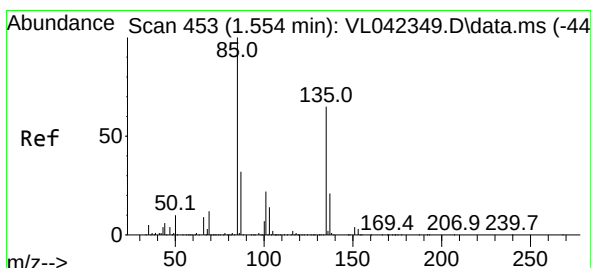
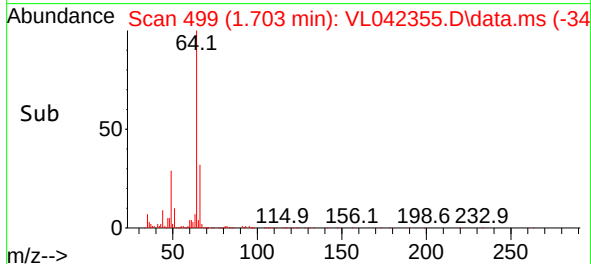
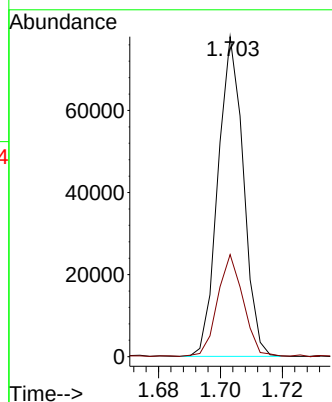
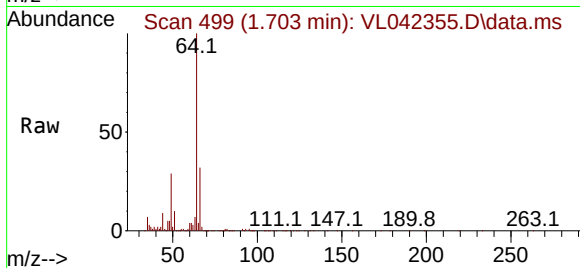




#7
Chloroethane
Concen: 13.881 ppbv
RT: 1.703 min Scan# 499
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

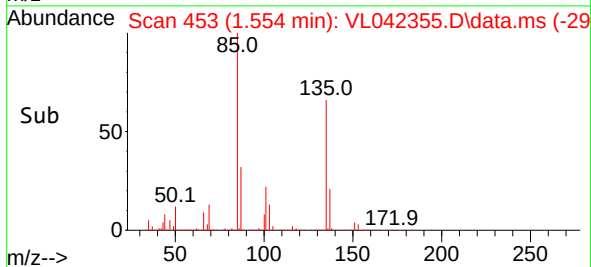
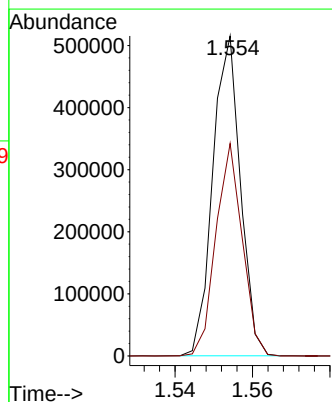
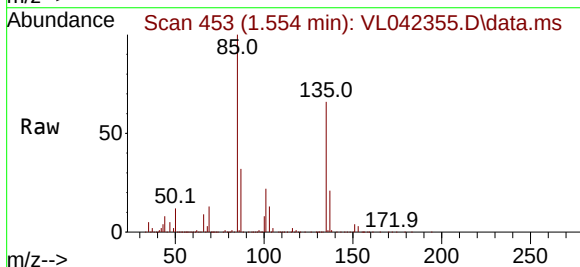
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

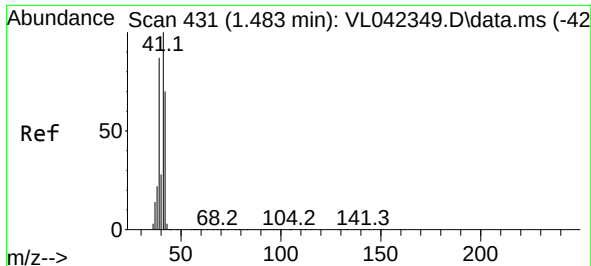
Tgt Ion: 64 Resp: 44347
Ion Ratio Lower Upper
64 100
66 31.9 24.6 37.0



#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

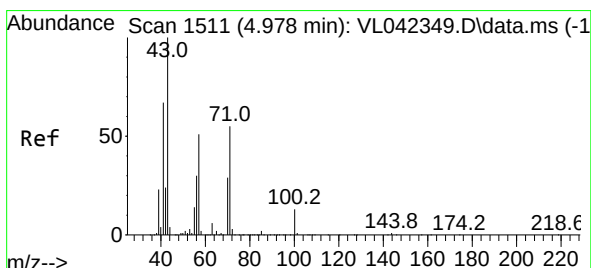
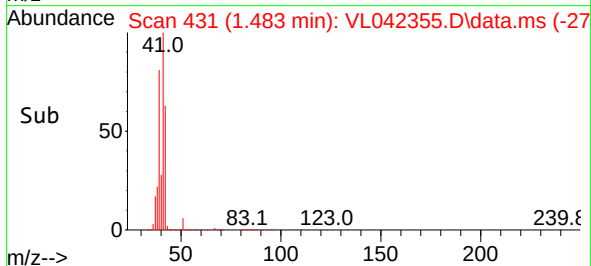
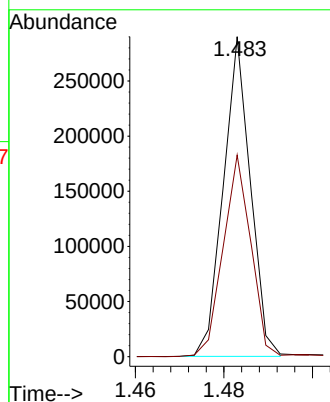
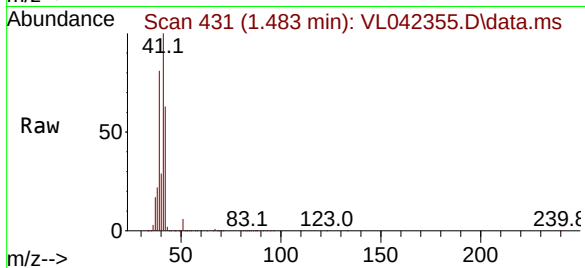




#9
Propene
Concen: 13.842 ppbv
RT: 1.483 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

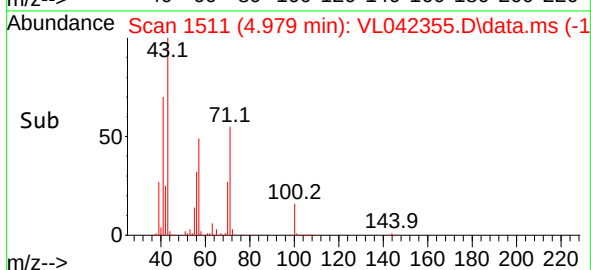
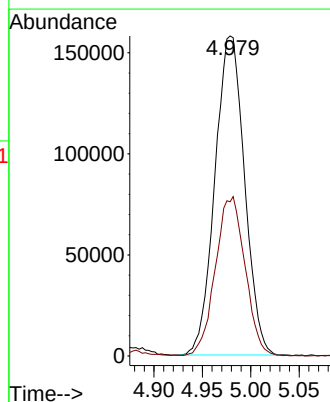
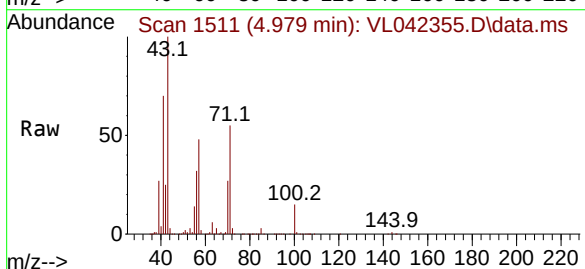
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ClientSampleId :
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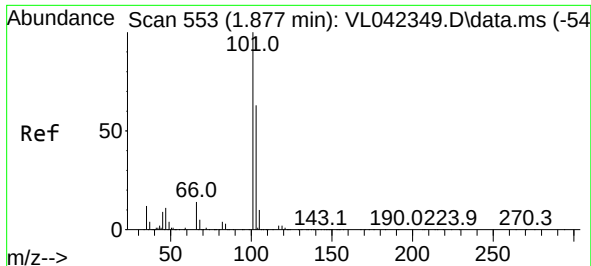
Tgt Ion: 41 Resp: 123102
Ion Ratio Lower Upper
41 100
42 66.0 56.2 84.4



#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

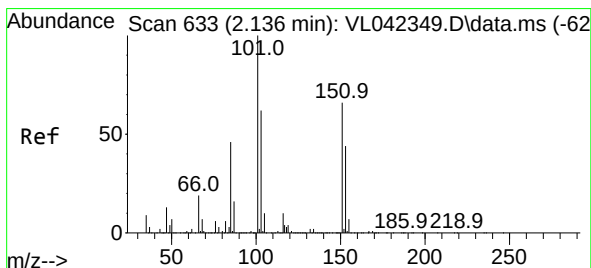
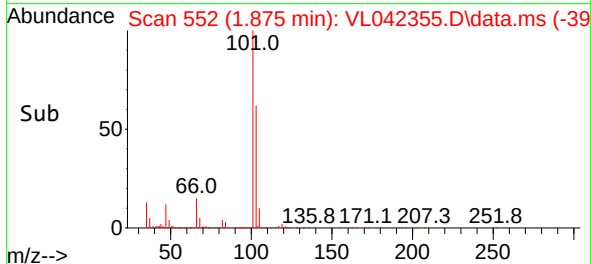
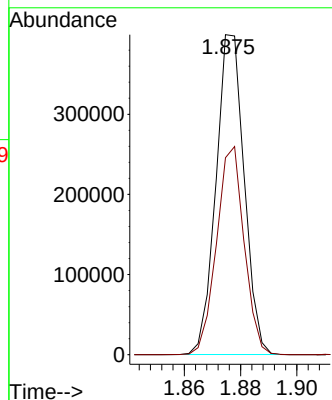
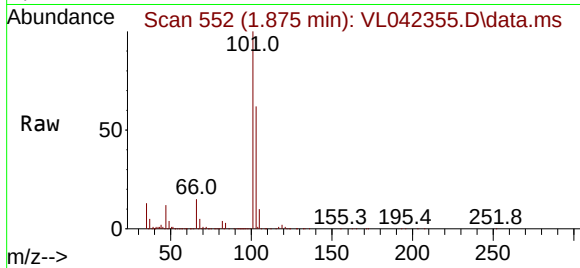




#11
 Trichlorofluoromethane
 Concen: 14.258 ppbv
 RT: 1.875 min Scan# 511
 Delta R.T. -0.003 min
 Lab File: VL042355.D
 Acq: 17 Apr 2025 12:54

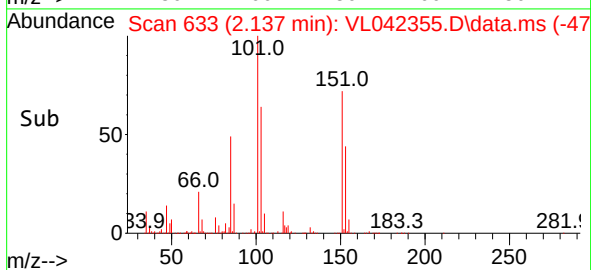
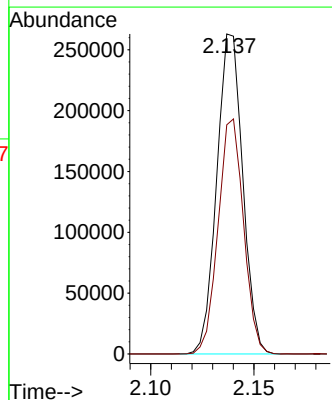
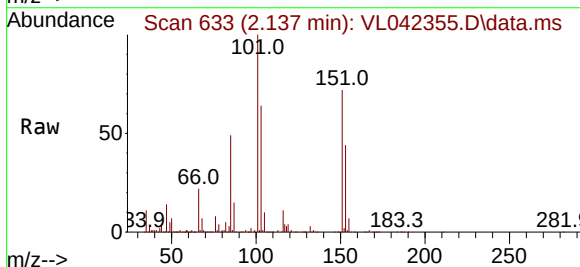
Instrument :
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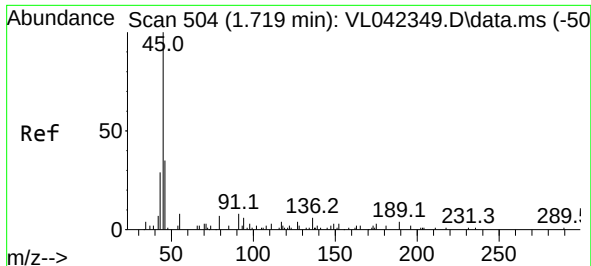
Tgt Ion:101 Resp: 278059
 Ion Ratio Lower Upper
 101 100
 103 61.6 50.1 75.1



#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

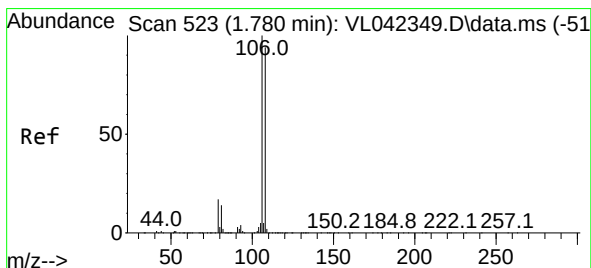
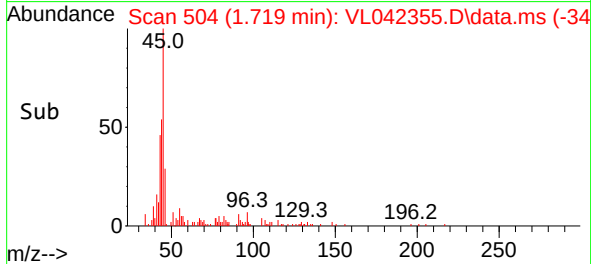
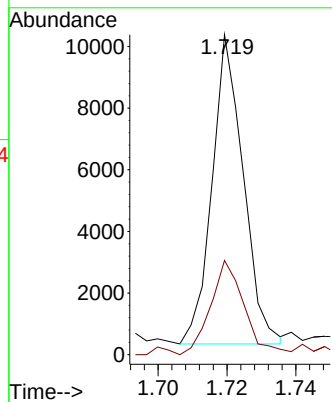
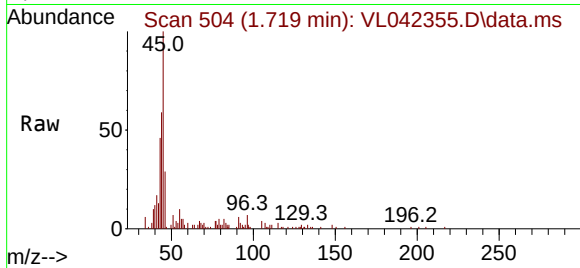




#13
Ethanol
Concen: 8.702 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

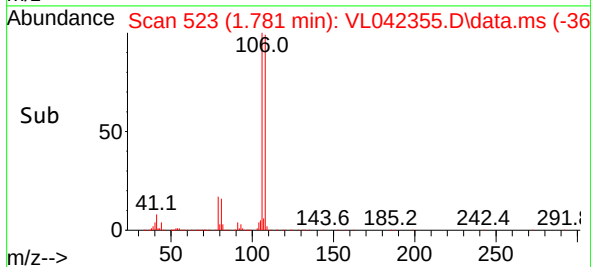
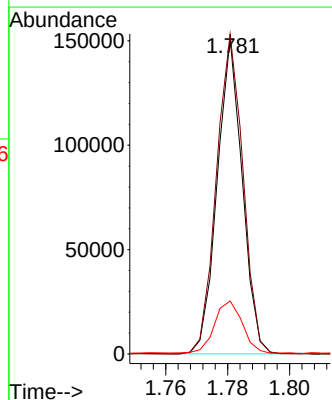
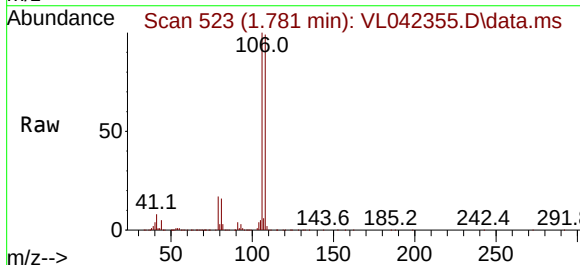
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ClientSampleId :
VSTDIC015

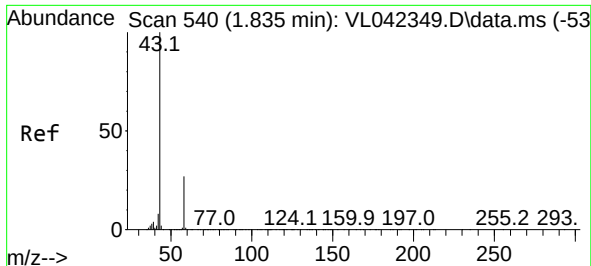
Tgt Ion: 45 Resp: 6324
Ion Ratio Lower Upper
45 100
46 37.6 21.9 87.7



#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

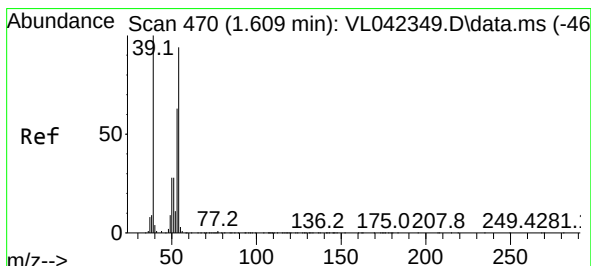
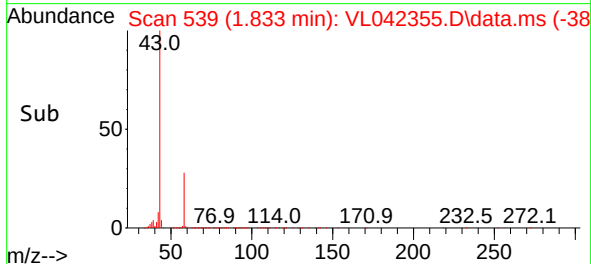
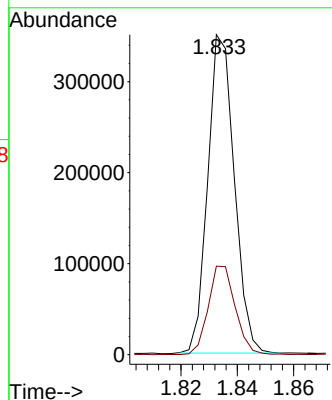
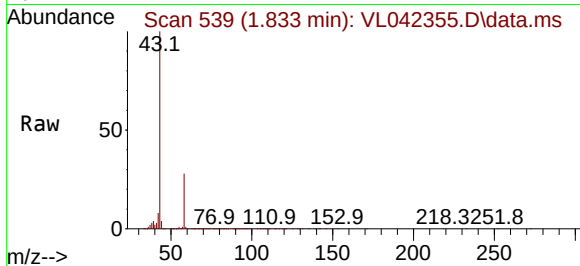




#15
Acetone
Concen: 12.056 ppbv
RT: 1.833 min Scan# 51
Delta R.T. -0.003 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

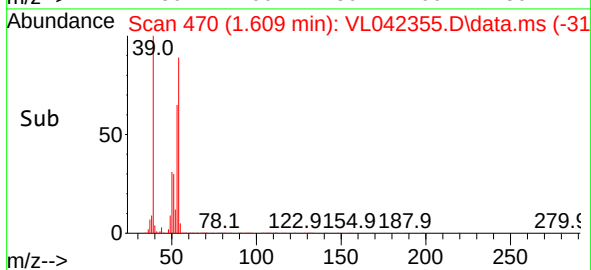
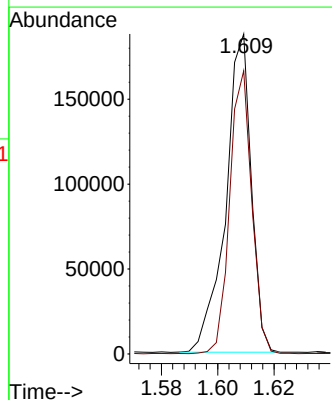
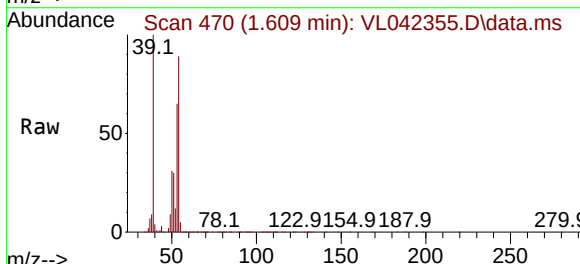
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

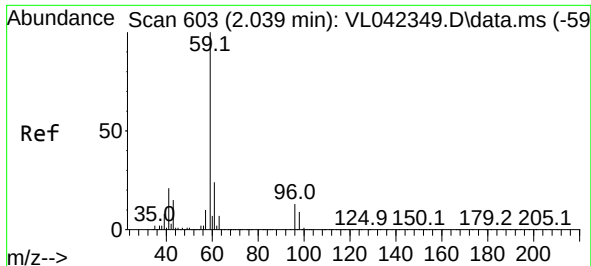
Tgt Ion: 43 Resp: 229086
Ion Ratio Lower Upper
43 100
58 28.4 22.4 33.6



#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_1

ClientSampleId :

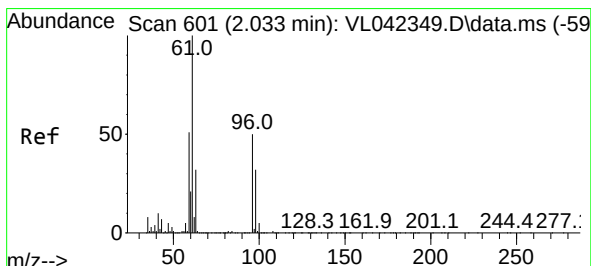
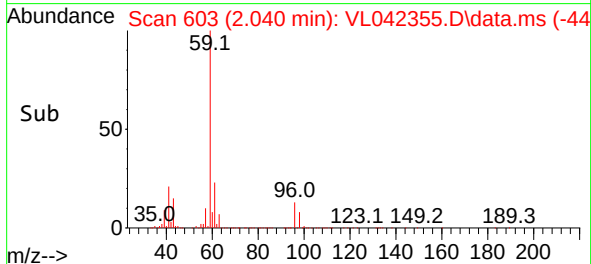
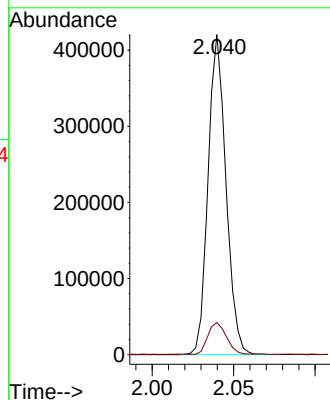
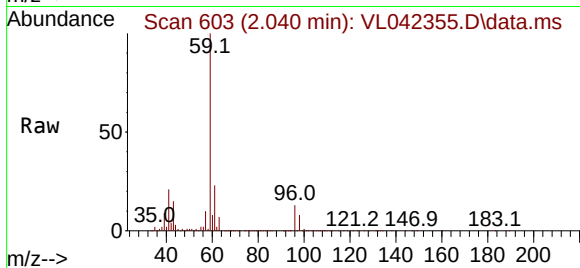
VSTDIC015

Tgt Ion: 59 Resp: 320605

Ion Ratio Lower Upper

59 100

57 10.6 8.7 13.1



#18

1,1-Dichloroethene

Concen: 14.045 ppbv

RT: 2.033 min Scan# 601

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

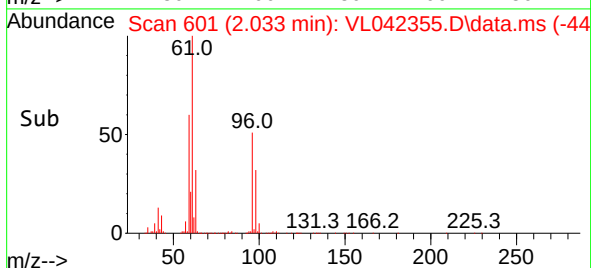
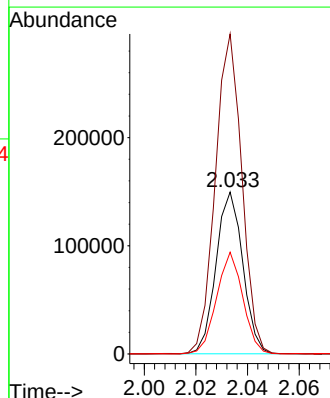
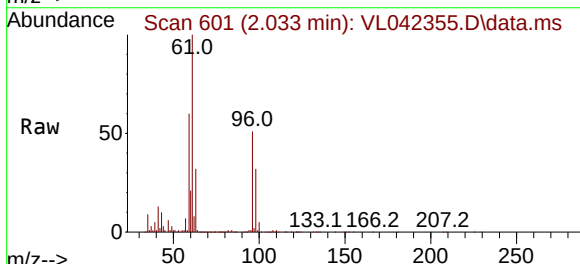
Tgt Ion: 96 Resp: 107666

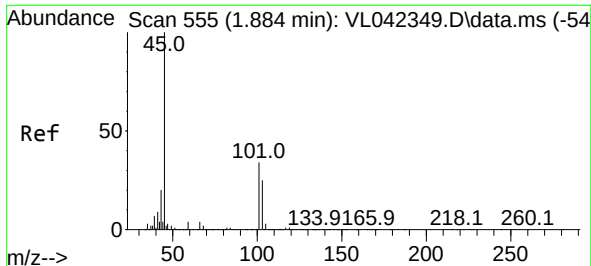
Ion Ratio Lower Upper

96 100

61 197.8 160.2 240.2

98 62.9 51.0 76.4

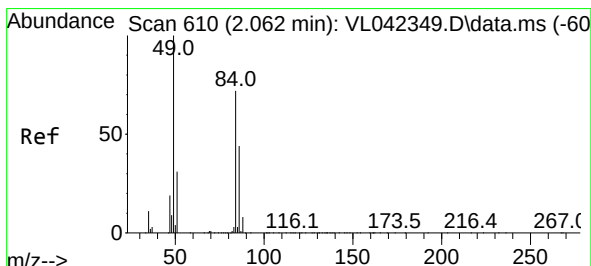
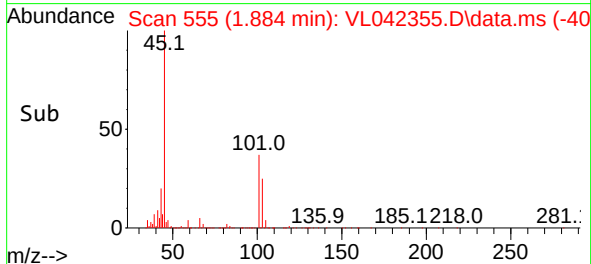
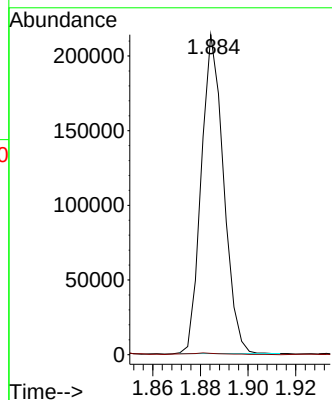
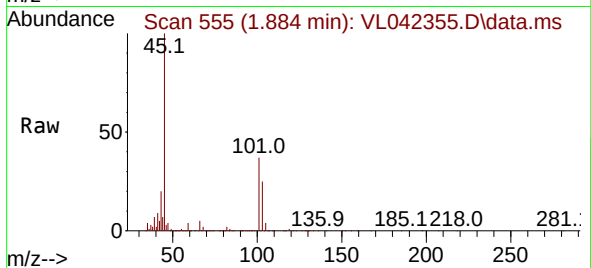




#19
Isopropyl Alcohol
Concen: 13.169 ppbv
RT: 1.884 min Scan# 511
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

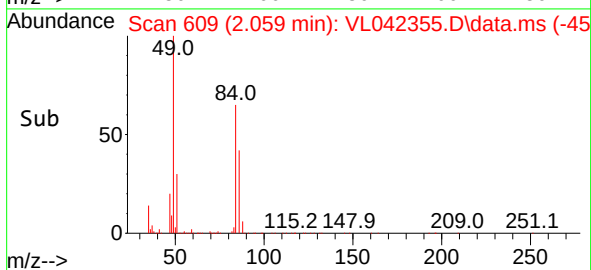
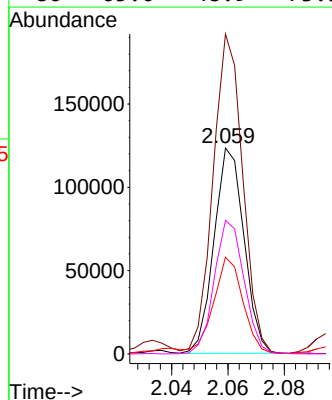
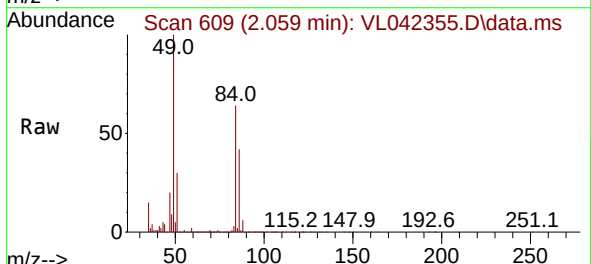
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC015

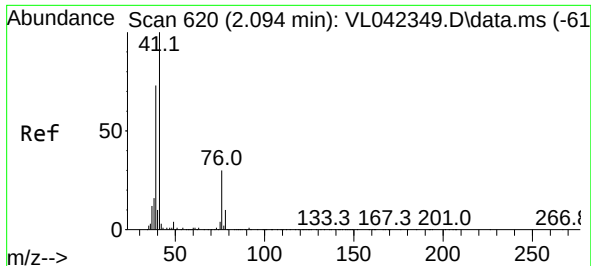
Tgt Ion: 45 Resp: 139004
Ion Ratio Lower Upper
45 100
58 46.9 34.5 51.7



#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

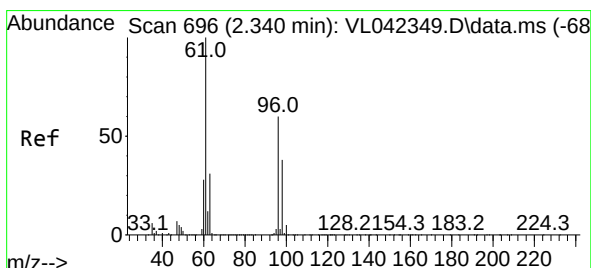
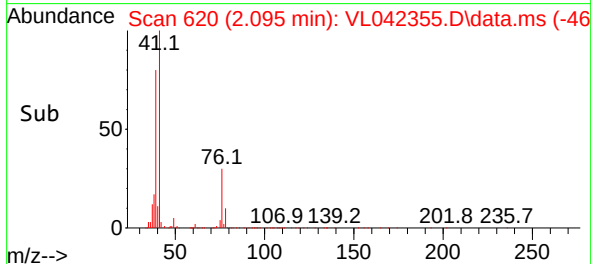
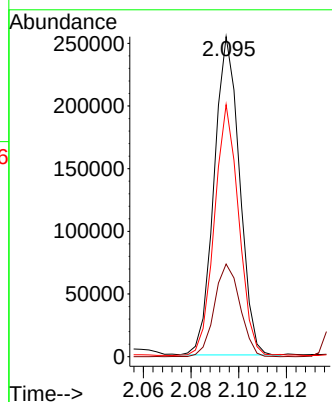
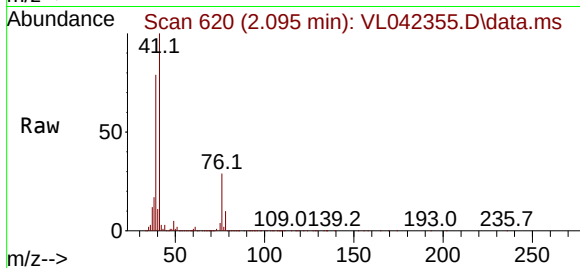




#21
 Allyl Chloride
 Concen: 14.329 ppbv
 RT: 2.095 min Scan# 61
 Delta R.T. 0.000 min
 Lab File: VL042355.D
 Acq: 17 Apr 2025 12:54

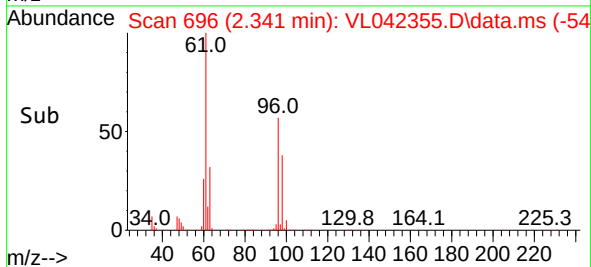
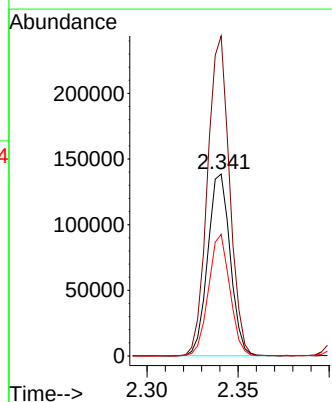
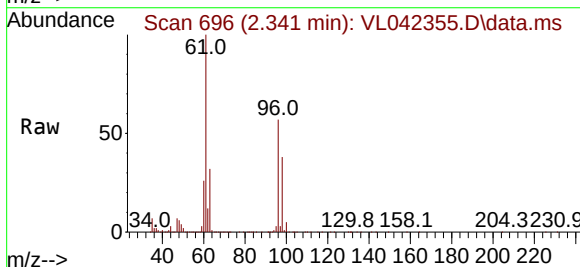
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

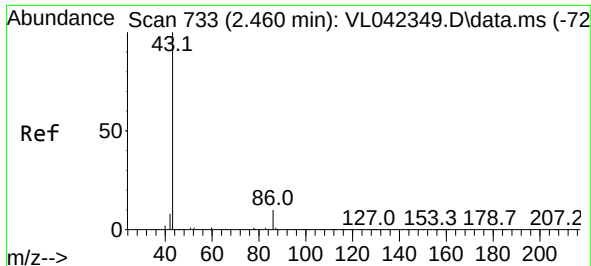
Tgt Ion: 41 Resp: 187995
 Ion Ratio Lower Upper
 41 100
 76 29.3 24.8 37.2
 39 75.2 60.6 90.8



#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

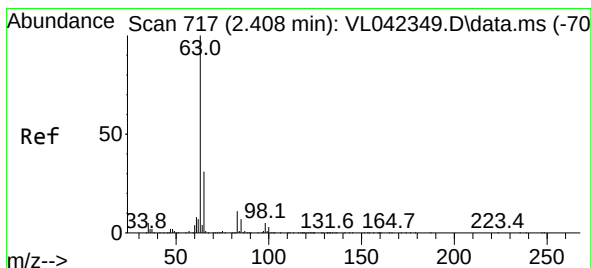
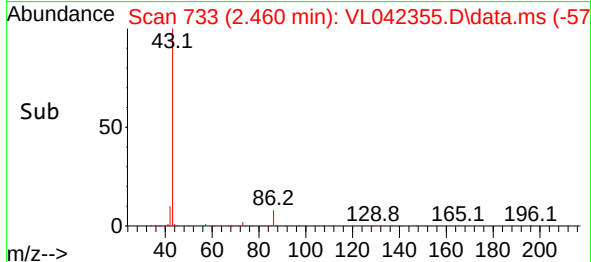
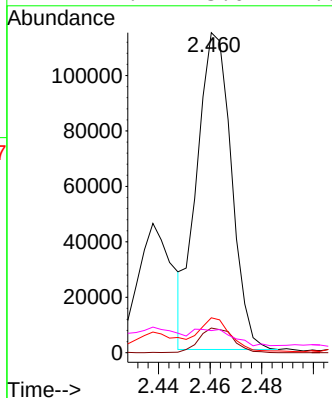
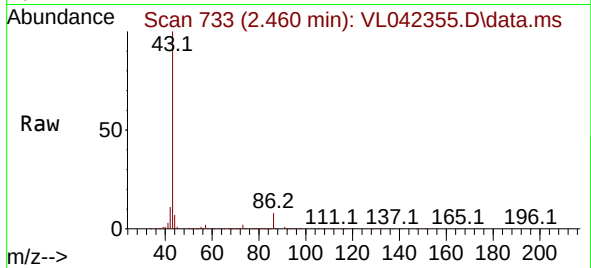




#23
 Vinyl Acetate
 Concen: 13.799 ppbv
 RT: 2.460 min Scan# 717
 Delta R.T. 0.000 min
 Lab File: VL042355.D
 Acq: 17 Apr 2025 12:54

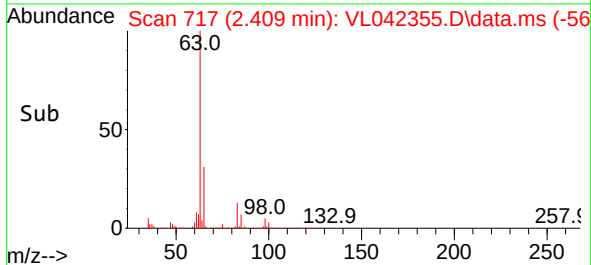
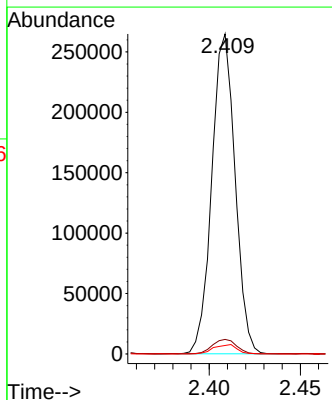
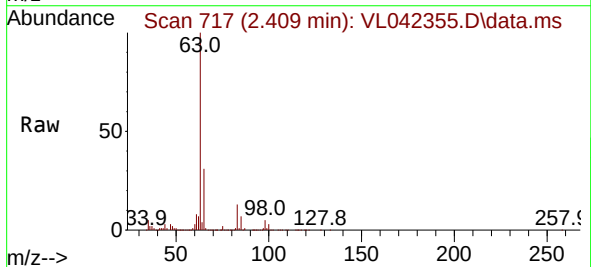
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC015

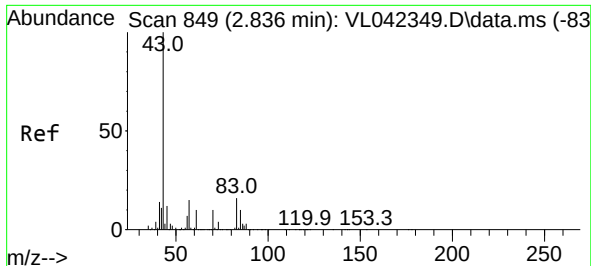
Tgt Ion:	43	Resp:	106135
Ion Ratio	Lower	Upper	
43	100		
86	7.8	6.5	9.7
42	10.4	7.8	11.8
44	4.7	5.0	7.6



#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

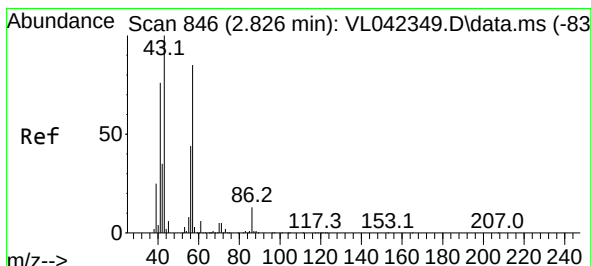
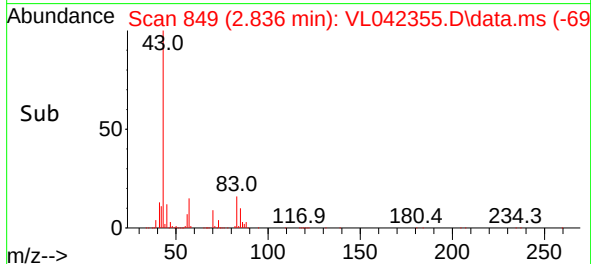
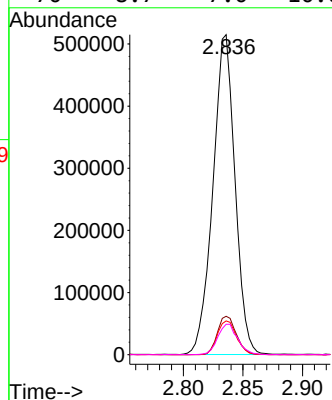
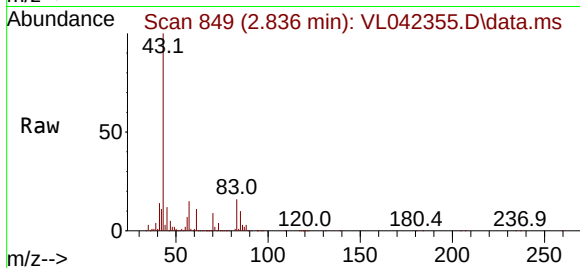




#25
Ethyl Acetate
Concen: 14.166 ppbv
RT: 2.836 min Scan# 849
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

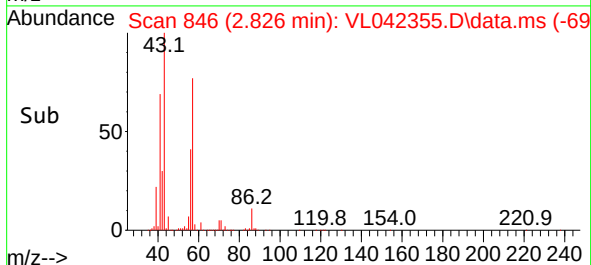
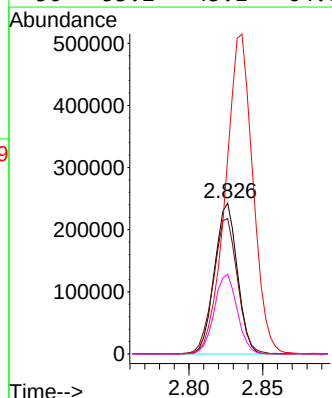
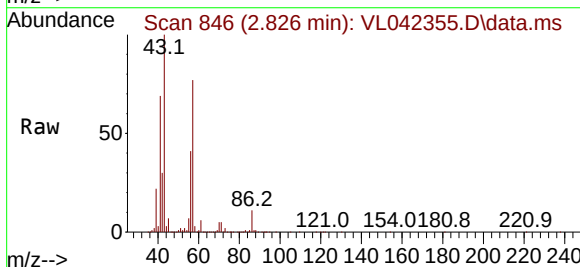
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

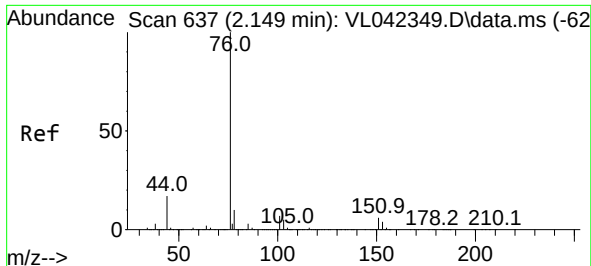
Tgt Ion:	43	Resp:	663644
Ion	Ratio	Lower	Upper
43	100		
45	10.4	8.3	12.5
61	9.2	7.3	10.9
70	8.7	7.0	10.6



#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

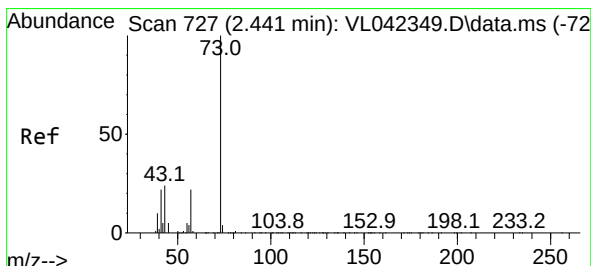
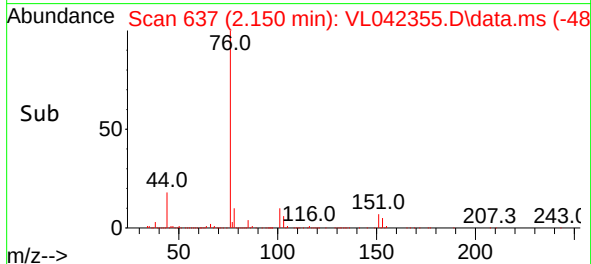
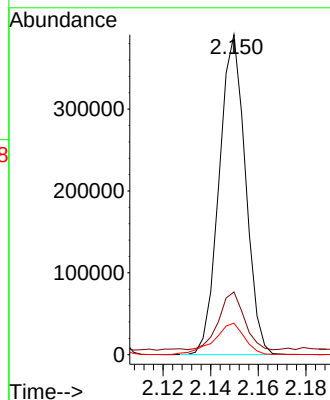
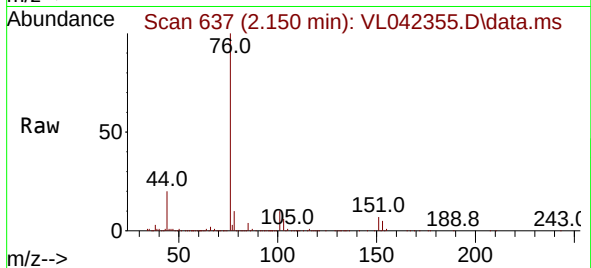




#27
Carbon Disulfide
Concen: 14.734 ppbv
RT: 2.150 min Scan# 61
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

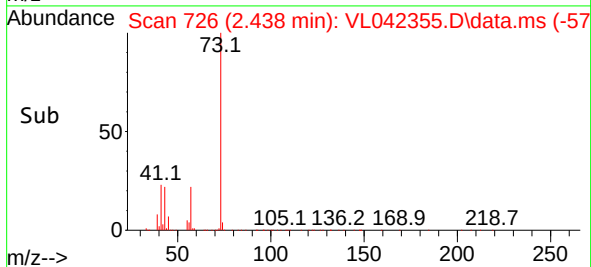
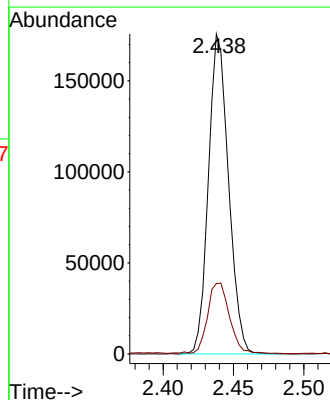
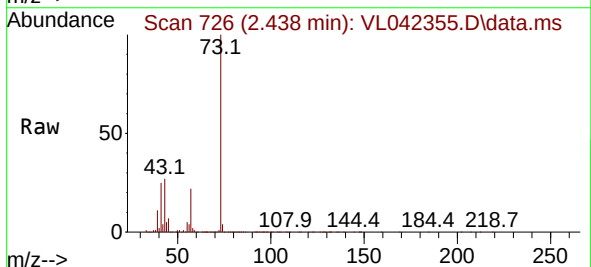
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

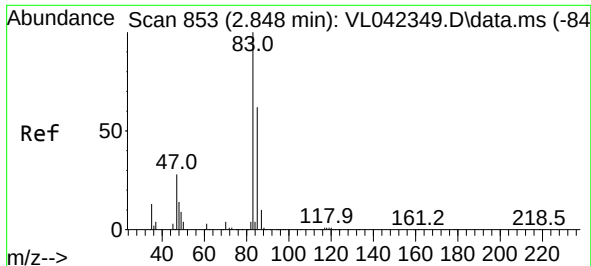
Tgt Ion: 76 Resp: 299098
Ion Ratio Lower Upper
76 100
44 17.3 15.5 23.3
78 11.4 9.3 13.9



#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# 853

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

Instrument :

MSVOA_L

ClientSampleId :

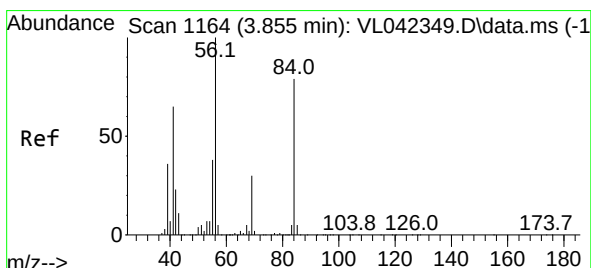
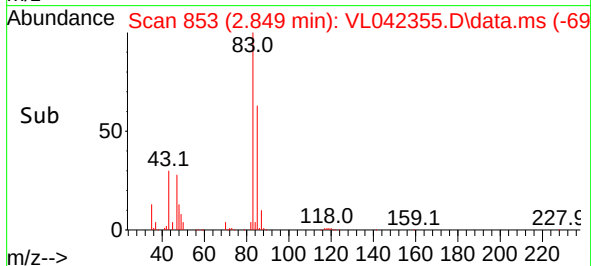
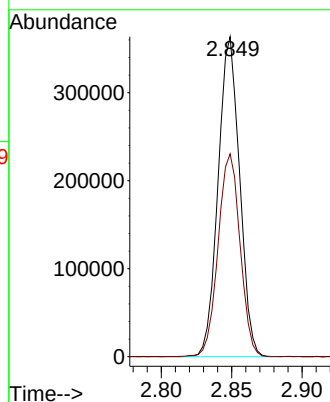
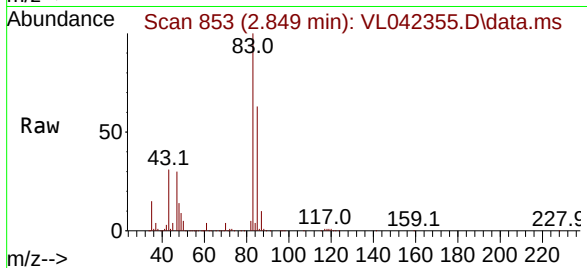
VSTDIC015

Tgt Ion: 83 Resp: 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

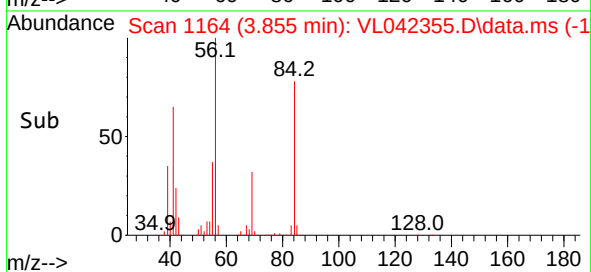
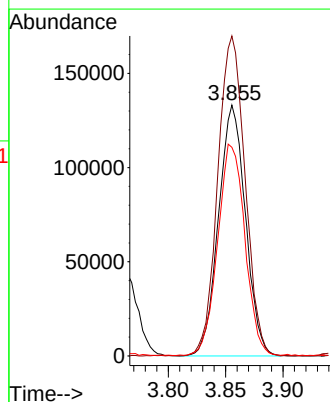
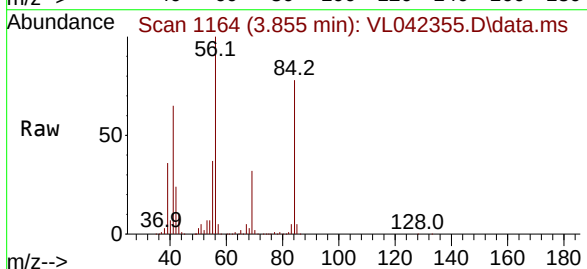
Tgt Ion: 84 Resp: 217375

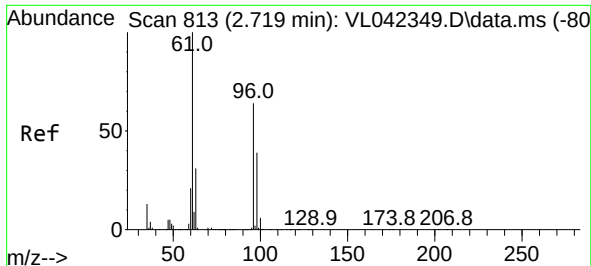
Ion Ratio Lower Upper

84 100

56 129.4 101.0 151.4

41 85.3 67.4 101.0

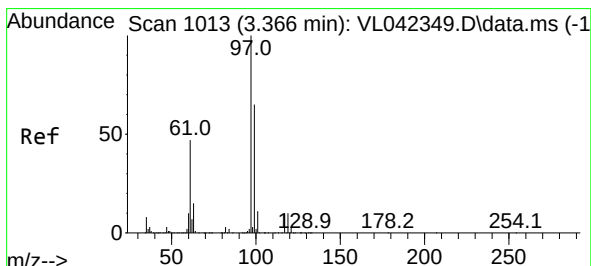
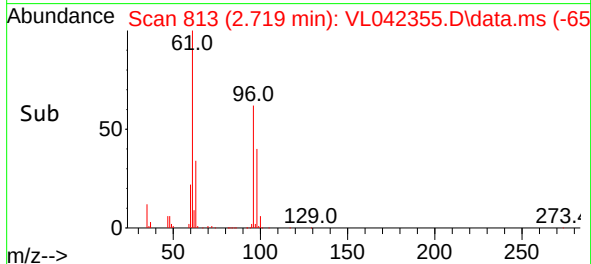
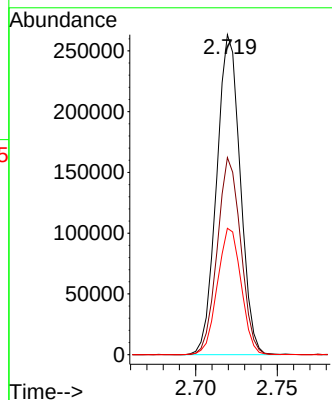
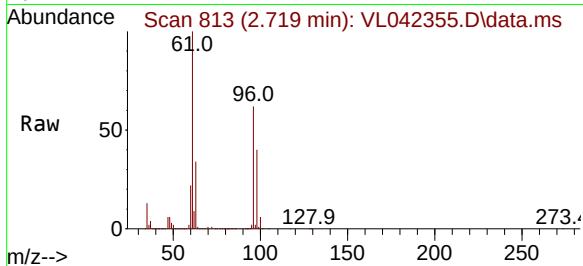




#31
 cis-1,2-Dichloroethene
 Concen: 14.700 ppbv
 RT: 2.719 min Scan# 813
 Delta R.T. 0.000 min
 Lab File: VL042355.D
 Acq: 17 Apr 2025 12:54

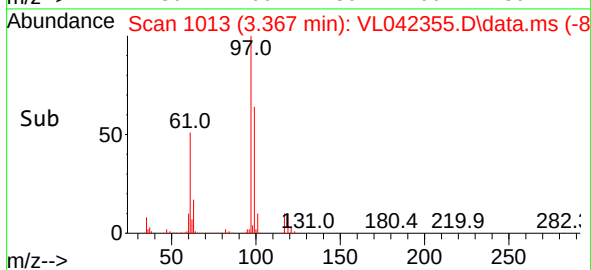
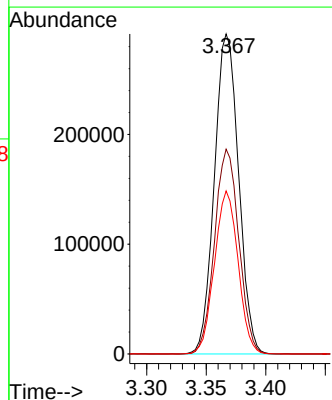
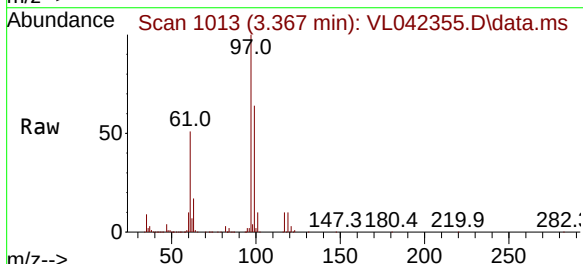
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

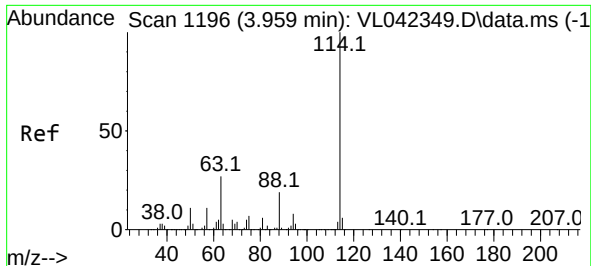
Tgt Ion:	61	Resp:	264972
Ion	Ratio	Lower	Upper
61	100		
96	61.6	50.8	76.2
98	39.5	30.9	46.3



#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 :

VSTDICC015

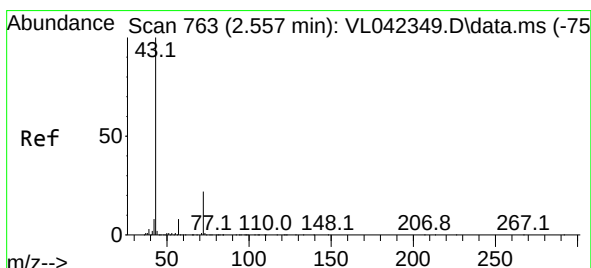
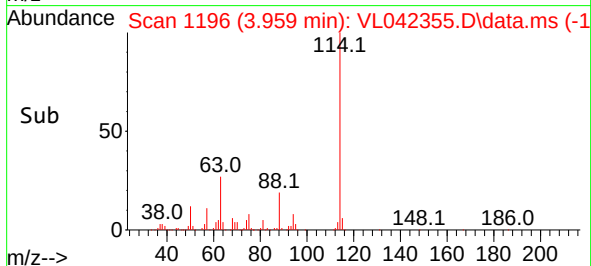
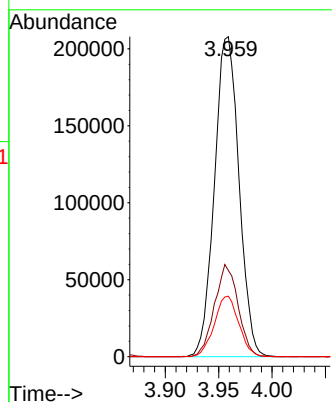
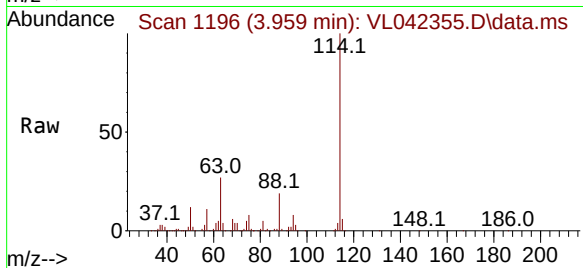
Tgt Ion:114 Resp: 332080

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

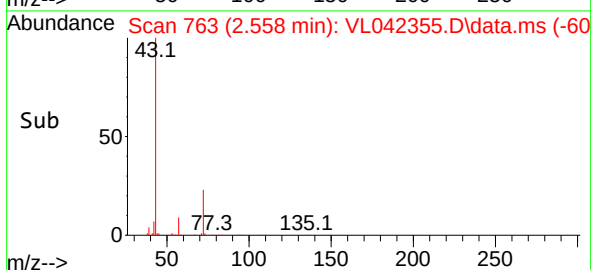
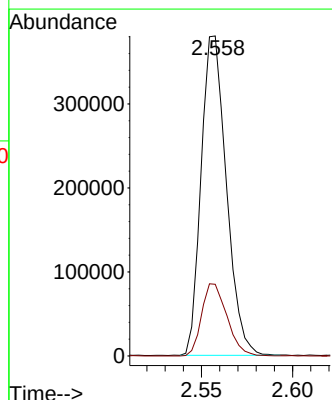
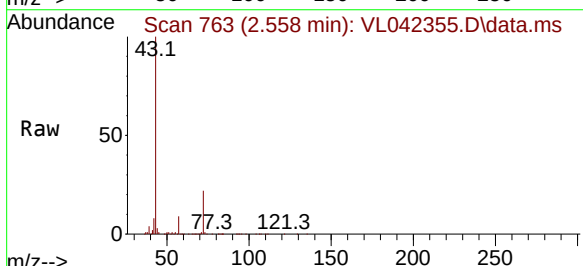
Acq: 17 Apr 2025 12:54

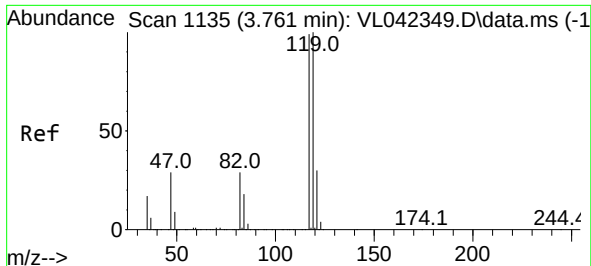
Tgt Ion: 43 Resp: 367315

Ion Ratio Lower Upper

43 100

72 22.7 18.2 27.2

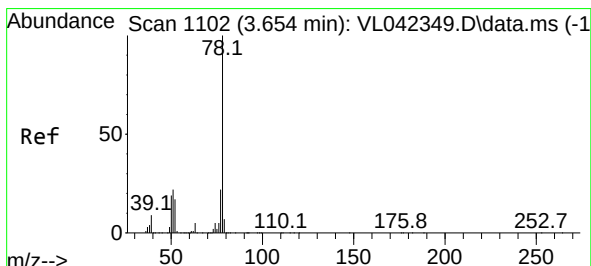
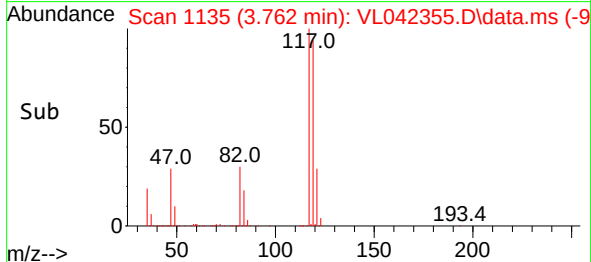
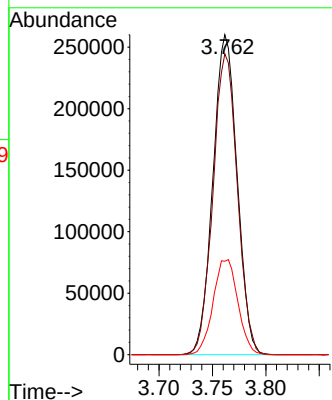
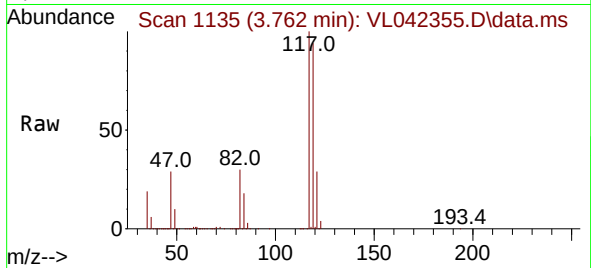




#35
Carbon Tetrachloride
Concen: 13.639 ppbv
RT: 3.762 min Scan# 1135
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

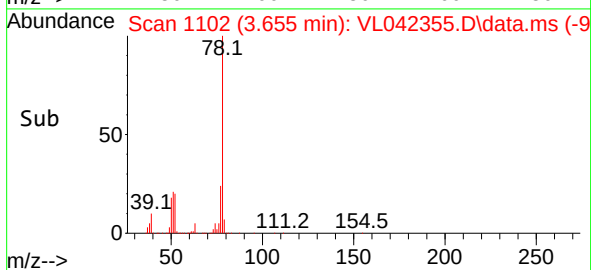
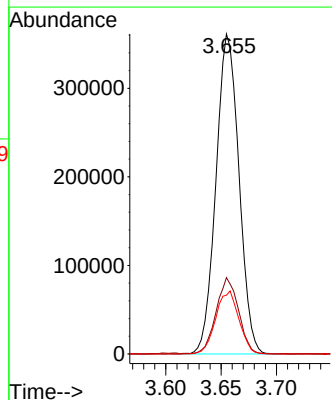
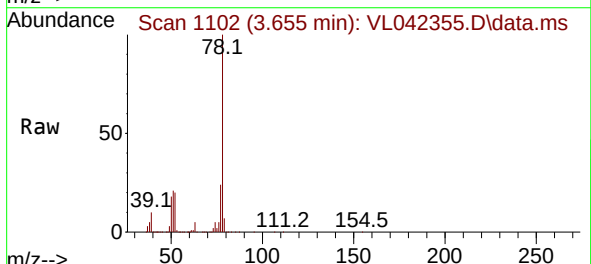
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

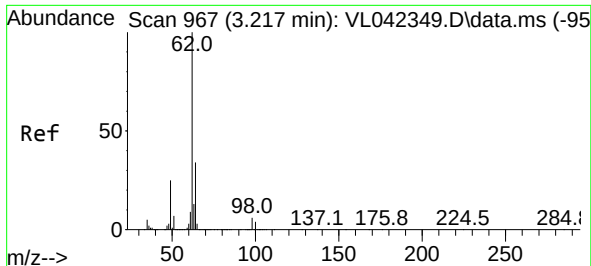
Tgt Ion:117 Resp: 409916
Ion Ratio Lower Upper
117 100
119 94.0 80.5 120.7
121 29.2 24.2 36.2



#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# 9

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

Instrument :

MSVOA_L

ClientSampleId :

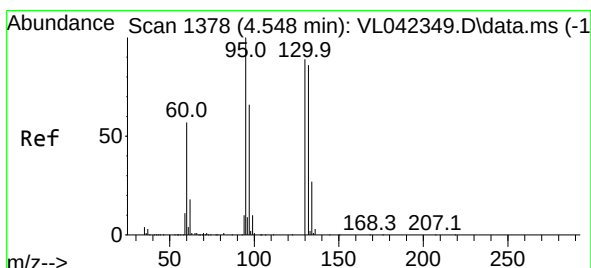
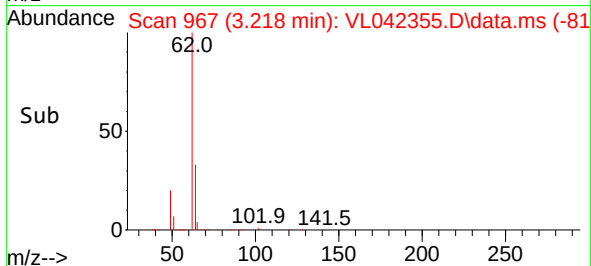
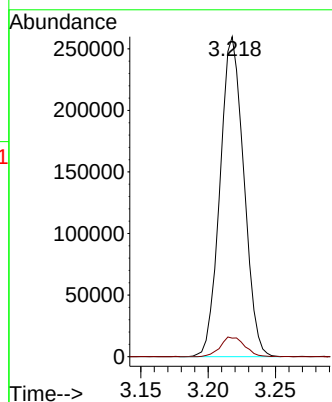
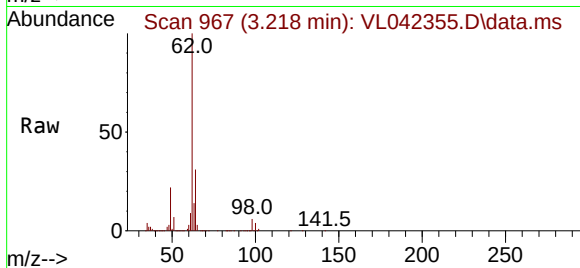
VSTDIC015

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

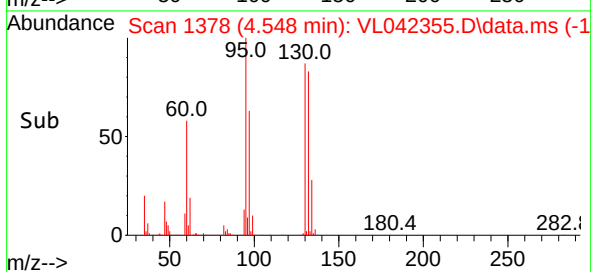
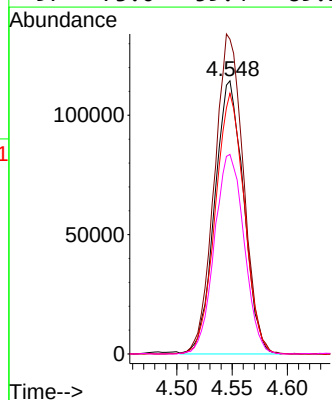
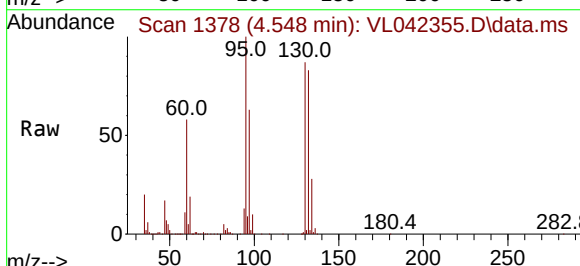
Ion Ratio Lower Upper

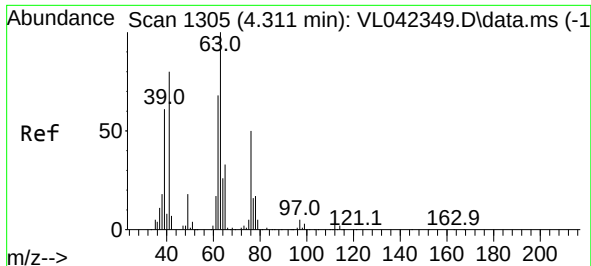
130 100

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

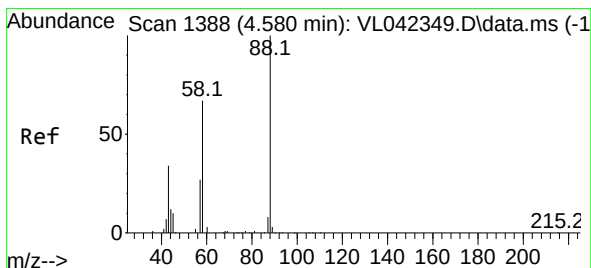
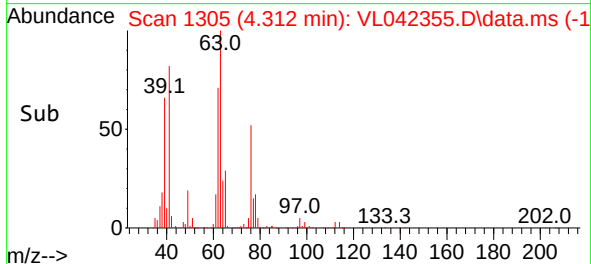
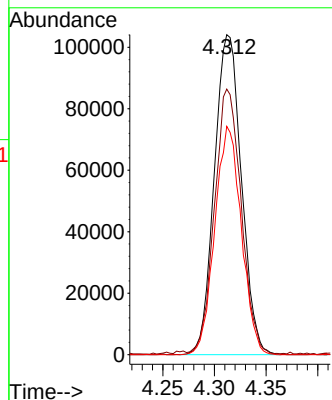
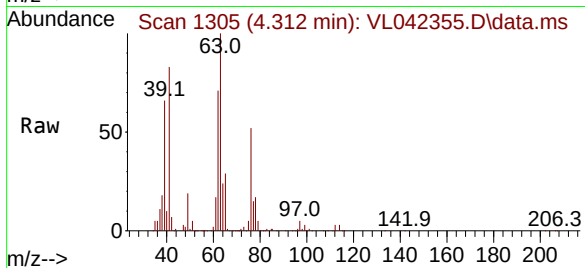
Tgt Ion: 63 Resp: 189697

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

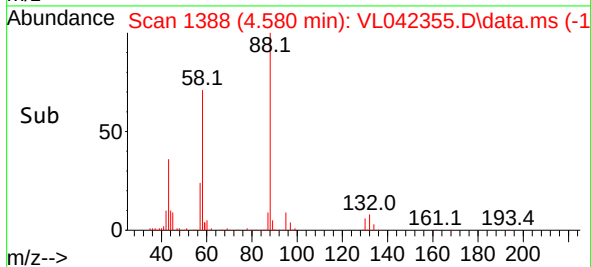
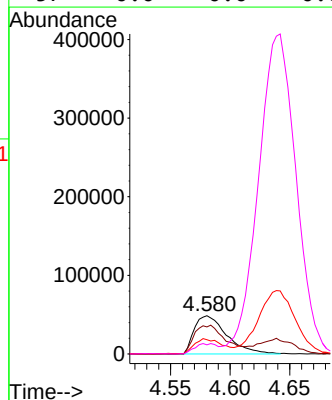
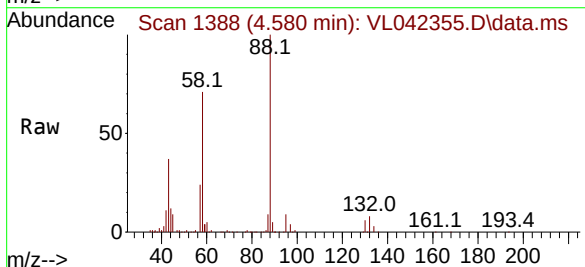
Ion Ratio Lower Upper

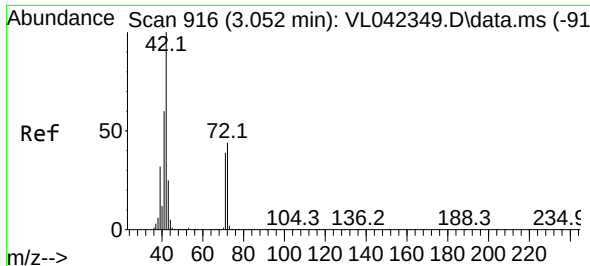
88 100

58 75.2 61.4 92.0

43 36.8 23.2 34.8#

57 0.0 0.0 0.0

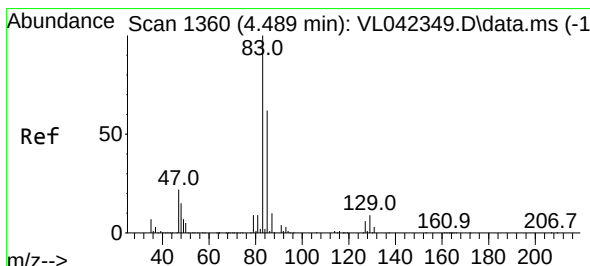
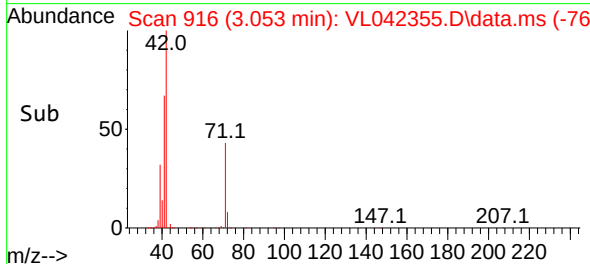
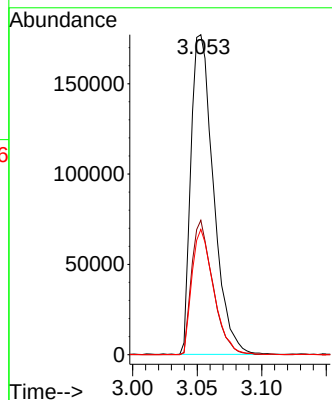
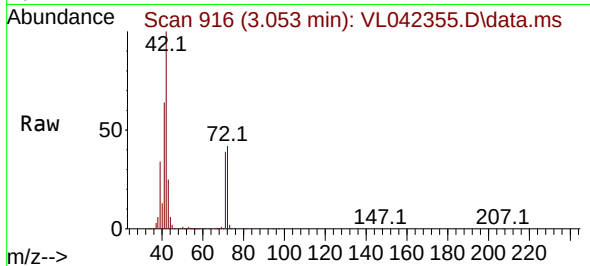




#41
Tetrahydrofuran
Concen: 14.166 ppbv
RT: 3.053 min Scan# 916
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

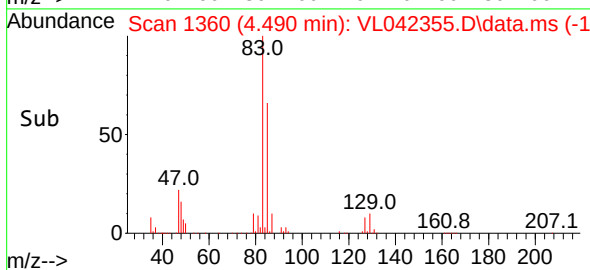
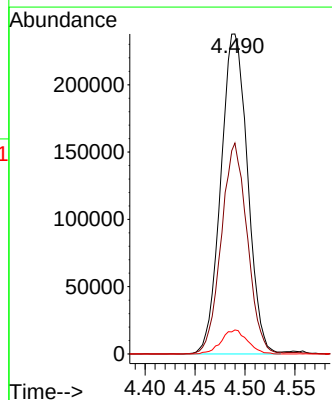
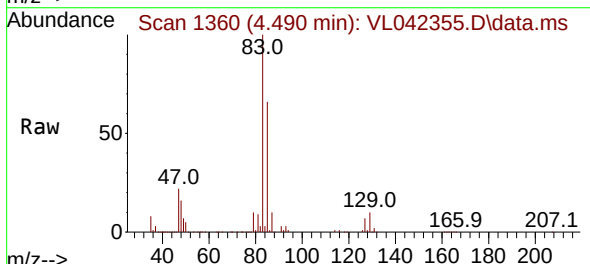
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

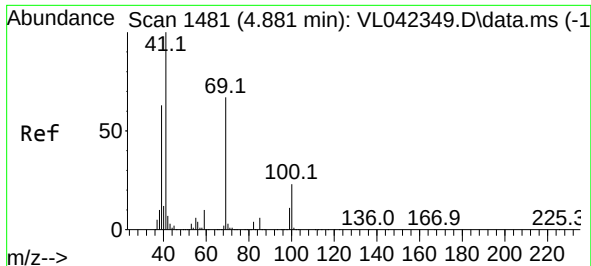
Tgt Ion: 42 Resp: 214949
Ion Ratio Lower Upper
42 100
72 39.7 32.3 48.5
71 37.9 31.4 47.2



#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

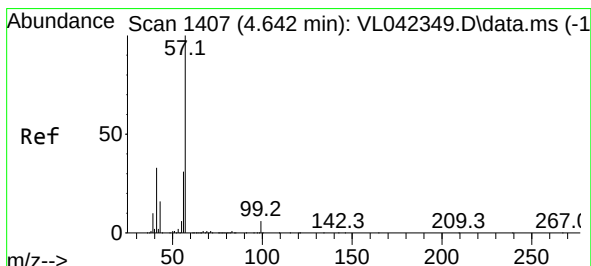
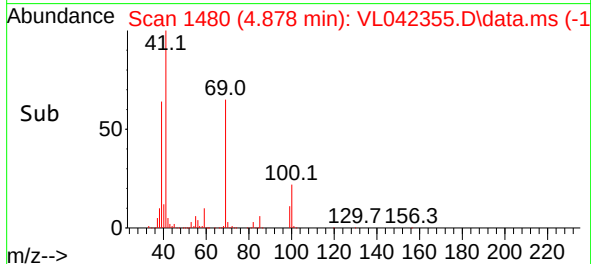
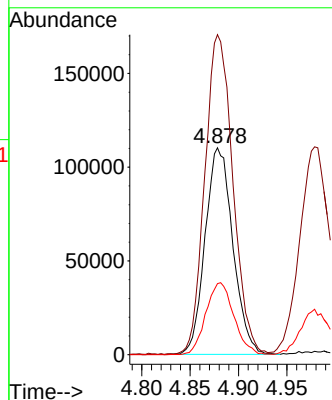
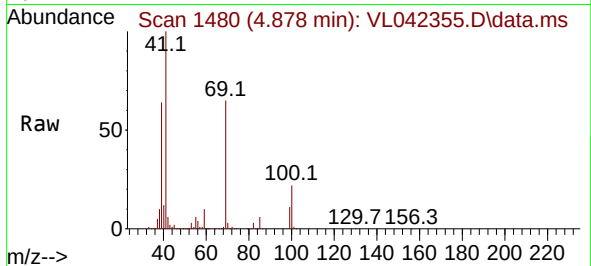




#43
Methyl Methacrylate
Concen: 13.670 ppbv
RT: 4.878 min Scan# 1480
Delta R.T. -0.003 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

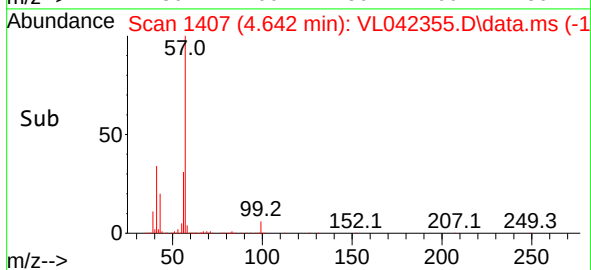
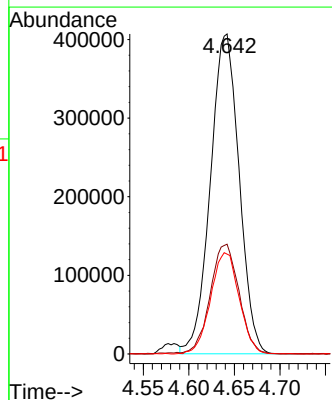
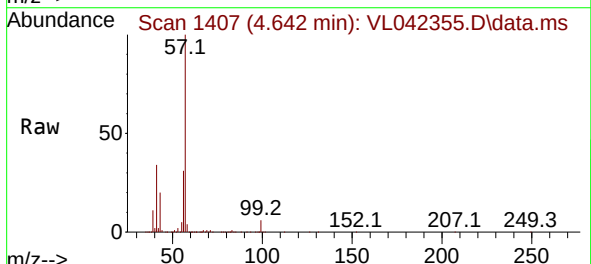
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

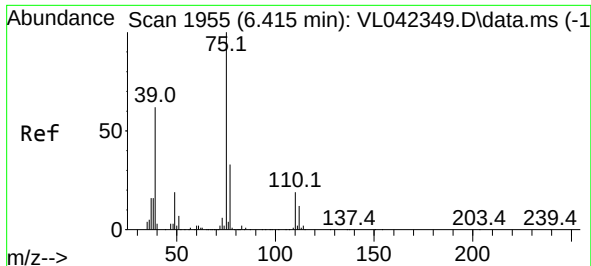
Tgt Ion: 69 Resp: 219757
Ion Ratio Lower Upper
69 100
41 156.6 118.6 177.8
100 35.2 28.2 42.2



#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

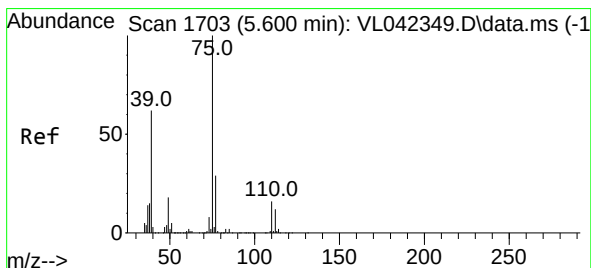
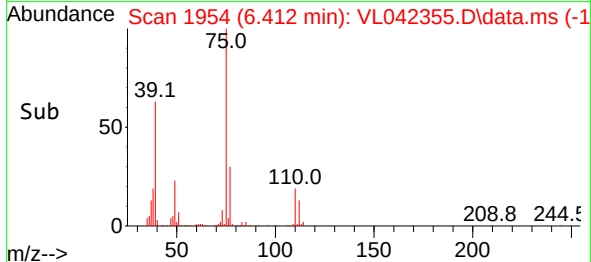
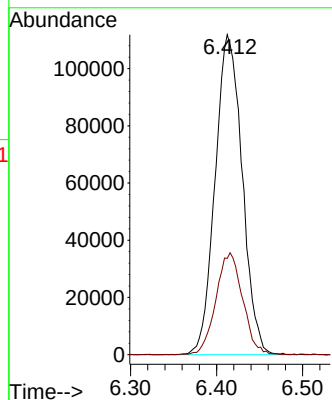
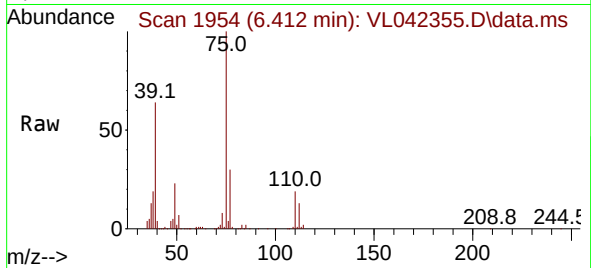




#45
 t-1,3-Dichloropropene
 Concen: 14.810 ppbv
 RT: 6.412 min Scan# 1954
 Delta R.T. -0.003 min
 Lab File: VL042355.D
 Acq: 17 Apr 2025 12:54

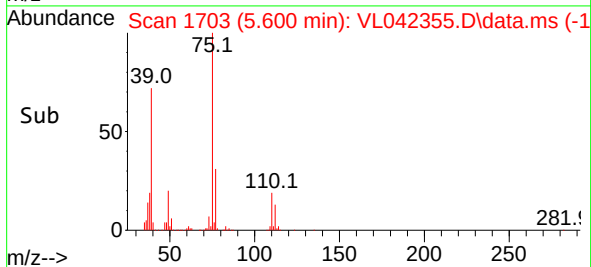
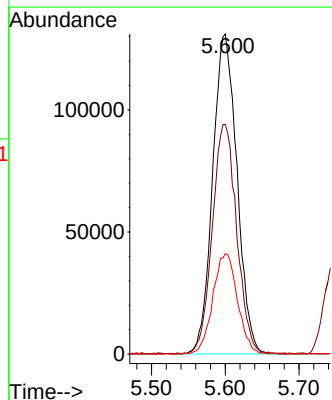
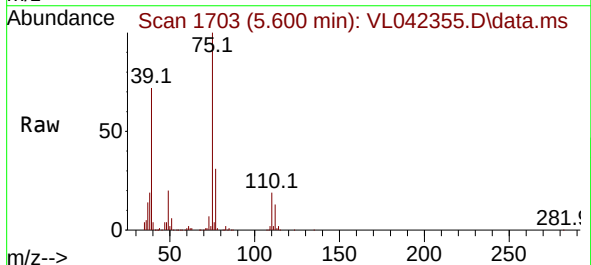
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC015

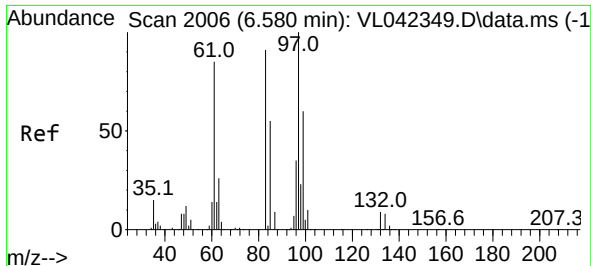
Tgt Ion: 75 Resp: 244470
 Ion Ratio Lower Upper
 75 100
 77 30.1 27.0 40.6



#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



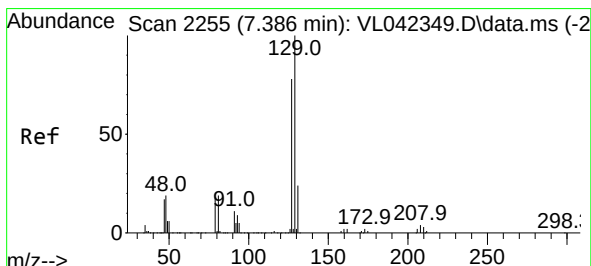
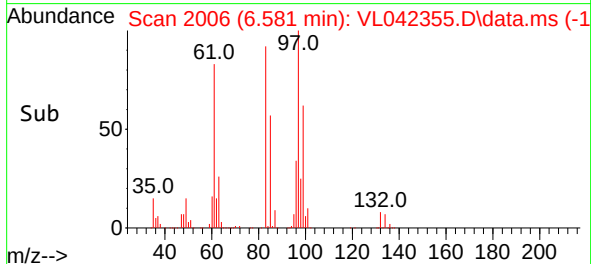
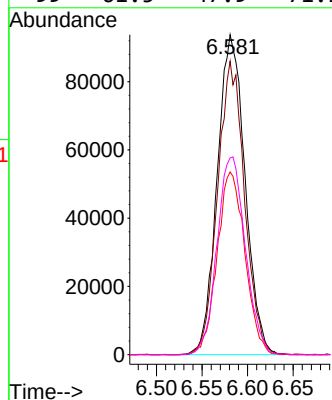
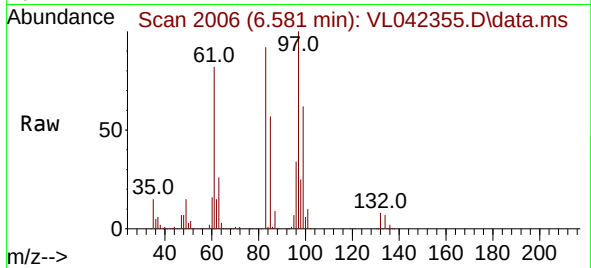


#47
1,1,2-Trichloroethane
Concen: 14.615 ppbv
RT: 6.581 min Scan# 2006
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 97 Resp: 198874

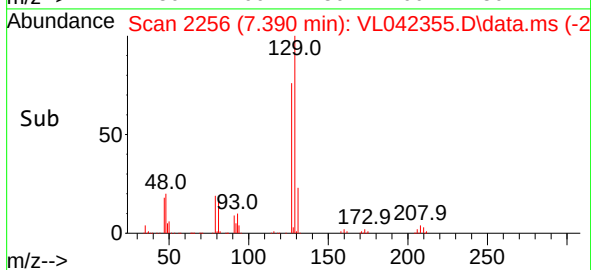
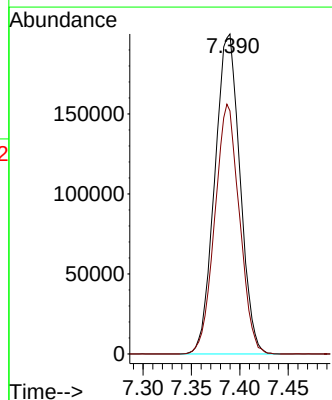
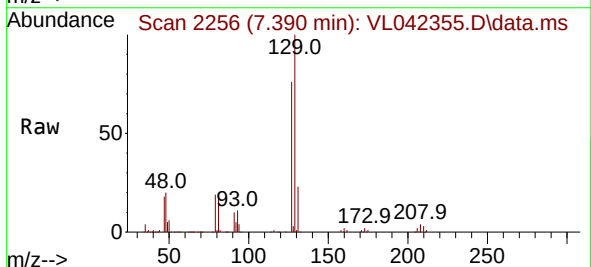
Ion	Ratio	Lower	Upper
97	100		
83	91.7	72.8	109.2
85	57.0	44.2	66.4
99	61.5	47.9	71.9

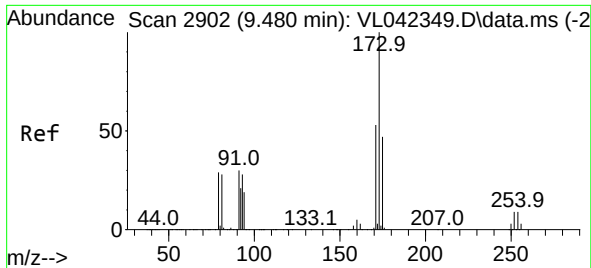


#48
Dibromochloromethane
Concen: 15.105 ppbv
RT: 7.390 min Scan# 2256
Delta R.T. 0.004 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

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

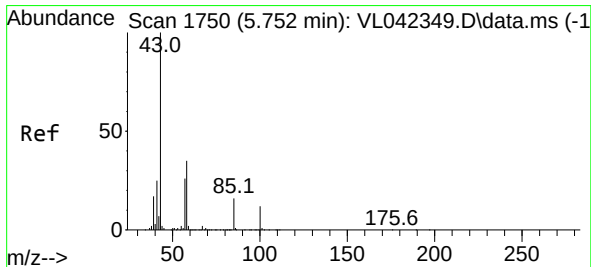
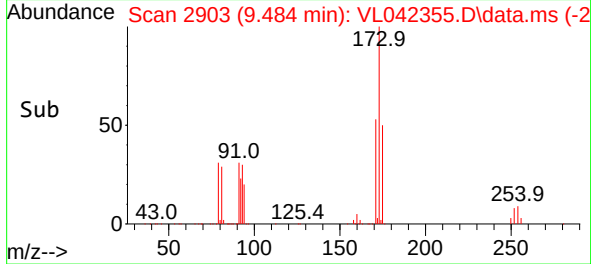
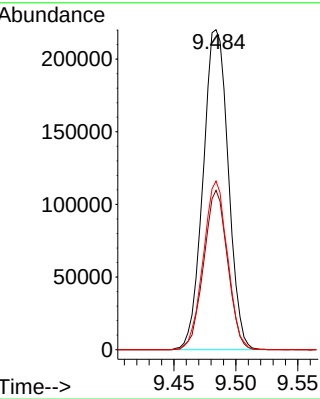
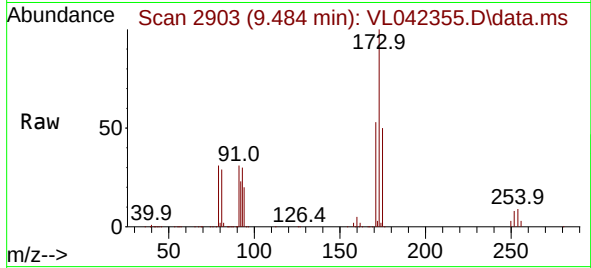
Tgt Ion:173 Resp: 312282

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

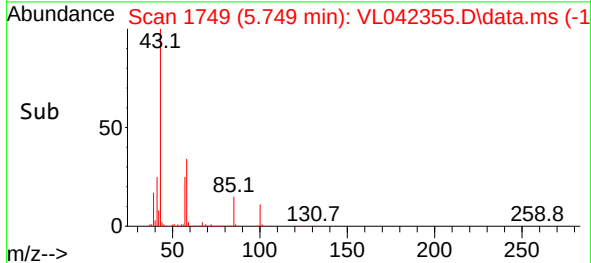
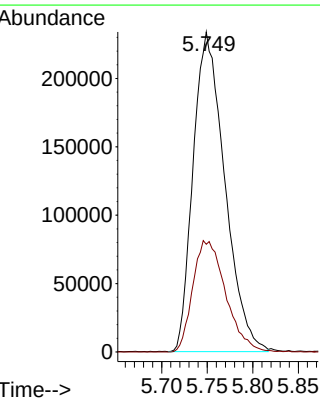
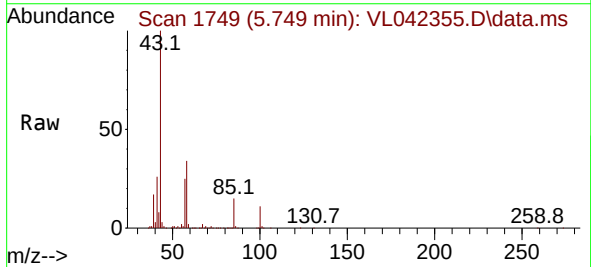
Acq: 17 Apr 2025 12:54

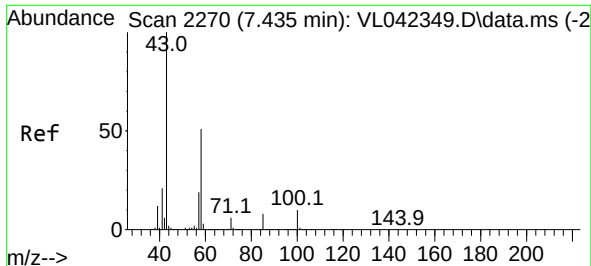
Tgt Ion: 43 Resp: 563658

Ion Ratio Lower Upper

43 100

58 36.3 28.6 43.0

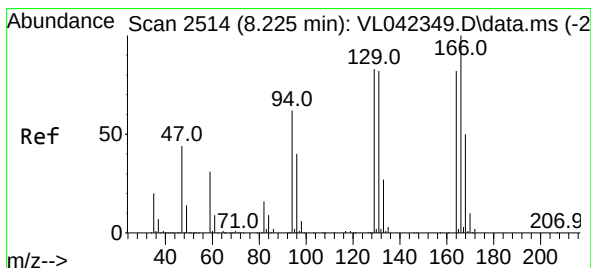
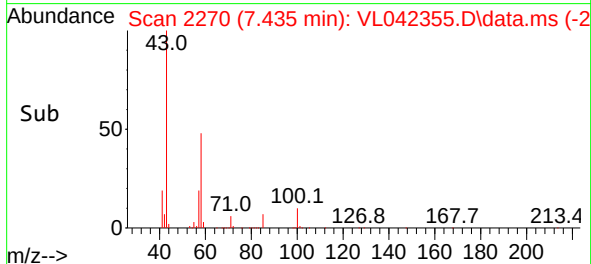
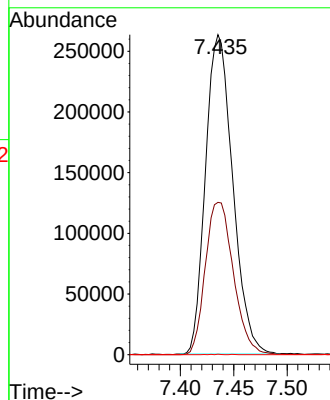
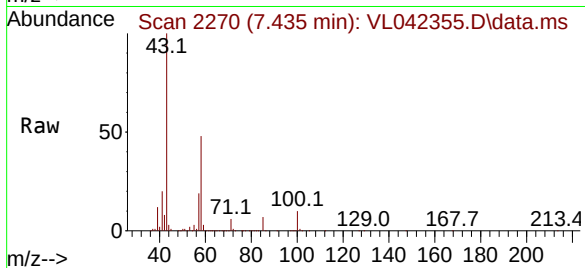




#51
2-Hexanone
Concen: 11.834 ppbv
RT: 7.435 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

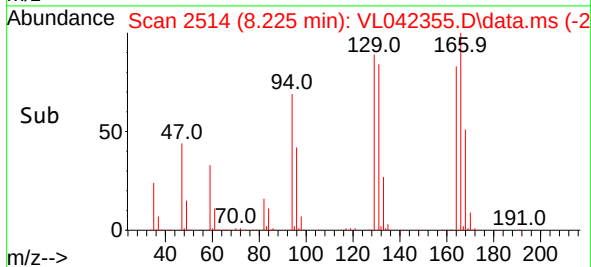
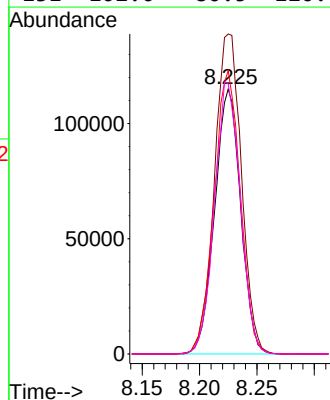
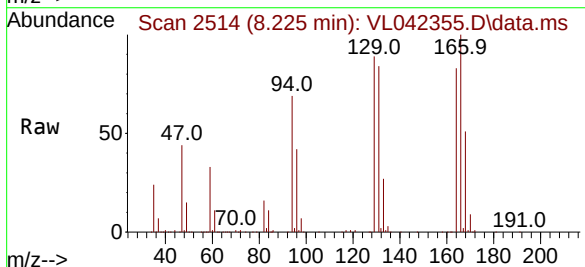
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

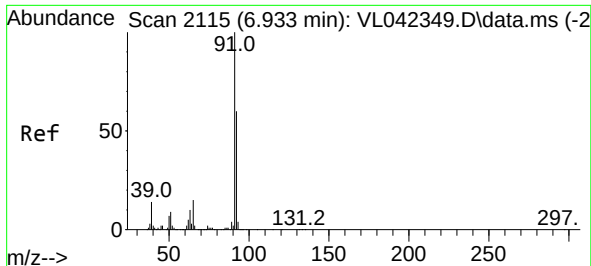
Tgt Ion: 43 Resp: 467001
Ion Ratio Lower Upper
43 100
58 49.2 40.2 60.4
98 0.0 0.1 0.1#



#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

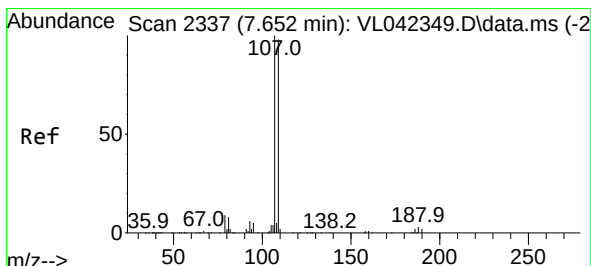
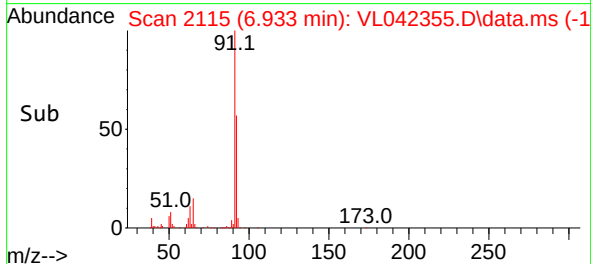
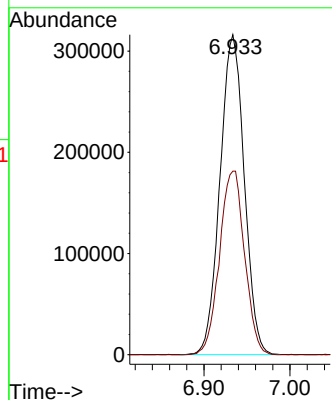
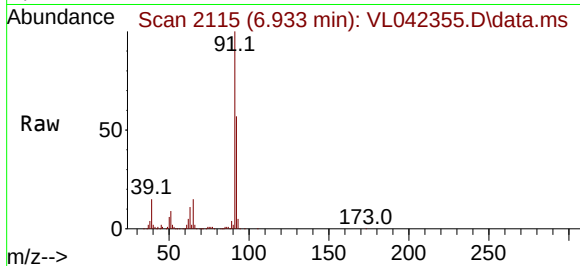




#53
Toluene
Concen: 14.411 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

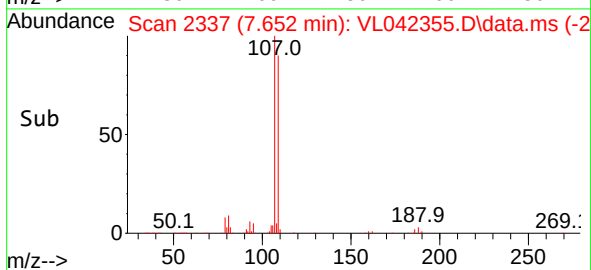
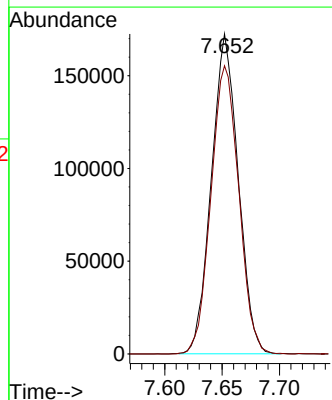
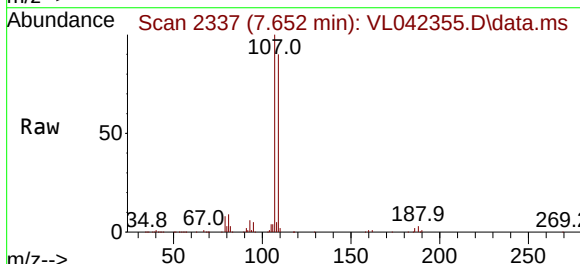
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

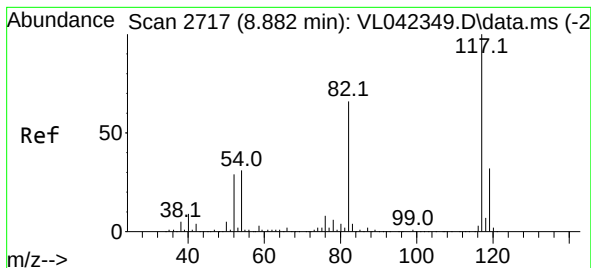
Tgt Ion: 91 Resp: 619420
Ion Ratio Lower Upper
91 100
92 59.3 48.2 72.4



#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_L

ClientSampleId :

VSTDIC015

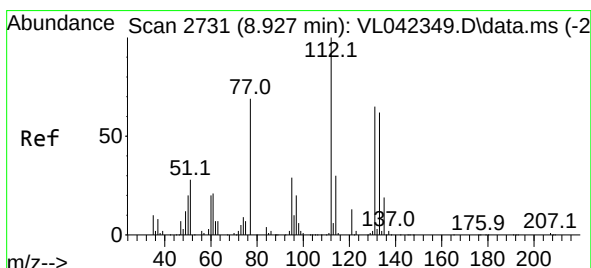
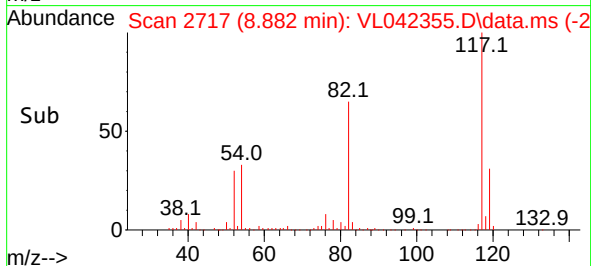
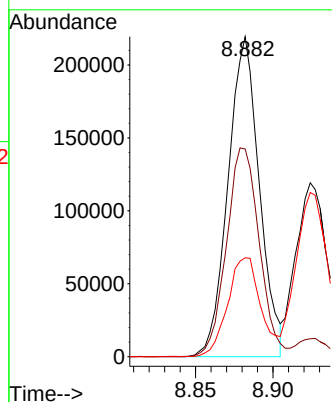
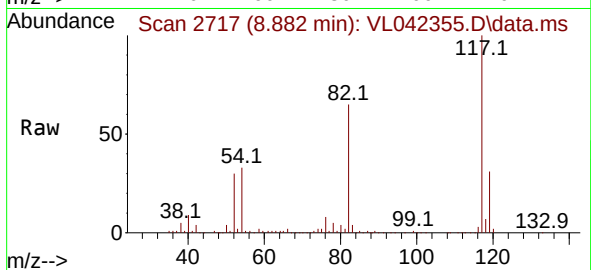
Tgt Ion:117 Resp: 308463

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

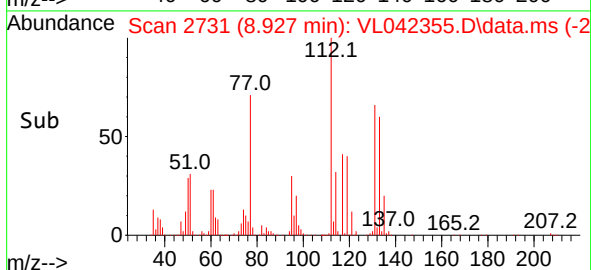
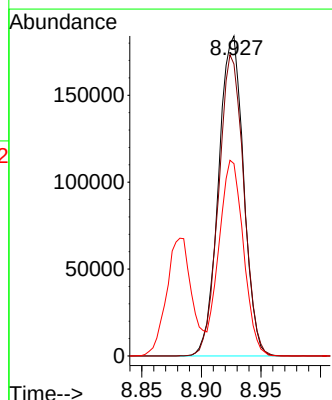
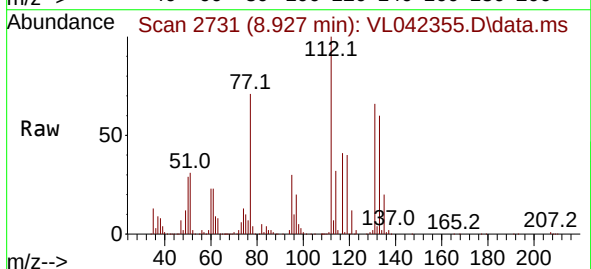
Tgt Ion:131 Resp: 268626

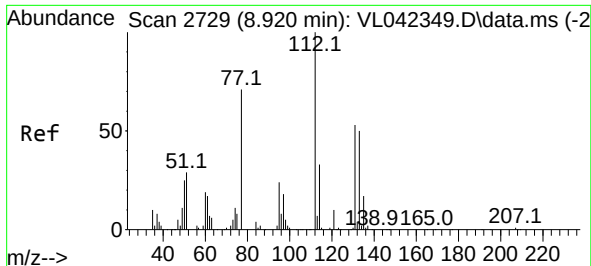
Ion Ratio Lower Upper

131 100

133 94.6 78.3 117.5

119 59.4 48.7 73.1

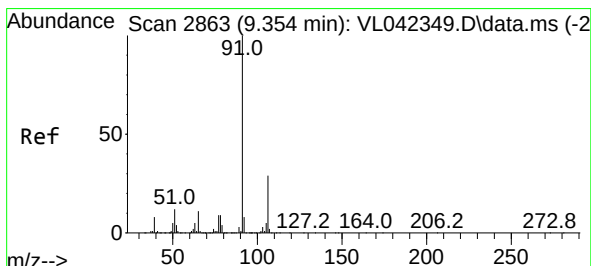
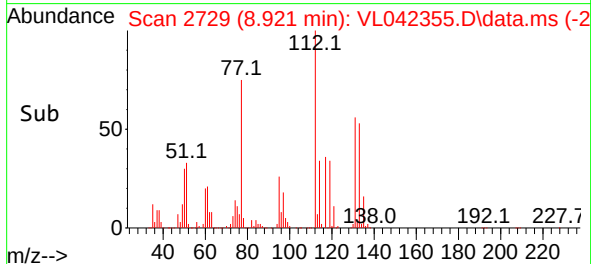
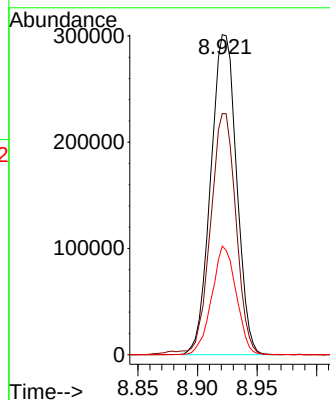
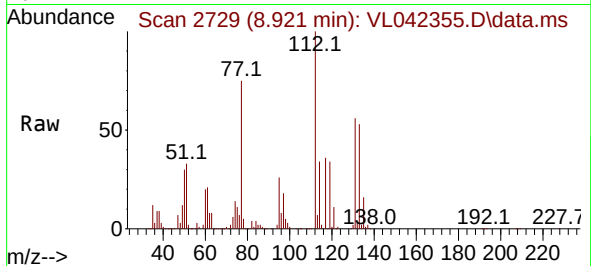




#57
Chlorobenzene
Concen: 14.151 ppbv
RT: 8.921 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

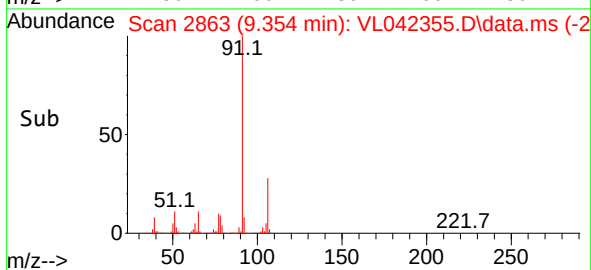
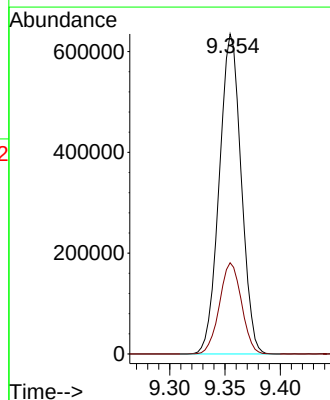
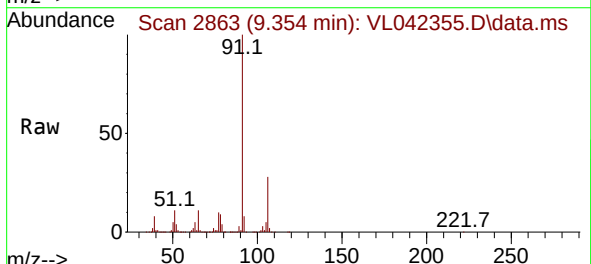
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

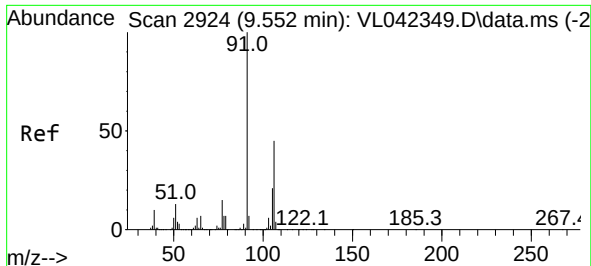
Tgt Ion:112 Resp: 454017
Ion Ratio Lower Upper
112 100
77 75.3 57.8 86.6
114 33.9 29.3 35.9



#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 :

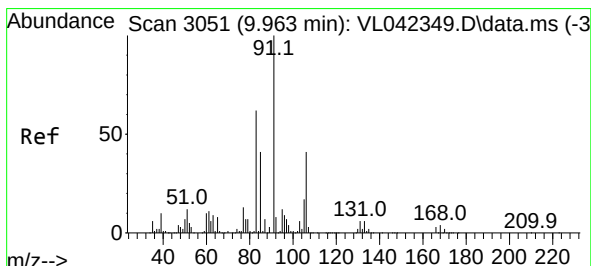
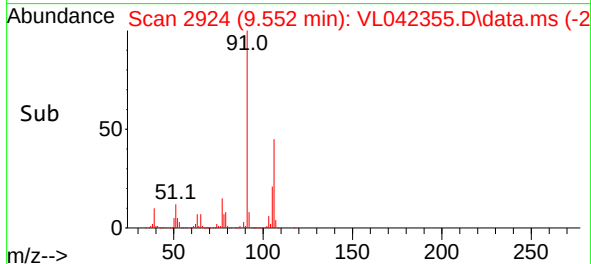
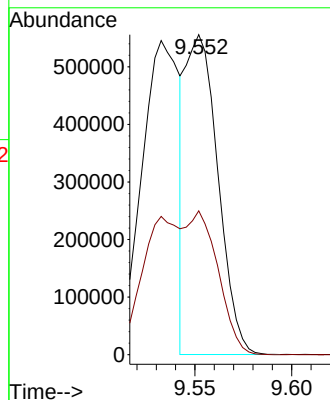
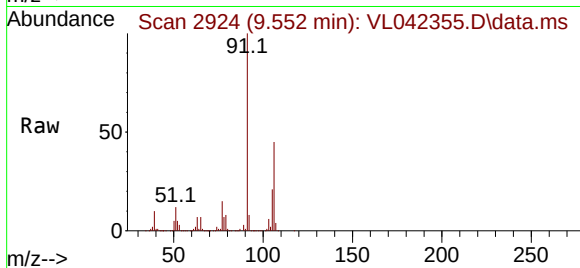
VSTDIC015

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

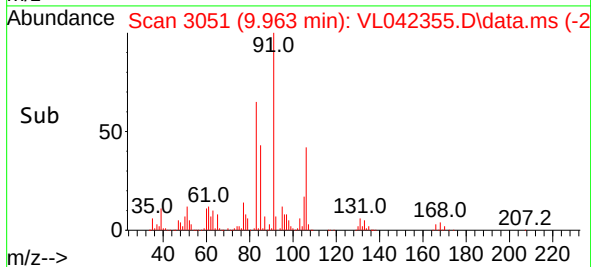
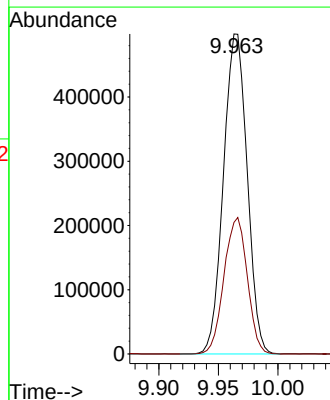
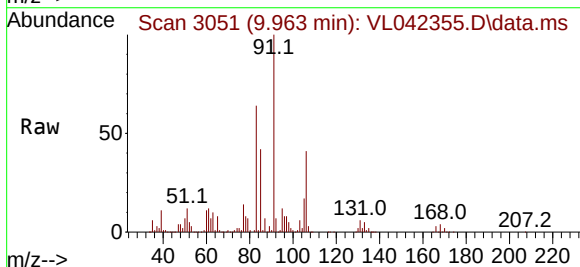
Acq: 17 Apr 2025 12:54

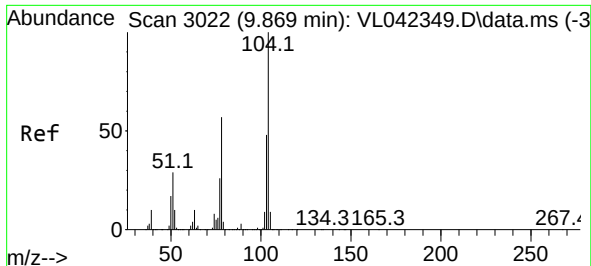
Tgt Ion: 91 Resp: 689246

Ion Ratio Lower Upper

91 100

106 41.9 21.1 63.4

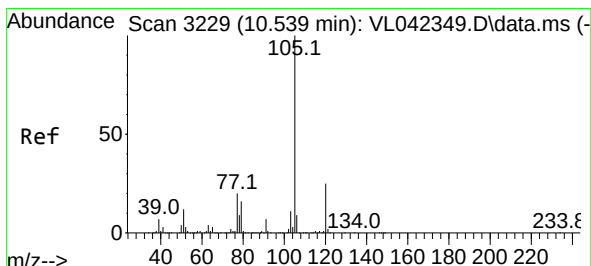
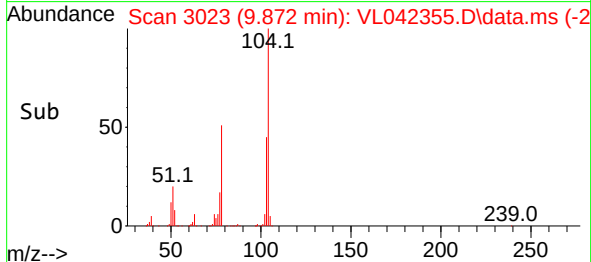
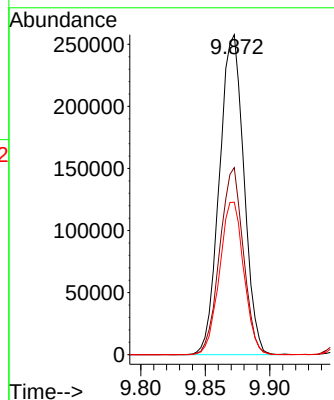
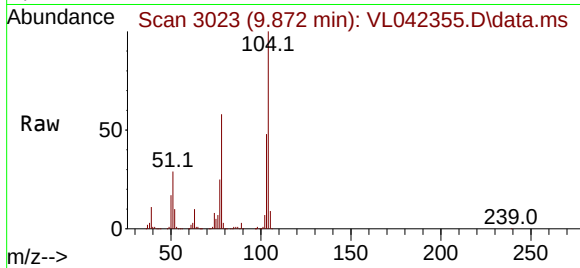




#61
Styrene
Concen: 14.347 ppbv
RT: 9.872 min Scan# 3023
Delta R.T. 0.004 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

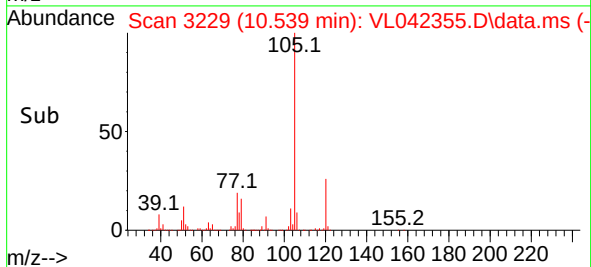
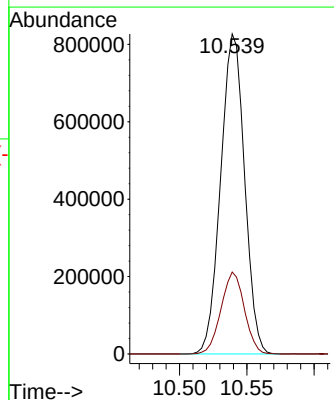
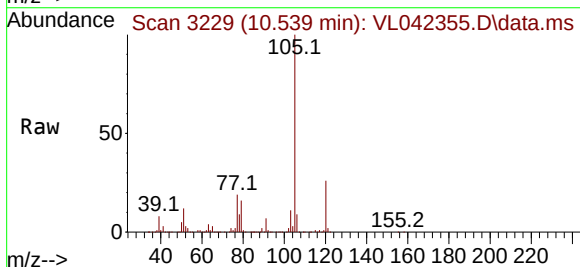
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

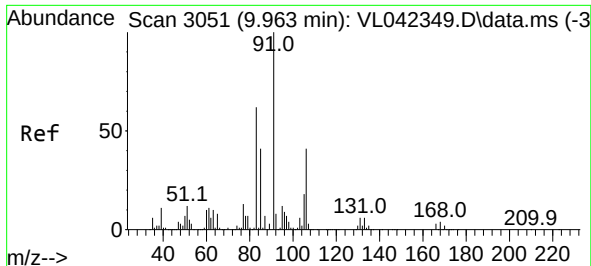
Tgt Ion:104 Resp: 339508
Ion Ratio Lower Upper
104 100
78 56.4 44.6 66.8
103 47.3 37.4 56.0



#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

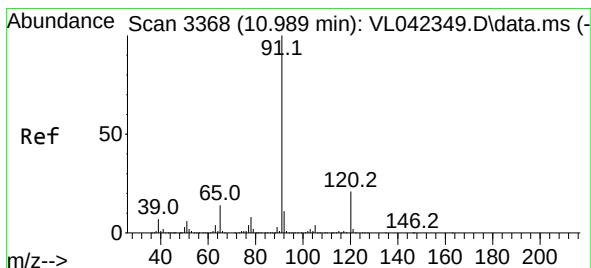
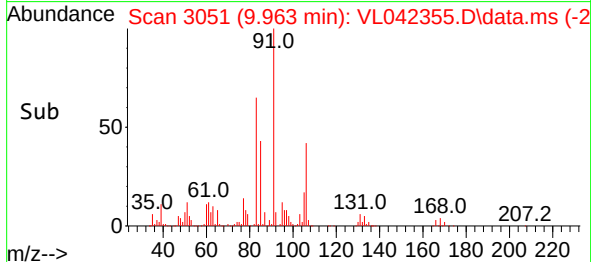
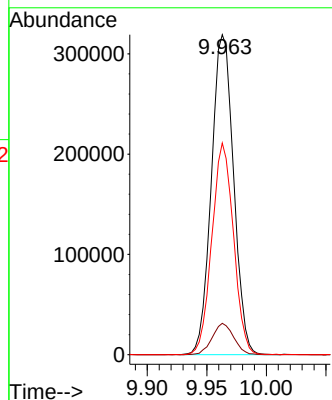
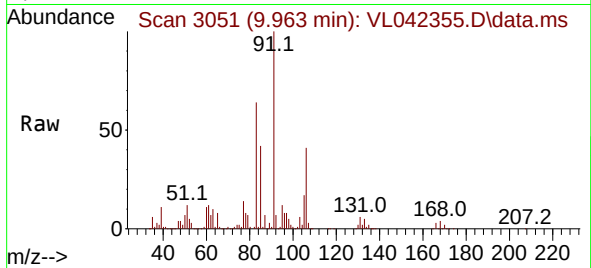




#63
1,1,2,2-Tetrachloroethane
Concen: 12.816 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

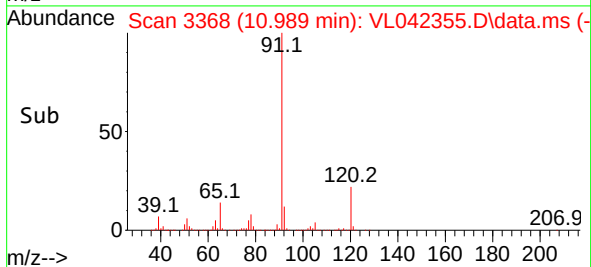
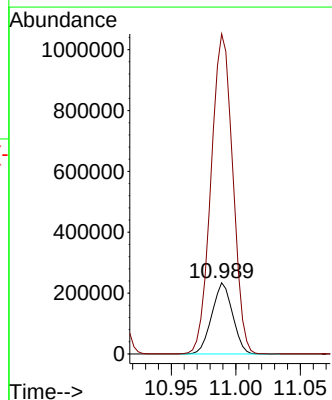
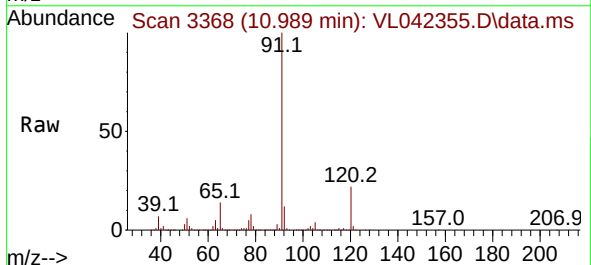
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

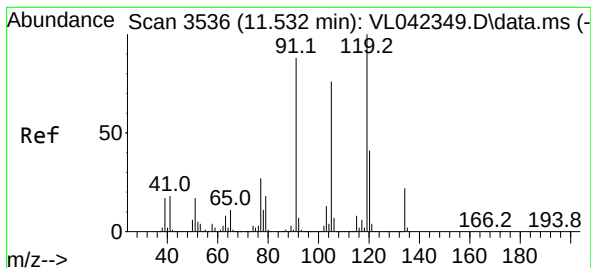
Tgt Ion: 83 Resp: 412898
Ion Ratio Lower Upper
83 100
131 9.5 4.5 13.7
85 64.5 32.4 97.0



#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

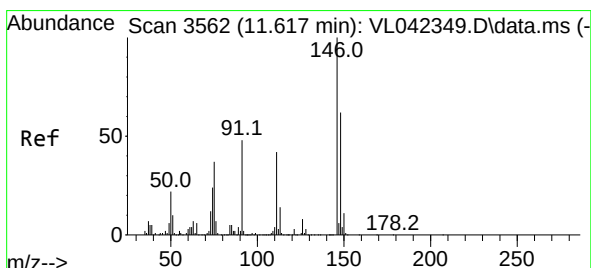
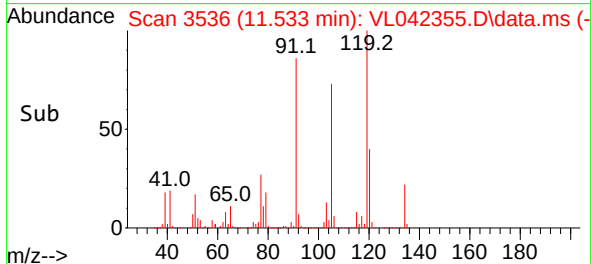
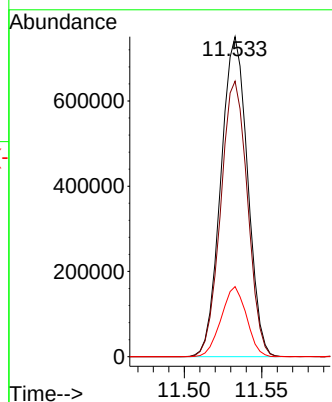
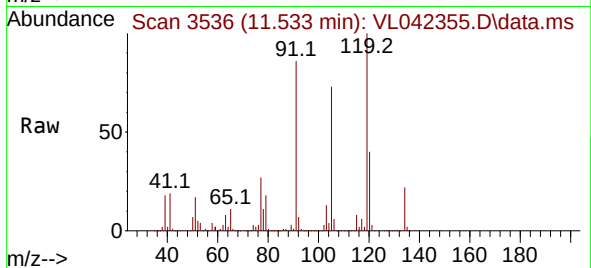




#65
tert-Butylbenzene
Concen: 13.449 ppbv
RT: 11.533 min Scan# 3536
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

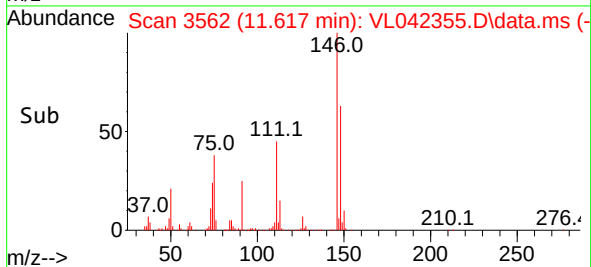
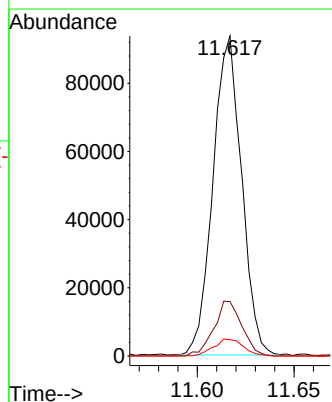
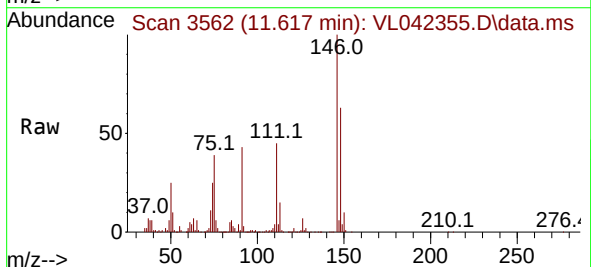
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

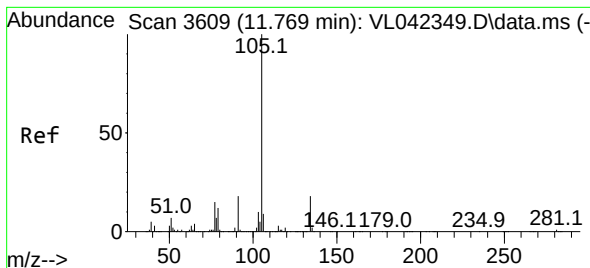
Tgt Ion:119 Resp: 899720
Ion Ratio Lower Upper
119 100
91 86.2 74.6 111.8
134 20.8 18.8 28.2



#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

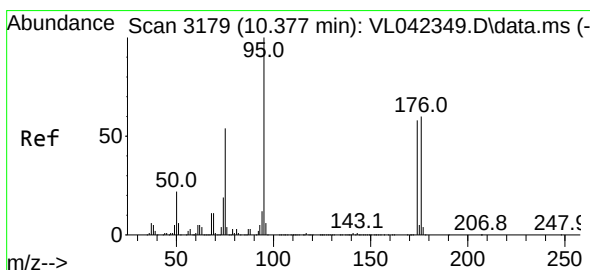
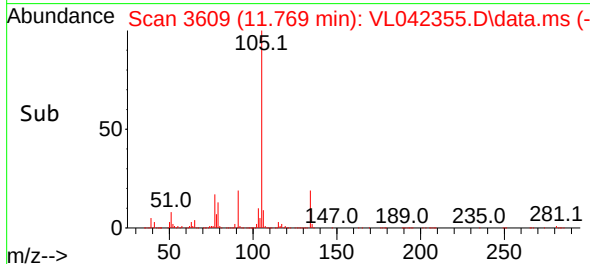
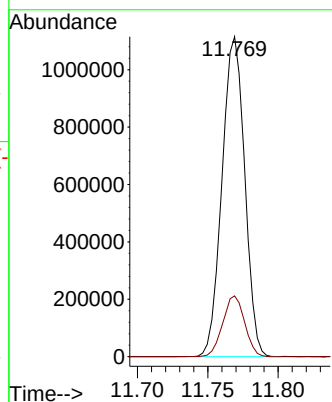
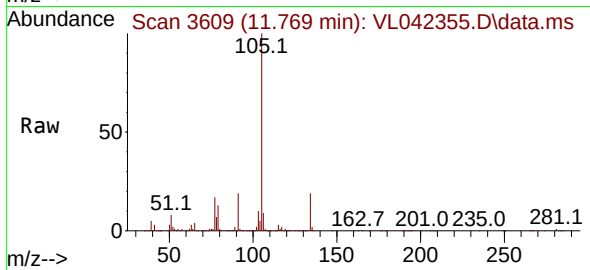




#67
sec-Butylbenzene
Concen: 13.468 ppbv
RT: 11.769 min Scan# 3609
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

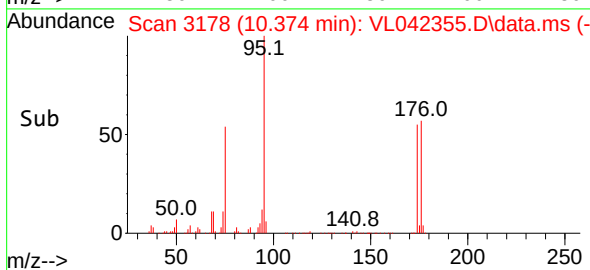
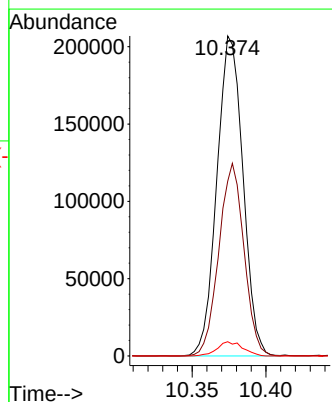
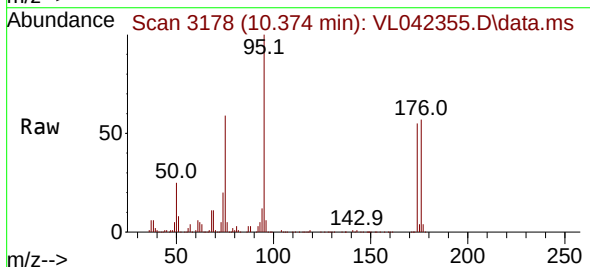
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

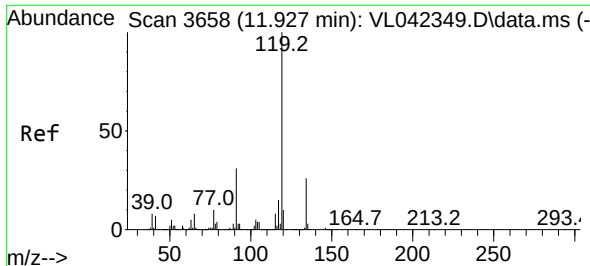
Tgt Ion:105 Resp: 1253263
Ion Ratio Lower Upper
105 100
134 18.4 14.6 21.8



#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

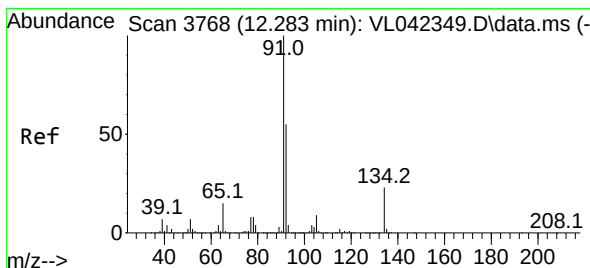
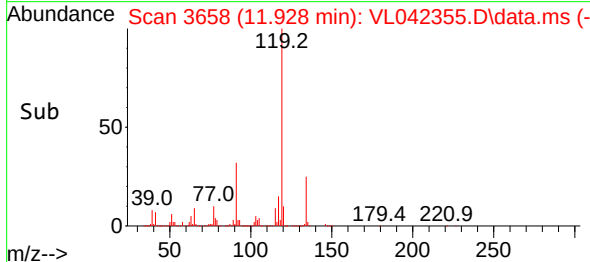
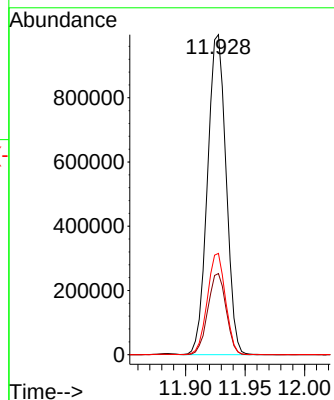
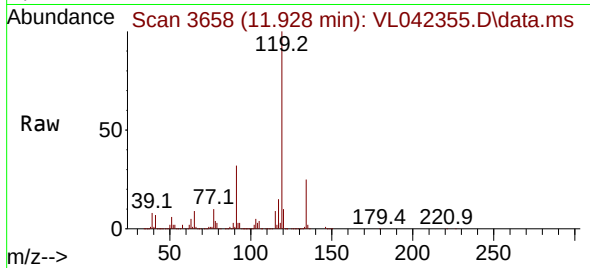




#69
 p-Isopropyltoluene
 Concen: 13.382 ppbv
 RT: 11.928 min Scan# 30
 Delta R.T. 0.000 min
 Lab File: VL042355.D
 Acq: 17 Apr 2025 12:54

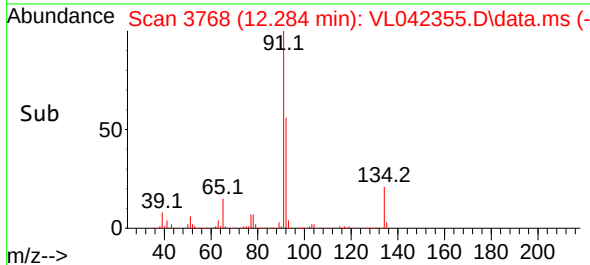
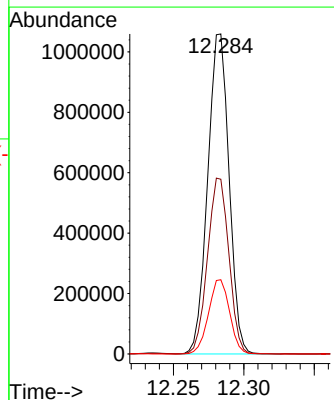
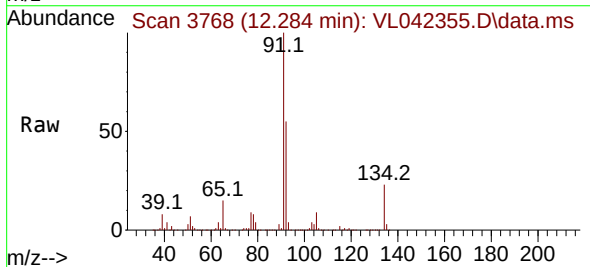
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC015

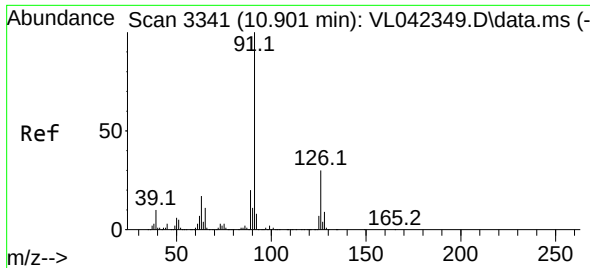
Tgt Ion:119 Resp: 1081850
 Ion Ratio Lower Upper
 119 100
 134 25.0 20.0 30.0
 91 31.1 24.4 36.6



#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

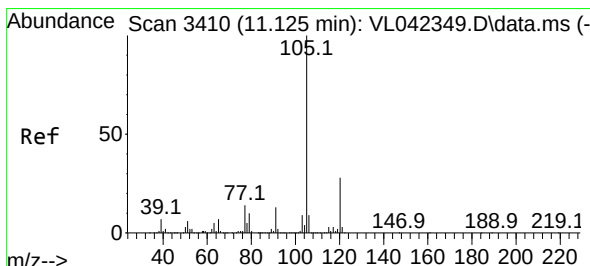
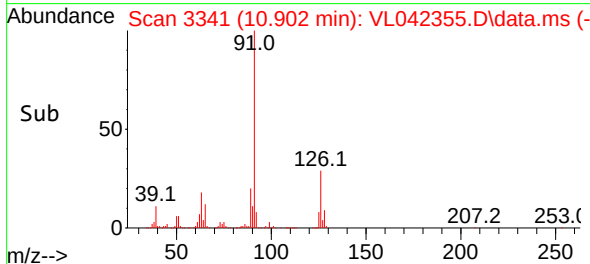
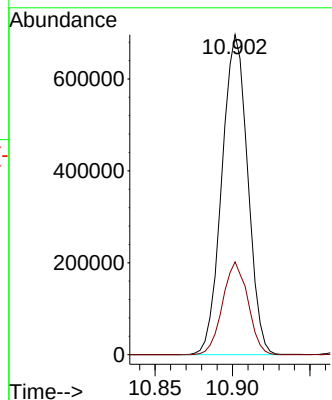
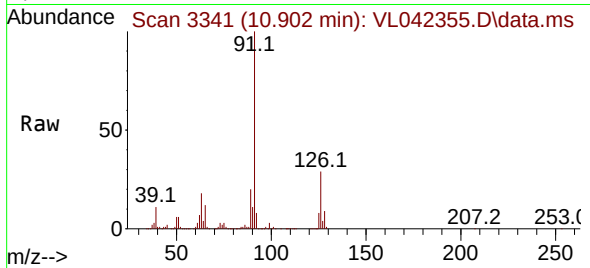




#71
2-Chlorotoluene
Concen: 14.131 ppbv
RT: 10.902 min Scan# 31
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

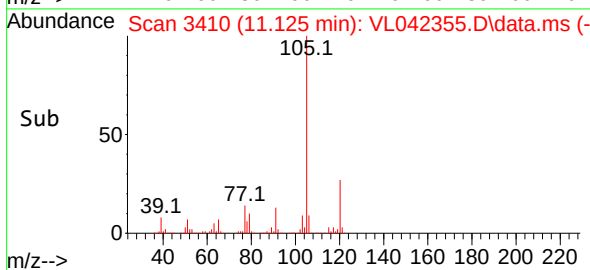
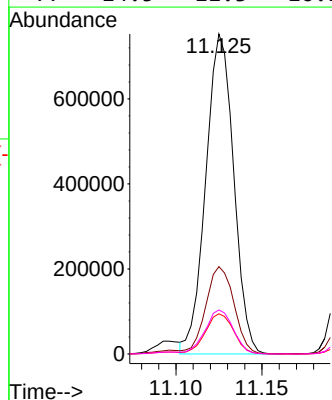
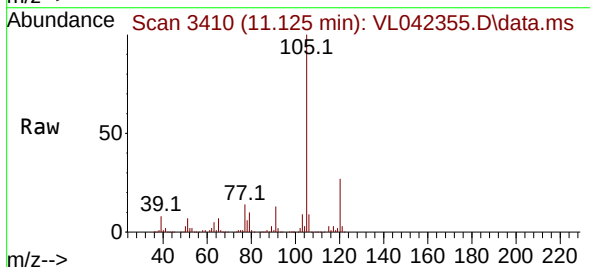
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

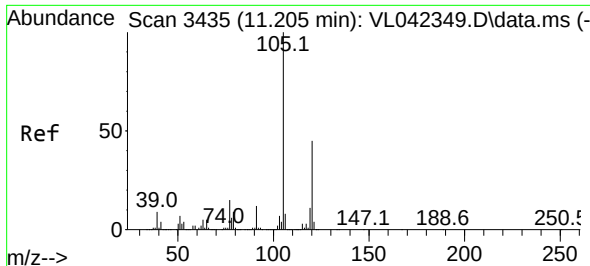
Tgt Ion: 91 Resp: 806728
Ion Ratio Lower Upper
91 100
126 28.4 11.4 45.4



#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

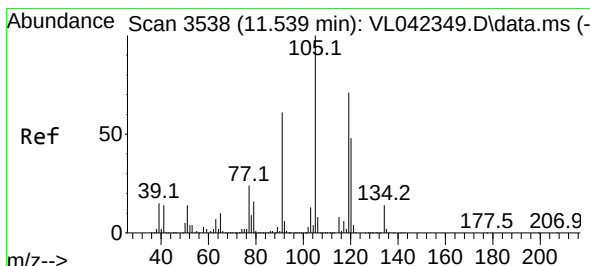
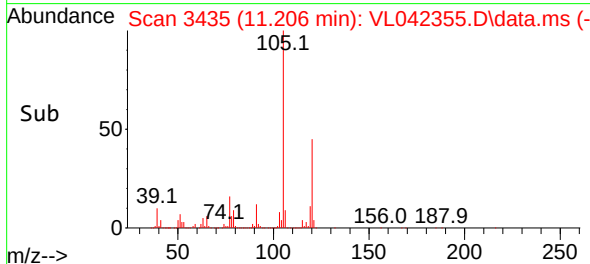
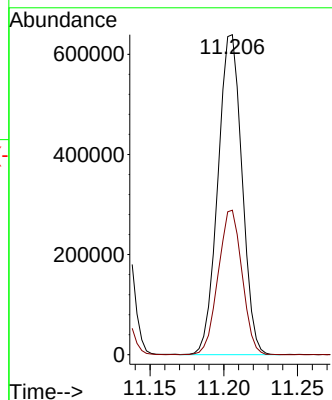
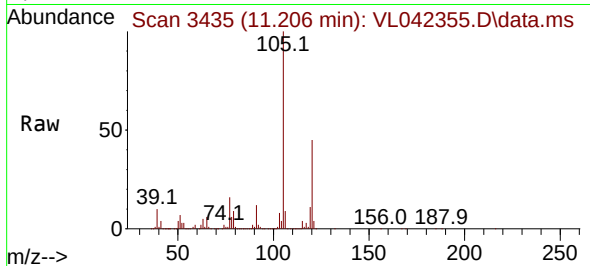




#73
1,3,5-Trimethylbenzene
Concen: 13.578 ppbv
RT: 11.206 min Scan# 3435
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

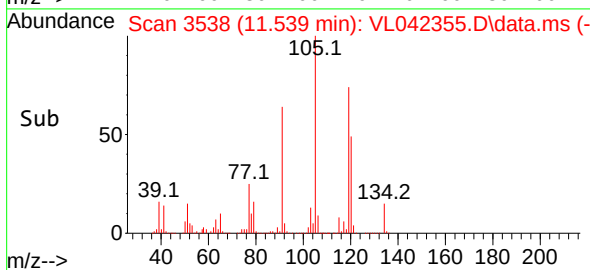
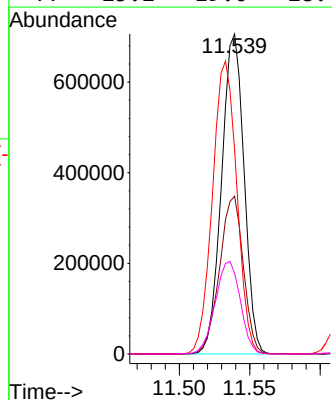
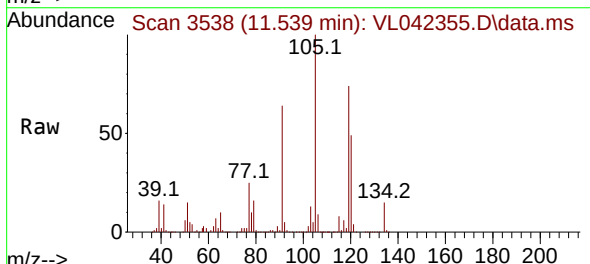
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

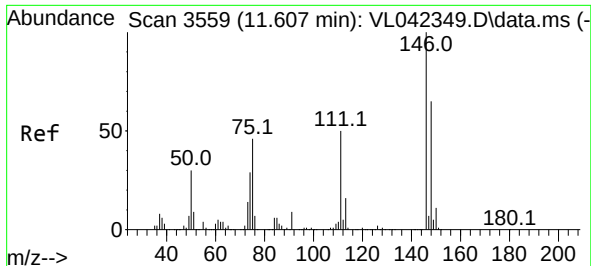
Tgt Ion:105 Resp: 726558
Ion Ratio Lower Upper
105 100
120 45.1 35.6 53.4



#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

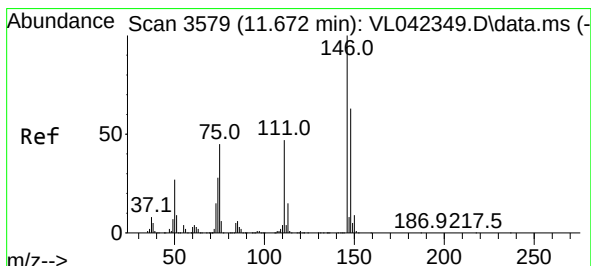
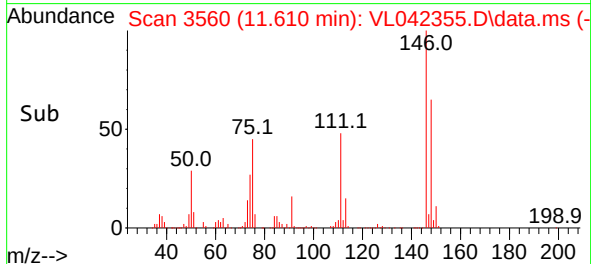
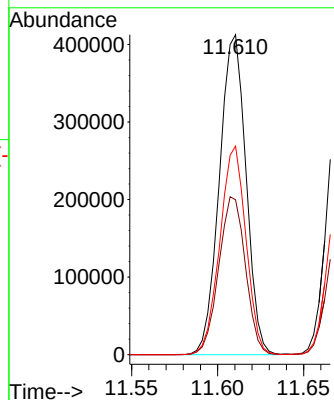
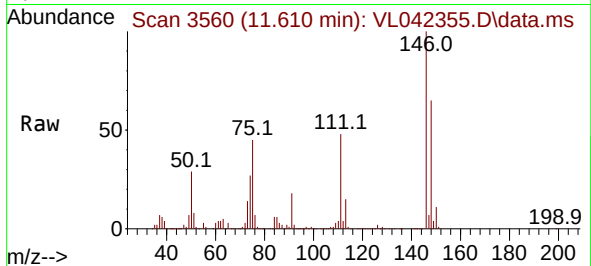




#75
1,3-Dichlorobenzene
Concen: 13.670 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. 0.004 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

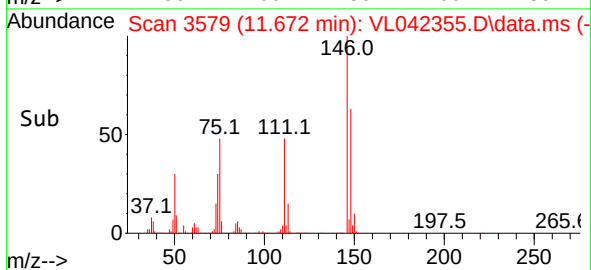
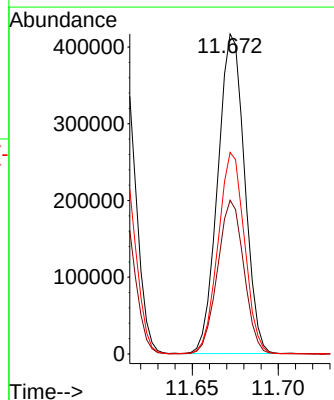
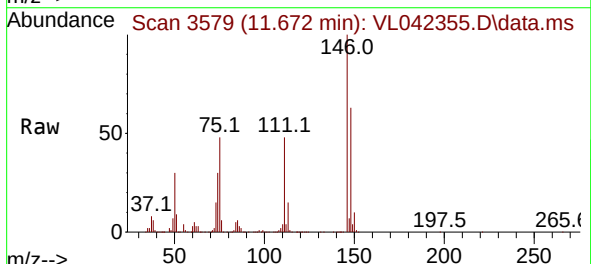
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

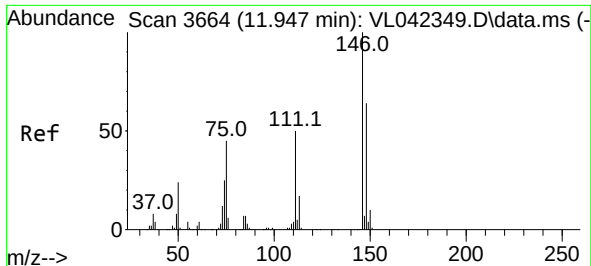
Tgt Ion:146 Resp: 444086
Ion Ratio Lower Upper
146 100
111 49.6 24.3 72.8
148 63.9 31.6 94.8



#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

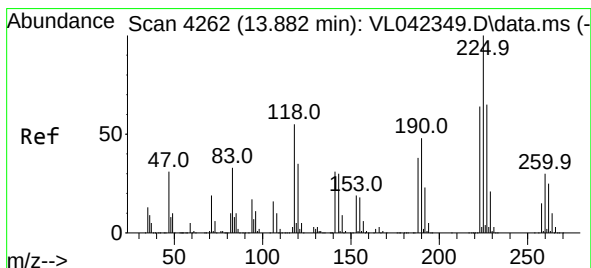
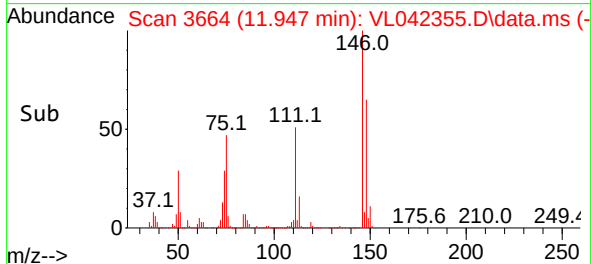
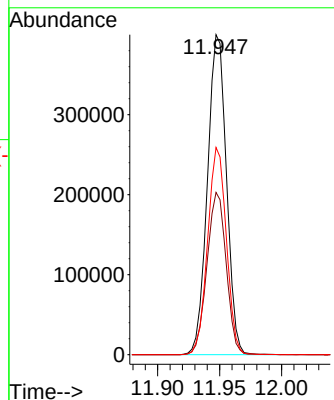
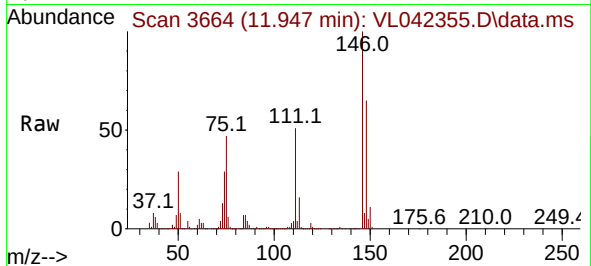




#77
1,2-Dichlorobenzene
Concen: 13.529 ppbv
RT: 11.947 min Scan# 3664
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

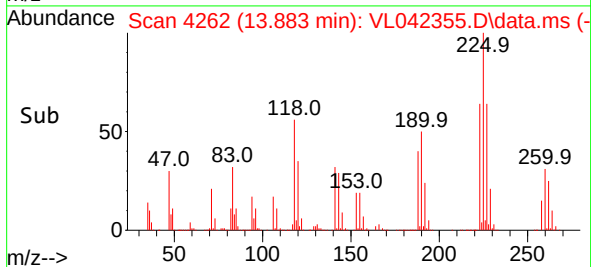
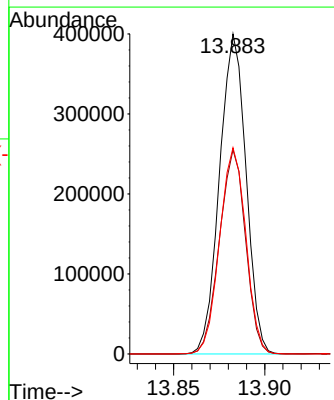
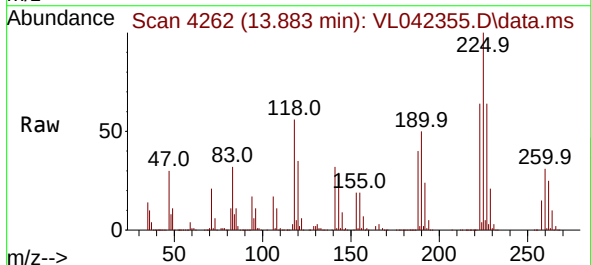
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MSVOA_1
ClientSampleId :
VSTDIC015

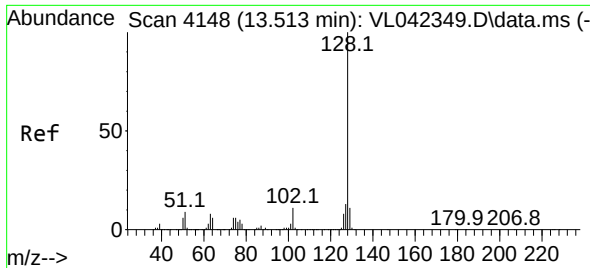
Tgt Ion:146 Resp: 427372
Ion Ratio Lower Upper
146 100
111 51.3 25.3 75.9
148 63.8 31.5 94.5



#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

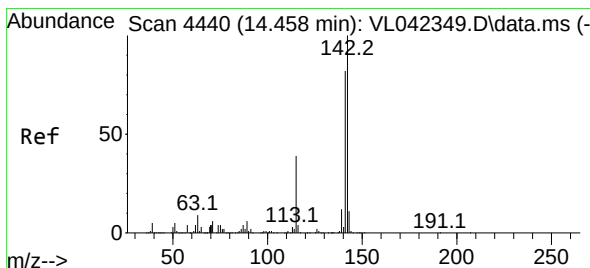
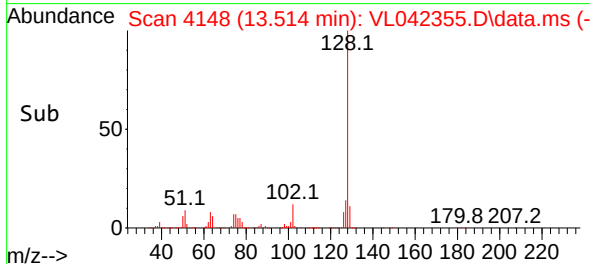
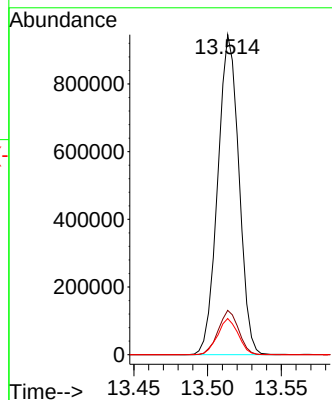
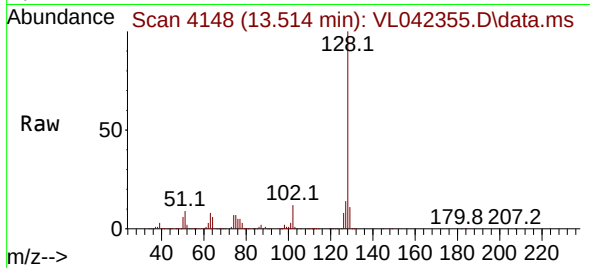




#79
Naphthalene
Concen: 12.632 ppbv
RT: 13.514 min Scan# 4148
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

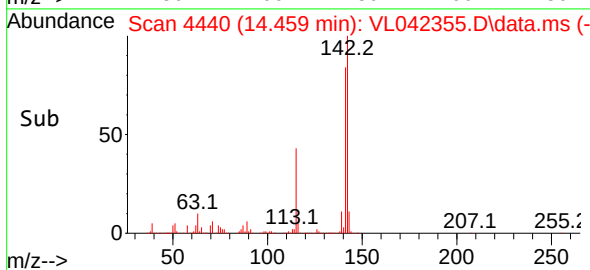
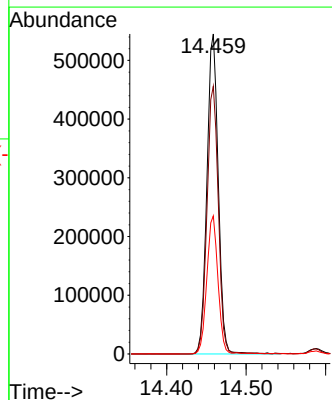
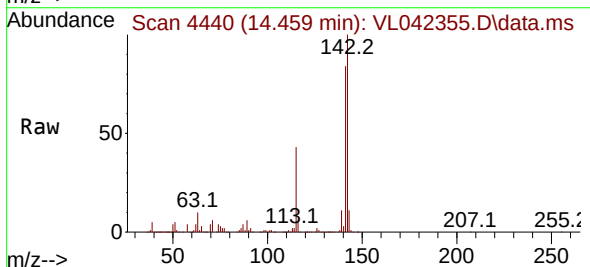
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ClientSampleId :
VSTDIC015

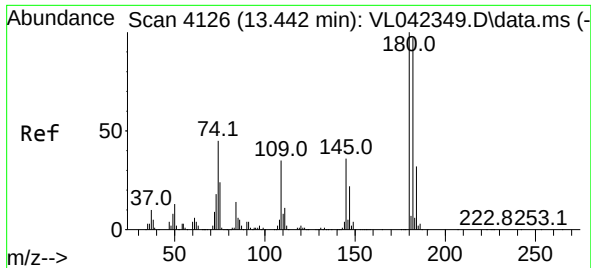
Tgt Ion:	128	Resp:	944085
Ion Ratio	Lower	Upper	
128	100		
127	13.9	10.6	15.8
129	11.3	8.6	12.8



#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

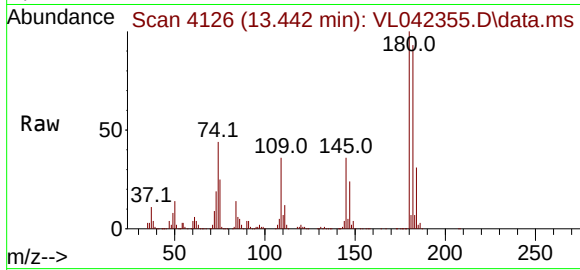
Acq: 17 Apr 2025 12:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015



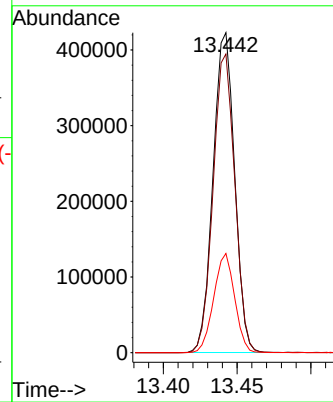
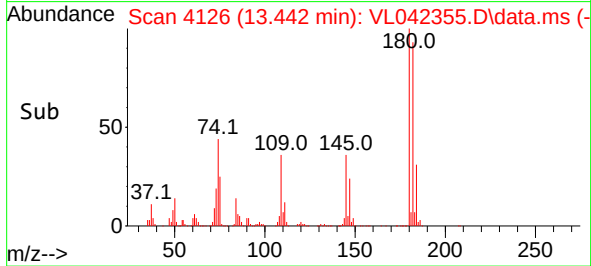
Tgt Ion:180 Resp: 429982

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

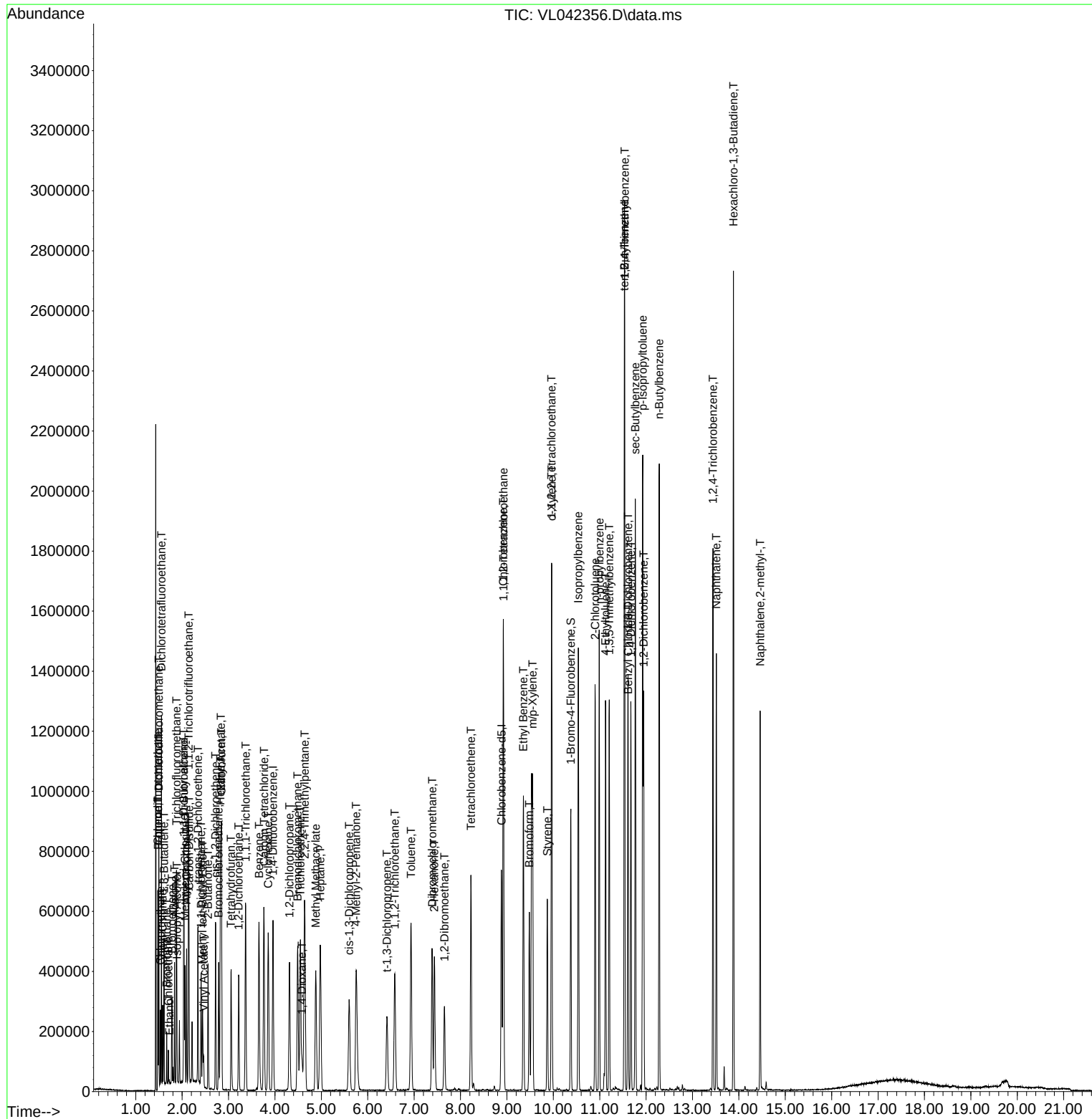
Quant Time: Apr 18 02:15:19 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 02:14:00 2025
 Response via : Initial Calibration

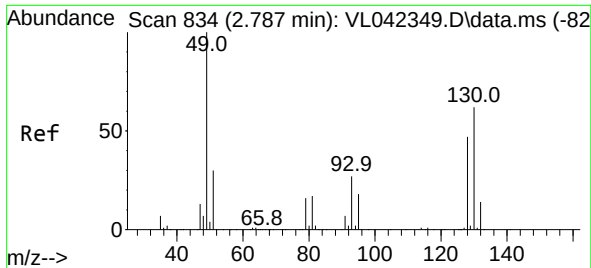
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.599	75	200144	10.148	ppbv	88
47) 1,1,2-Trichloroethane	6.583	97	135575	10.202	ppbv	95
48) Dibromochloromethane	7.389	129	237206	10.103	ppbv	100
49) Bromoform	9.483	173	205630	10.016	ppbv	99
50) 4-Methyl-2-Pentanone	5.748	43	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

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_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

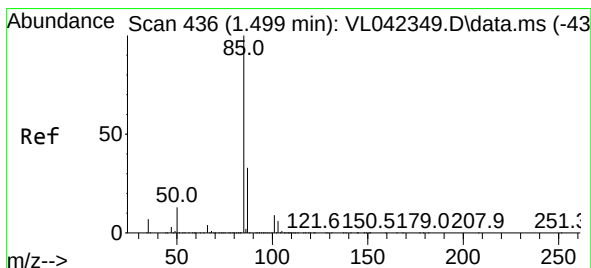
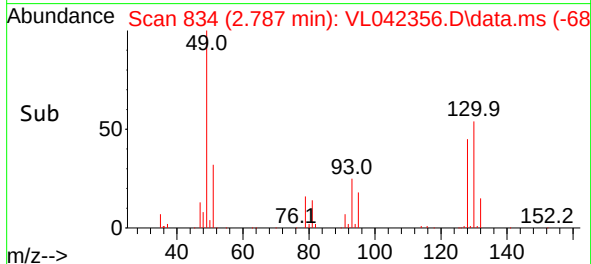
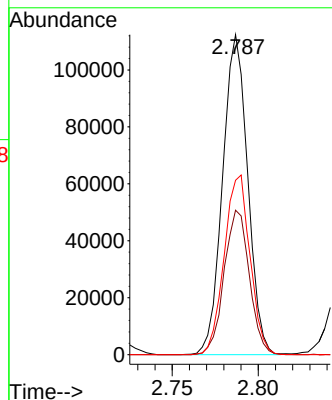
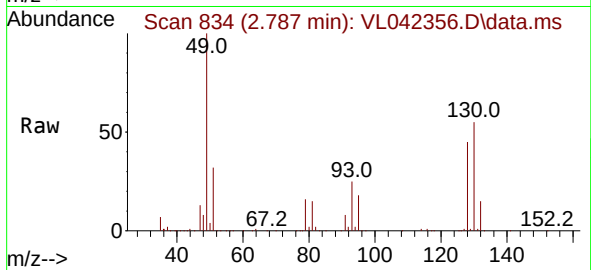




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 834
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

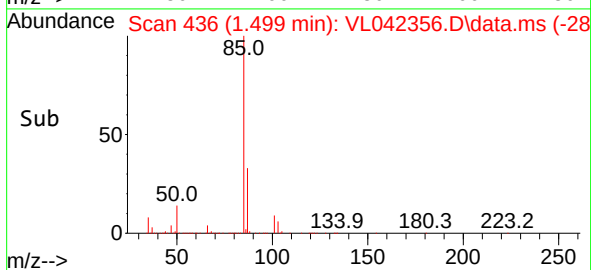
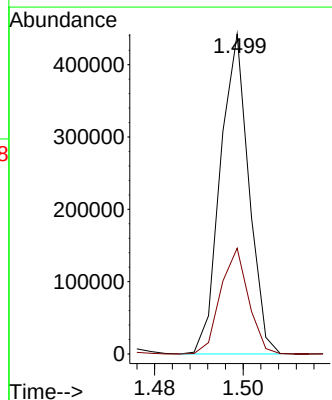
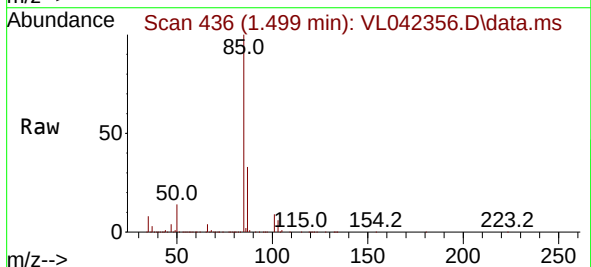
Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

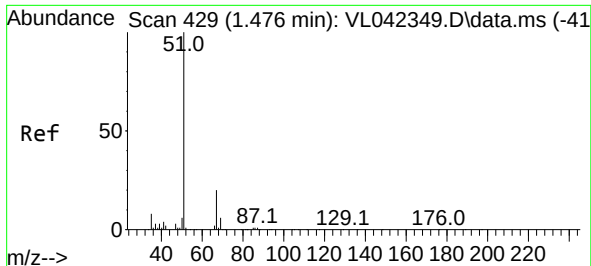
Tgt Ion: 49 Resp: 113992
Ion Ratio Lower Upper
49 100
128 45.5 22.8 68.4
130 57.8 29.3 88.0



#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

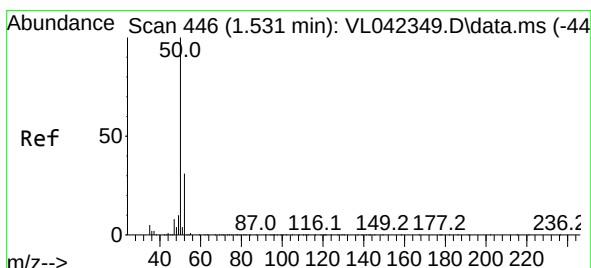
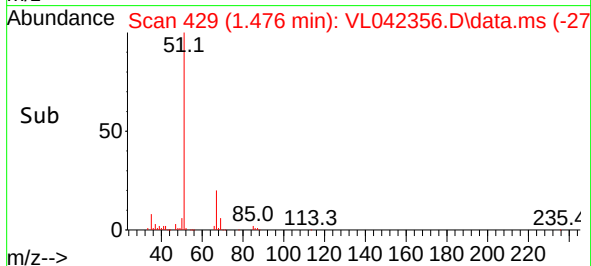
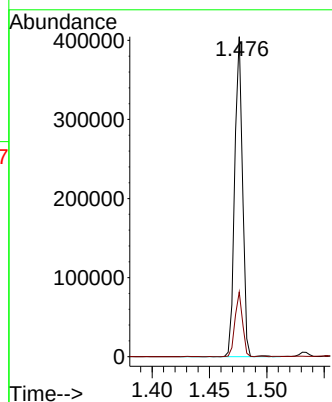
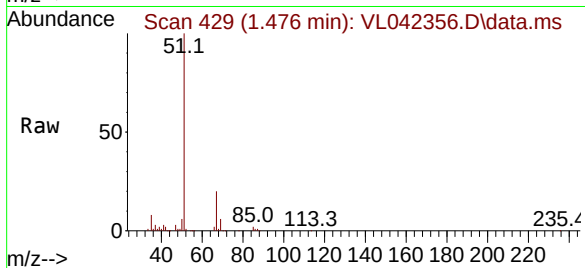




#3
Chlorodifluoromethane
Concen: 9.960 ppbv
RT: 1.476 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

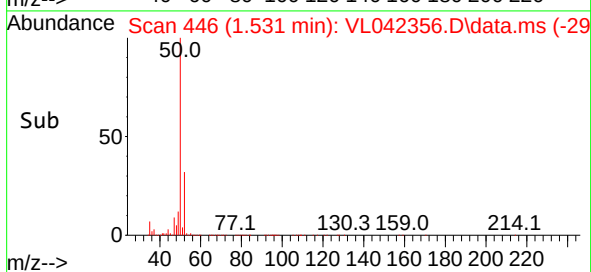
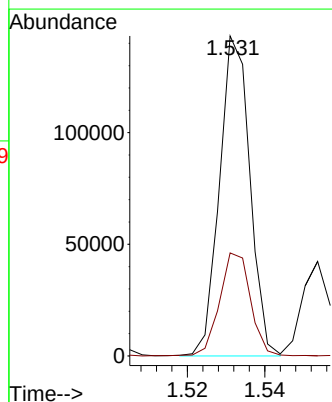
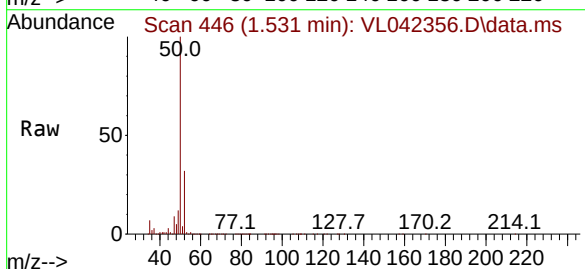
Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

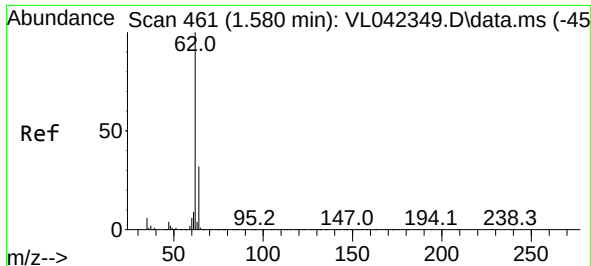
Tgt Ion: 51 Resp: 191010
Ion Ratio Lower Upper
51 100
67 19.6 16.2 24.4



#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

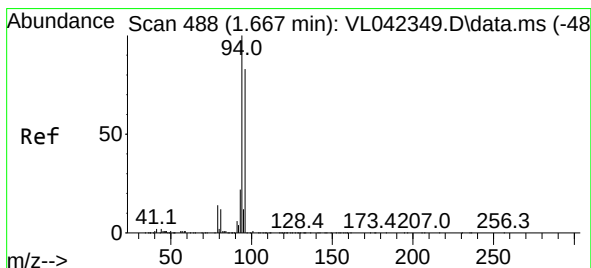
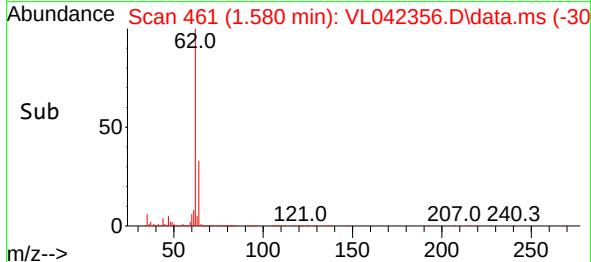
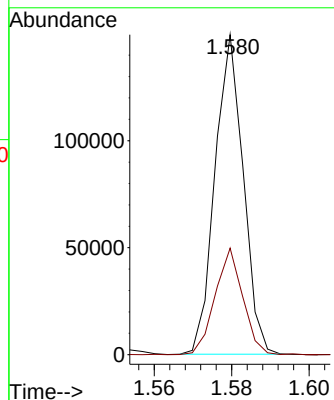
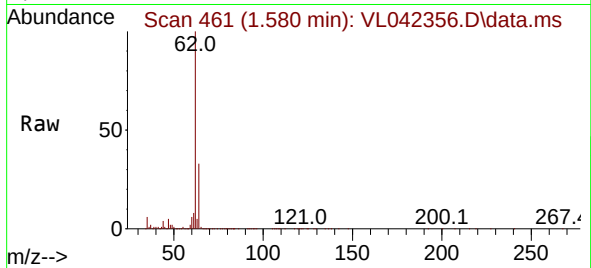




#5
 Vinyl Chloride
 Concen: 8.717 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. -0.000 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43

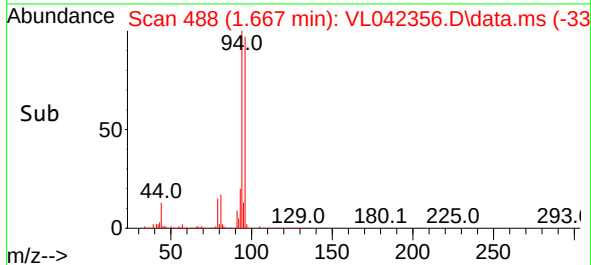
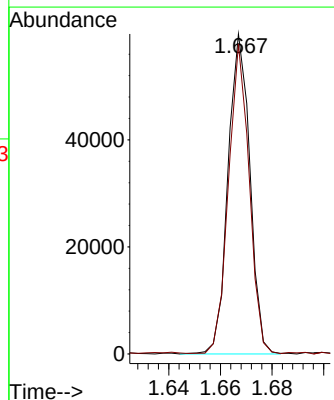
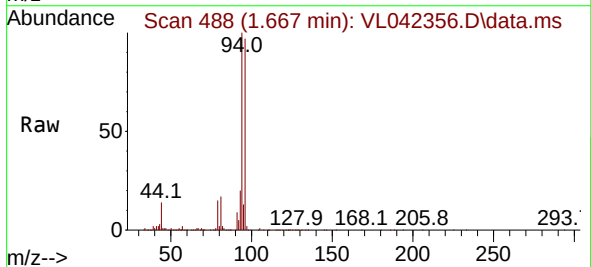
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL041725

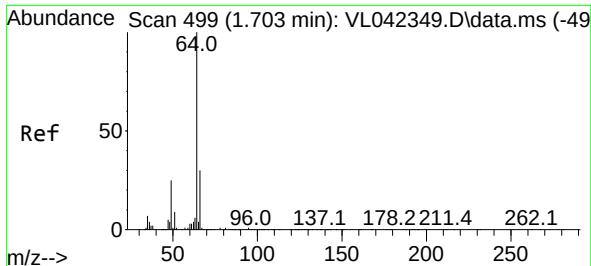
Tgt Ion: 62 Resp: 75628
 Ion Ratio Lower Upper
 62 100
 64 33.3 25.4 38.0



#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

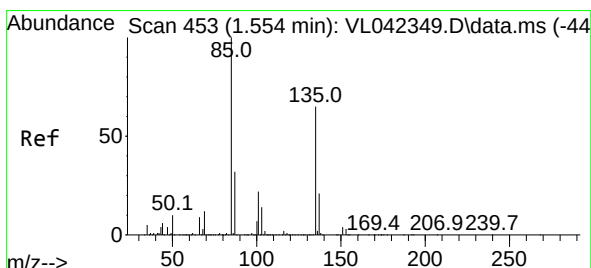
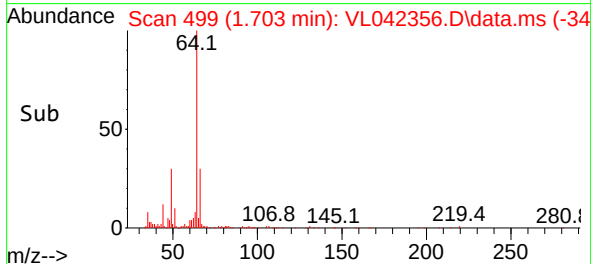
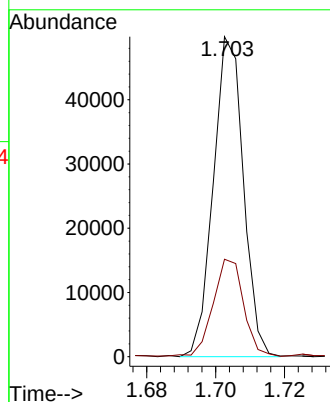
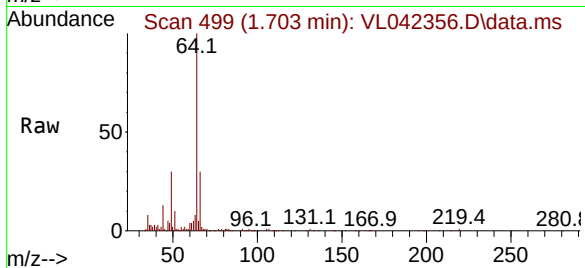




#7
Chloroethane
Concen: 9.612 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

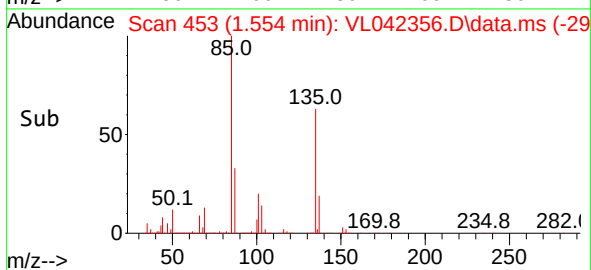
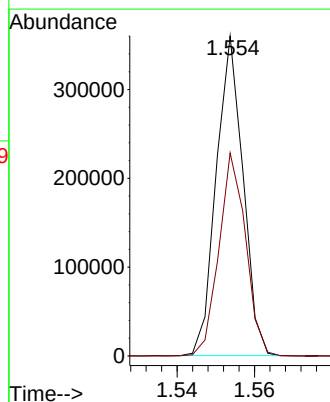
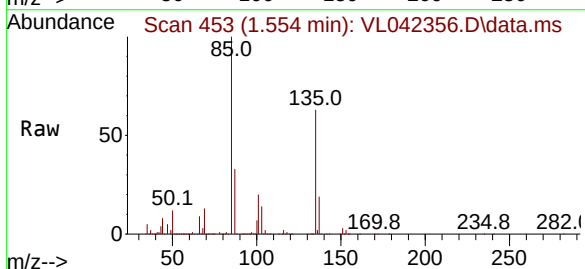
Instrument :
MSVOA_1
ClientSampleId :
ICVVL041725

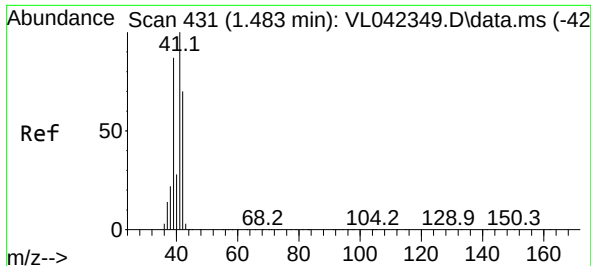
Tgt Ion: 64 Resp: 30158
Ion Ratio Lower Upper
64 100
66 30.4 24.6 37.0



#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 :

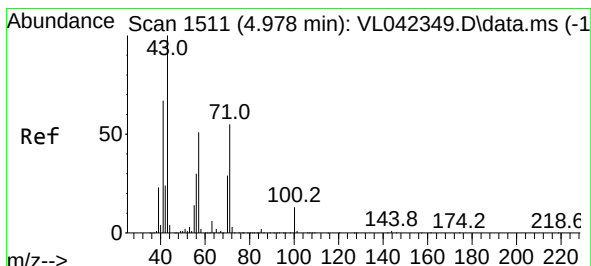
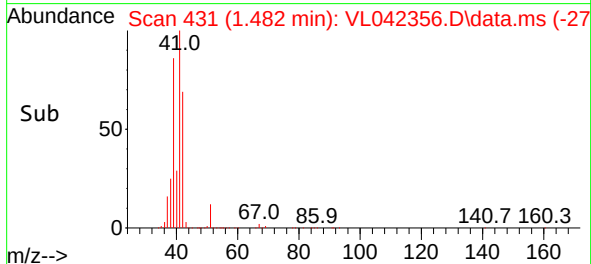
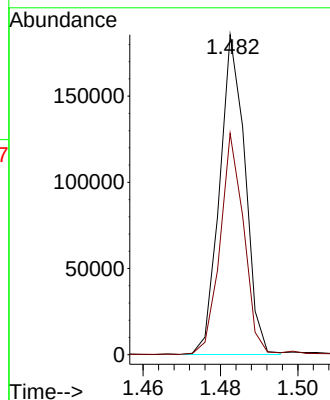
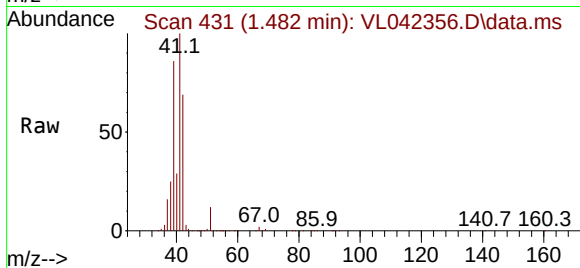
ICVVL041725

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

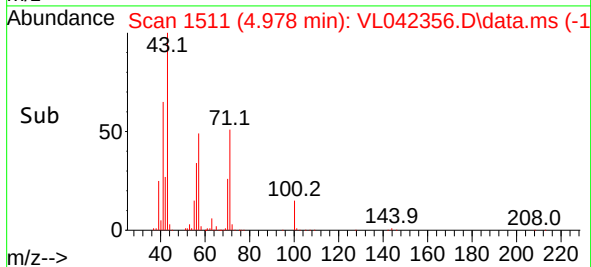
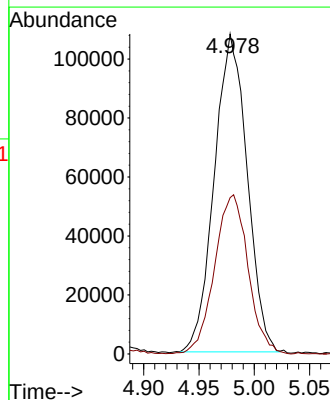
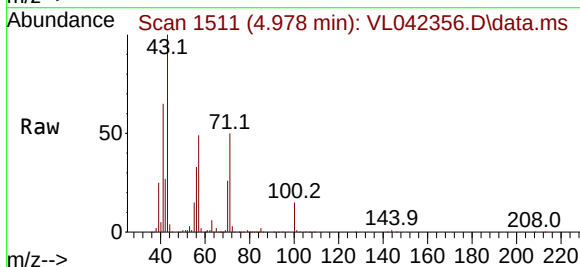
Acq: 17 Apr 2025 13:43

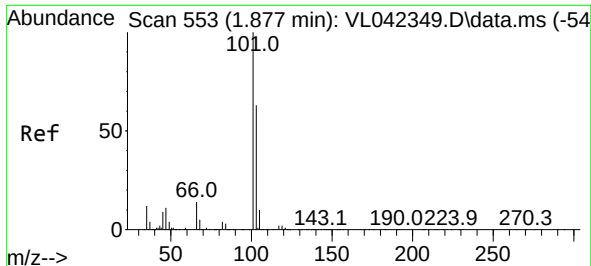
Tgt Ion: 43 Resp: 221840

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 :

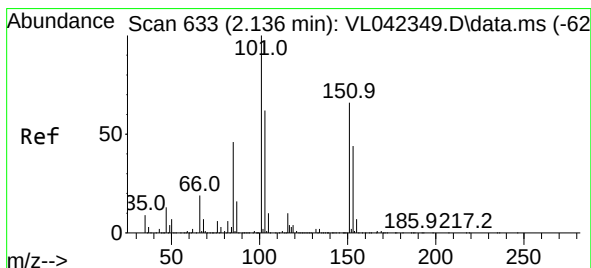
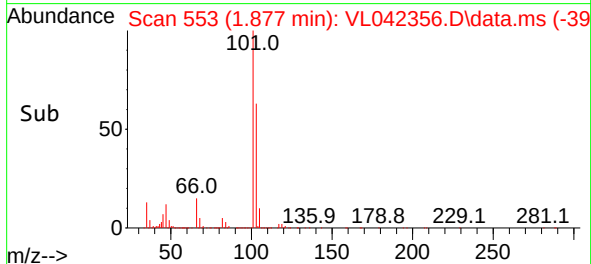
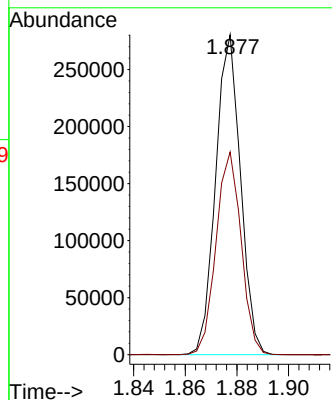
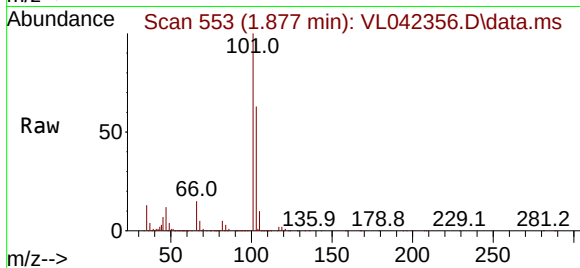
ICVVL041725

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

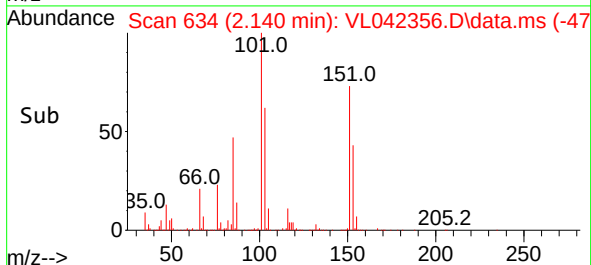
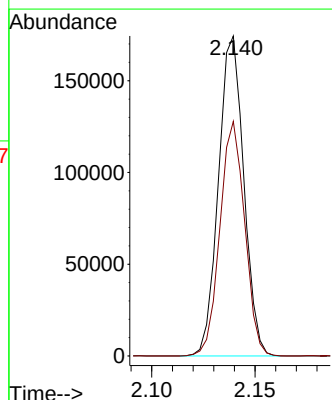
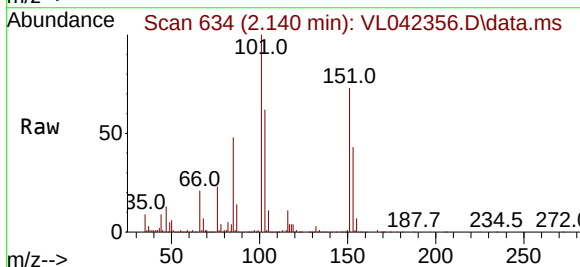
Acq: 17 Apr 2025 13:43

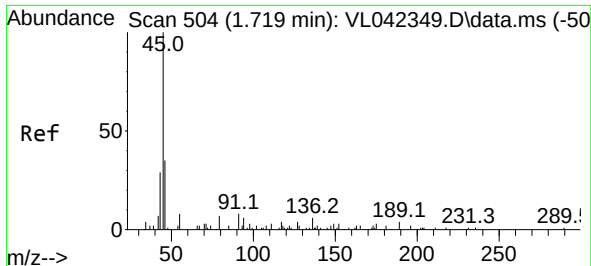
Tgt Ion:101 Resp: 148485

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 :

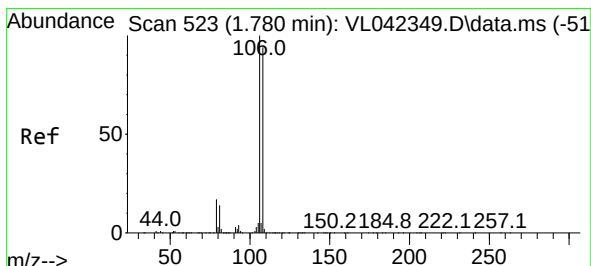
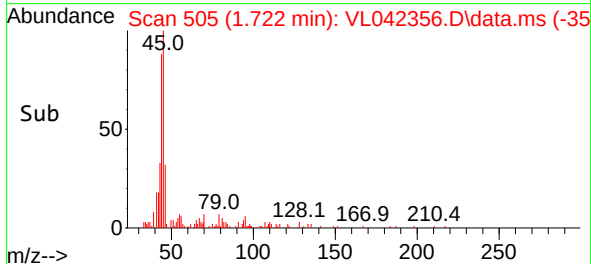
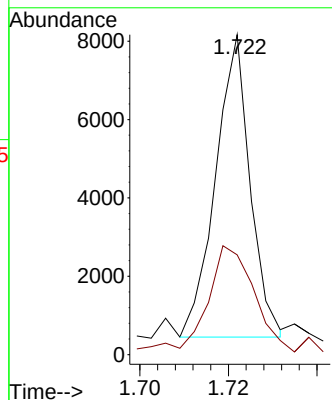
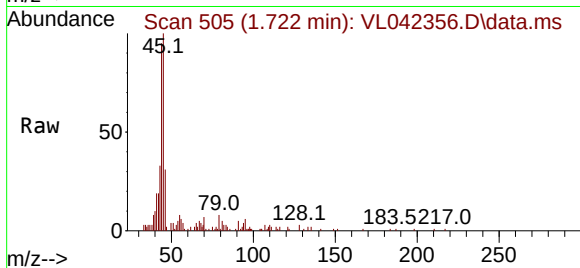
ICVVL041725

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

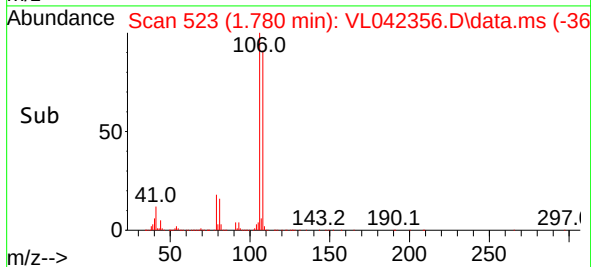
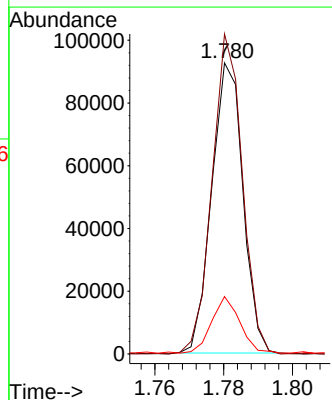
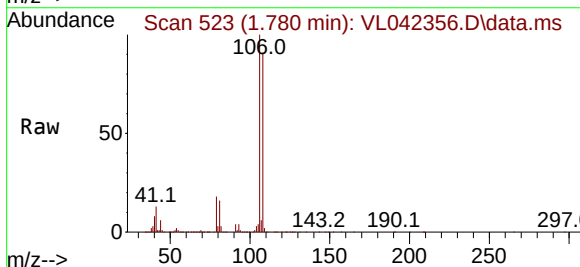
Tgt Ion: 108 Resp: 58320

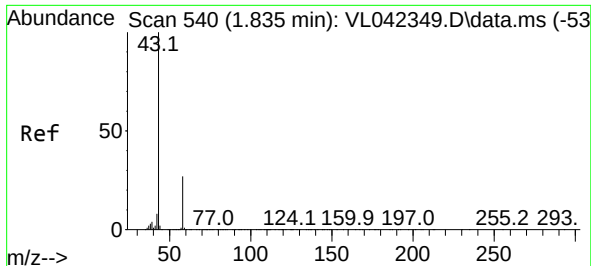
Ion Ratio Lower Upper

108 100

106 107.1 85.9 128.9

79 18.4 13.9 20.9

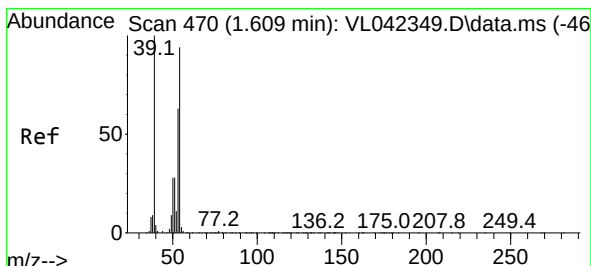
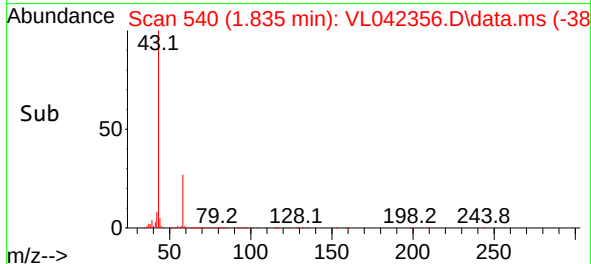
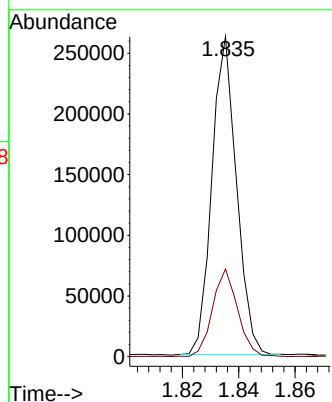
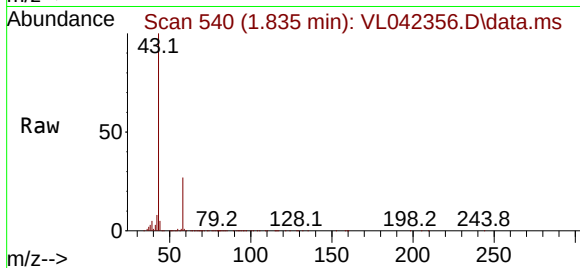




#15
Acetone
Concen: 8.505 ppbv
RT: 1.835 min Scan# 540
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

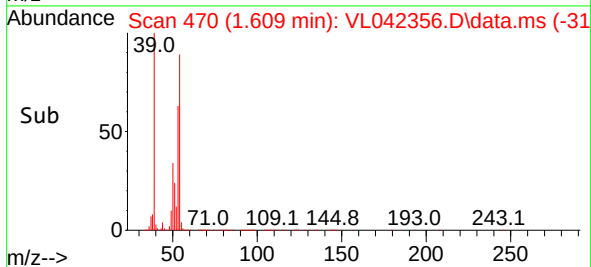
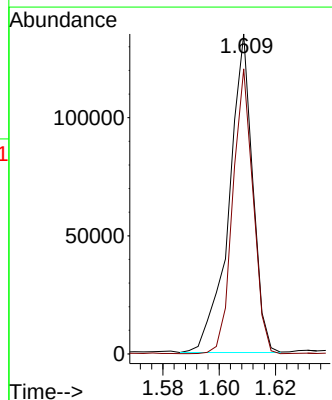
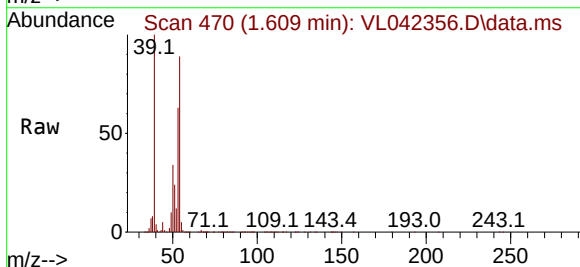
Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

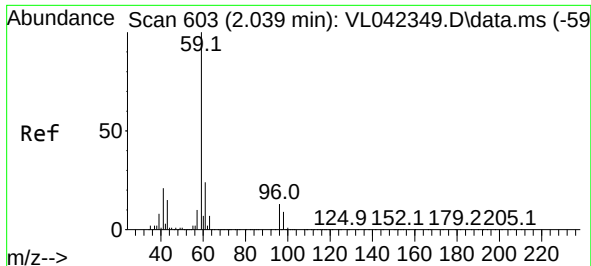
Tgt Ion: 43 Resp: 158708
Ion Ratio Lower Upper
43 100
58 28.0 22.4 33.6



#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 :

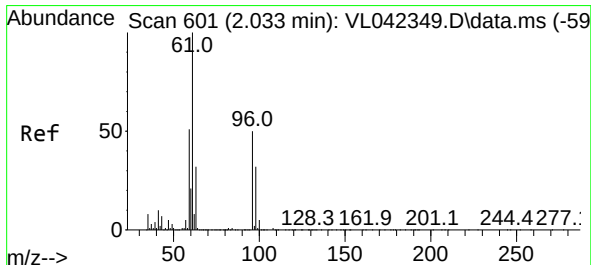
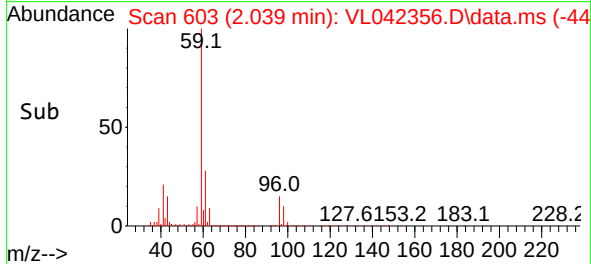
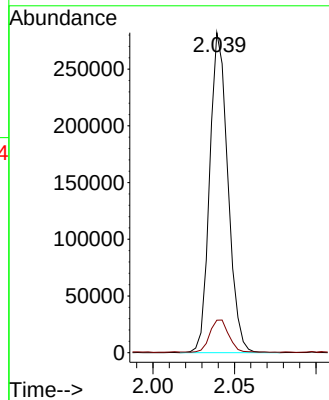
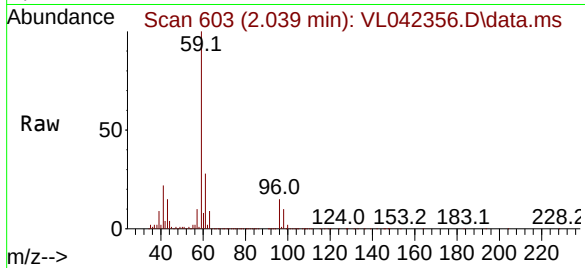
ICVVL041725

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

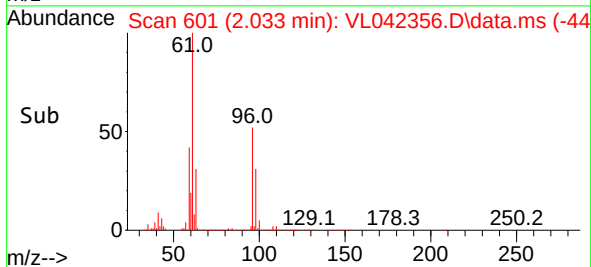
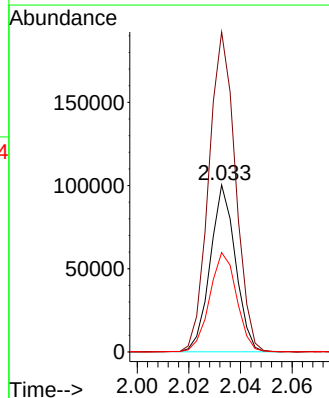
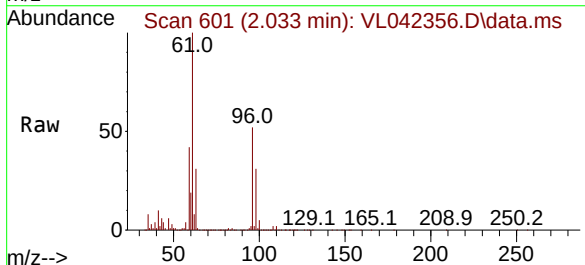
Tgt Ion: 96 Resp: 67940

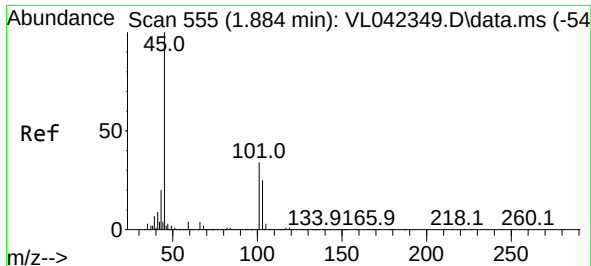
Ion Ratio Lower Upper

96 100

61 191.6 160.2 240.2

98 59.4 51.0 76.4

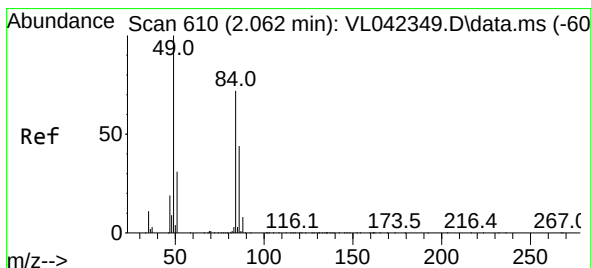
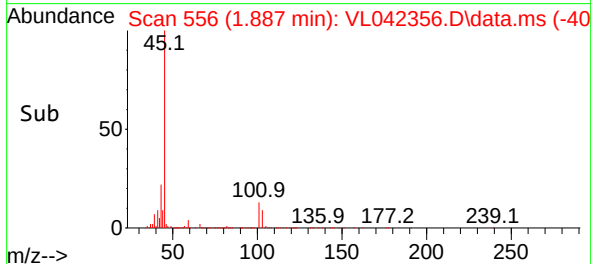
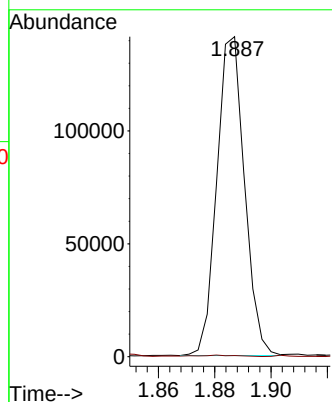
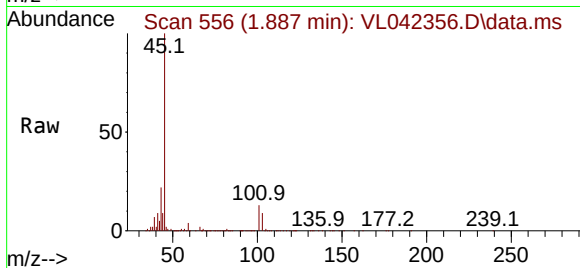




#19
Isopropyl Alcohol
Concen: 9.296 ppbv
RT: 1.887 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

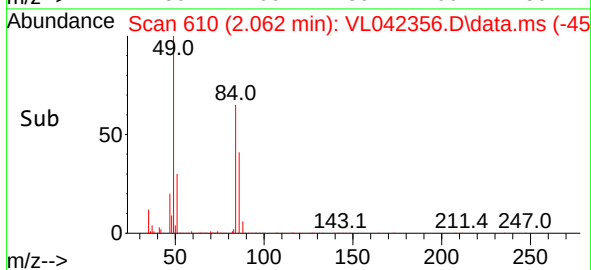
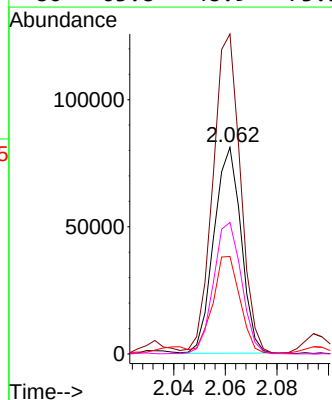
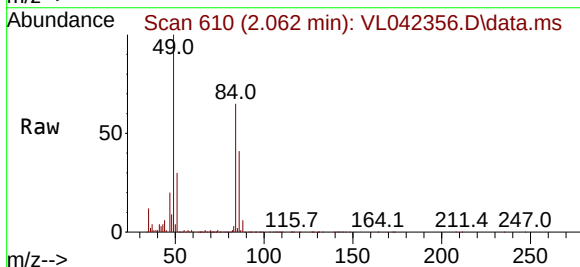
Instrument :
MSVOA_1
ClientSampleId :
ICVVL041725

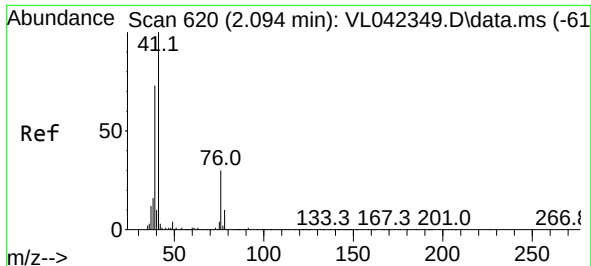
Tgt Ion: 45 Resp: 96365
Ion Ratio Lower Upper
45 100
58 46.1 34.5 51.7



#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

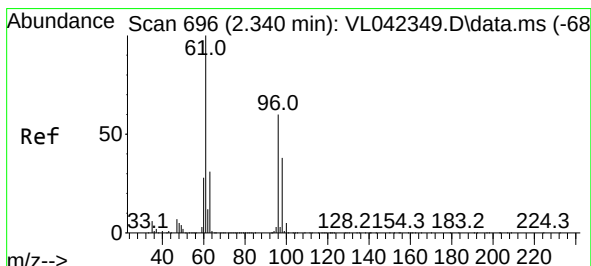
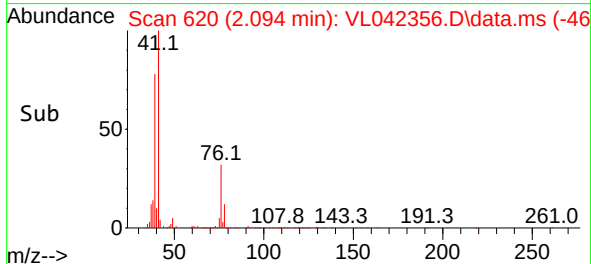
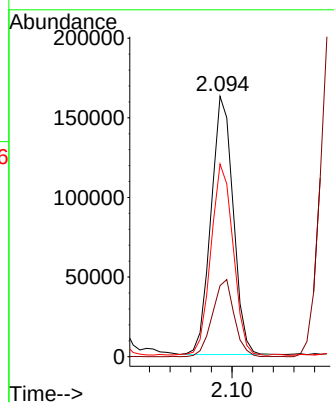
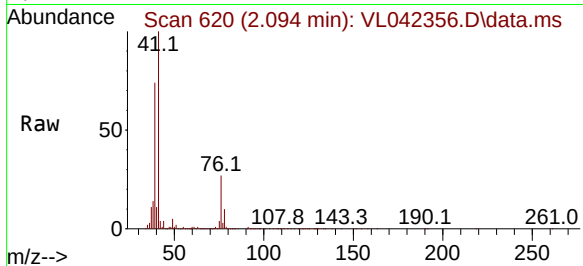




#21
 Allyl Chloride
 Concen: 9.368 ppbv
 RT: 2.094 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43

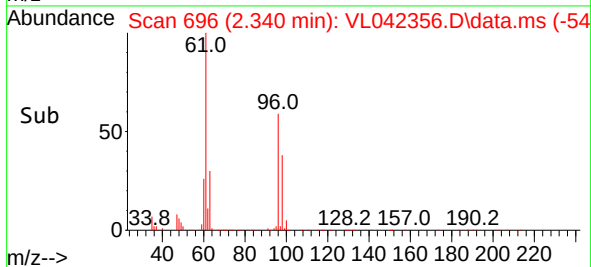
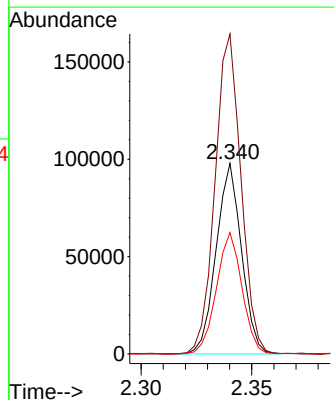
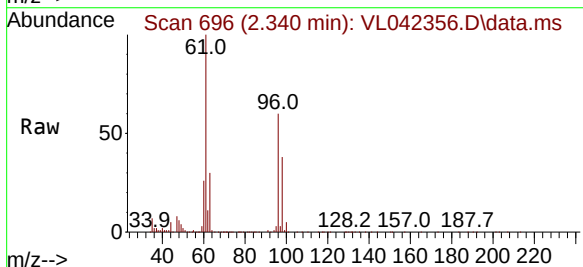
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL041725

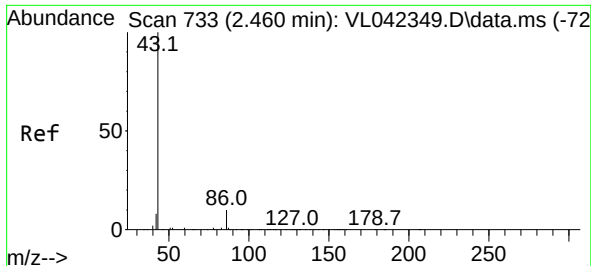
Tgt Ion: 41 Resp: 120704
 Ion Ratio Lower Upper
 41 100
 76 29.5 24.8 37.2
 39 74.5 60.6 90.8



#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

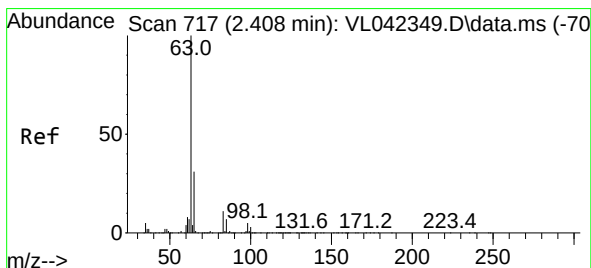
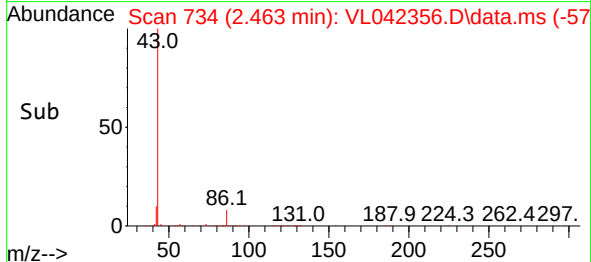
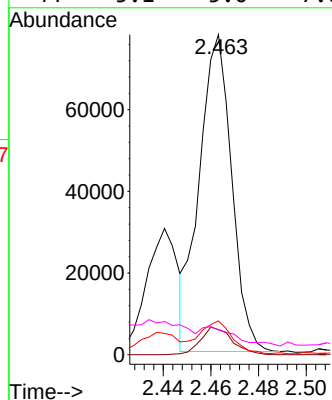
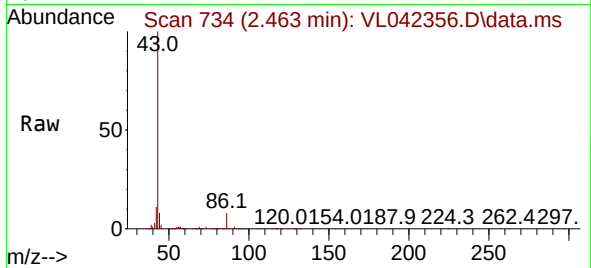




#23
 Vinyl Acetate
 Concen: 9.714 ppbv
 RT: 2.463 min Scan# 714
 Delta R.T. 0.003 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43

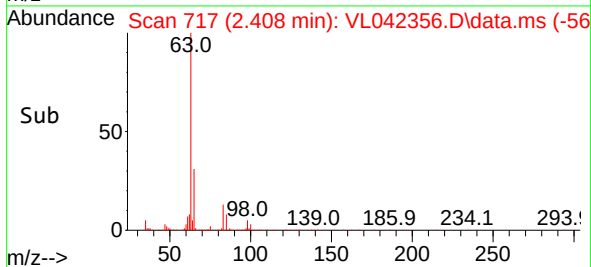
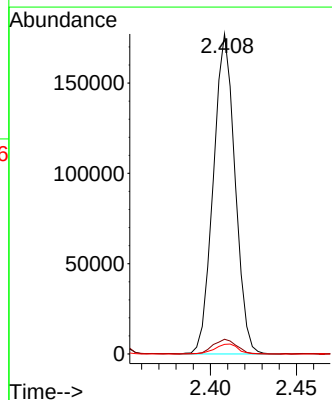
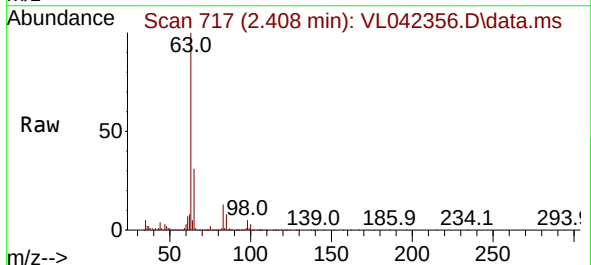
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL041725

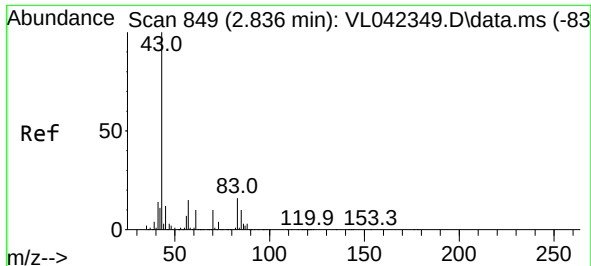
Tgt	Ion: 43	Resp:	73373
Ion	Ratio	Lower	Upper
43	100		
86	8.0	6.5	9.7
42	10.0	7.8	11.8
44	5.1	5.0	7.6



#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

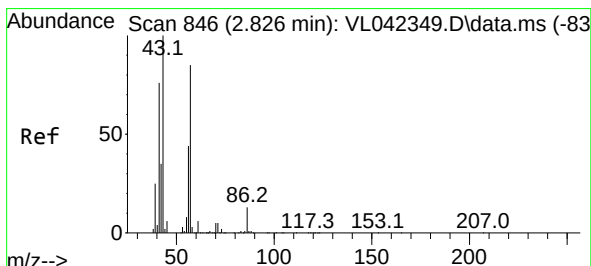
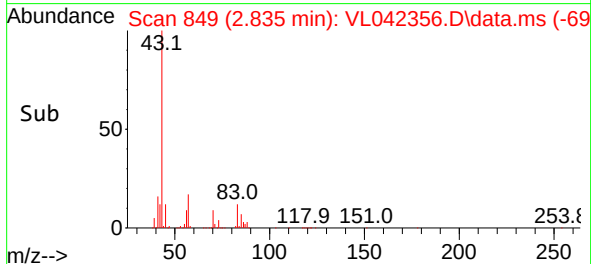
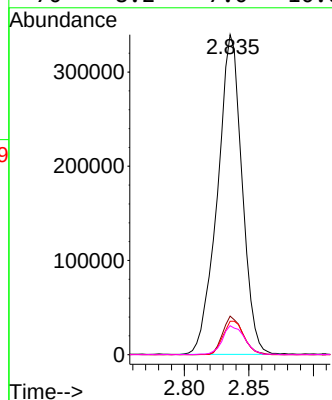
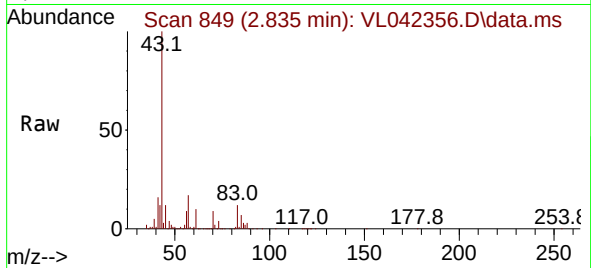




#25
Ethyl Acetate
Concen: 9.759 ppbv
RT: 2.835 min Scan# 849
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

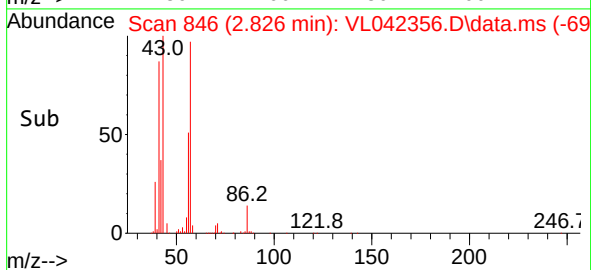
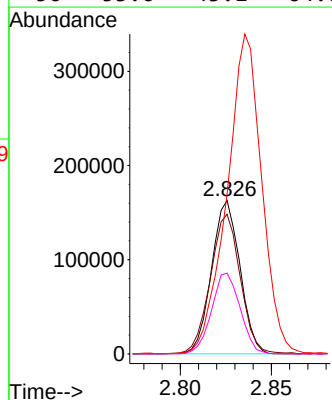
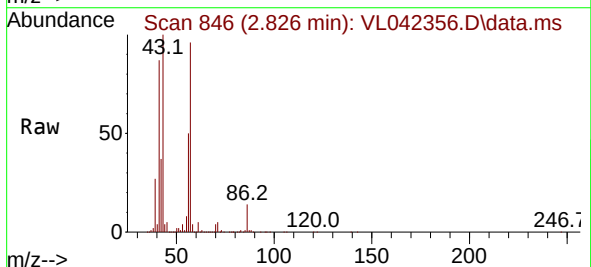
Instrument : MSVOA_1
ClientSampleId : ICVVL041725

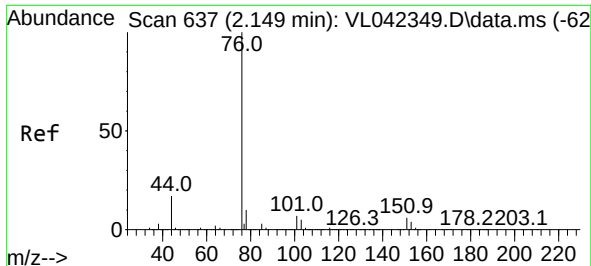
Tgt Ion:	43	Resp:	449014
Ion	Ratio	Lower	Upper
43	100		
45	9.9	8.3	12.5
61	9.0	7.3	10.9
70	8.2	7.0	10.6



#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

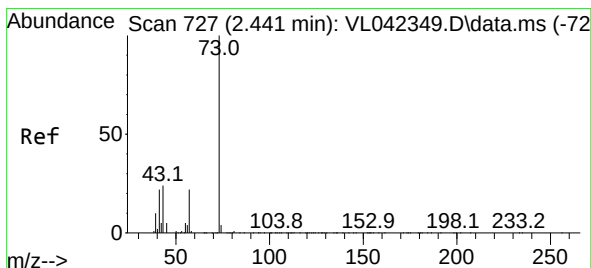
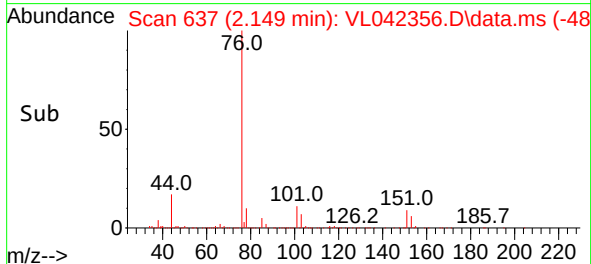
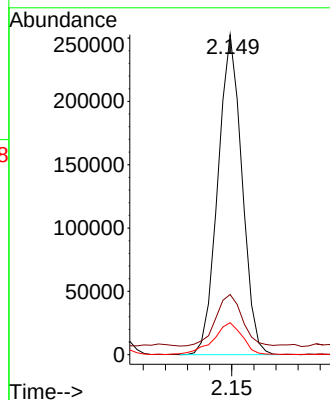
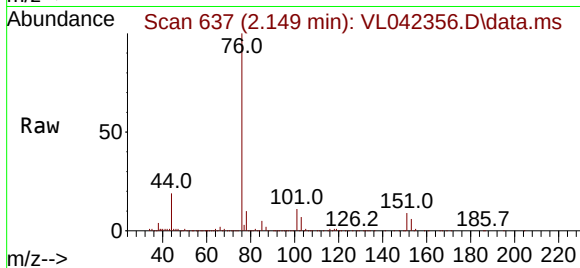




#27
Carbon Disulfide
Concen: 9.587 ppbv
RT: 2.149 min Scan# 611
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

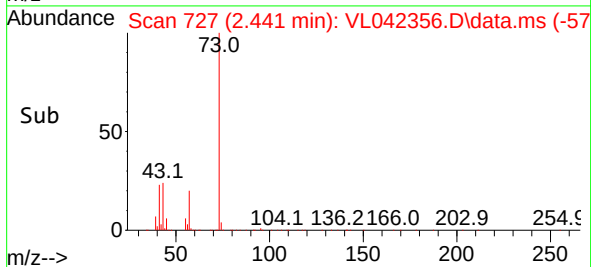
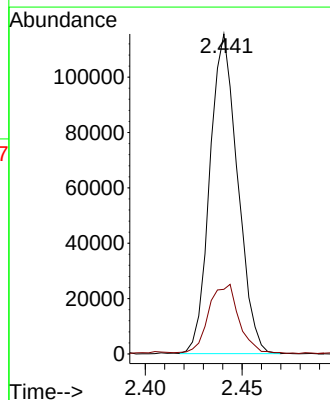
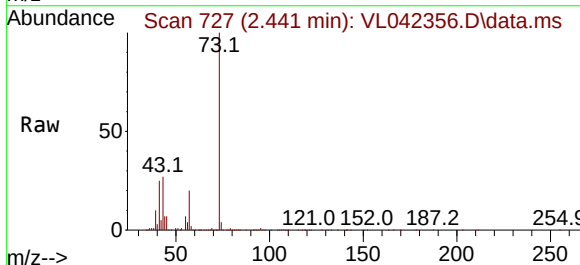
Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

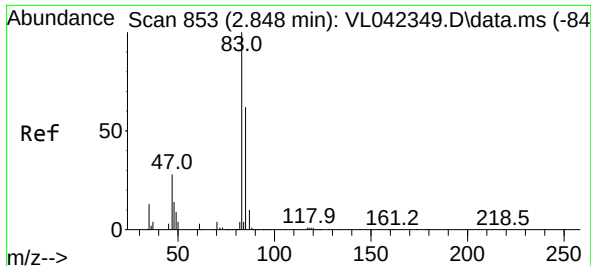
Tgt Ion: 76 Resp: 191117
Ion Ratio Lower Upper
76 100
44 19.3 15.5 23.3
78 11.9 9.3 13.9



#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 :

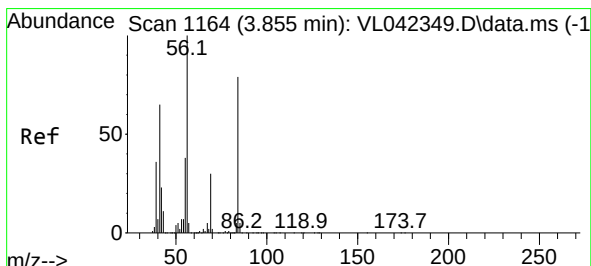
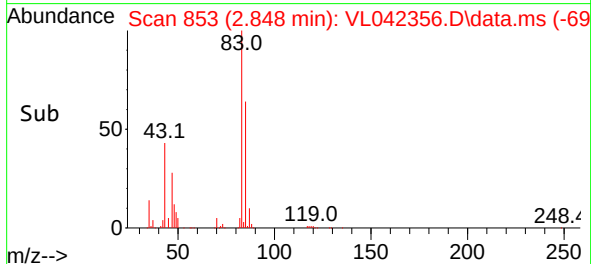
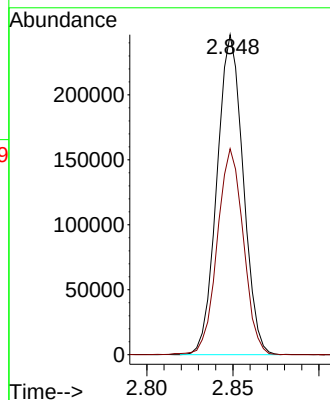
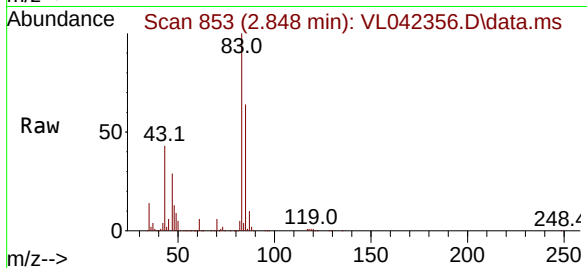
ICVVL041725

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

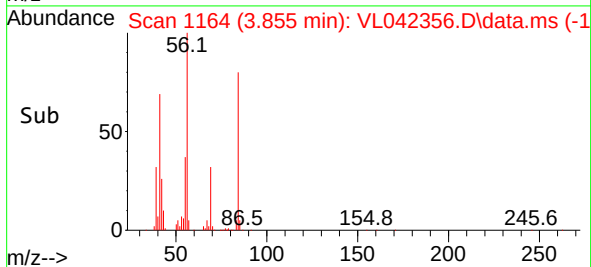
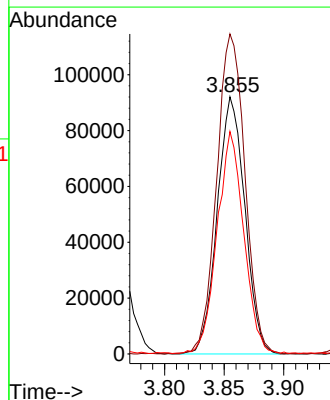
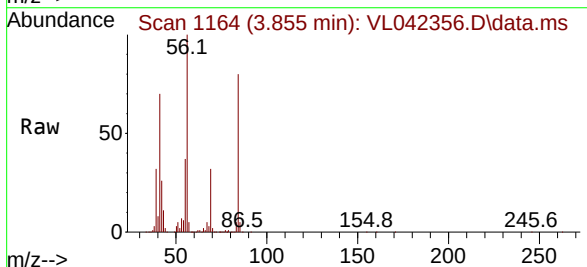
Tgt Ion: 84 Resp: 148246

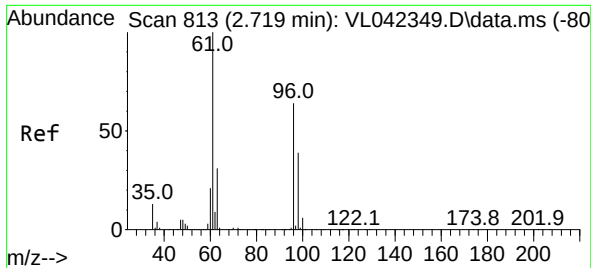
Ion Ratio Lower Upper

84 100

56 127.7 101.0 151.4

41 83.2 67.4 101.0

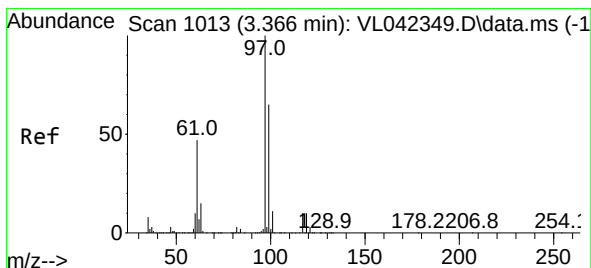
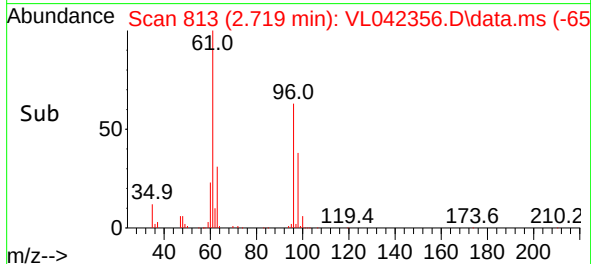
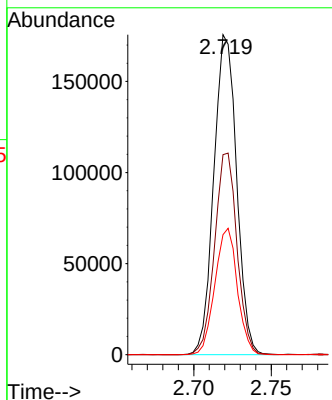
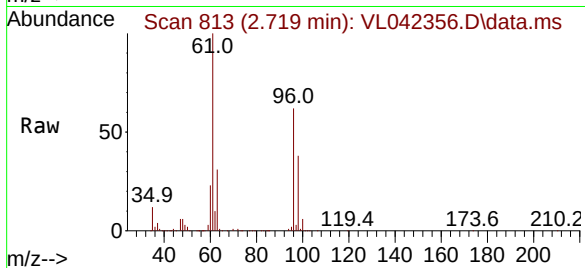




#31
 cis-1,2-Dichloroethene
 Concen: 10.167 ppbv
 RT: 2.719 min Scan# 81
 Delta R.T. -0.000 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43

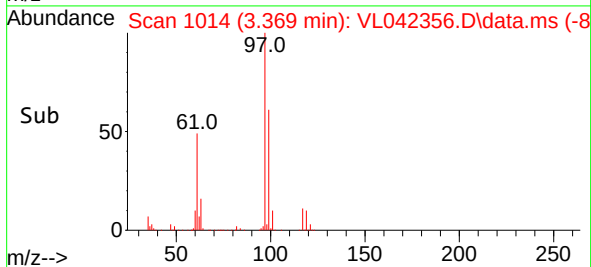
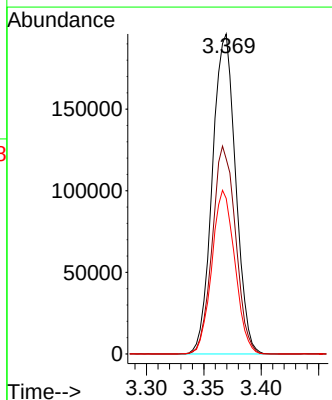
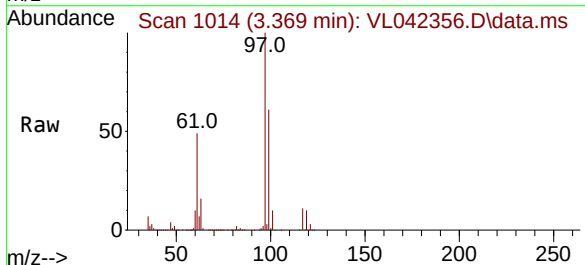
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL041725

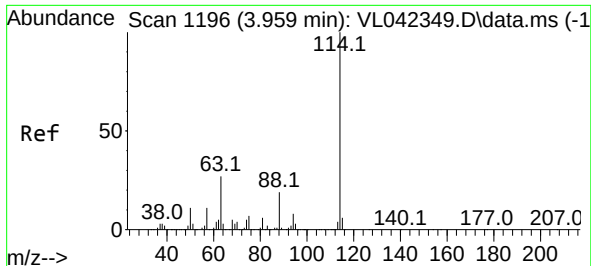
Tgt Ion: 61 Resp: 179993
 Ion Ratio Lower Upper
 61 100
 96 62.5 50.8 76.2
 98 37.5 30.9 46.3



#32
 1,1,1-Trichloroethane
 Concen: 9.336 ppbv
 RT: 3.369 min Scan# 1014
 Delta R.T. 0.003 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43

Tgt Ion: 97 Resp: 276599
 Ion Ratio Lower Upper
 97 100
 99 65.0 51.0 76.4
 61 50.7 38.8 58.2

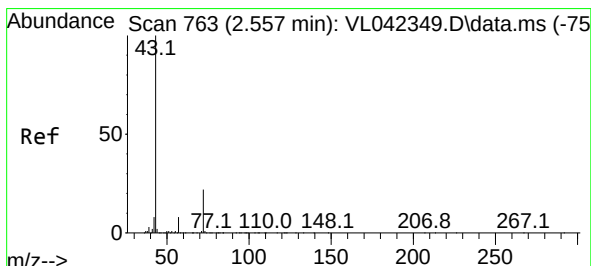
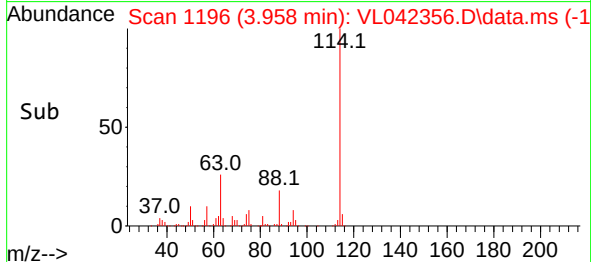
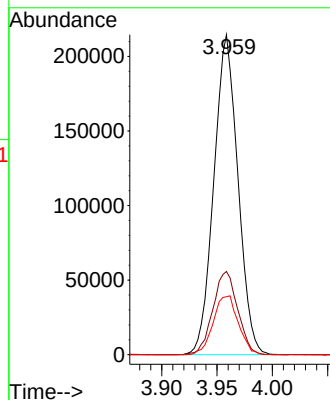
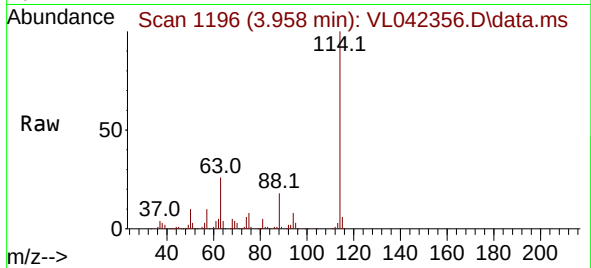




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.958 min Scan# 1196
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

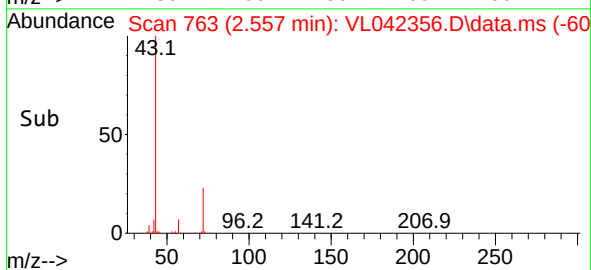
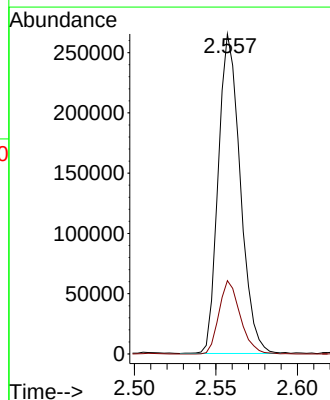
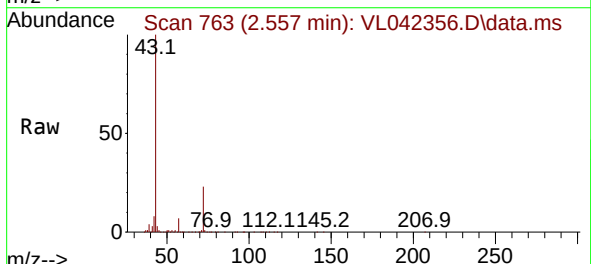
Instrument : MSVOA_1
ClientSampleId : ICVVL041725

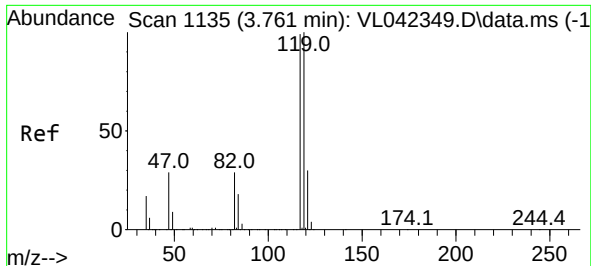
Tgt Ion:114 Resp: 324528
Ion Ratio Lower Upper
114 100
63 26.8 21.8 32.6
88 19.2 15.5 23.3



#34
2-Butanone
Concen: 9.700 ppbv
RT: 2.557 min Scan# 763
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 43 Resp: 248969
Ion Ratio Lower Upper
43 100
72 22.1 18.2 27.2

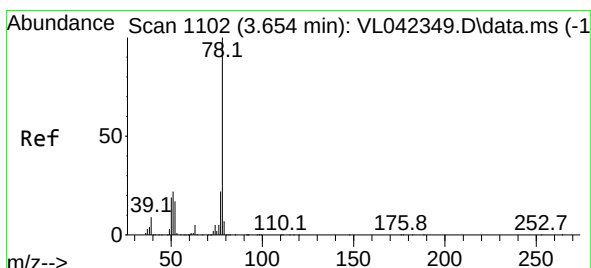
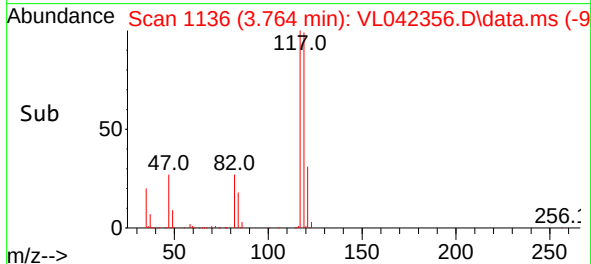
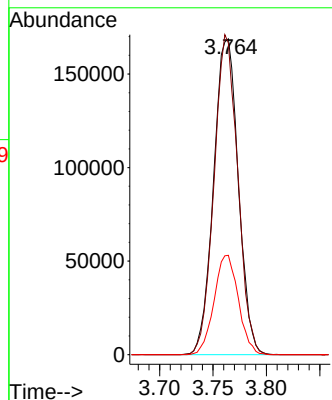
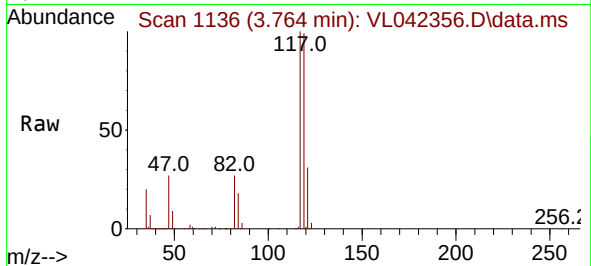




#35
Carbon Tetrachloride
Concen: 9.256 ppbv
RT: 3.764 min Scan# 1135
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

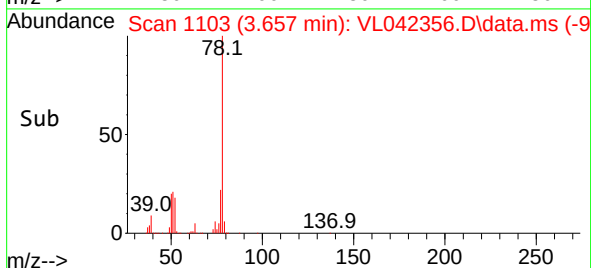
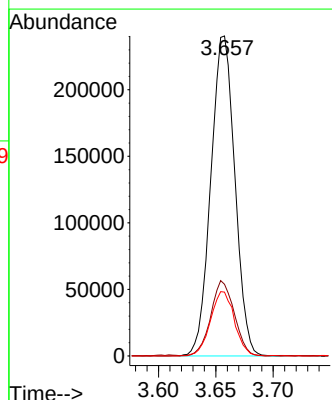
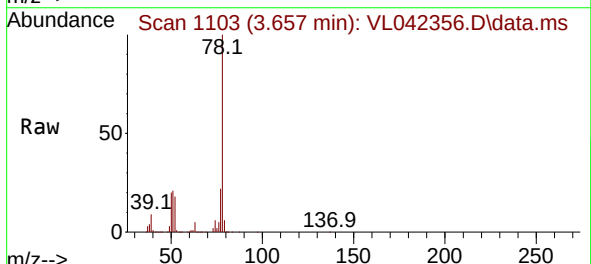
Instrument : MSVOA_1
ClientSampleId : ICVVL041725

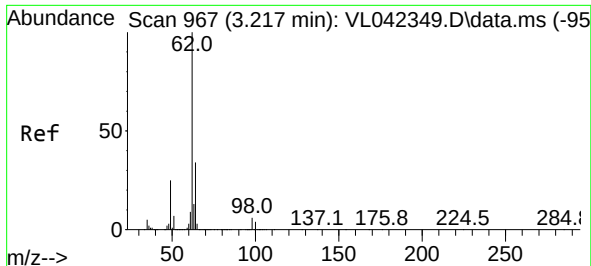
Tgt Ion:117 Resp: 271862
Ion Ratio Lower Upper
117 100
119 98.7 80.5 120.7
121 31.5 24.2 36.2



#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 :

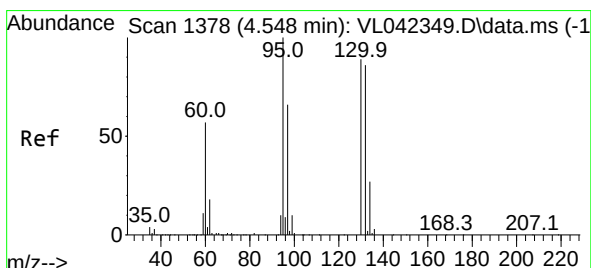
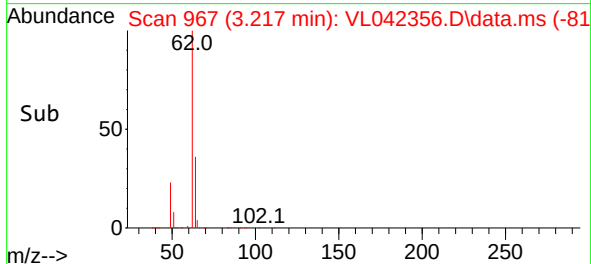
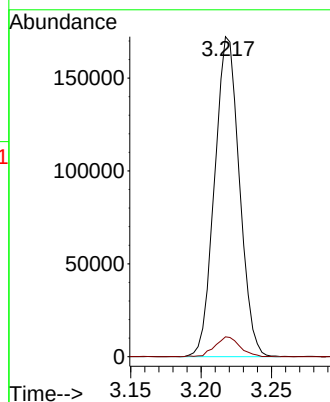
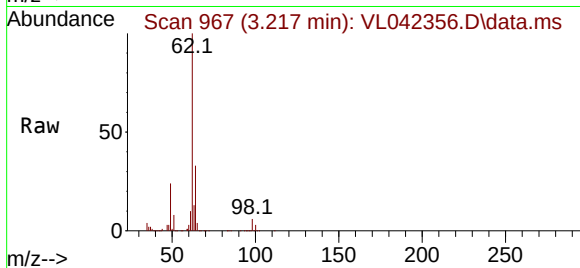
ICVVL041725

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

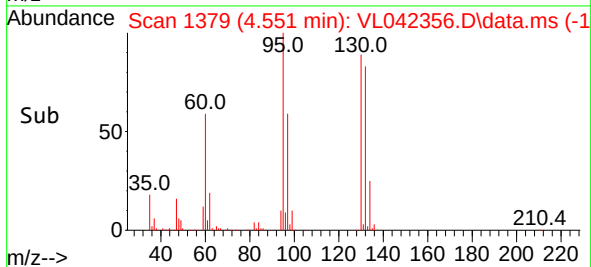
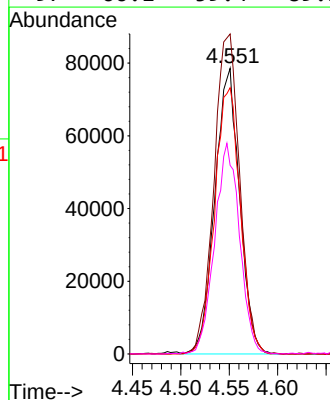
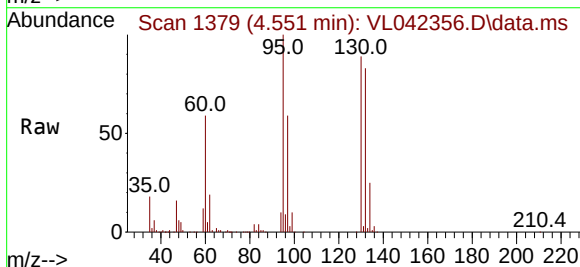
Ion Ratio Lower Upper

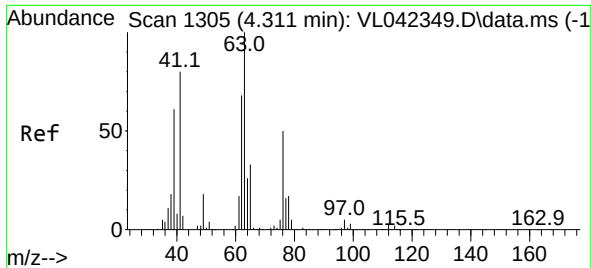
130 100

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

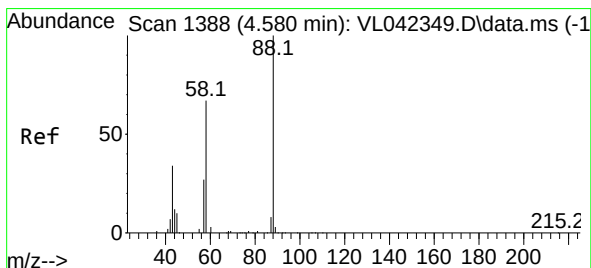
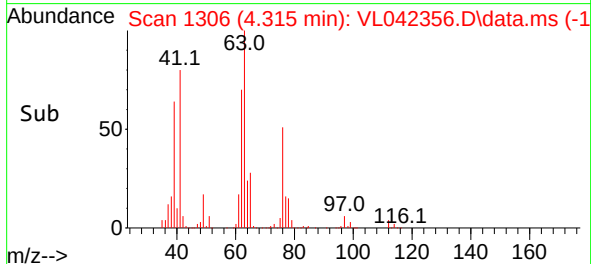
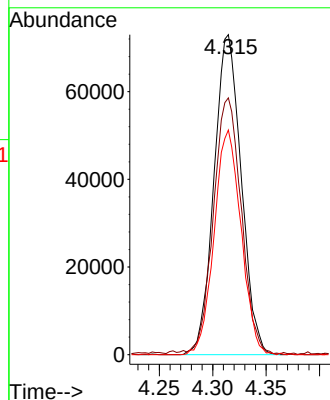
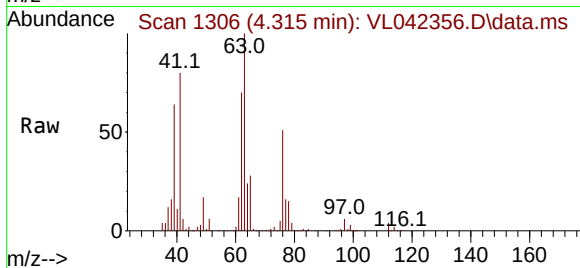
Tgt Ion: 63 Resp: 129239

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

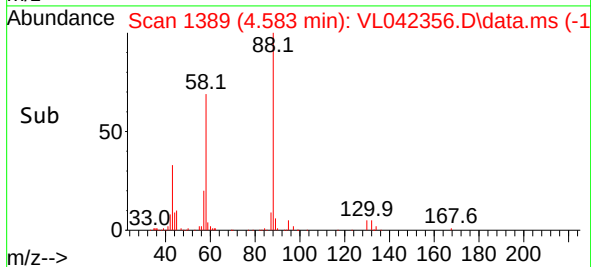
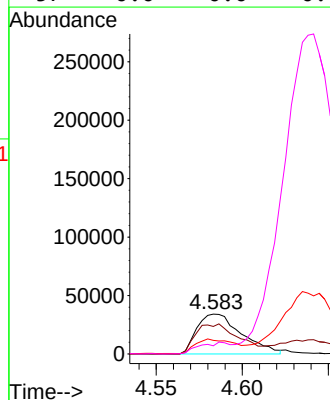
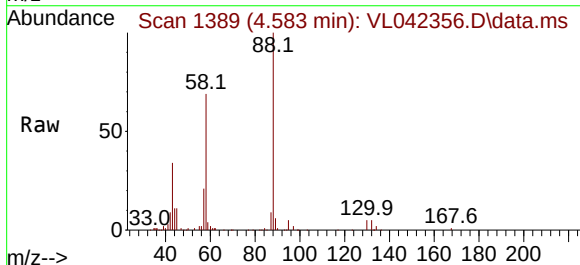
Ion Ratio Lower Upper

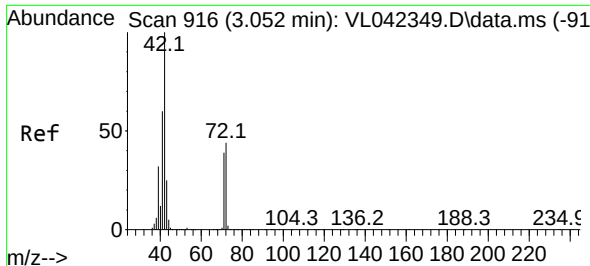
88 100

58 76.1 61.4 92.0

43 35.9 23.2 34.8#

57 0.0 0.0 0.0

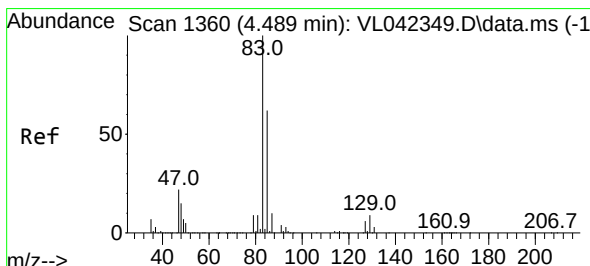
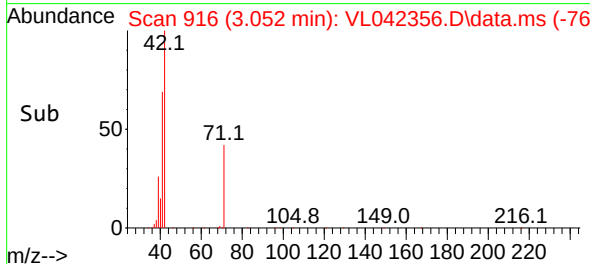
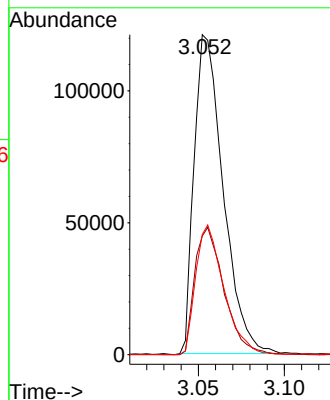
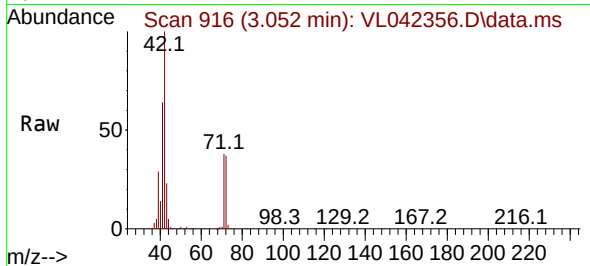




#41
Tetrahydrofuran
Concen: 9.479 ppbv
RT: 3.052 min Scan# 916
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

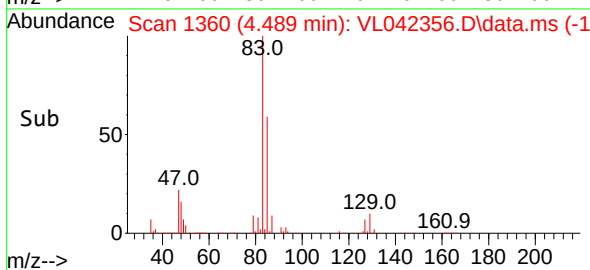
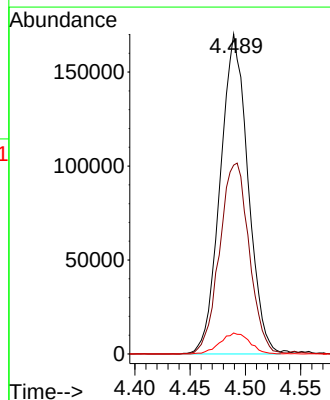
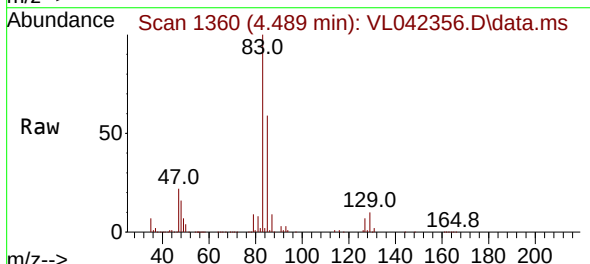
Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

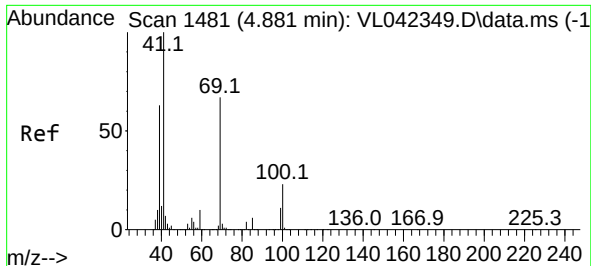
Tgt Ion: 42 Resp: 141861
Ion Ratio Lower Upper
42 100
72 40.2 32.3 48.5
71 39.8 31.4 47.2



#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

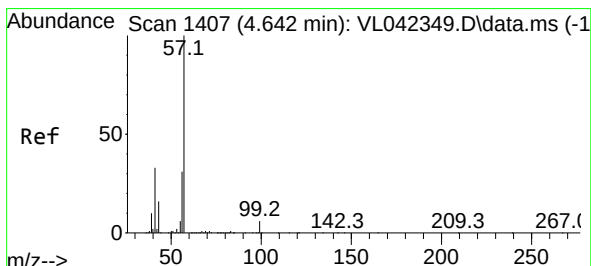
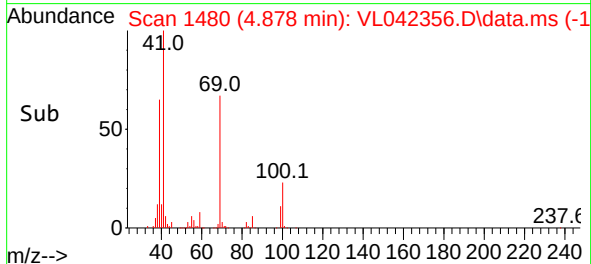
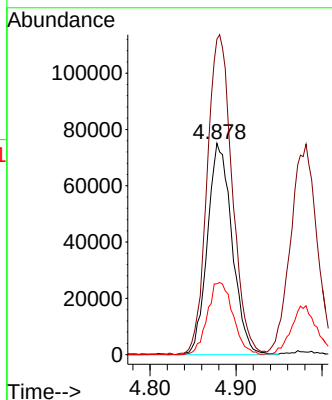
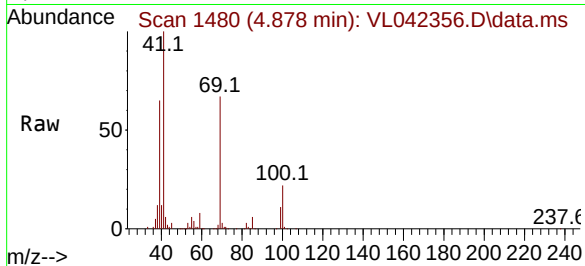




#43
Methyl Methacrylate
Concen: 9.458 ppbv
RT: 4.878 min Scan# 1480
Delta R.T. -0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

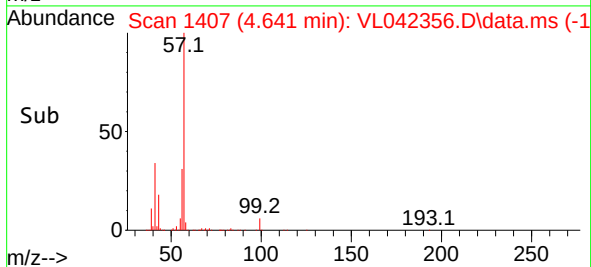
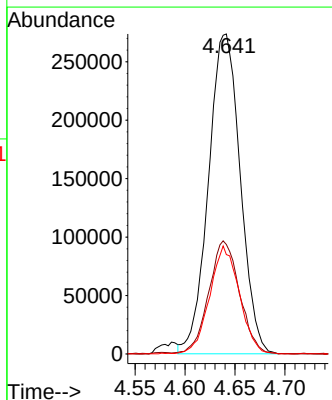
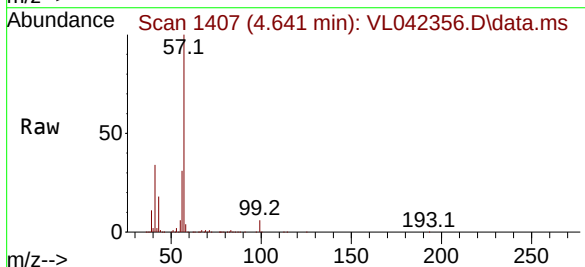
Instrument : MSVOA_1
ClientSampleId : ICVVL041725

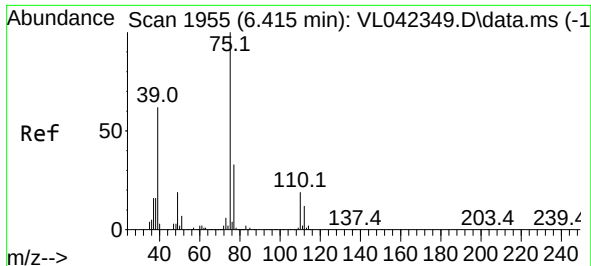
Tgt Ion: 69 Resp: 149209
Ion Ratio Lower Upper
69 100
41 154.1 118.6 177.8
100 35.5 28.2 42.2



#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

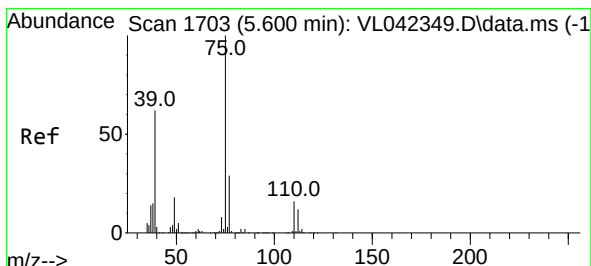
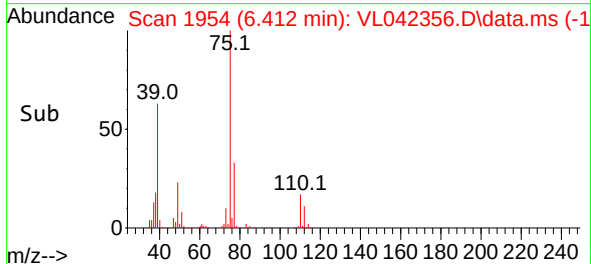
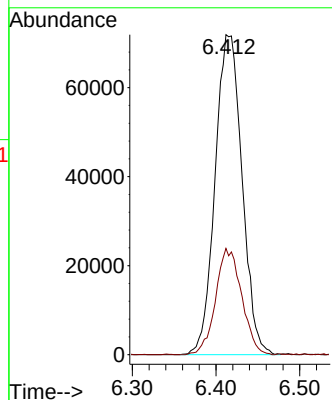
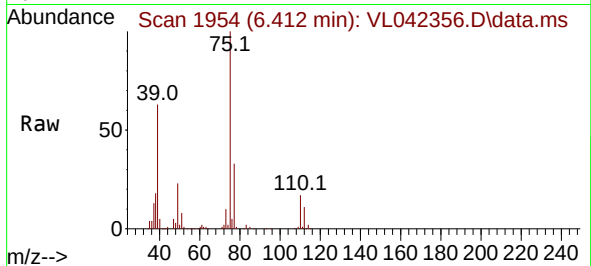




#45
 t-1,3-Dichloropropene
 Concen: 9.975 ppbv
 RT: 6.412 min Scan# 1954
 Delta R.T. -0.003 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43

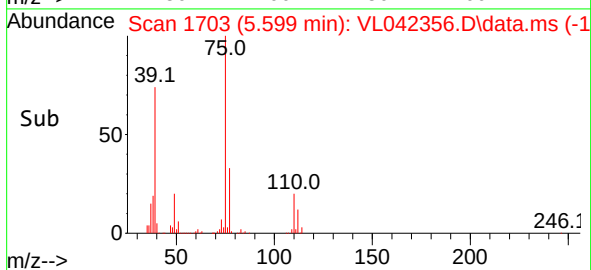
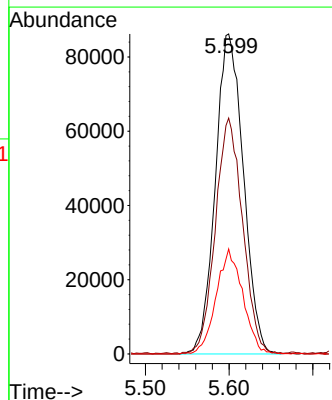
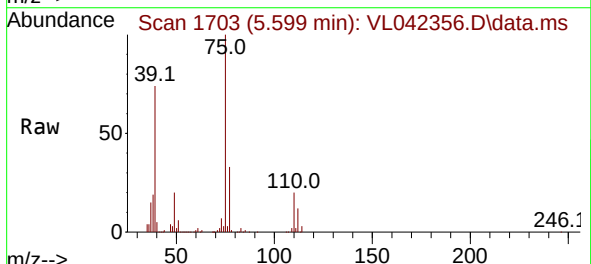
Instrument :
 MSVOA_1
 ClientSampleId :
 ICVVL041725

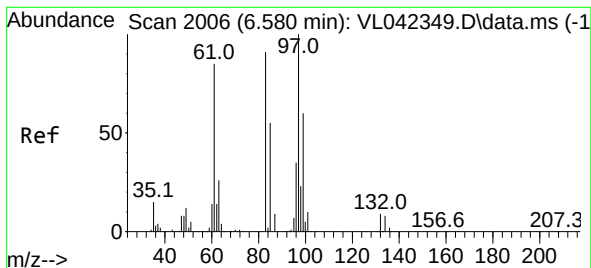
Tgt Ion: 75 Resp: 160750
 Ion Ratio Lower Upper
 75 100
 77 33.2 27.0 40.6



#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

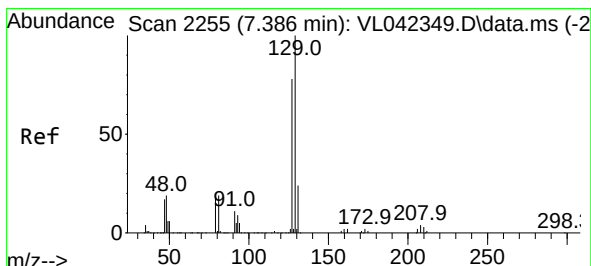
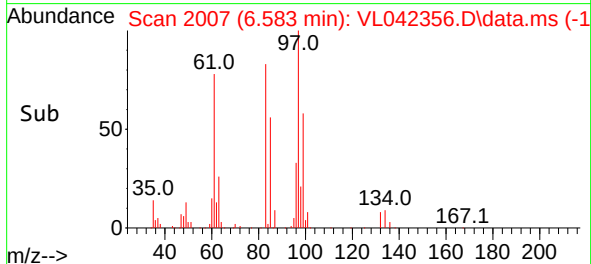
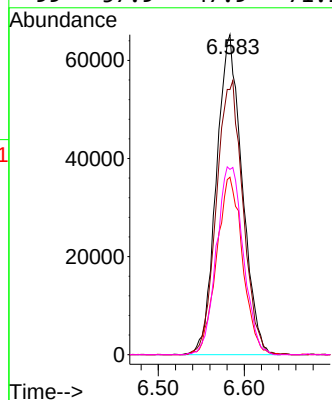
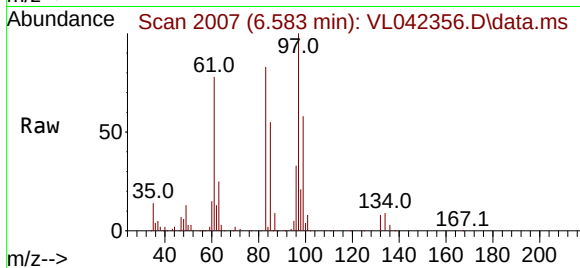
Ion Ratio Lower Upper

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

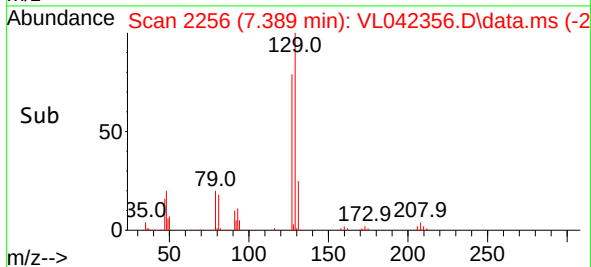
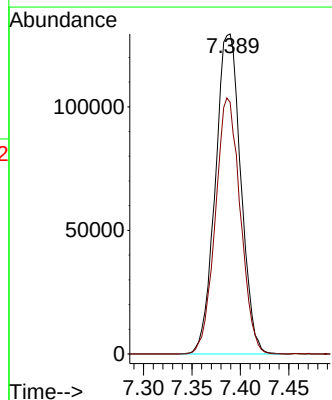
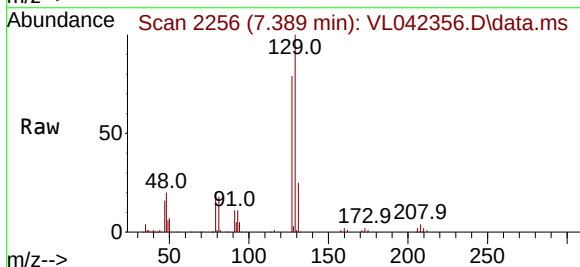
Acq: 17 Apr 2025 13:43

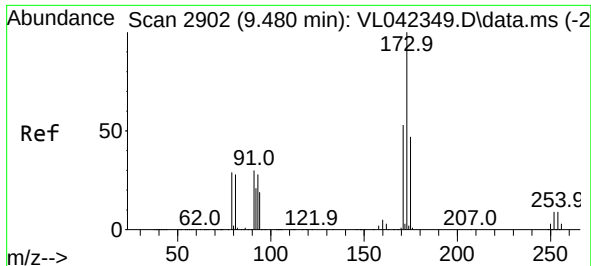
Tgt Ion: 129 Resp: 237206

Ion Ratio Lower Upper

129 100

127 78.4 39.1 117.3

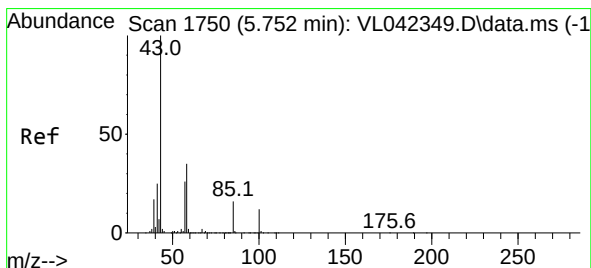
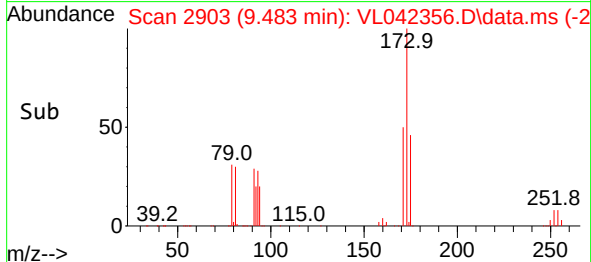
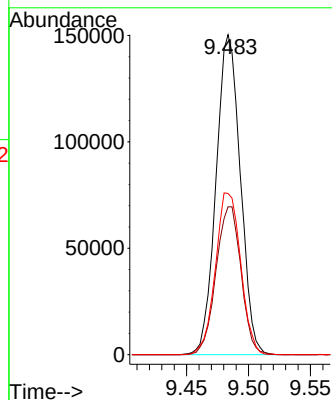
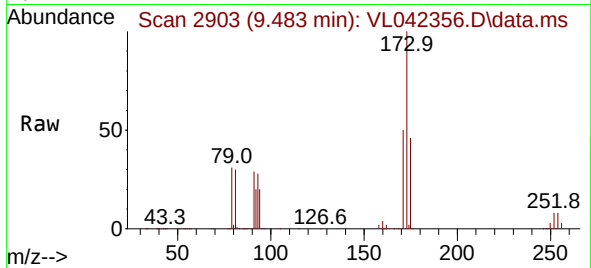




#49
Bromoform
Concen: 10.016 ppbv
RT: 9.483 min Scan# 2902
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

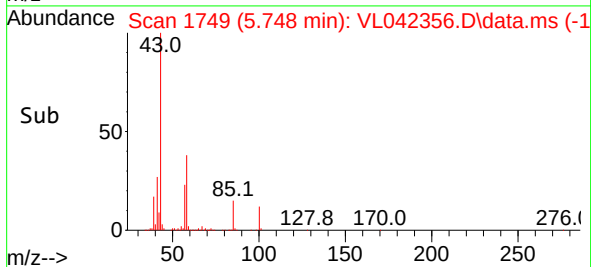
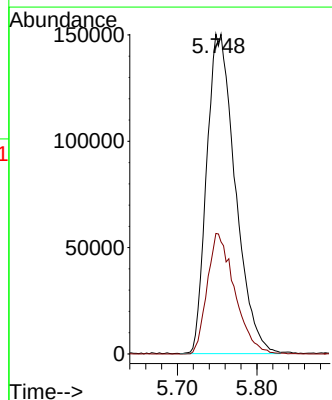
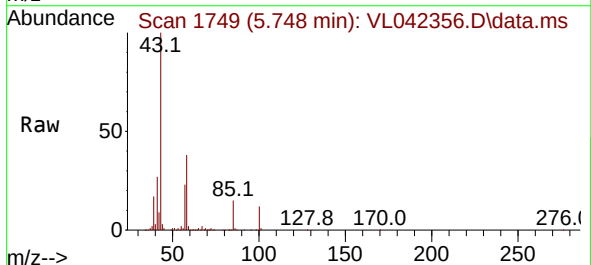
Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

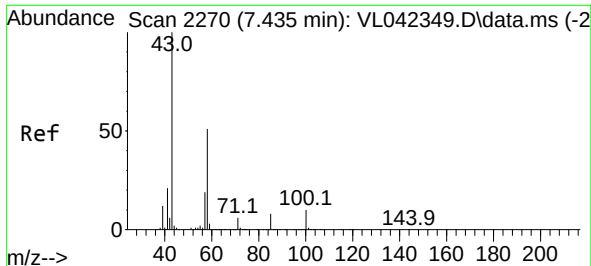
Tgt Ion:173 Resp: 205630
Ion Ratio Lower Upper
173 100
175 47.6 38.2 57.2
171 52.5 40.9 61.3



#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

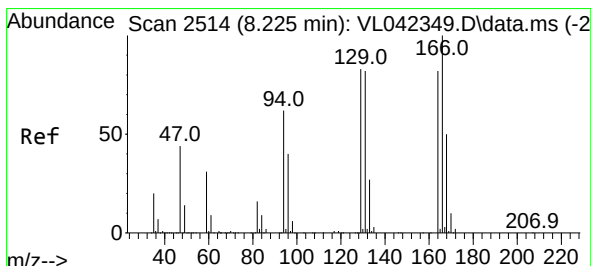
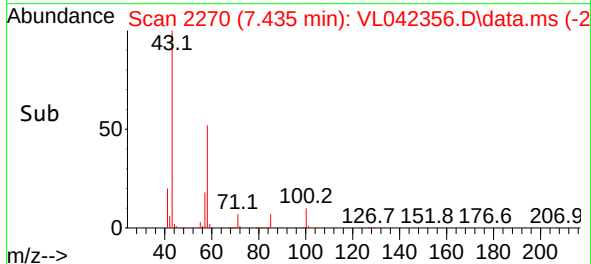
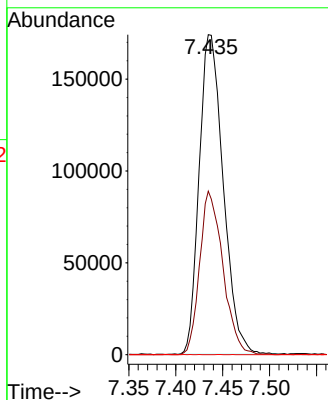
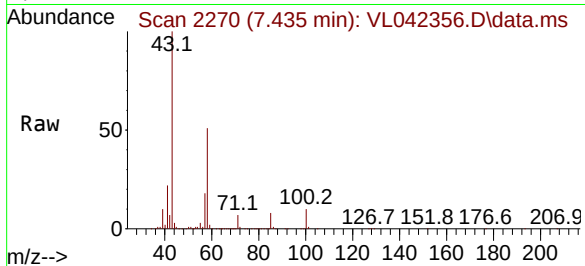




#51
2-Hexanone
Concen: 8.118 ppbv
RT: 7.435 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

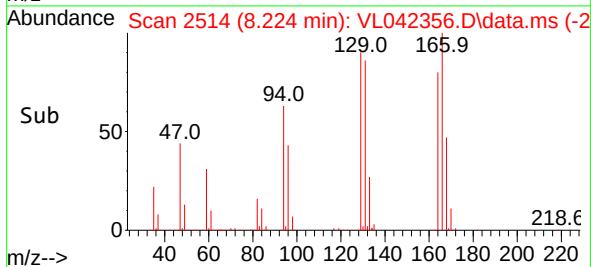
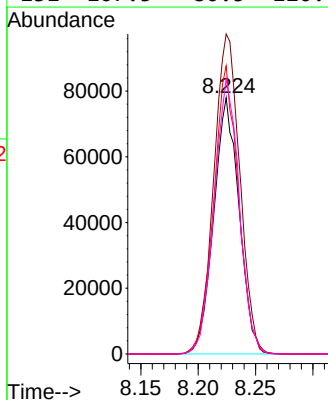
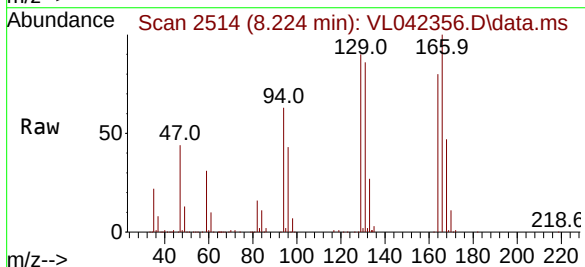
Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

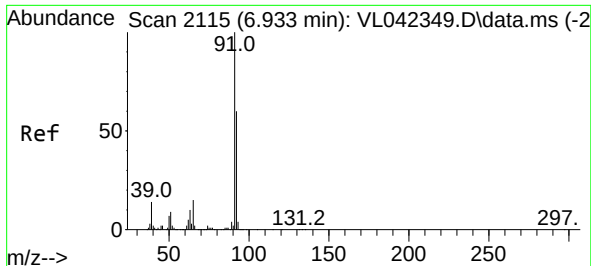
Tgt Ion: 43 Resp: 310521
Ion Ratio Lower Upper
43 100
58 49.3 40.2 60.4
98 0.0 0.1 0.1#



#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

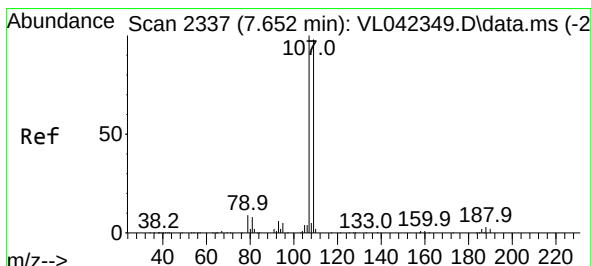
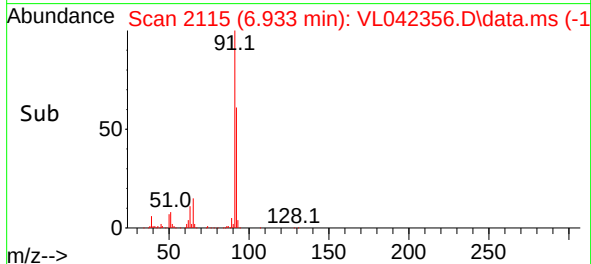
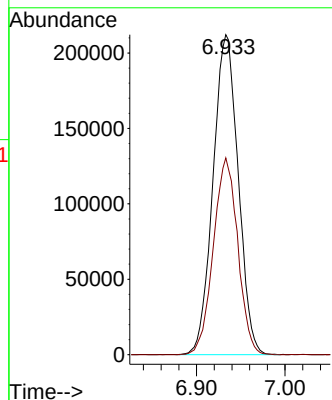
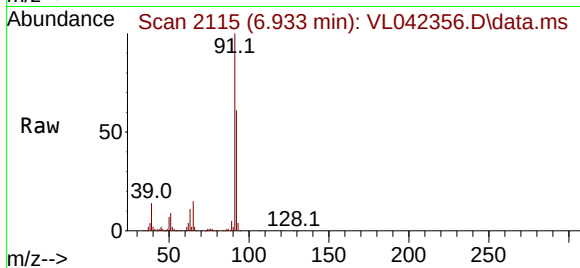




#53
Toluene
Concen: 9.986 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

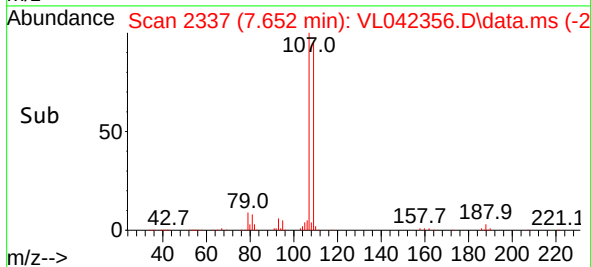
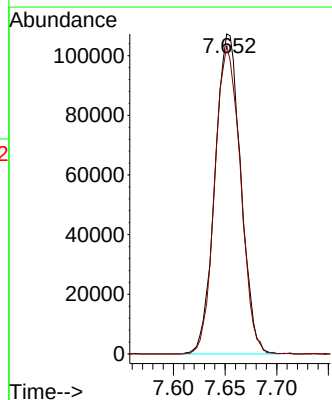
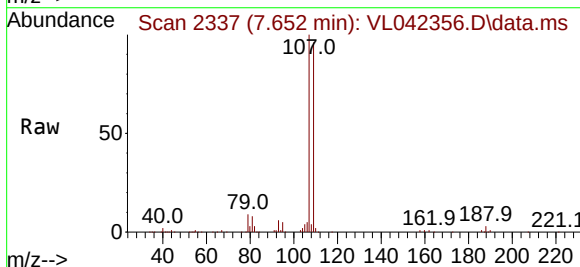
Instrument : MSVOA_L
ClientSampleId : ICVVL041725

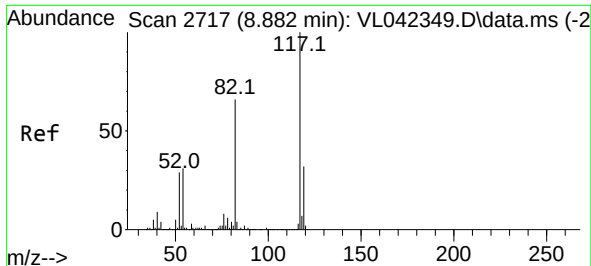
Tgt Ion: 91 Resp: 419462
Ion Ratio Lower Upper
91 100
92 59.6 48.2 72.4



#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

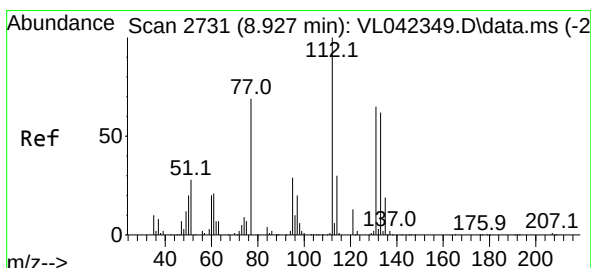
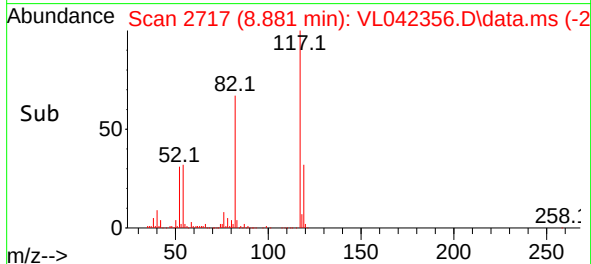
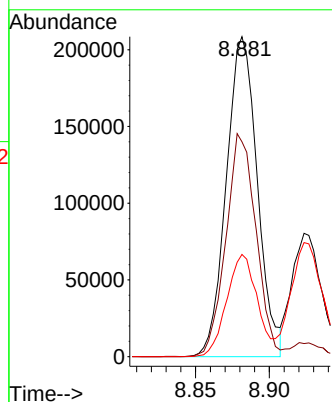
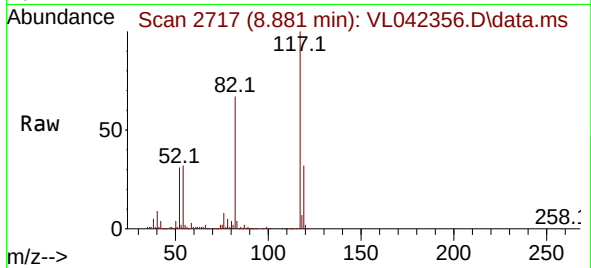




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.881 min Scan# 2717
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

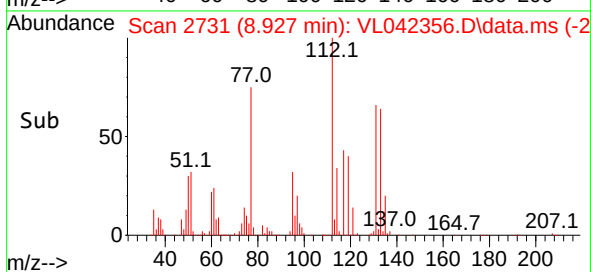
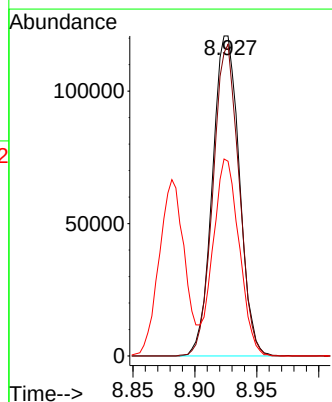
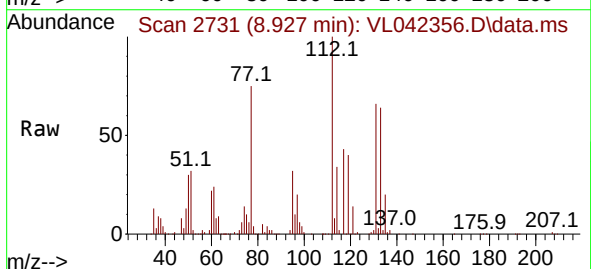
Instrument : MSVOA_1
ClientSampleId : ICVVL041725

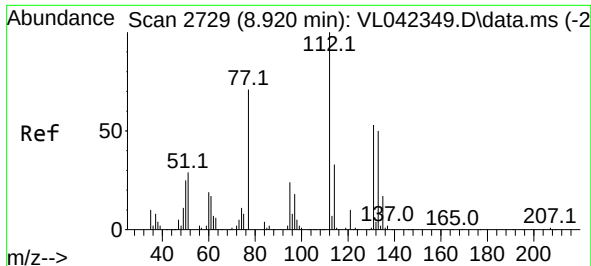
Tgt Ion:117 Resp: 305357
Ion Ratio Lower Upper
117 100
82 68.3 57.8 86.6
119 31.8 25.2 37.8



#56
1,1,1,2-Tetrachloroethane
Concen: 9.886 ppbv
RT: 8.927 min Scan# 2731
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:131 Resp: 182712
Ion Ratio Lower Upper
131 100
133 93.9 78.3 117.5
119 59.4 48.7 73.1

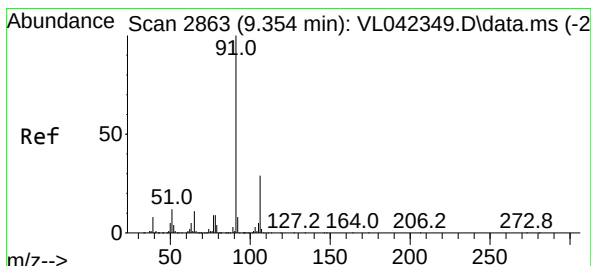
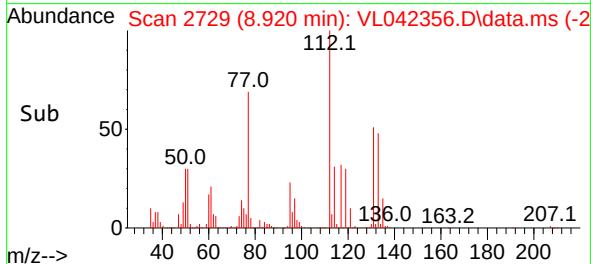
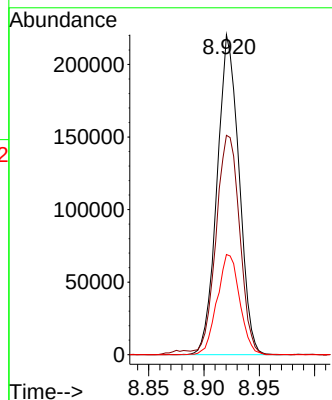
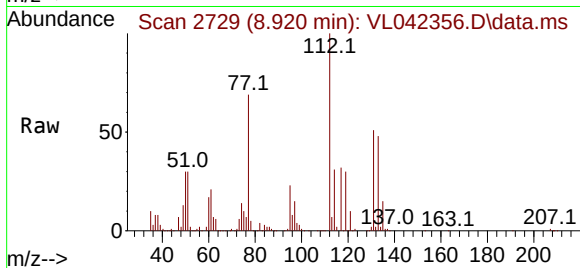




#57
Chlorobenzene
Concen: 9.589 ppbv
RT: 8.920 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

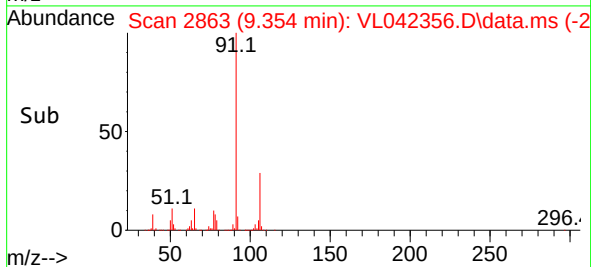
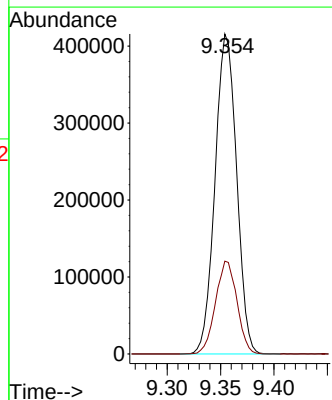
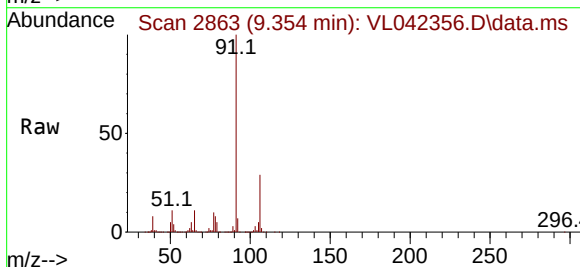
Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

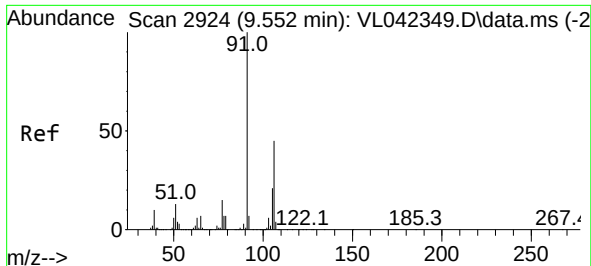
Tgt Ion:112 Resp: 304533
Ion Ratio Lower Upper
112 100
77 68.5 57.8 86.6
114 31.3 29.3 35.9



#58
Ethyl Benzene
Concen: 9.645 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 91 Resp: 583515
Ion Ratio Lower Upper
91 100
106 29.0 23.0 34.4





#59

m/p-Xylene

Concen: 9.084 ppbv

RT: 9.551 min Scan# 2924

Delta R.T. -0.000 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

Instrument :

MSVOA_L

ClientSampleId :

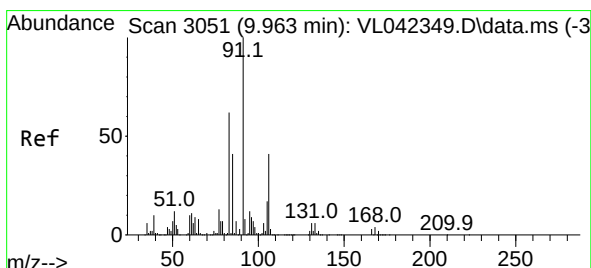
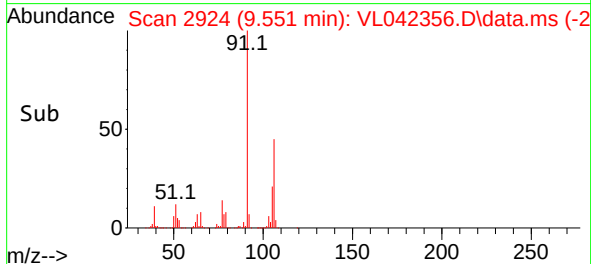
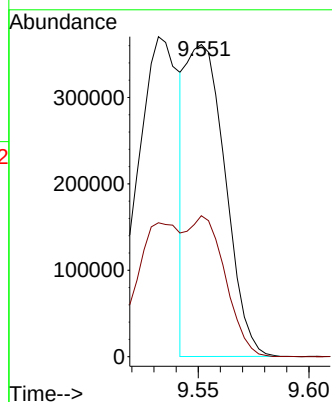
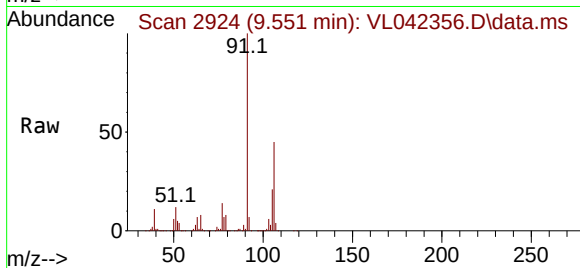
ICVVL041725

Tgt Ion: 91 Resp: 442744

Ion Ratio Lower Upper

91 100

106 92.1 35.4 53.2#



#60

o-Xylene

Concen: 9.465 ppbv

RT: 9.966 min Scan# 3052

Delta R.T. 0.003 min

Lab File: VL042356.D

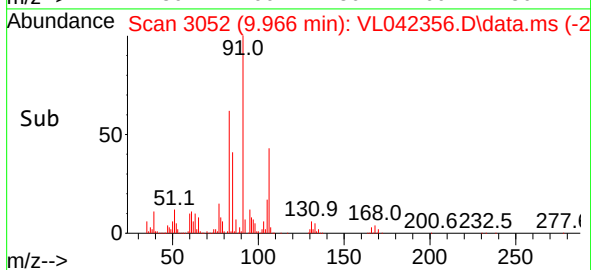
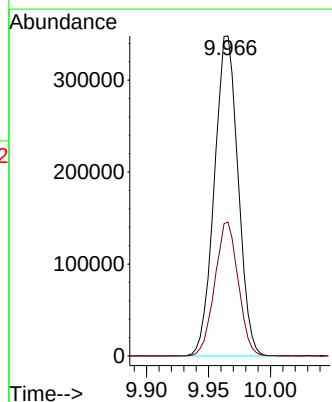
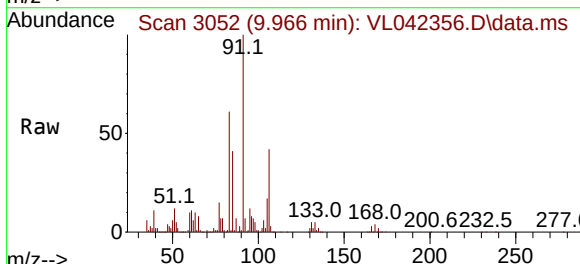
Acq: 17 Apr 2025 13:43

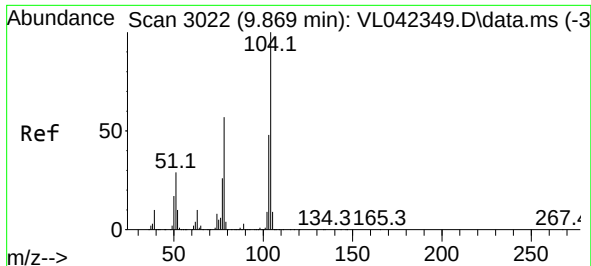
Tgt Ion: 91 Resp: 464522

Ion Ratio Lower Upper

91 100

106 41.4 21.1 63.4





#61

Styrene

Concen: 9.813 ppbv

RT: 9.872 min Scan# 3022

Delta R.T. 0.003 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

Instrument :

MSVOA_L

ClientSampleId :

ICVVL041725

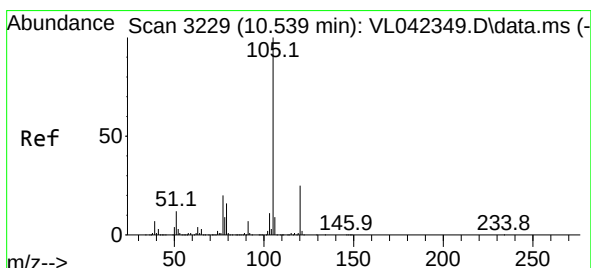
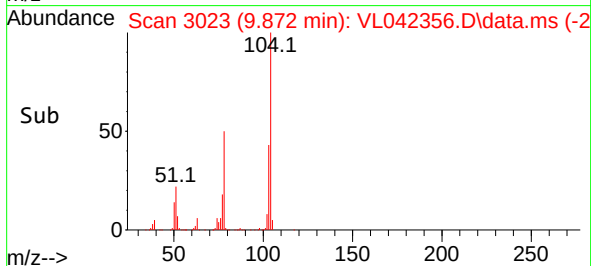
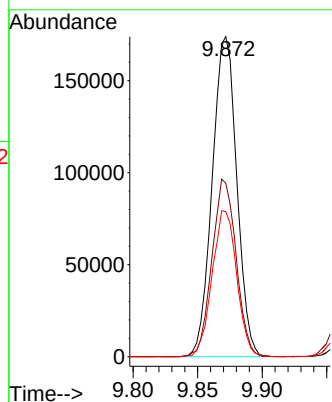
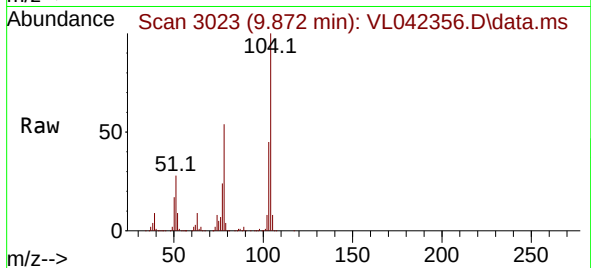
Tgt Ion:104 Resp: 229869

Ion Ratio Lower Upper

104 100

78 54.5 44.6 66.8

103 45.7 37.4 56.0



#62

Isopropylbenzene

Concen: 9.520 ppbv

RT: 10.539 min Scan# 3229

Delta R.T. -0.000 min

Lab File: VL042356.D

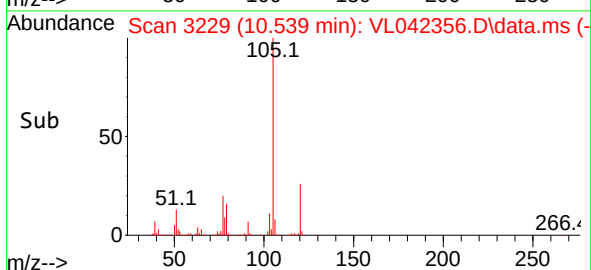
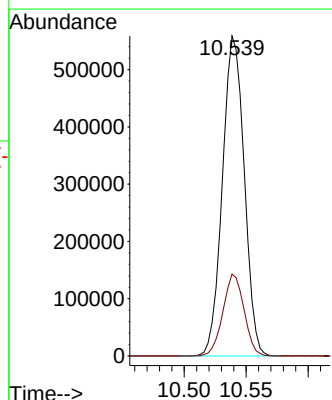
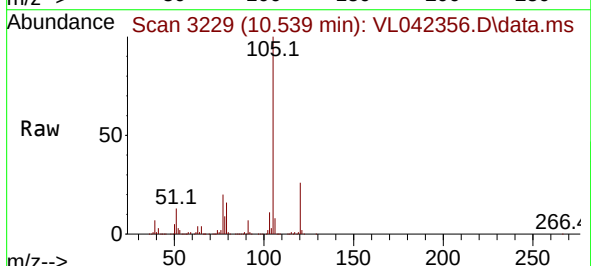
Acq: 17 Apr 2025 13:43

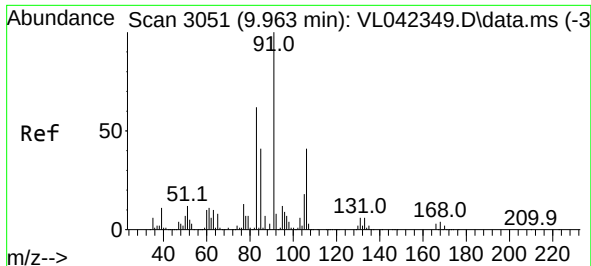
Tgt Ion:105 Resp: 685965

Ion Ratio Lower Upper

105 100

120 24.8 19.8 29.8

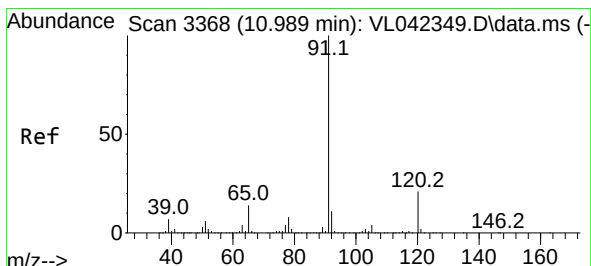
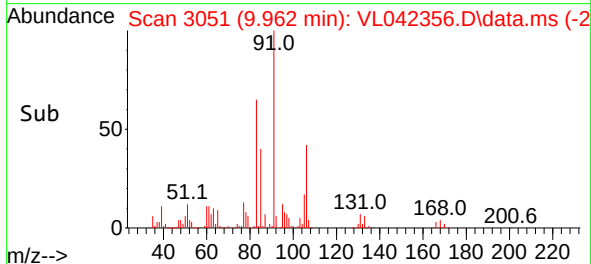
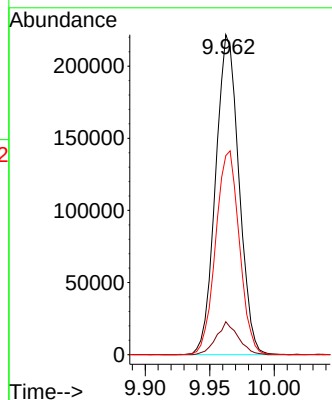
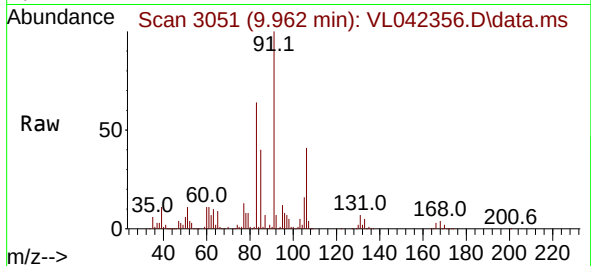




#63
 1,1,2,2-Tetrachloroethane
 Concen: 8.773 ppbv
 RT: 9.962 min Scan# 3051
 Delta R.T. -0.000 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43

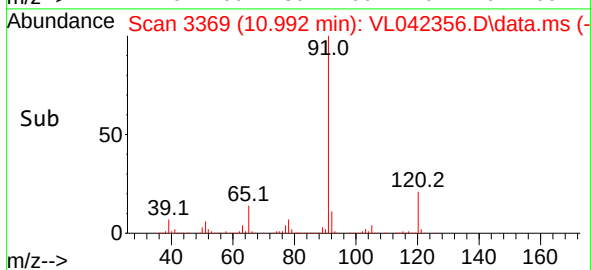
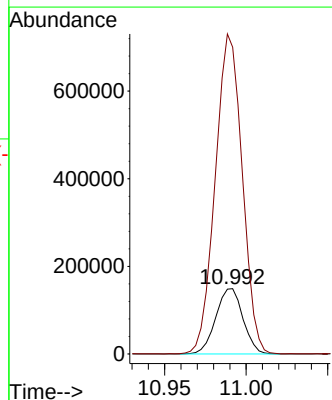
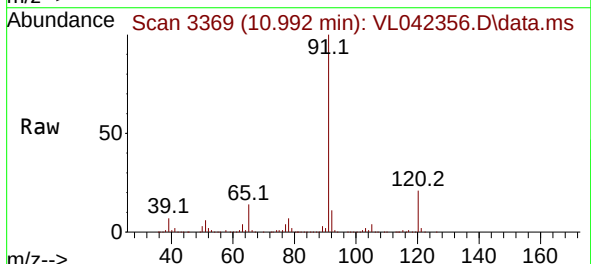
Instrument : MSVOA_1
 ClientSampleId : ICVVL041725

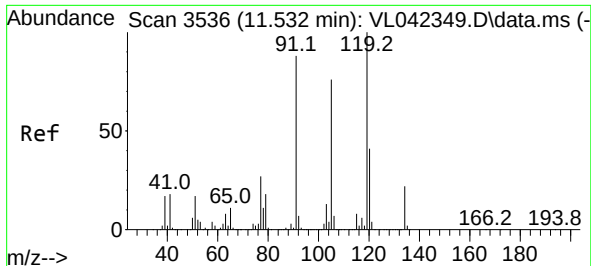
Tgt Ion: 83 Resp: 279007
 Ion Ratio Lower Upper
 83 100
 131 9.6 4.5 13.7
 85 64.6 32.4 97.0



#64
 n-propylbenzene
 Concen: 9.533 ppbv
 RT: 10.992 min Scan# 3369
 Delta R.T. 0.003 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43

Tgt Ion: 120 Resp: 172654
 Ion Ratio Lower Upper
 120 100
 91 487.7 392.4 588.6

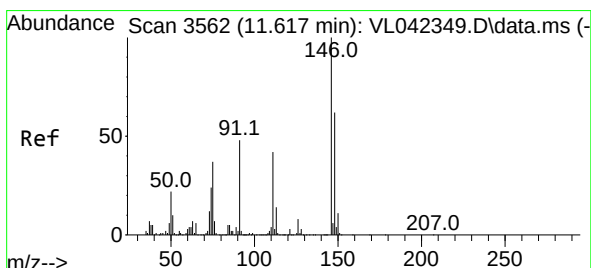
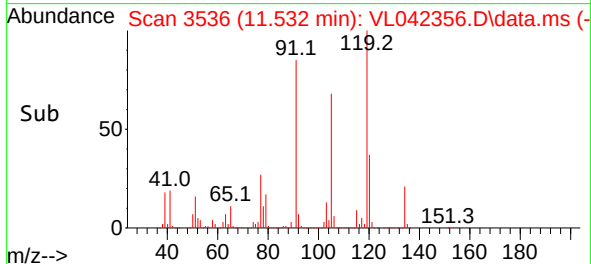
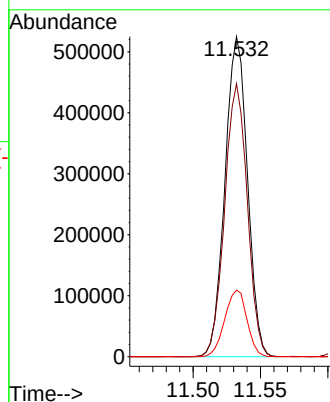
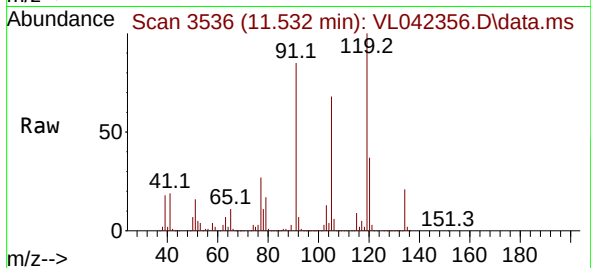




#65
tert-Butylbenzene
Concen: 9.203 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

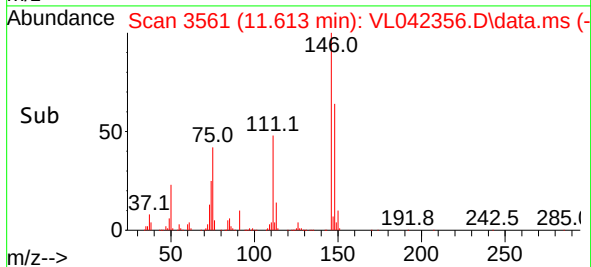
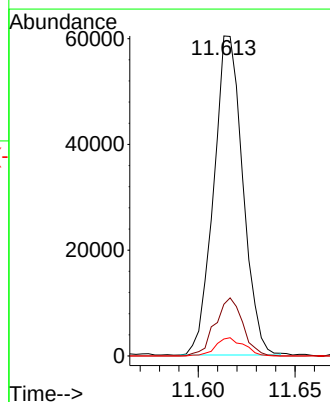
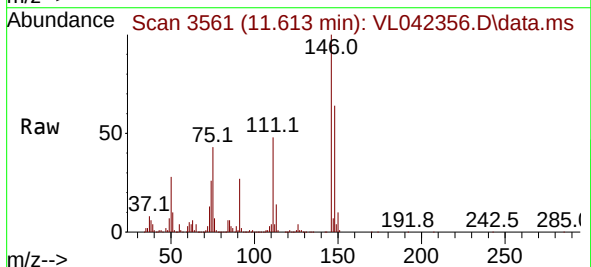
Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

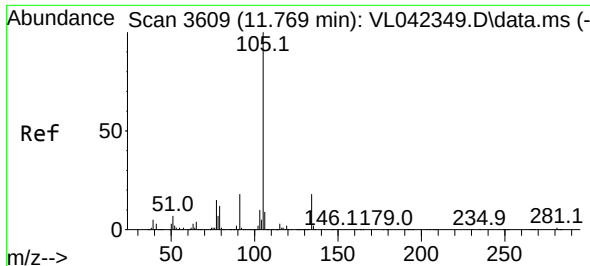
Tgt Ion:119 Resp: 609500
Ion Ratio Lower Upper
119 100
91 85.8 74.6 111.8
134 20.5 18.8 28.2



#66
Benzyl Chloride
Concen: 8.664 ppbv
RT: 11.613 min Scan# 3561
Delta R.T. -0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 91 Resp: 63051
Ion Ratio Lower Upper
91 100
126 17.3 11.8 17.6
128 5.6 4.5 6.7

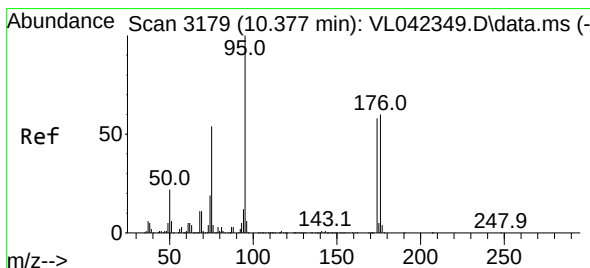
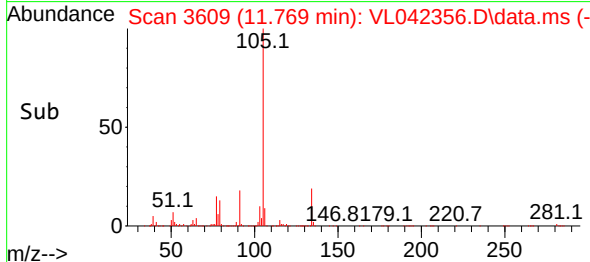
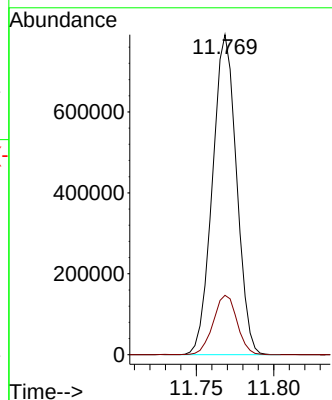
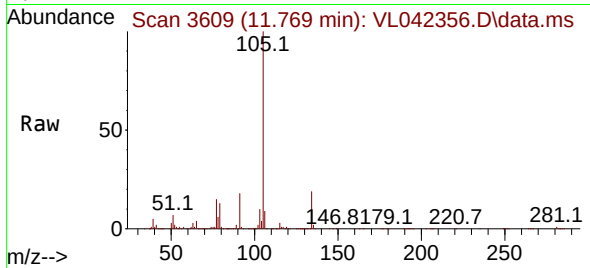




#67
 sec-Butylbenzene
 Concen: 9.268 ppbv
 RT: 11.769 min Scan# 3179
 Delta R.T. -0.000 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43

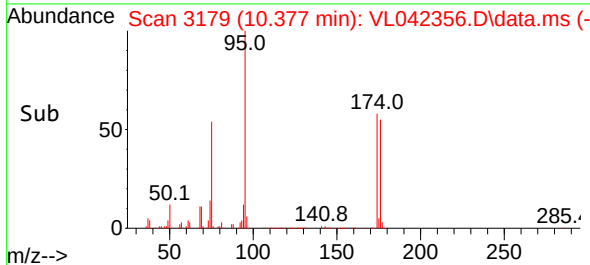
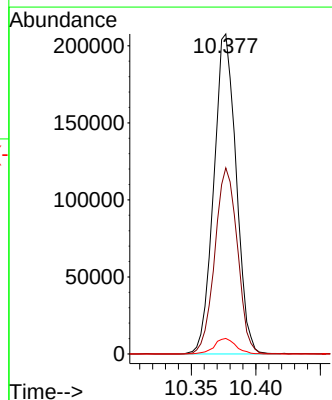
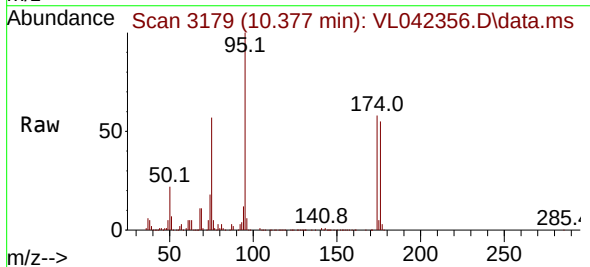
Instrument :
 MSVOA_1
 ClientSampleId :
 ICVVL041725

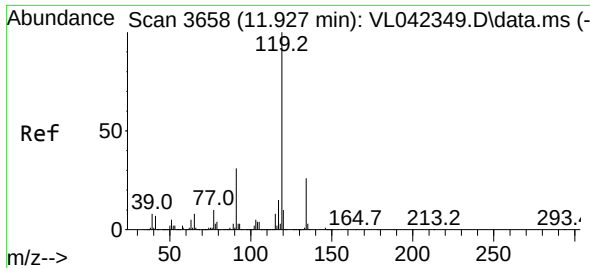
Tgt Ion:105 Resp: 853807
 Ion Ratio Lower Upper
 105 100
 134 18.5 14.6 21.8



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.969 ppbv
 RT: 10.377 min Scan# 3179
 Delta R.T. -0.000 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43

Tgt Ion: 95 Resp: 250149
 Ion Ratio Lower Upper
 95 100
 174 58.7 48.5 72.7
 175 4.7 3.7 5.5

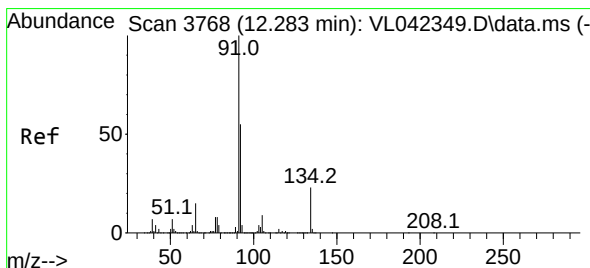
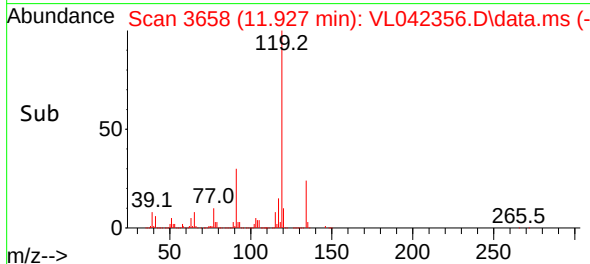
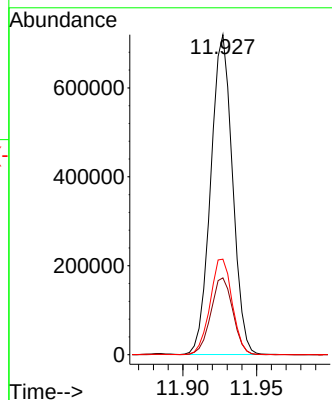
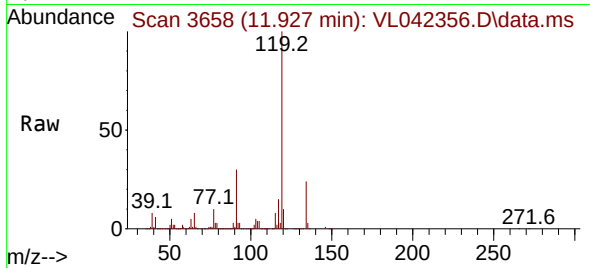




#69
p-Isopropyltoluene
Concen: 9.220 ppbv
RT: 11.927 min Scan# 3658
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

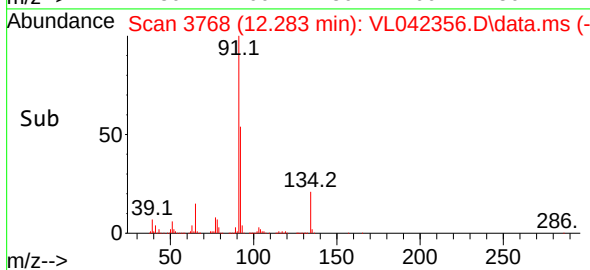
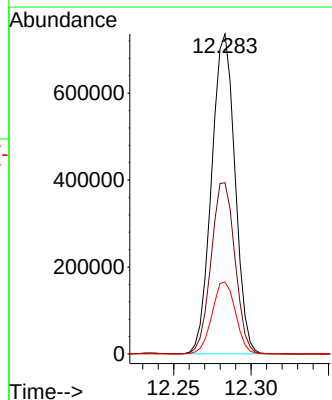
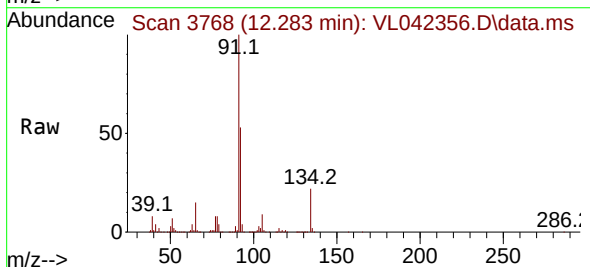
Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

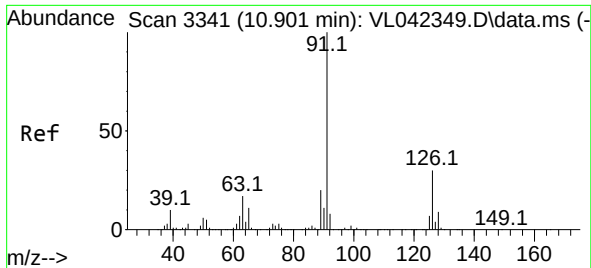
Tgt Ion:119 Resp: 737861
Ion Ratio Lower Upper
119 100
134 24.5 20.0 30.0
91 30.6 24.4 36.6



#70
n-Butylbenzene
Concen: 9.255 ppbv
RT: 12.283 min Scan# 3768
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 91 Resp: 771461
Ion Ratio Lower Upper
91 100
92 54.9 44.2 66.4
134 22.7 18.2 27.4

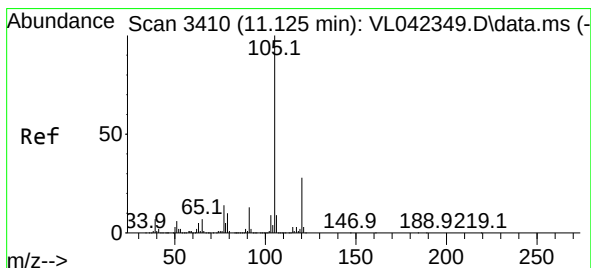
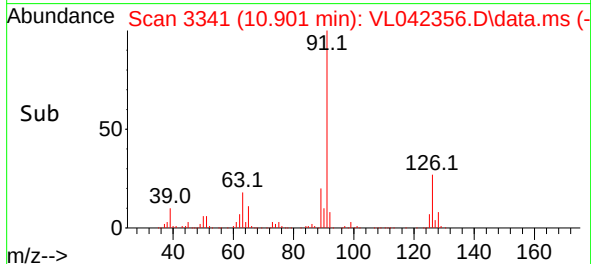
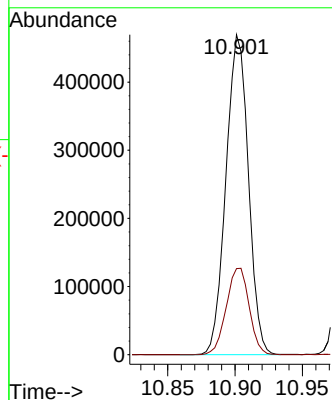
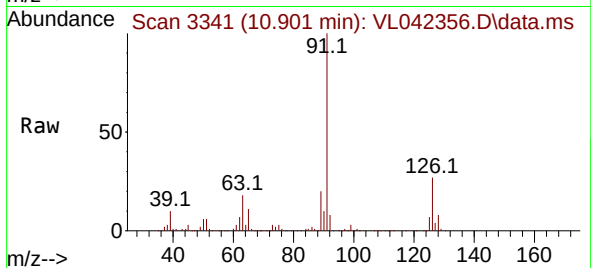




#71
2-Chlorotoluene
Concen: 9.622 ppbv
RT: 10.901 min Scan# 31
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

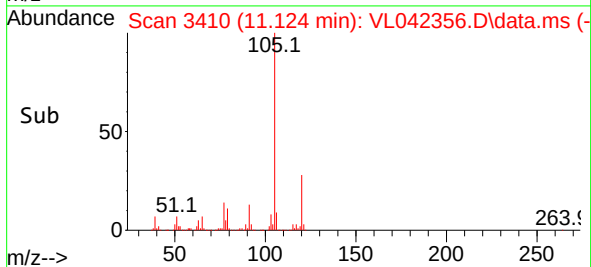
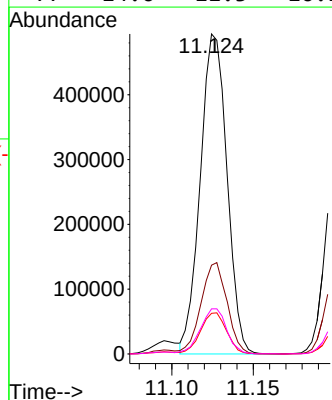
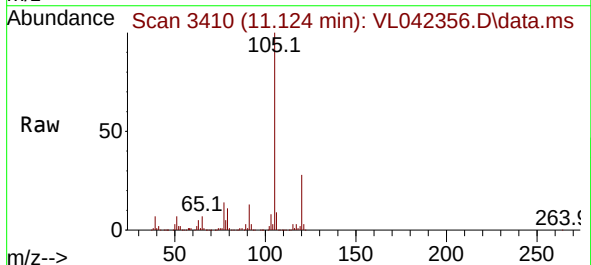
Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

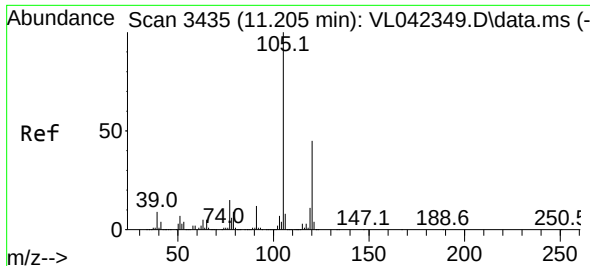
Tgt Ion: 91 Resp: 543794
Ion Ratio Lower Upper
91 100
126 27.5 11.4 45.4



#72
4-Ethyltoluene
Concen: 9.385 ppbv
RT: 11.124 min Scan# 3410
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 105 Resp: 563136
Ion Ratio Lower Upper
105 100
120 28.9 23.2 34.8
91 13.2 10.4 15.6
77 14.6 11.3 16.9

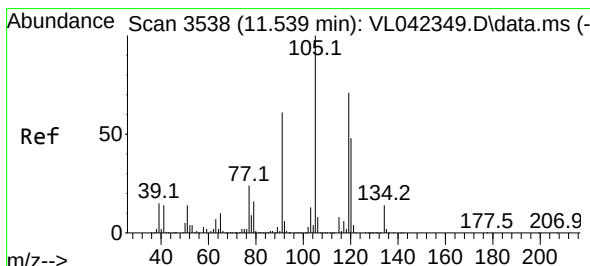
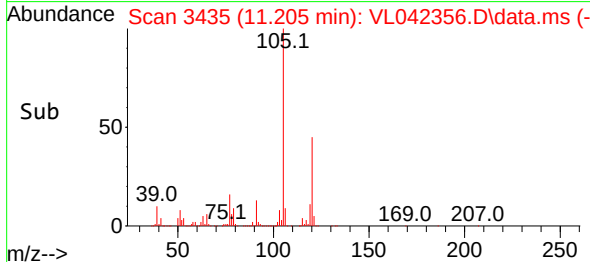
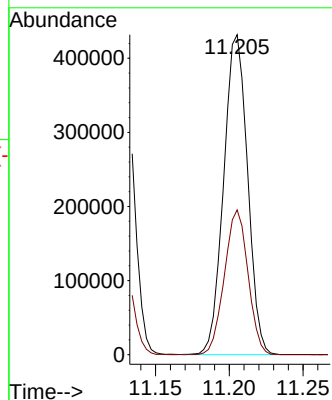
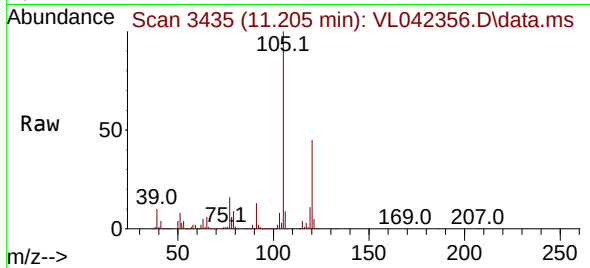




#73
 1,3,5-Trimethylbenzene
 Concen: 9.186 ppbv
 RT: 11.205 min Scan# 3435
 Delta R.T. -0.000 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43

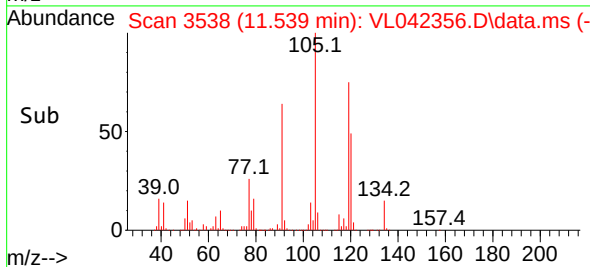
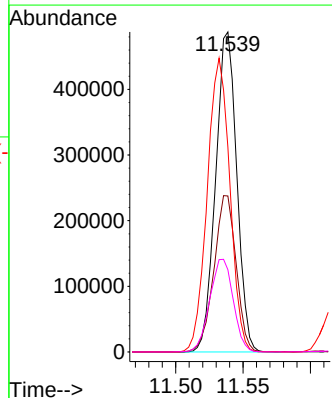
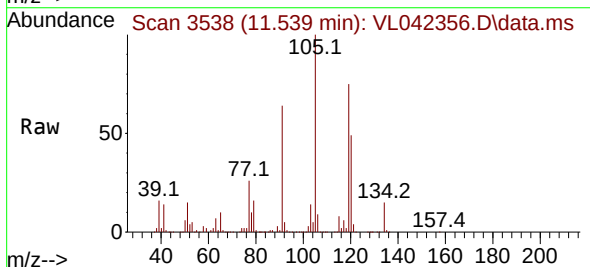
Instrument : MSVOA_1
 ClientSampleId : ICVVL041725

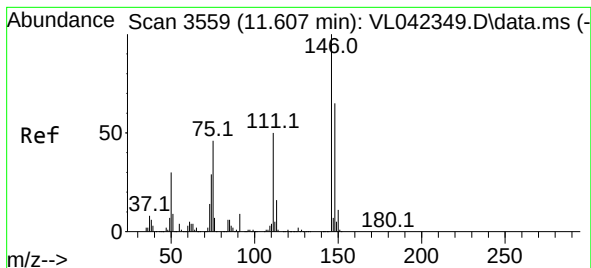
Tgt Ion:105 Resp: 486583
 Ion Ratio Lower Upper
 105 100
 120 45.2 35.6 53.4



#74
 1,2,4-Trimethylbenzene
 Concen: 8.592 ppbv
 RT: 11.539 min Scan# 3538
 Delta R.T. -0.000 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43

Tgt Ion:105 Resp: 531576
 Ion Ratio Lower Upper
 105 100
 120 48.7 38.1 57.1
 91 64.0 48.8 73.2
 77 25.7 19.0 28.4





#75

1,3-Dichlorobenzene

Concen: 9.240 ppbv

RT: 11.610 min Scan# 3560

Delta R.T. 0.003 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

Instrument :

MSVOA_L

ClientSampleId :

ICVVL041725

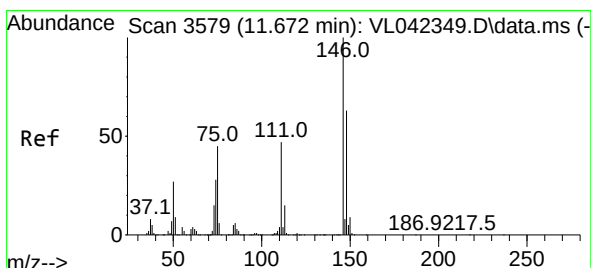
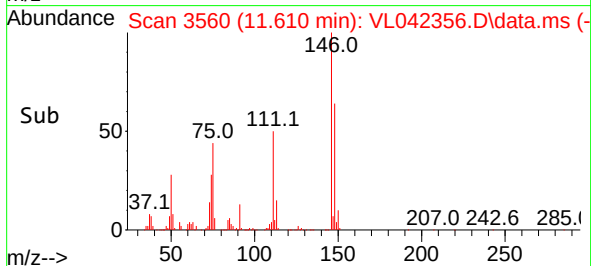
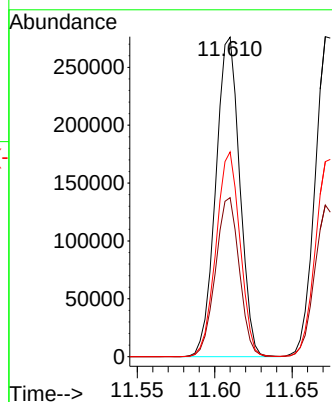
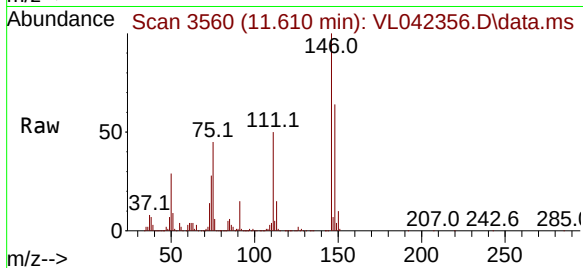
Tgt Ion:146 Resp: 297157

Ion Ratio Lower Upper

146 100

111 49.5 24.3 72.8

148 64.1 31.6 94.8



#76

1,4-Dichlorobenzene

Concen: 9.210 ppbv

RT: 11.671 min Scan# 3579

Delta R.T. -0.000 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

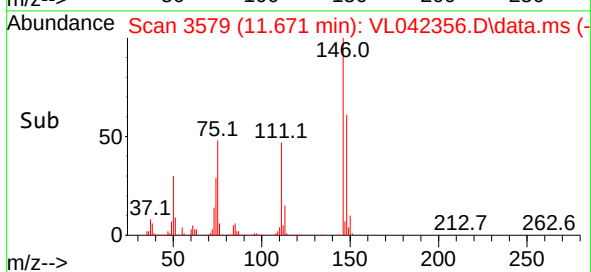
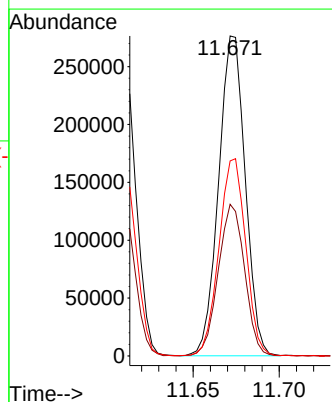
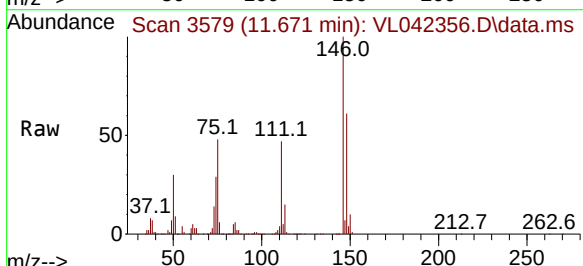
Tgt Ion:146 Resp: 297697

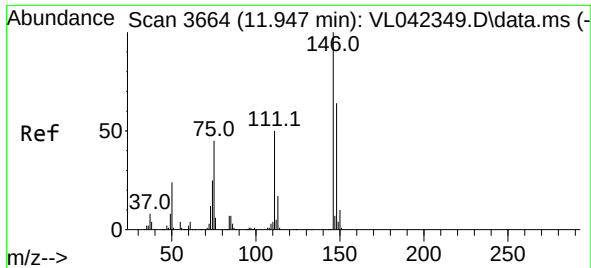
Ion Ratio Lower Upper

146 100

111 47.1 24.2 72.6

148 62.3 32.1 96.5

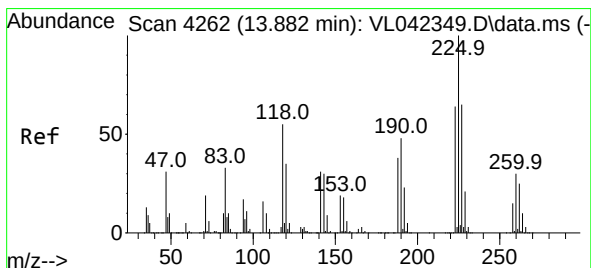
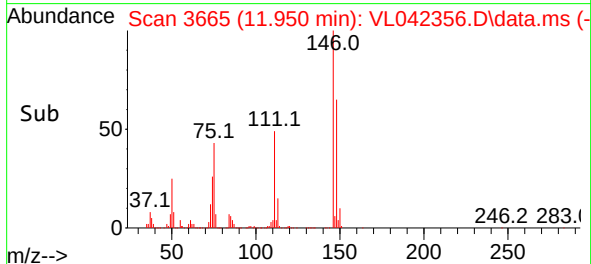
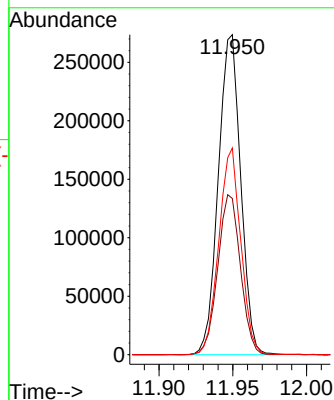
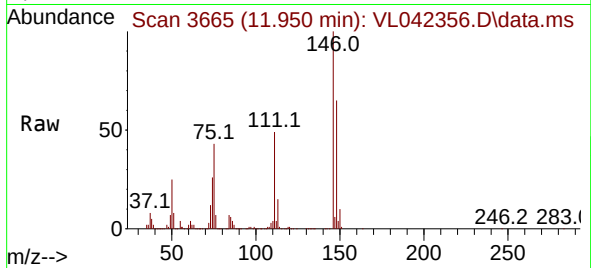




#77
1,2-Dichlorobenzene
Concen: 9.251 ppbv
RT: 11.950 min Scan# 30
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

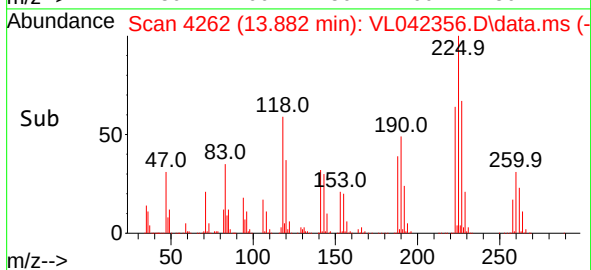
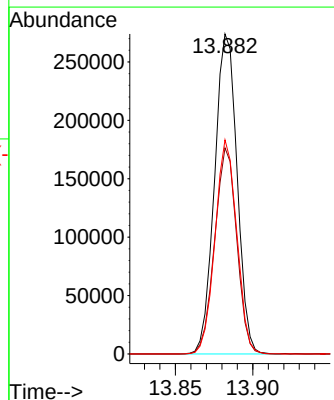
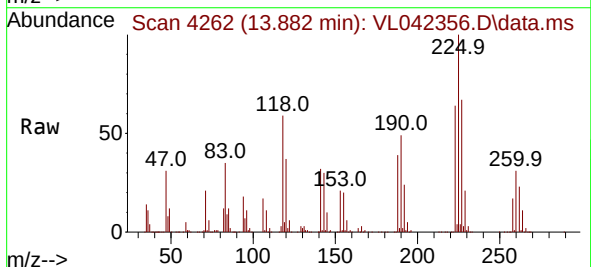
Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

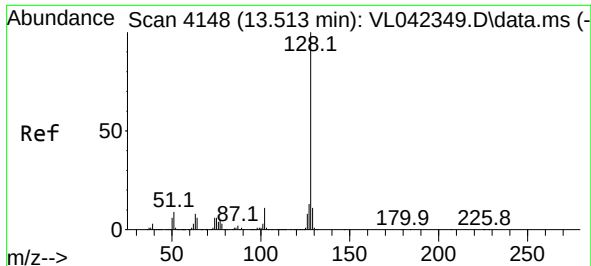
Tgt Ion:146 Resp: 289284
Ion Ratio Lower Upper
146 100
111 50.8 25.3 75.9
148 63.4 31.5 94.5



#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

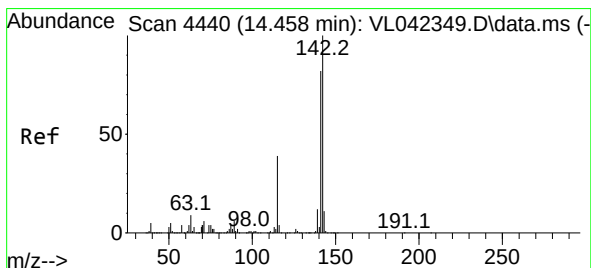
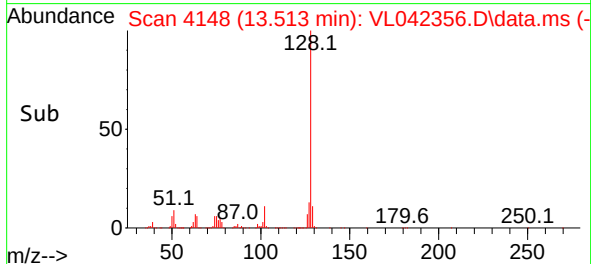
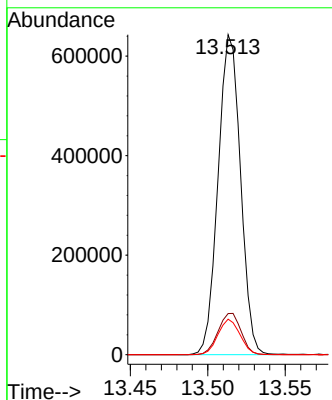
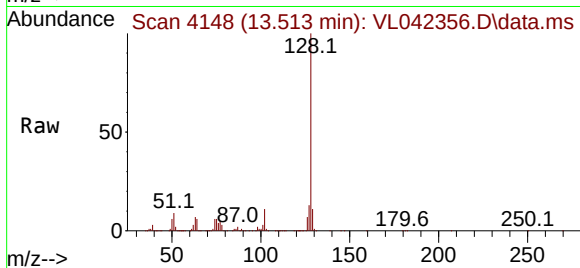




#79
Naphthalene
Concen: 8.750 ppbv
RT: 13.513 min Scan# 4148
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

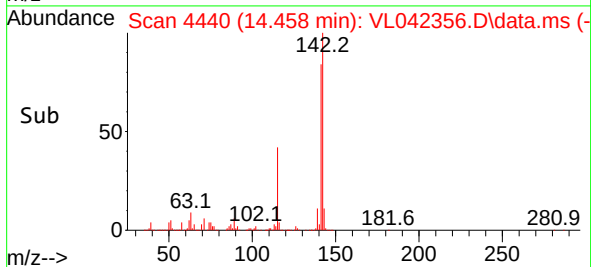
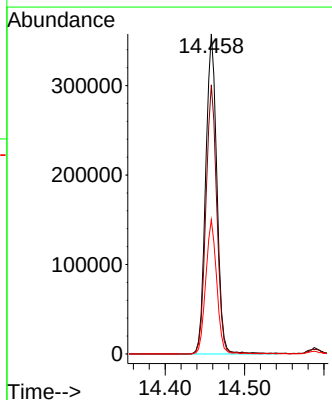
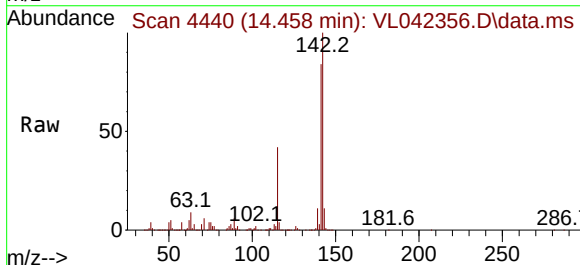
Instrument :
MSVOA_1
ClientSampleId :
ICVVL041725

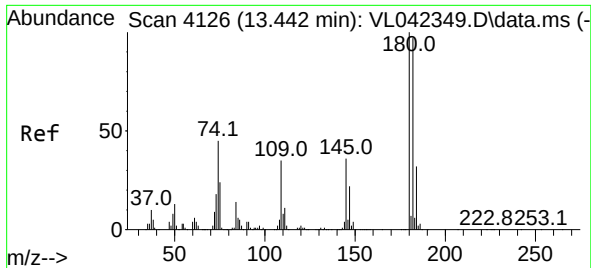
Tgt Ion:	128	Resp:	647349
Ion Ratio	Lower	Upper	
128	100		
127	12.9	10.6	15.8
129	11.1	8.6	12.8



#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

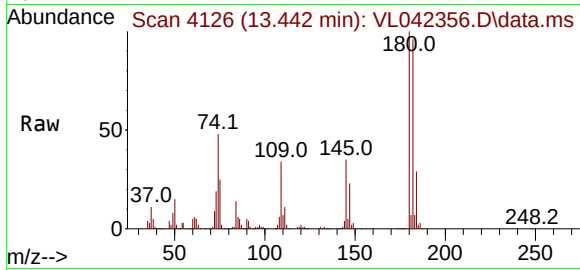
Acq: 17 Apr 2025 13:43

Instrument :

MSVOA_L

ClientSampleId :

ICVVL041725



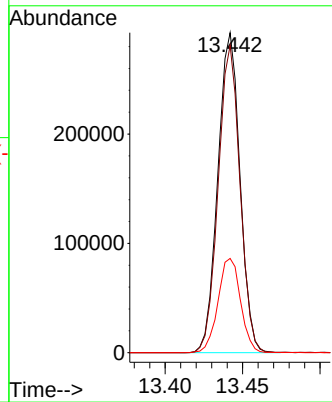
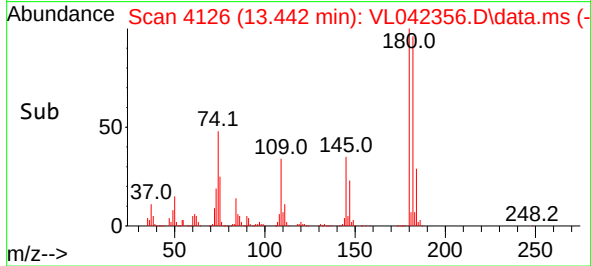
Tgt Ion:180 Resp: 290260

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

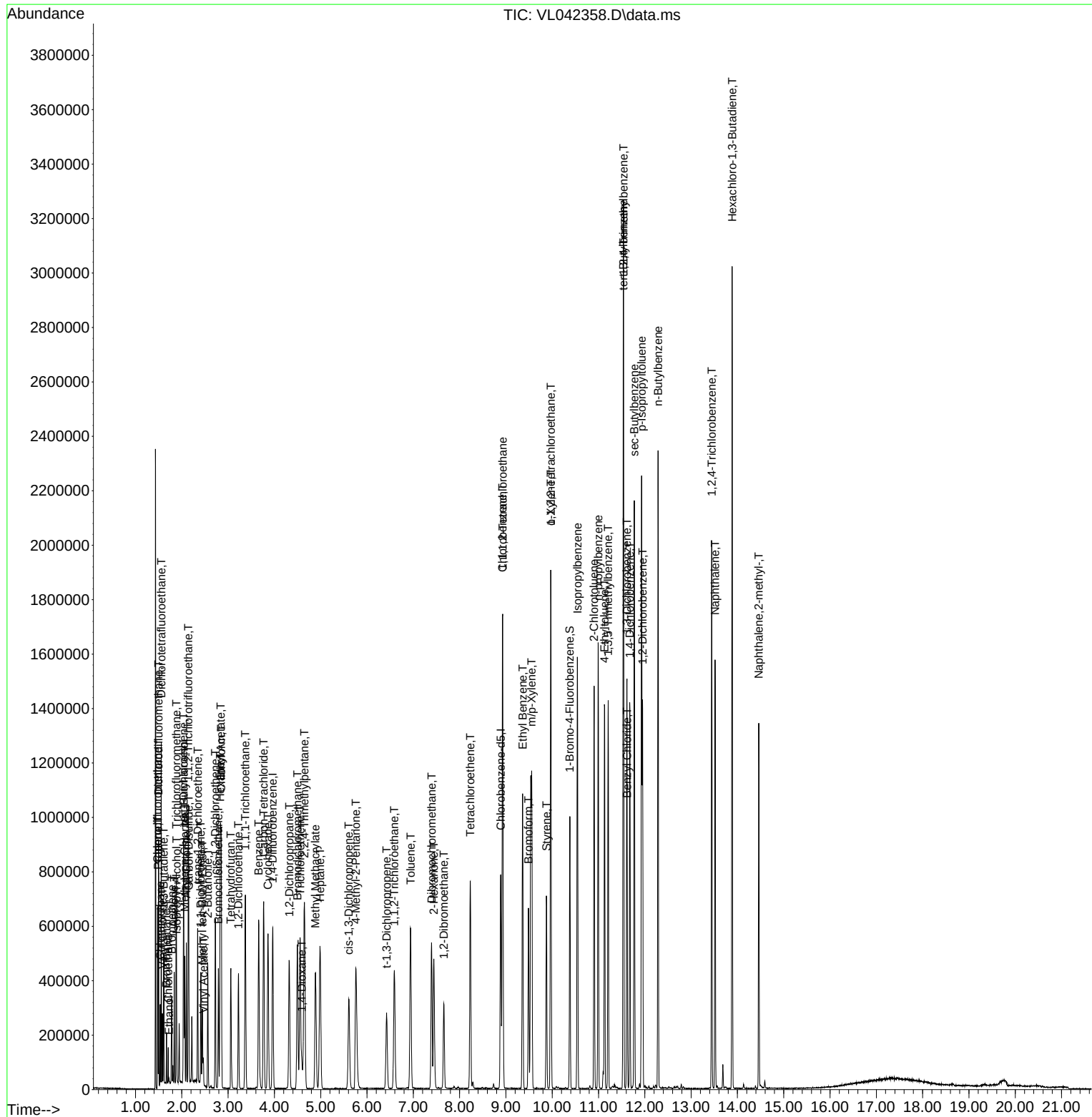
Quant Time: Apr 18 02:36:58 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 02:14:00 2025
 Response via : Initial Calibration

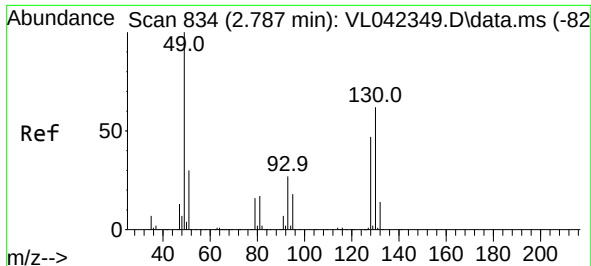
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.606	75	216901	10.133	ppbv	91
47) 1,1,2-Trichloroethane	6.590	97	146547	10.161	ppbv	96
48) Dibromochloromethane	7.396	129	261470	10.261	ppbv	100
49) Bromoform	9.487	173	221372	9.936	ppbv	99
50) 4-Methyl-2-Pentanone	5.758	43	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

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_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

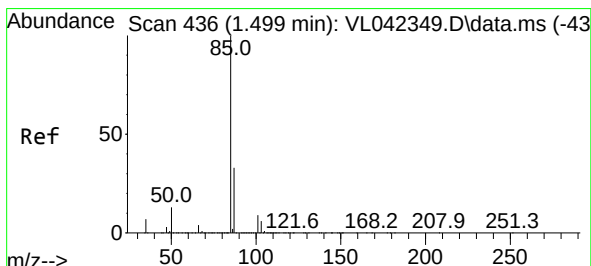
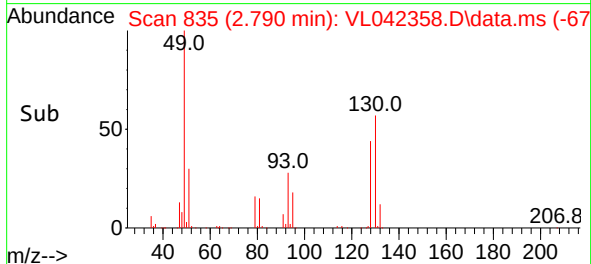
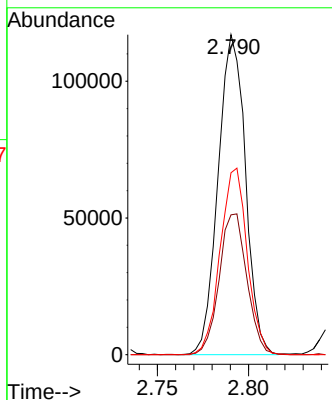
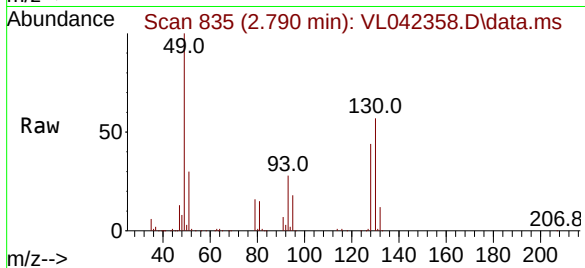




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 834
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

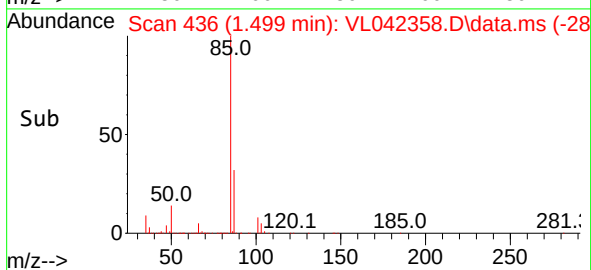
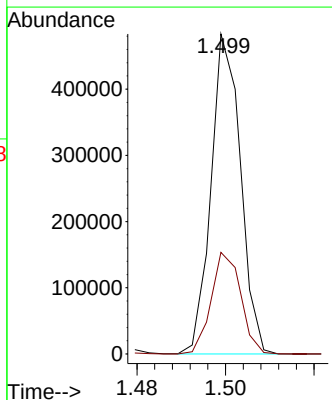
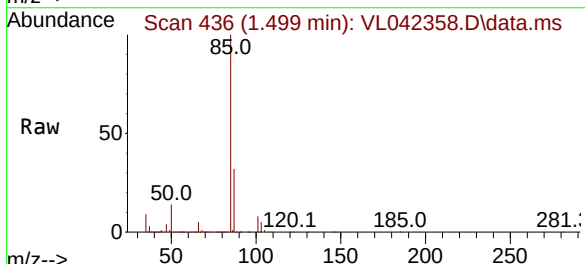
Instrument :
MSVOA_1
ClientSampleId :
VL0417ABS01

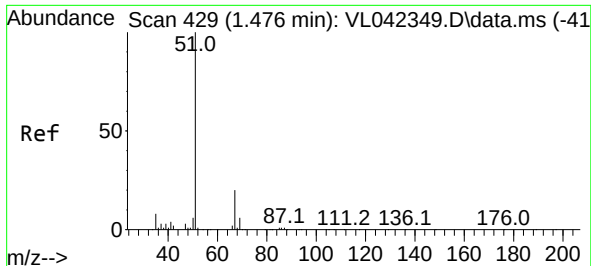
Tgt Ion: 49 Resp: 122375
Ion Ratio Lower Upper
49 100
128 44.5 22.8 68.4
130 57.6 29.3 88.0



#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

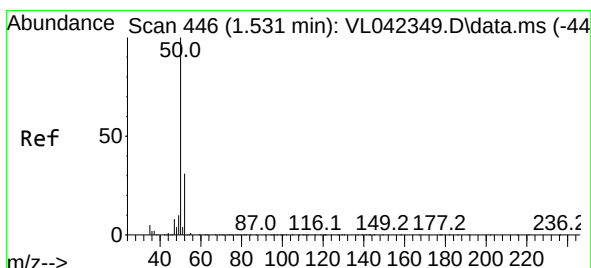
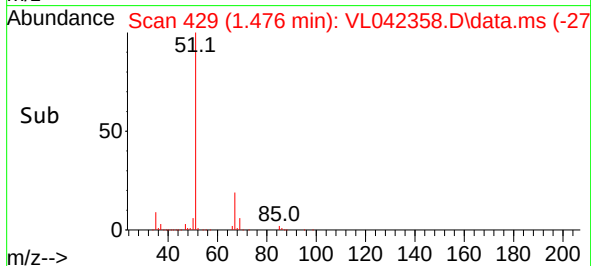
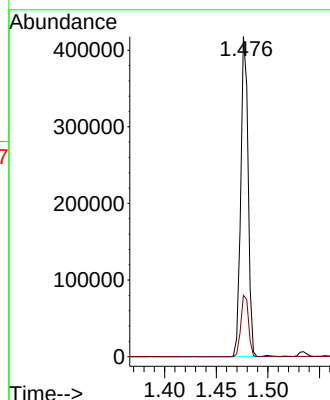
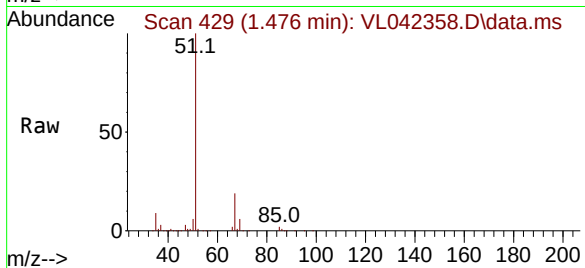




#3
Chlorodifluoromethane
Concen: 10.014 ppbv
RT: 1.476 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

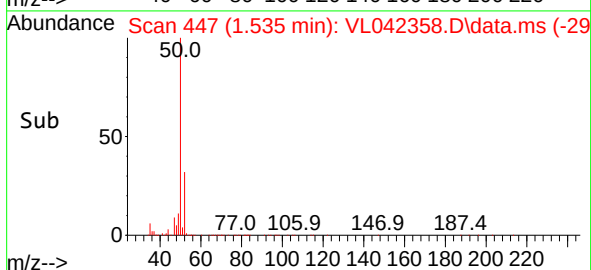
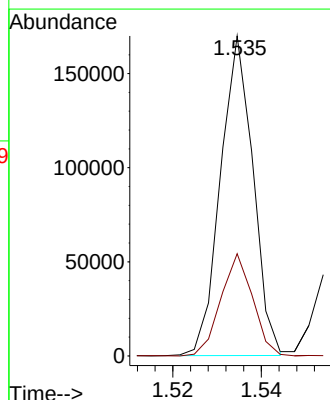
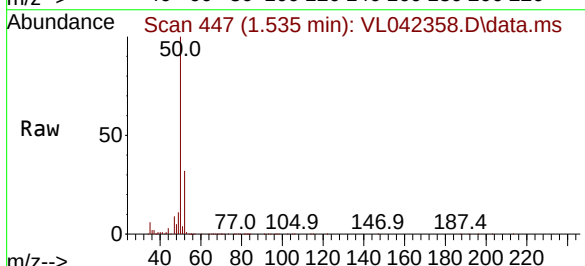
Instrument :
MSVOA_1
ClientSampleId :
VL0417ABS01

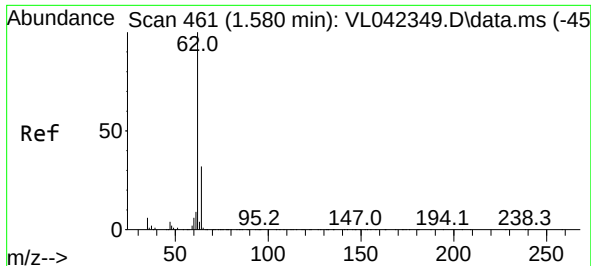
Tgt Ion: 51 Resp: 206172
Ion Ratio Lower Upper
51 100
67 20.2 16.2 24.4



#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

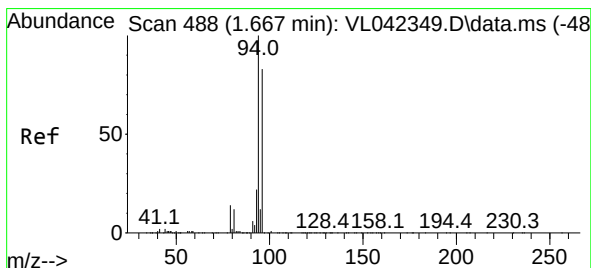
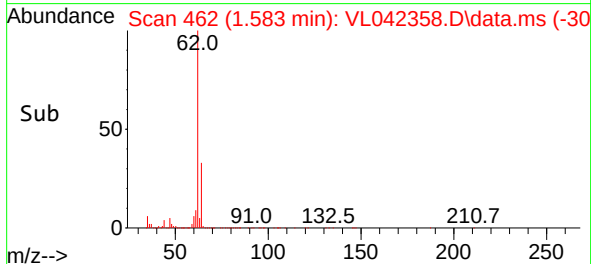
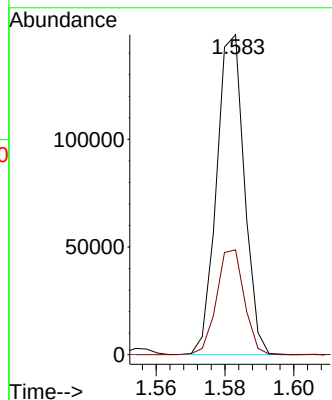
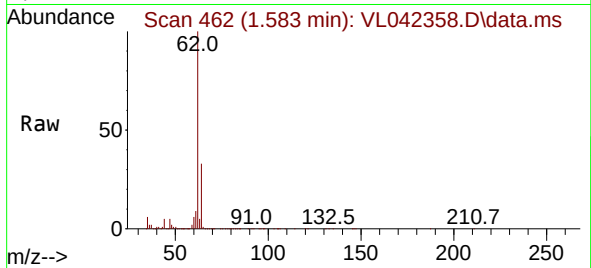




#5
 Vinyl Chloride
 Concen: 8.956 ppbv
 RT: 1.583 min Scan# 461
 Delta R.T. 0.003 min
 Lab File: VL042358.D
 Acq: 17 Apr 2025 15:39

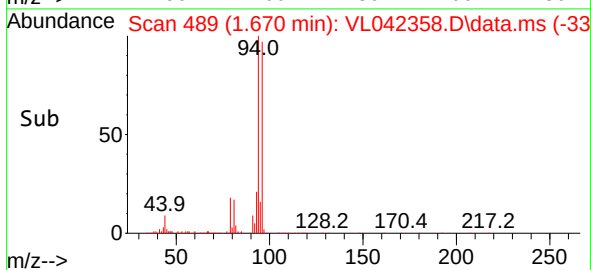
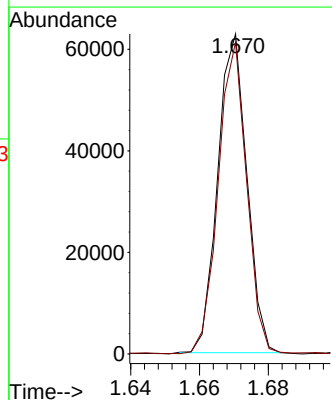
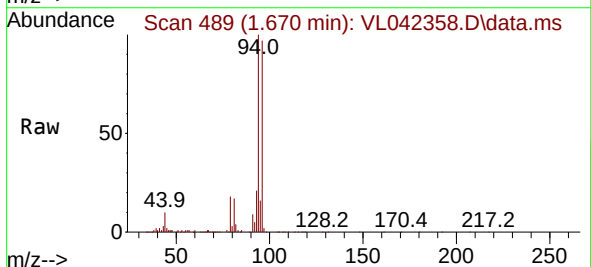
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0417ABS01

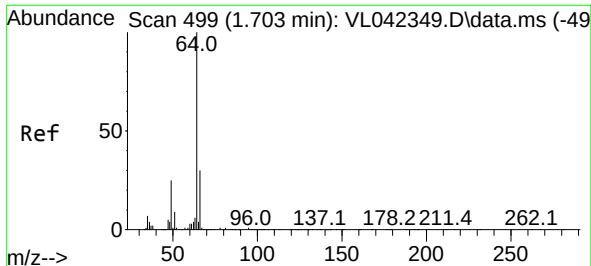
Tgt Ion: 62 Resp: 83419
 Ion Ratio Lower Upper
 62 100
 64 32.8 25.4 38.0



#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

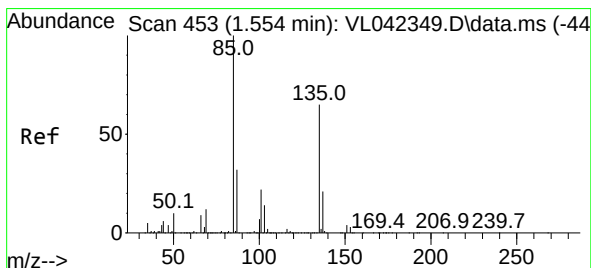
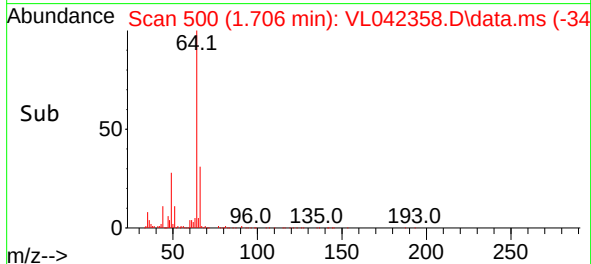
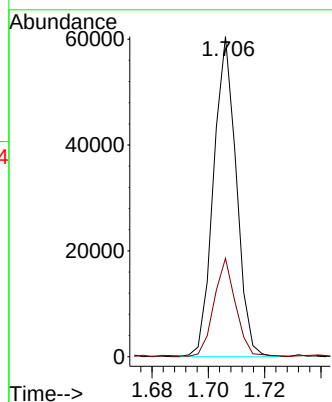
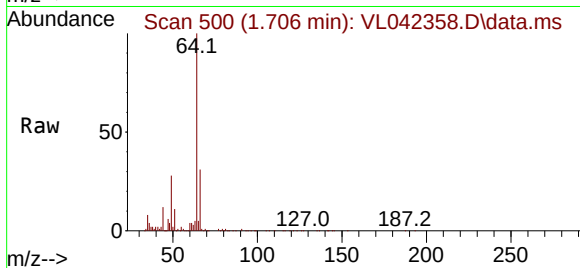




#7
Chloroethane
Concen: 10.075 ppbv
RT: 1.706 min Scan# 50
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

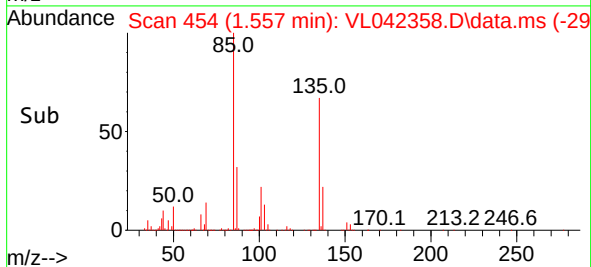
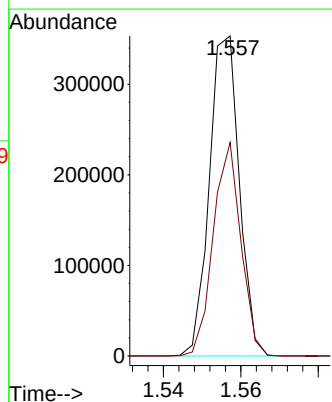
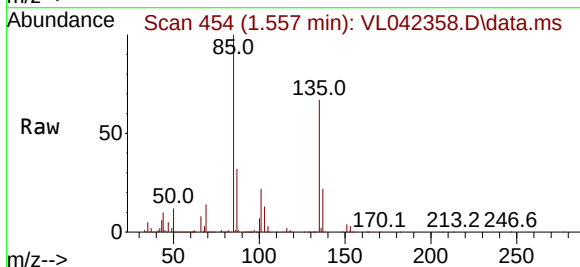
Instrument :
MSVOA_1
ClientSampleId :
VL0417ABS01

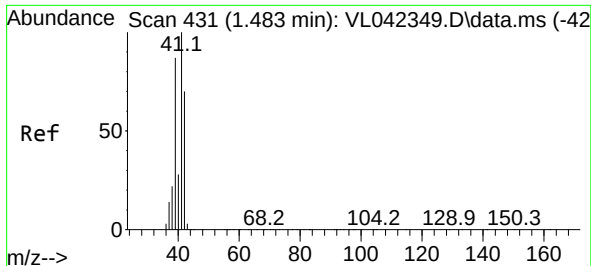
Tgt Ion: 64 Resp: 33936
Ion Ratio Lower Upper
64 100
66 30.7 24.6 37.0



#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

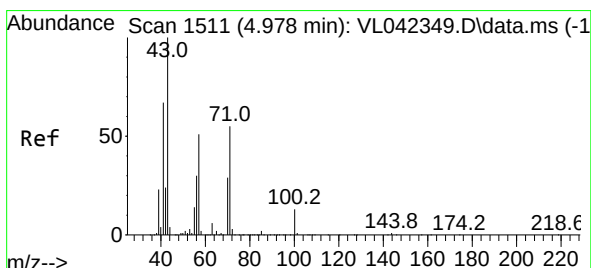
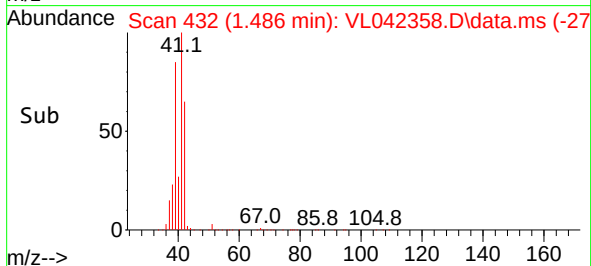
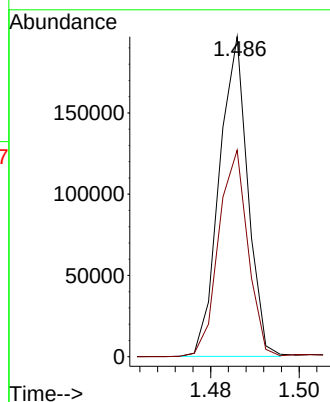
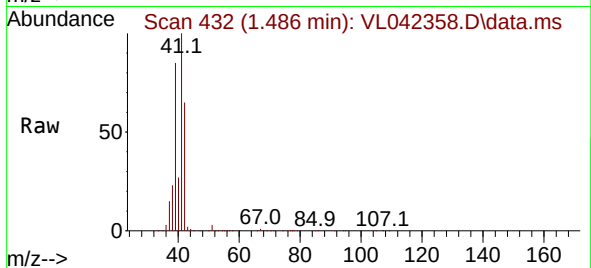




#9
Propene
Concen: 9.395 ppbv
RT: 1.486 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

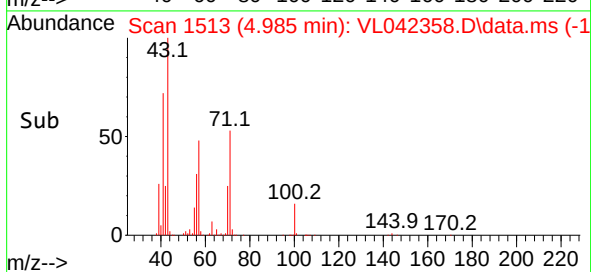
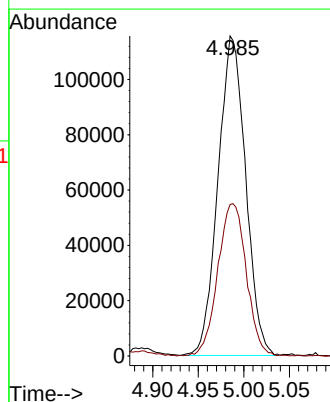
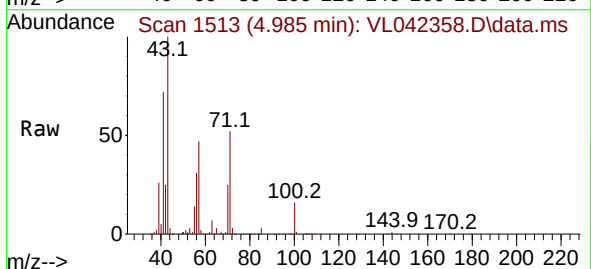
Instrument :
MSVOA_1
ClientSampleId :
VL0417ABS01

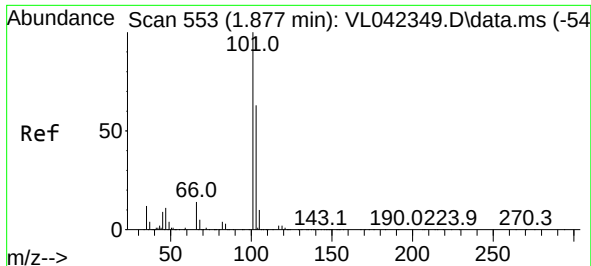
Tgt Ion: 41 Resp: 88088
Ion Ratio Lower Upper
41 100
42 68.4 56.2 84.4



#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

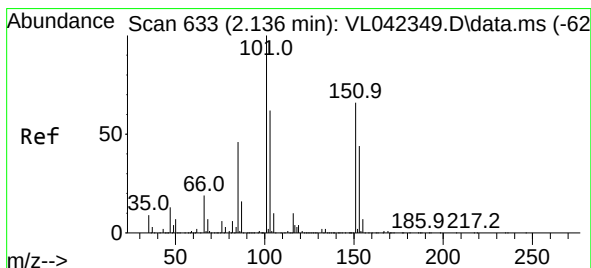
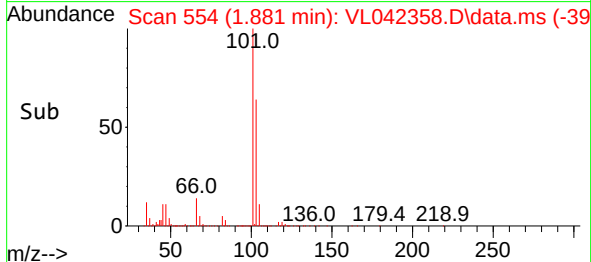
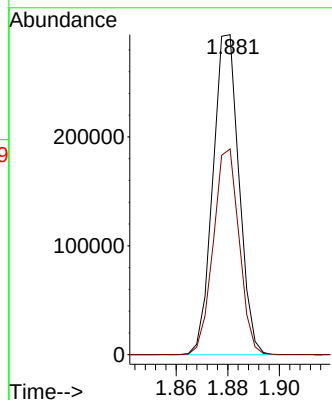
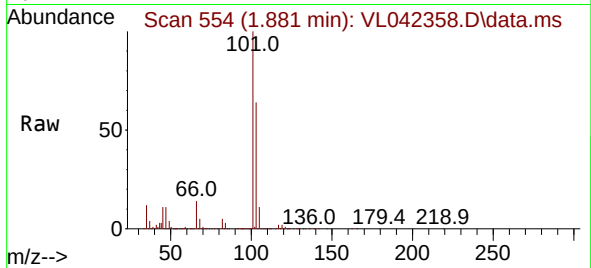




#11
Trichlorofluoromethane
Concen: 10.050 ppbv
RT: 1.881 min Scan# 511
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

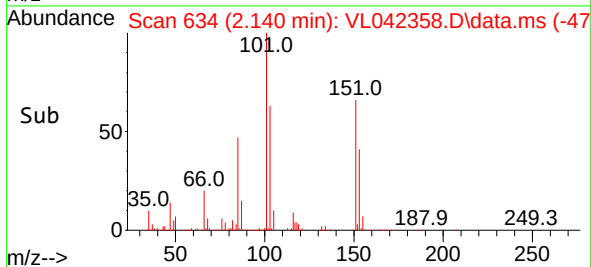
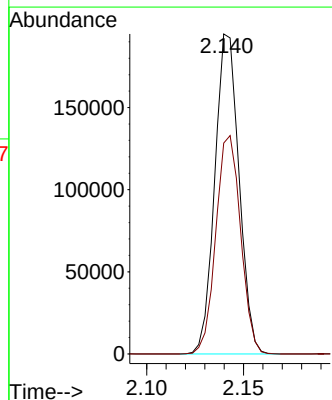
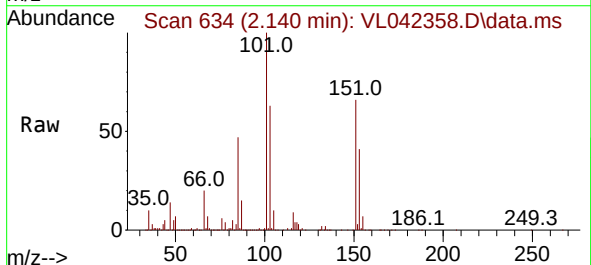
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

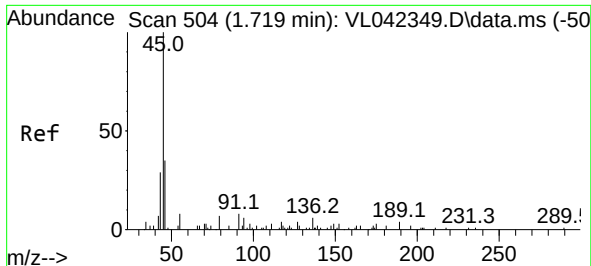
Tgt Ion:101 Resp: 206645
Ion Ratio Lower Upper
101 100
103 64.3 50.1 75.1



#12
1,1,2-Trichlorotrifluoroethane
Concen: 10.083 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:101 Resp: 169501
Ion Ratio Lower Upper
101 100
151 69.6 57.0 85.6





#13

Ethanol

Concen: 3.246 ppbv

RT: 1.722 min Scan# 504

Delta R.T. 0.003 min

Lab File: VL042358.D

Acq: 17 Apr 2025 15:39

Instrument :

MSVOA_L

ClientSampleId :

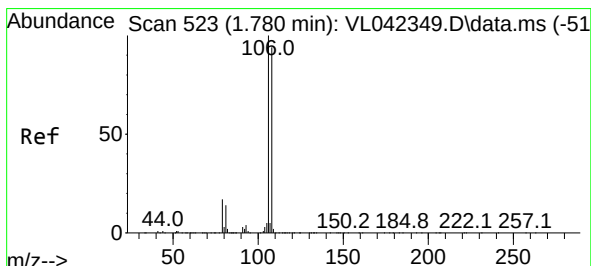
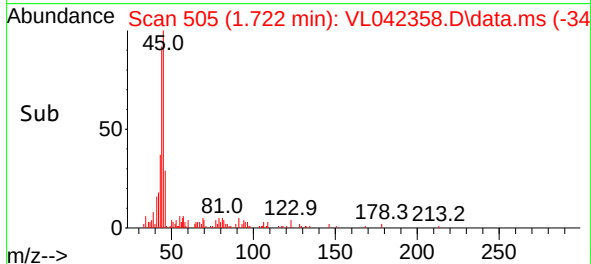
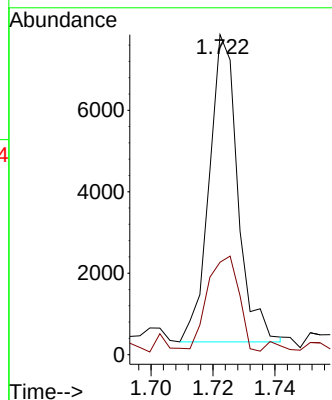
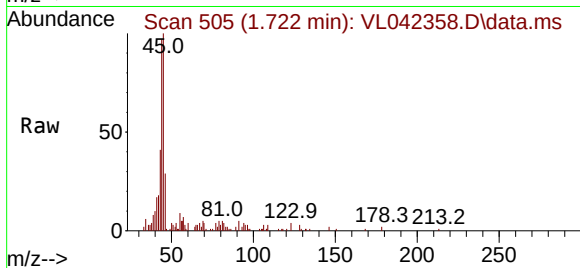
VL0417ABS01

Tgt Ion: 45 Resp: 4837

Ion Ratio Lower Upper

45 100

46 45.8 21.9 87.7



#14

Bromoethene

Concen: 9.818 ppbv

RT: 1.784 min Scan# 524

Delta R.T. 0.003 min

Lab File: VL042358.D

Acq: 17 Apr 2025 15:39

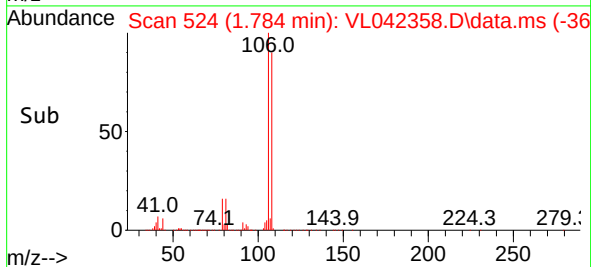
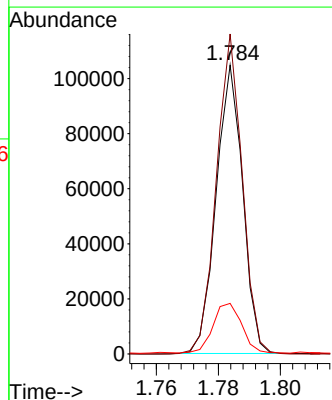
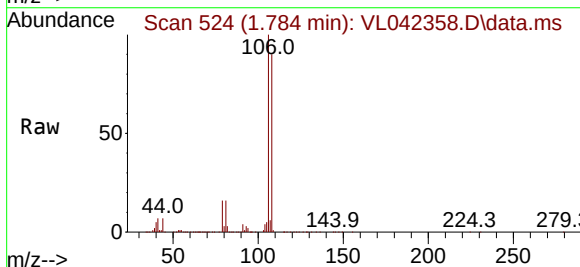
Tgt Ion: 108 Resp: 62214

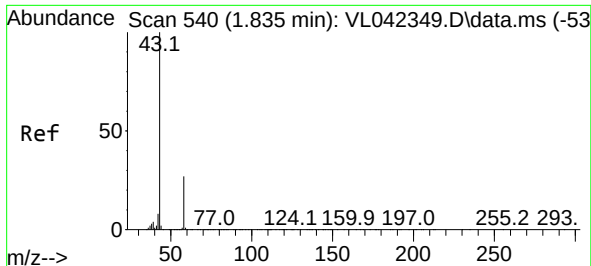
Ion Ratio Lower Upper

108 100

106 108.2 85.9 128.9

79 20.6 13.9 20.9

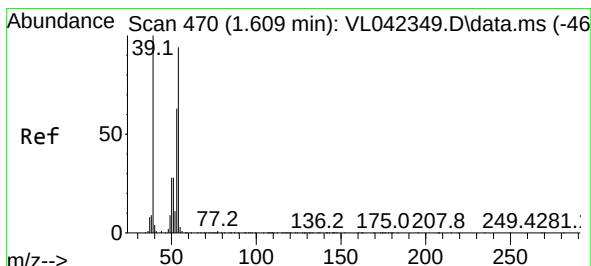
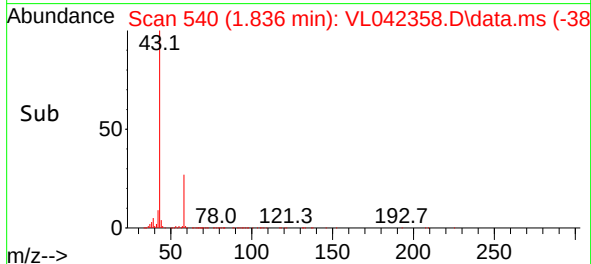
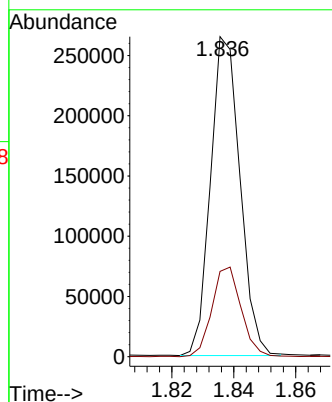
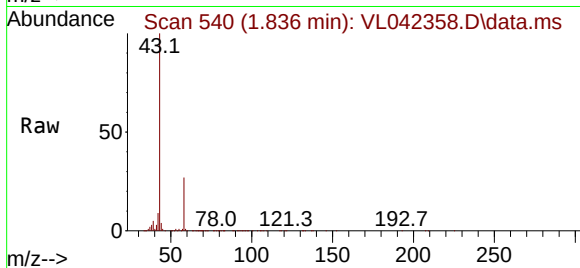




#15
Acetone
Concen: 8.743 ppbv
RT: 1.836 min Scan# 54
Delta R.T. 0.000 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

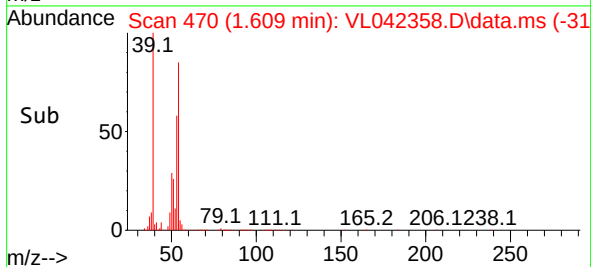
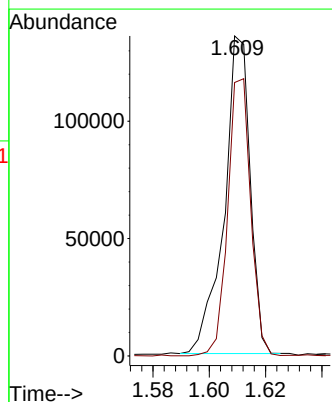
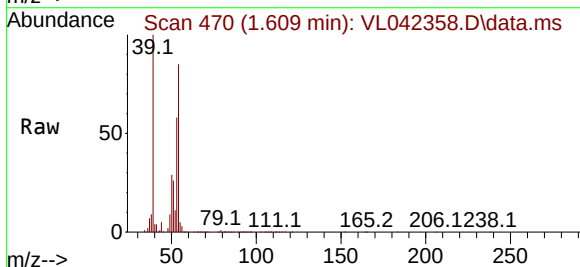
Instrument :
MSVOA_1
ClientSampleId :
VL0417ABS01

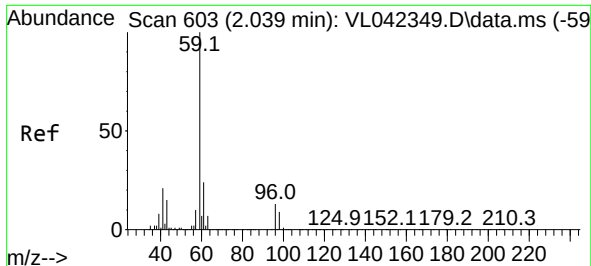
Tgt Ion: 43 Resp: 175153
Ion Ratio Lower Upper
43 100
58 27.9 22.4 33.6



#16
1,3-Butadiene
Concen: 9.076 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.000 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 39 Resp: 86965
Ion Ratio Lower Upper
39 100
54 77.9 64.9 97.3





#17

tert-Butyl alcohol

Concen: 9.754 ppbv

RT: 2.043 min Scan# 603

Delta R.T. 0.003 min

Lab File: VL042358.D

Acq: 17 Apr 2025 15:39

Instrument :

MSVOA_L

ClientSampleId :

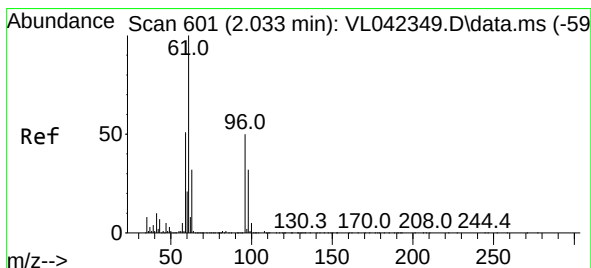
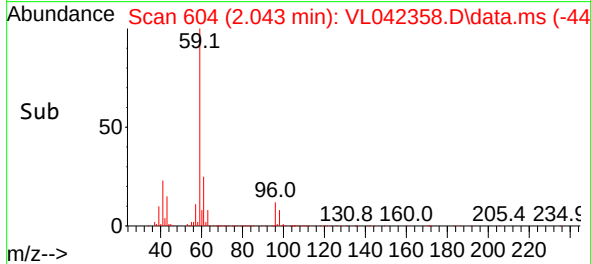
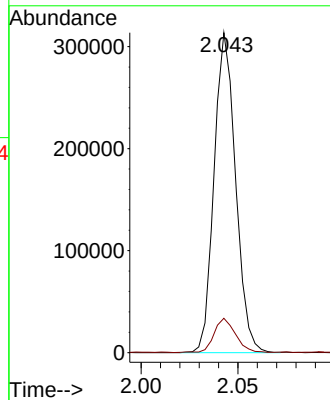
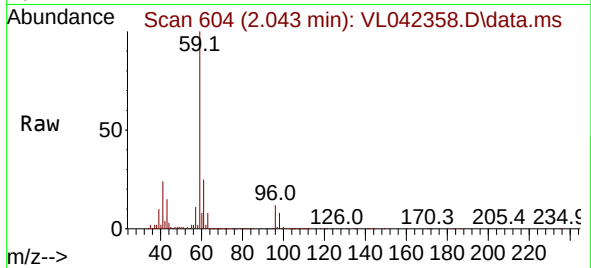
VL0417ABS01

Tgt Ion: 59 Resp: 242154

Ion Ratio Lower Upper

59 100

57 10.9 8.7 13.1



#18

1,1-Dichloroethene

Concen: 9.836 ppbv

RT: 2.036 min Scan# 602

Delta R.T. 0.003 min

Lab File: VL042358.D

Acq: 17 Apr 2025 15:39

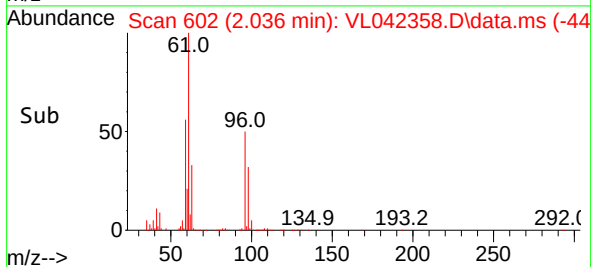
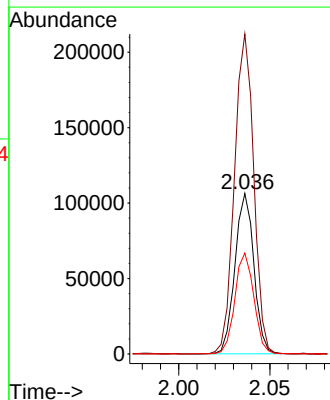
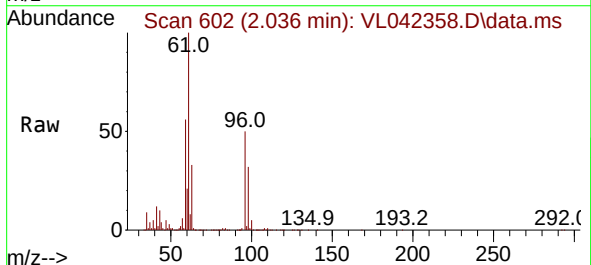
Tgt Ion: 96 Resp: 77247

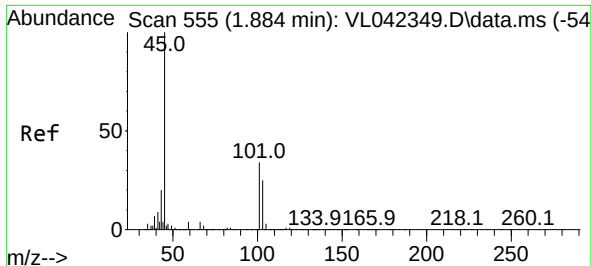
Ion Ratio Lower Upper

96 100

61 199.6 160.2 240.2

98 63.0 51.0 76.4

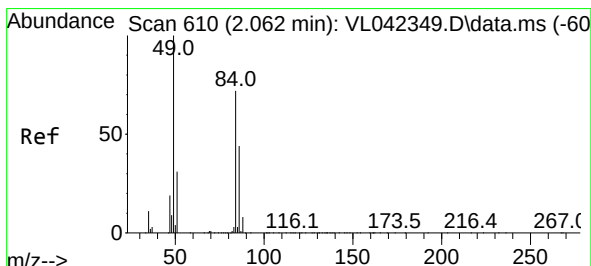
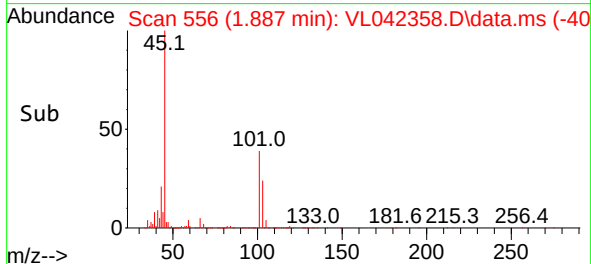
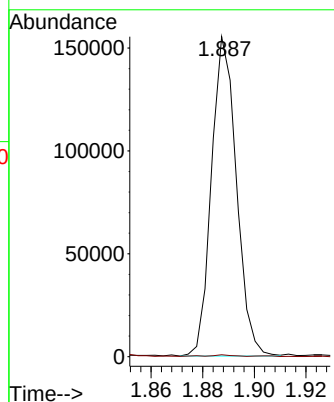
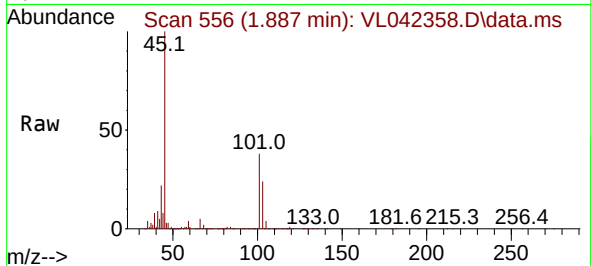




#19
Isopropyl Alcohol
Concen: 9.356 ppbv
RT: 1.887 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

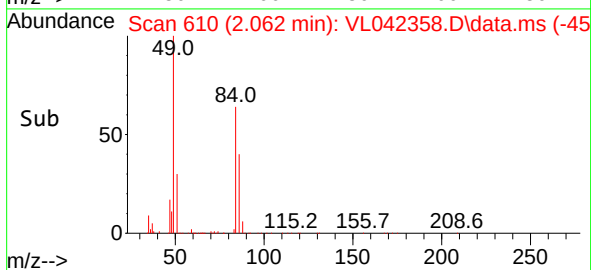
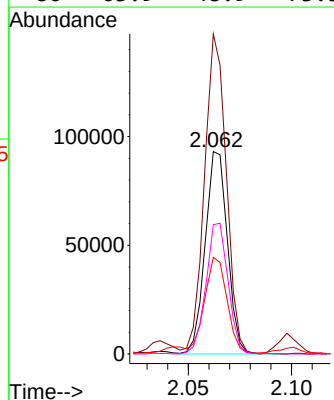
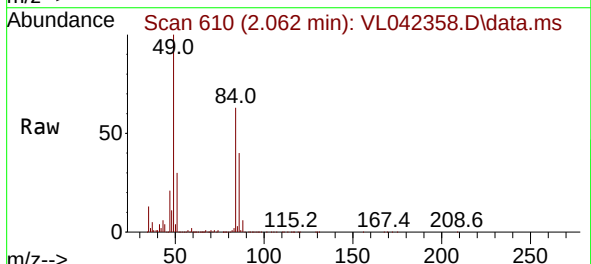
Instrument :
MSVOA_1
ClientSampleId :
VL0417ABS01

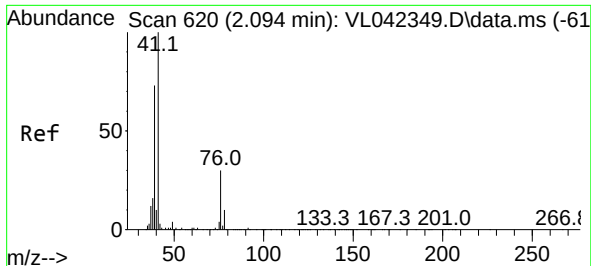
Tgt Ion: 45 Resp: 104123
Ion Ratio Lower Upper
45 100
58 46.9 34.5 51.7



#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

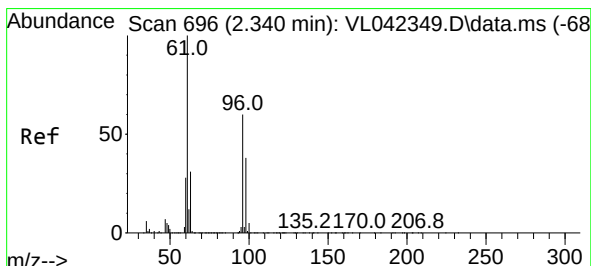
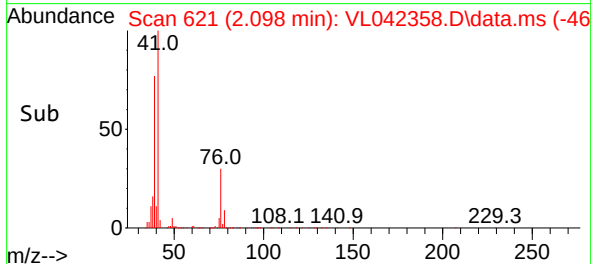
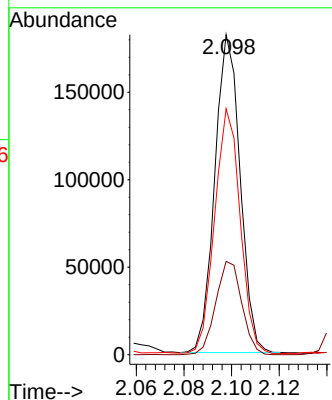
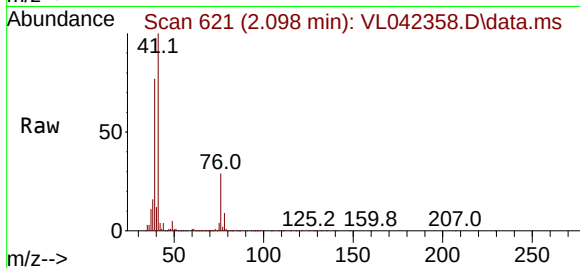




#21
Allyl Chloride
Concen: 9.704 ppbv
RT: 2.098 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

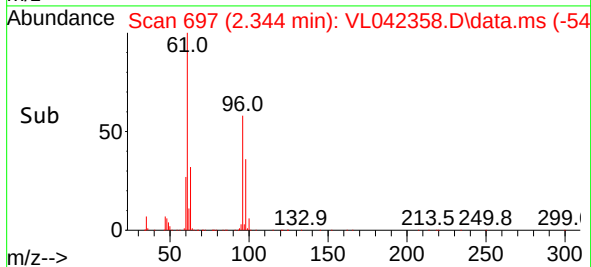
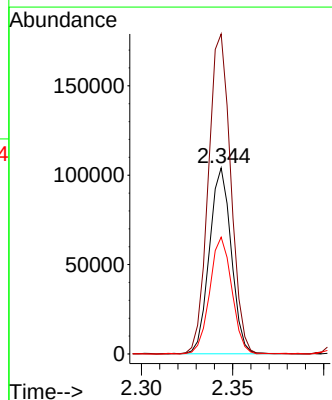
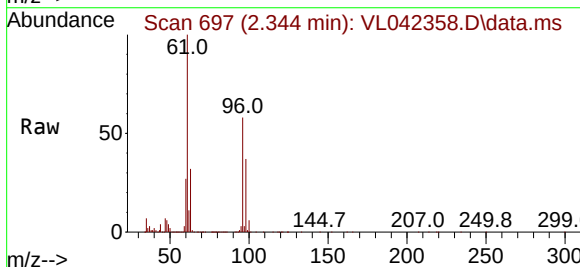
Instrument :
MSVOA_1
ClientSampleId :
VL0417ABS01

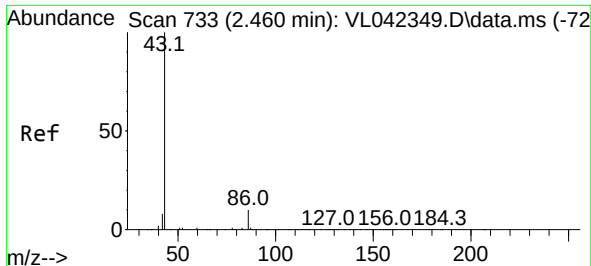
Tgt Ion: 41 Resp: 134221
Ion Ratio Lower Upper
41 100
76 30.1 24.8 37.2
39 76.8 60.6 90.8



#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

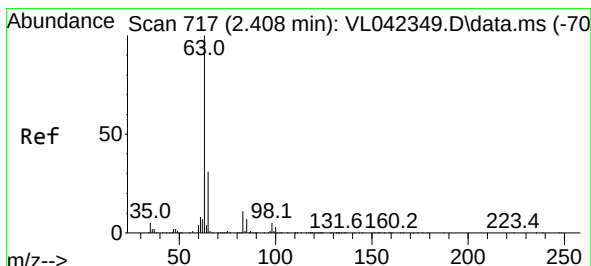
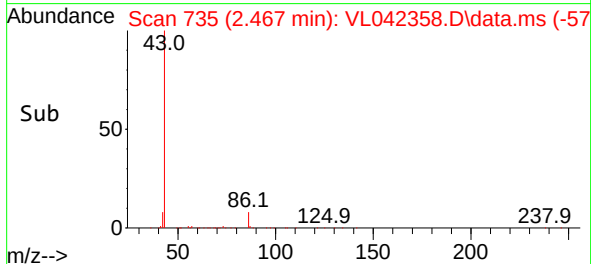
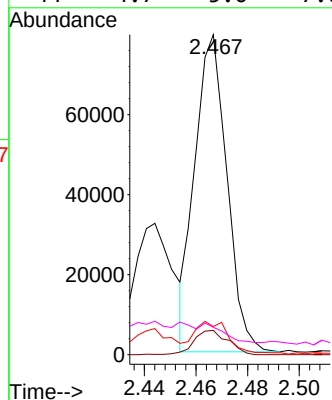
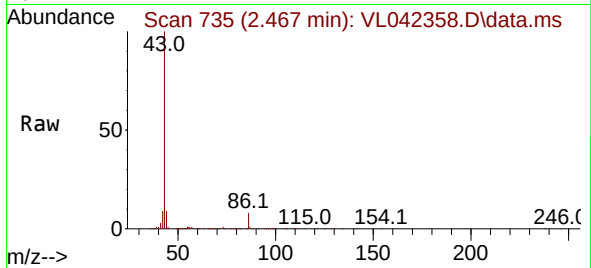




#23
Vinyl Acetate
Concen: 8.427 ppbv
RT: 2.467 min Scan# 718
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

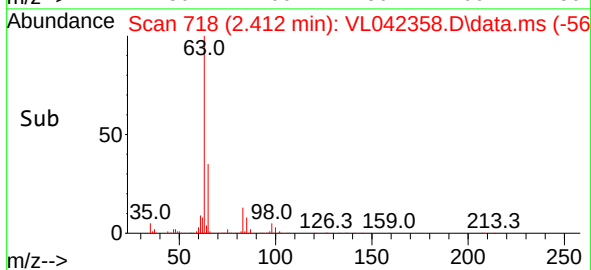
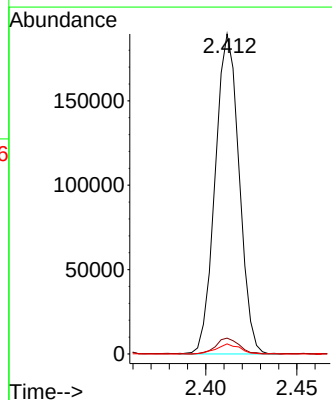
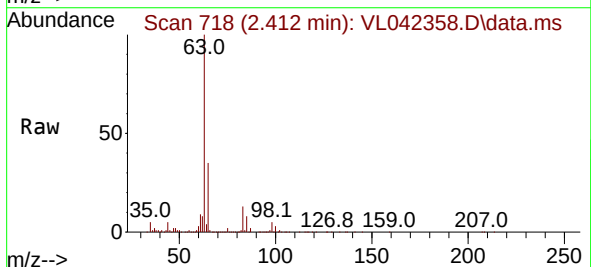
Instrument :
MSVOA_1
ClientSampleId :
VL0417ABS01

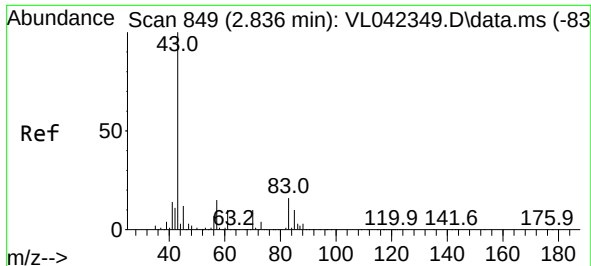
Tgt Ion:	43	Resp:	68337
Ion	Ratio	Lower	Upper
43	100		
86	7.7	6.5	9.7
42	8.3	7.8	11.8
44	4.7	5.0	7.6



#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



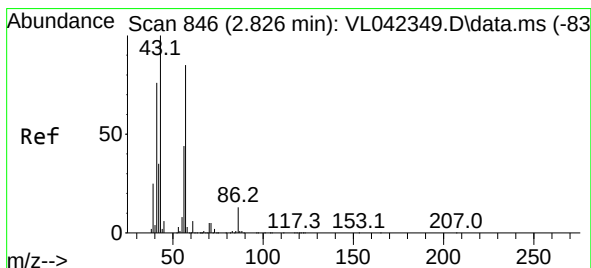
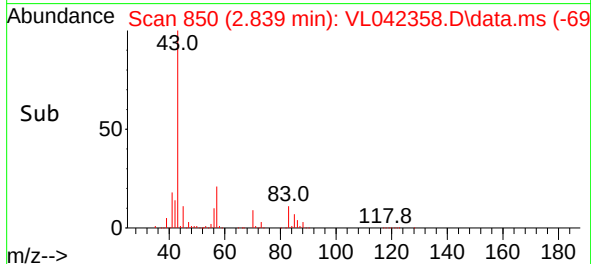
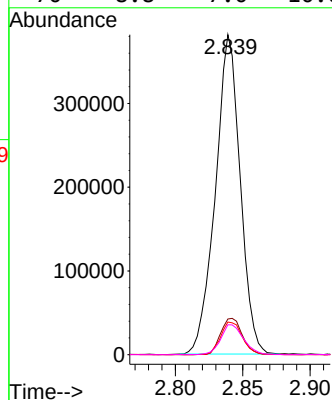
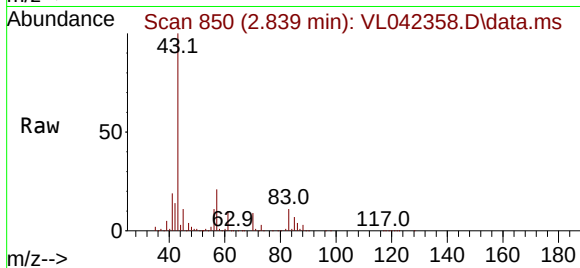


#25
Ethyl Acetate
Concen: 9.894 ppbv
RT: 2.839 min Scan# 849
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Tgt Ion: 43 Resp: 488686

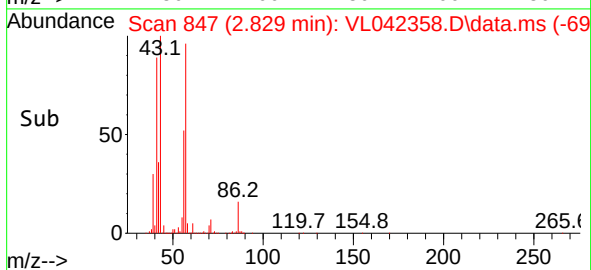
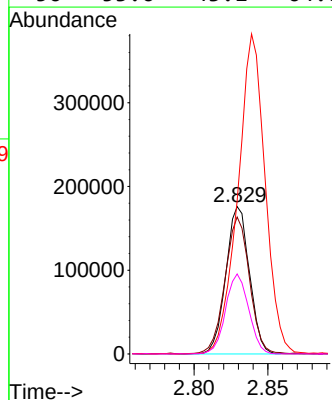
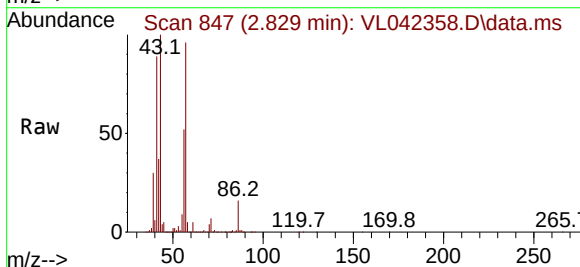
Ion	Ratio	Lower	Upper
43	100		
45	10.1	8.3	12.5
61	9.0	7.3	10.9
70	8.8	7.0	10.6

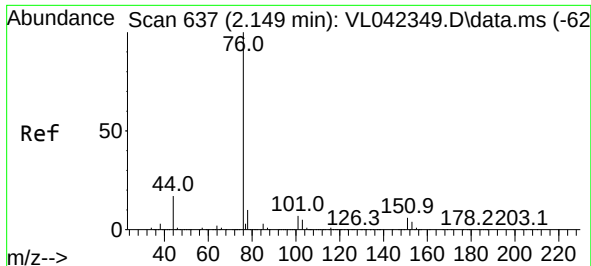


#26
Hexane
Concen: 9.761 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

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

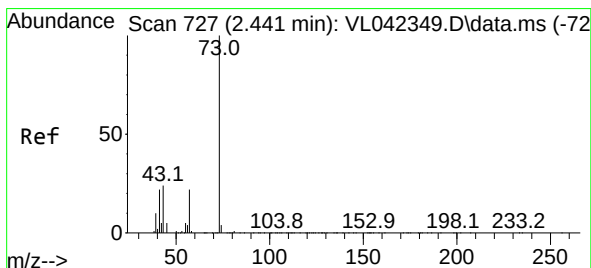
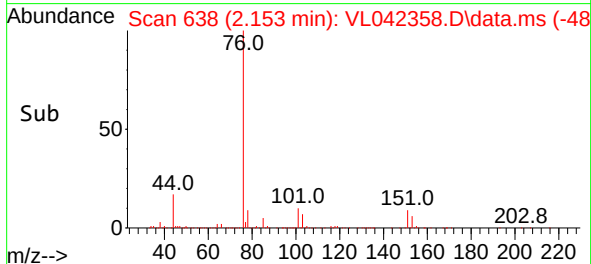
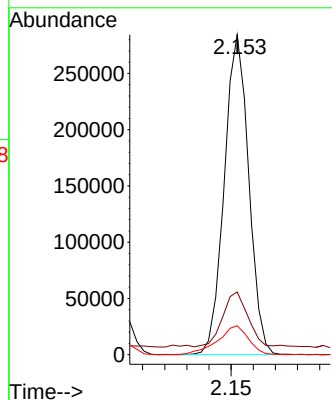
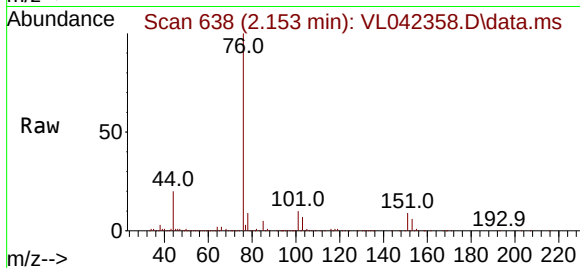




#27
Carbon Disulfide
Concen: 10.202 ppbv
RT: 2.153 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

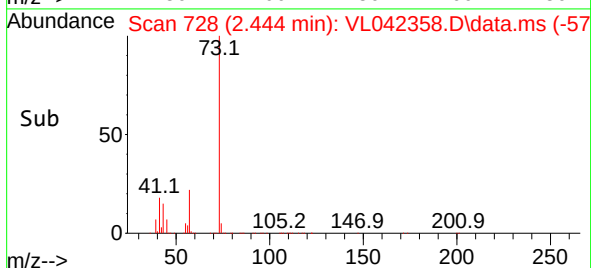
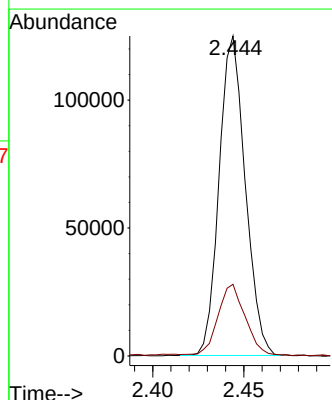
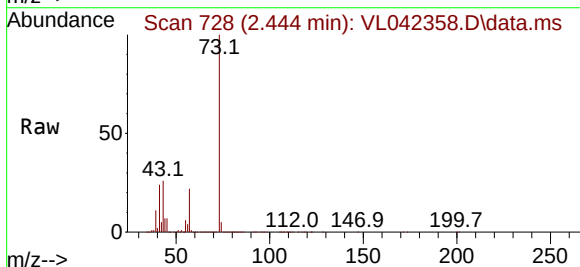
Instrument :
MSVOA_1
ClientSampleId :
VL0417ABS01

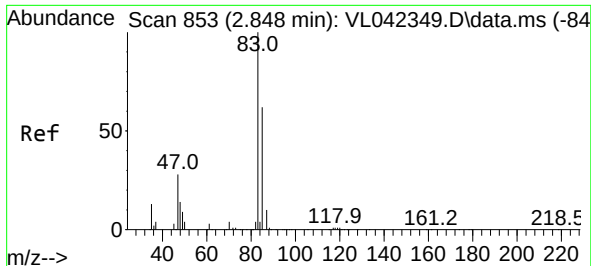
Tgt Ion: 76 Resp: 218345
Ion Ratio Lower Upper
76 100
44 21.6 15.5 23.3
78 11.4 9.3 13.9



#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 :

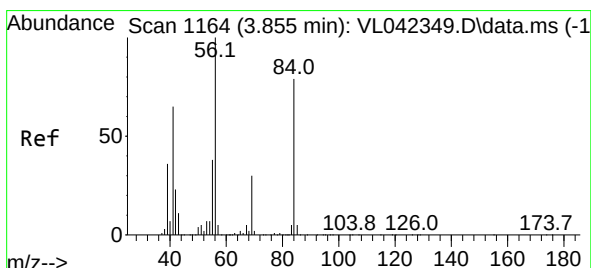
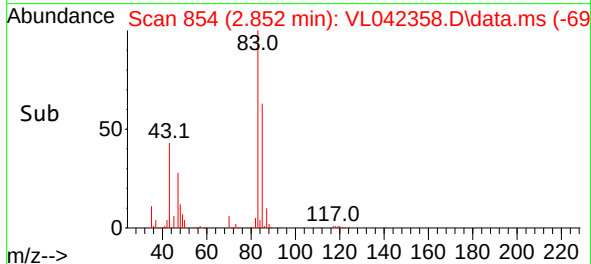
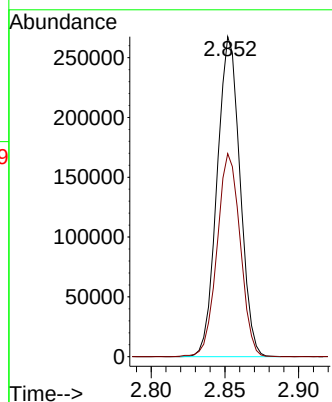
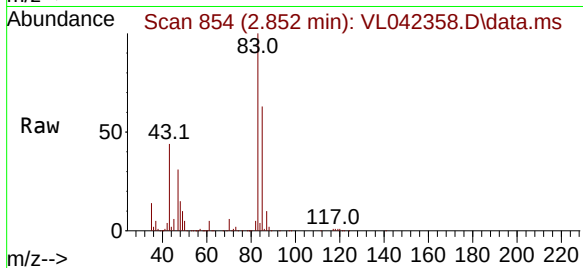
VL0417ABS01

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

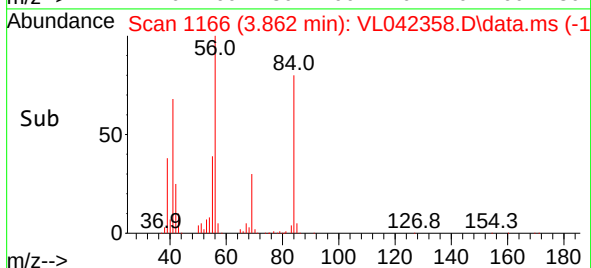
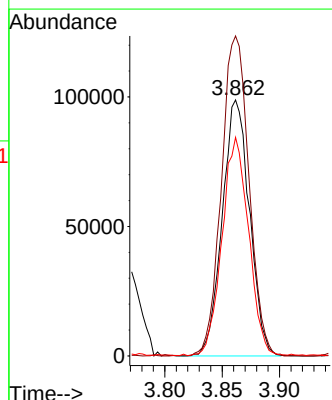
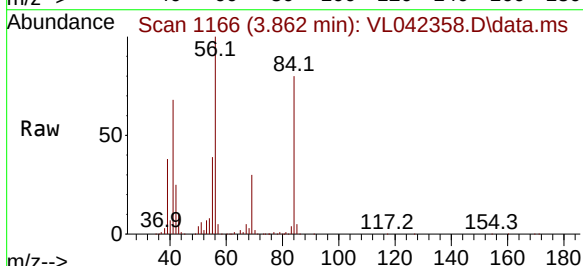
Tgt Ion: 84 Resp: 163017

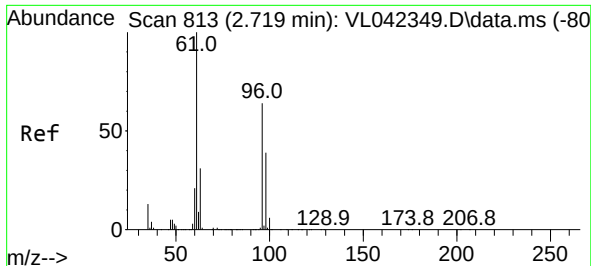
Ion Ratio Lower Upper

84 100

56 126.7 101.0 151.4

41 83.8 67.4 101.0

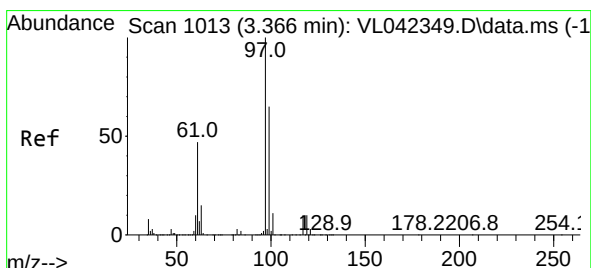
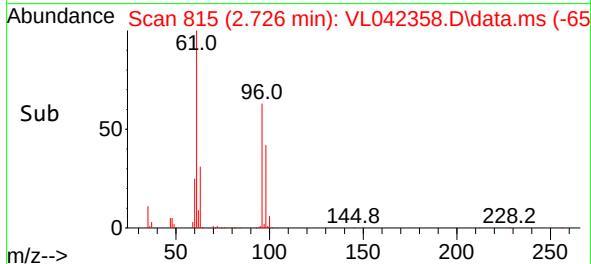
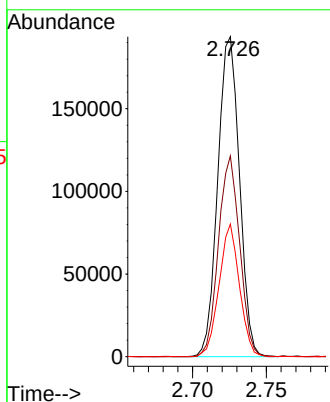
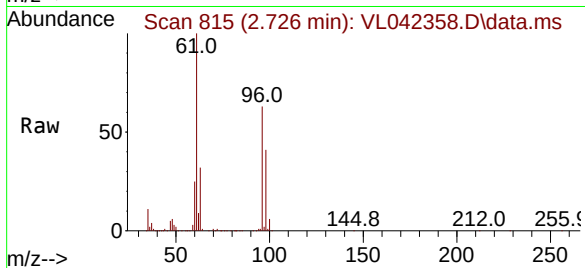




#31
 cis-1,2-Dichloroethene
 Concen: 10.424 ppbv
 RT: 2.726 min Scan# 81
 Delta R.T. 0.007 min
 Lab File: VL042358.D
 Acq: 17 Apr 2025 15:39

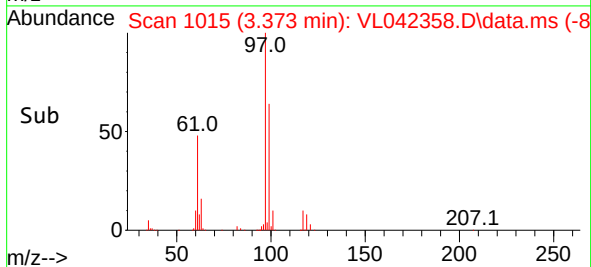
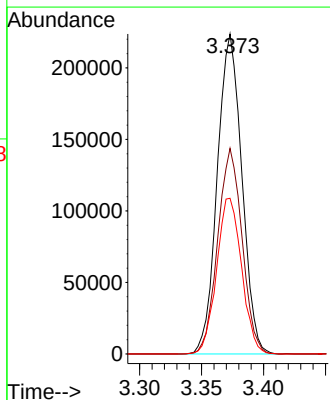
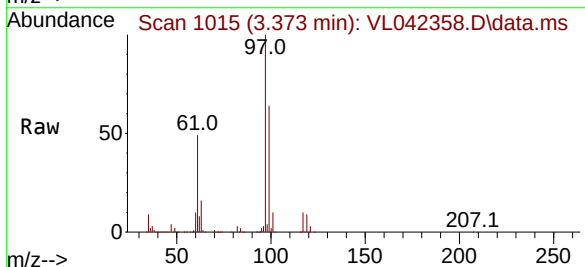
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0417ABS01

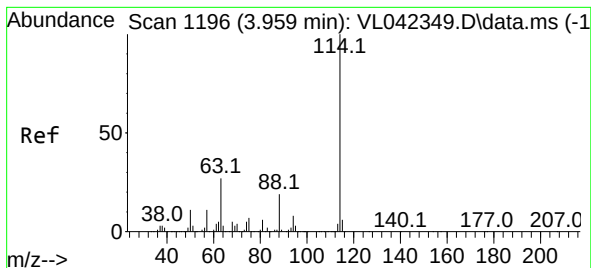
Tgt Ion: 61 Resp: 198108
 Ion Ratio Lower Upper
 61 100
 96 62.8 50.8 76.2
 98 41.4 30.9 46.3



#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

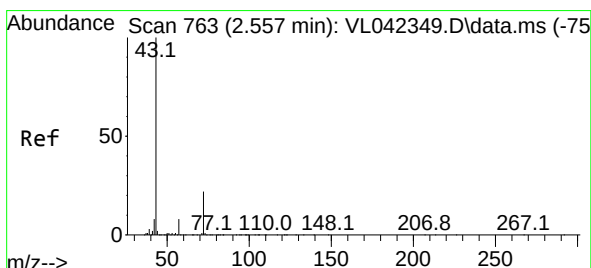
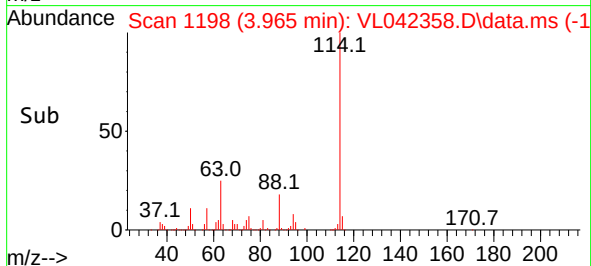
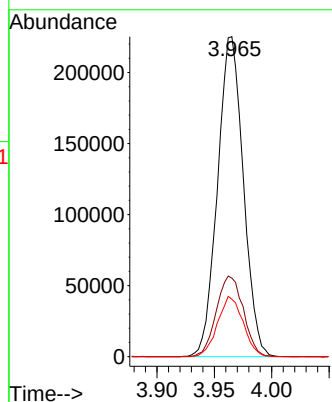
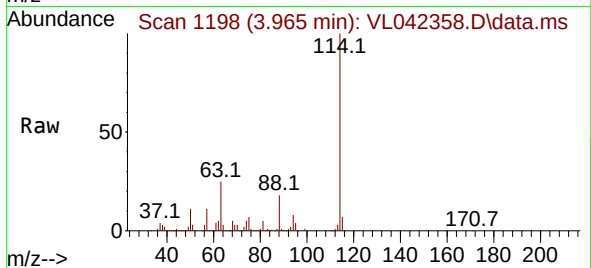
Tgt Ion:114 Resp: 352201

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

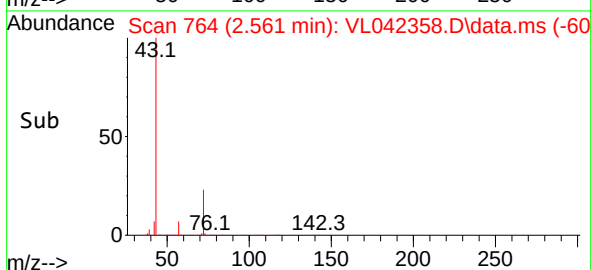
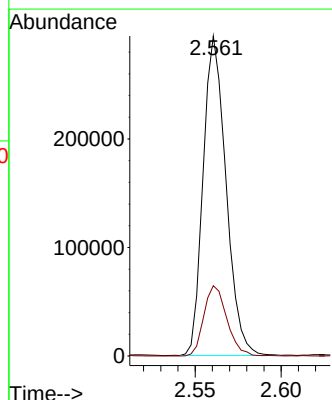
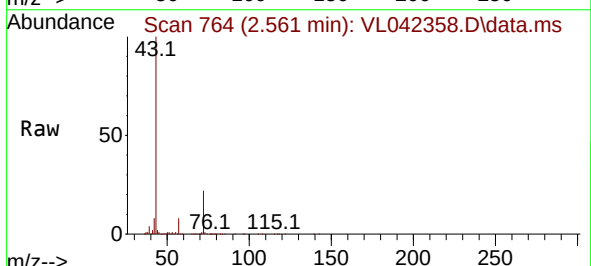
Acq: 17 Apr 2025 15:39

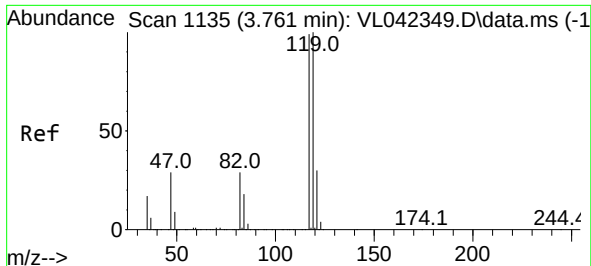
Tgt Ion: 43 Resp: 272600

Ion Ratio Lower Upper

43 100

72 22.2 18.2 27.2

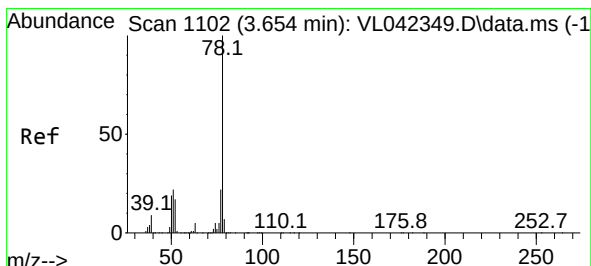
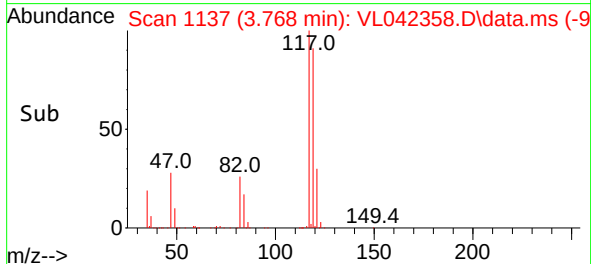
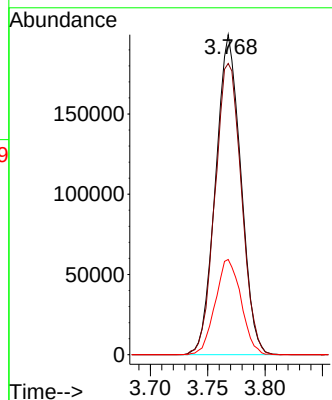
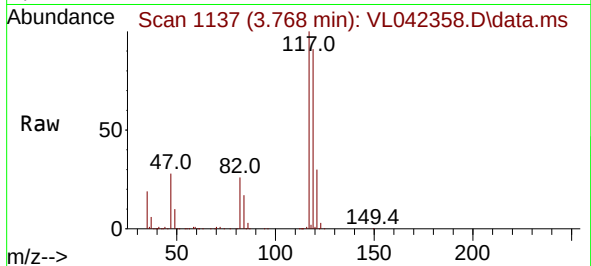




#35
Carbon Tetrachloride
Concen: 9.576 ppbv
RT: 3.768 min Scan# 1137
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

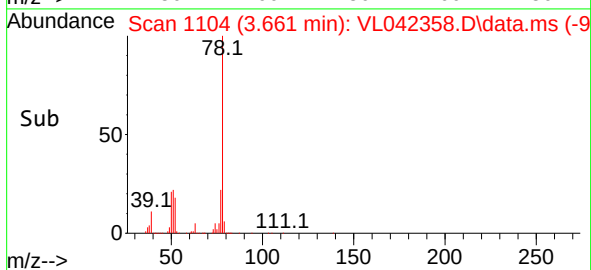
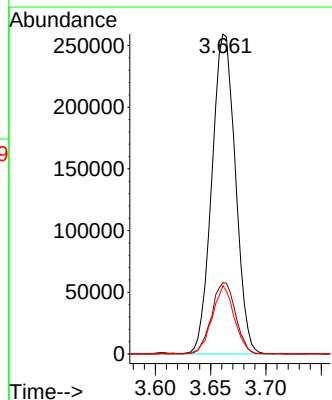
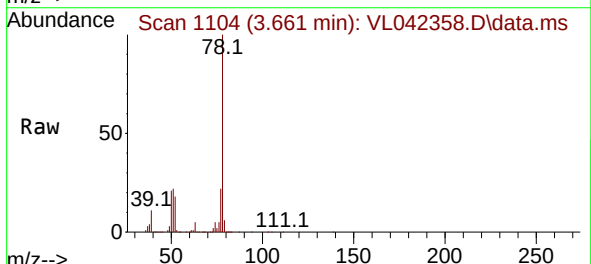
Instrument :
MSVOA_1
ClientSampleId :
VL0417ABS01

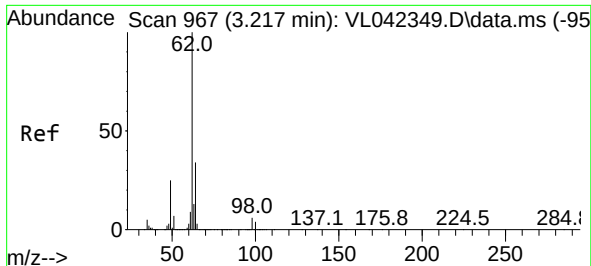
Tgt Ion:117 Resp: 305245
Ion Ratio Lower Upper
117 100
119 91.0 80.5 120.7
121 29.8 24.2 36.2



#36
Benzene
Concen: 10.088 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 78 Resp: 383239
Ion Ratio Lower Upper
78 100
77 22.1 17.4 26.0
50 21.3 15.5 23.3





#37

1,2-Dichloroethane

Concen: 10.377 ppbv

RT: 3.224 min Scan# 9

Delta R.T. 0.007 min

Lab File: VL042358.D

Acq: 17 Apr 2025 15:39

Instrument :

MSVOA_L

ClientSampleId :

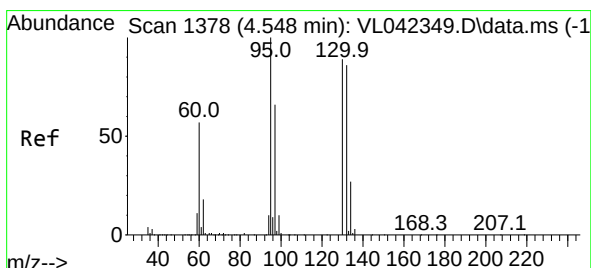
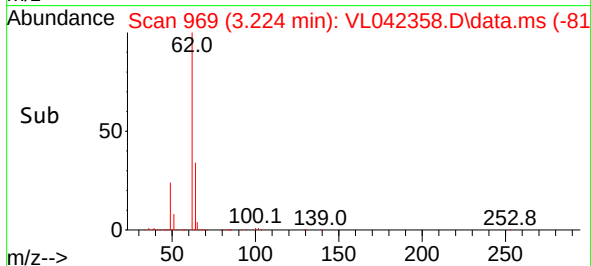
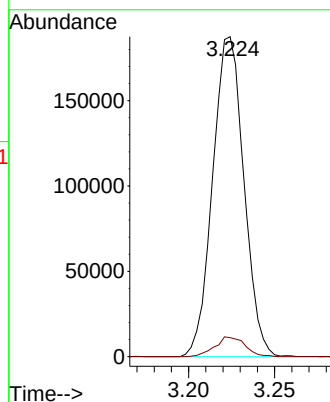
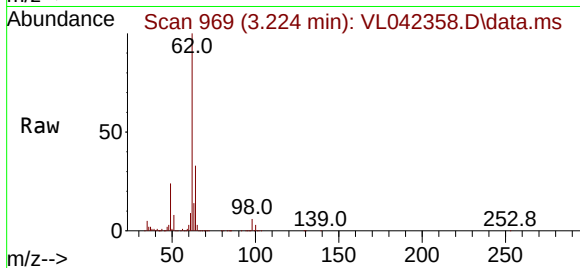
VL0417ABS01

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

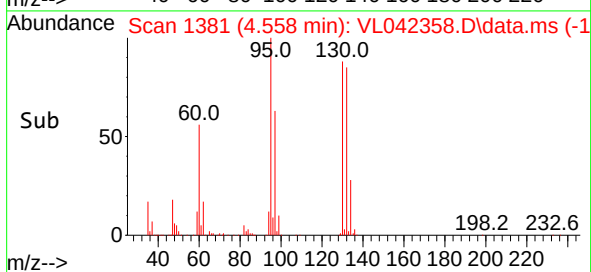
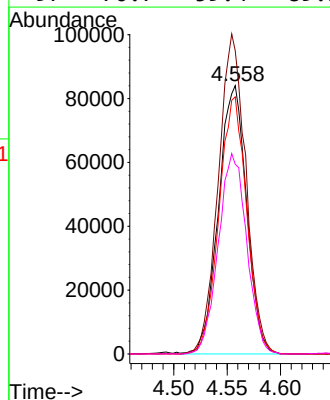
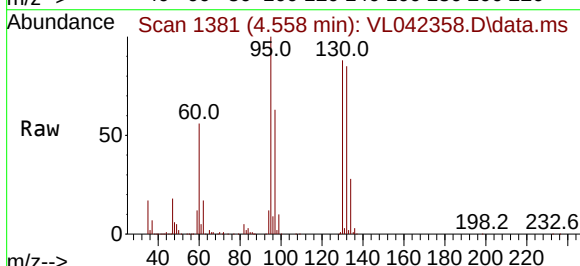
Ion Ratio Lower Upper

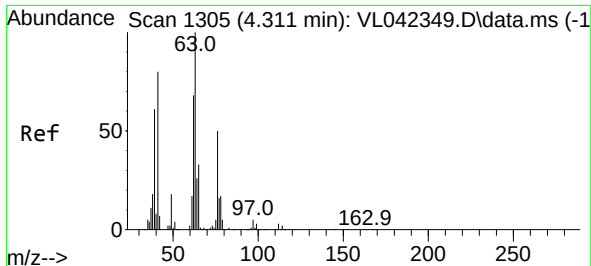
130 100

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

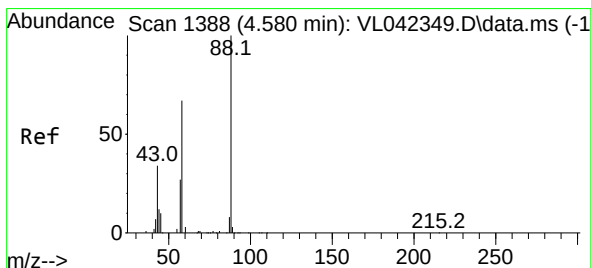
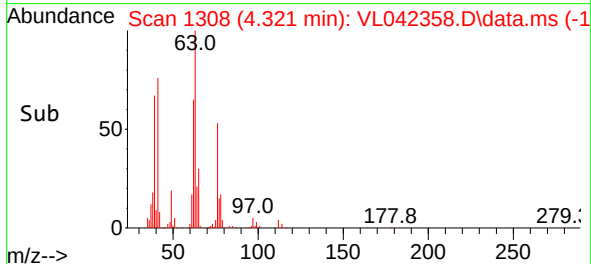
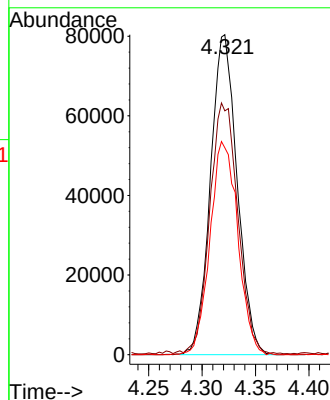
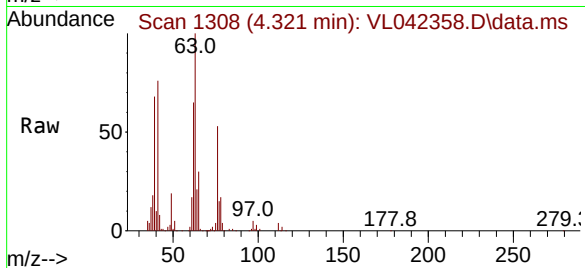
Tgt Ion: 63 Resp: 139669

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

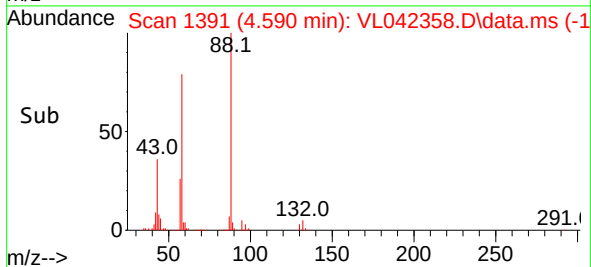
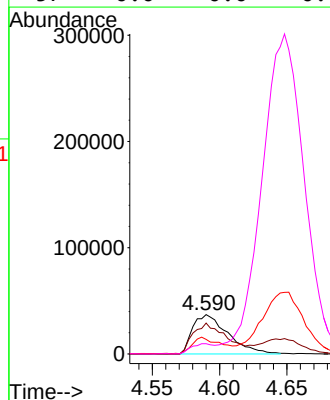
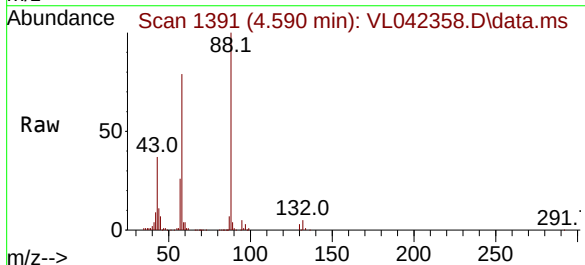
Ion Ratio Lower Upper

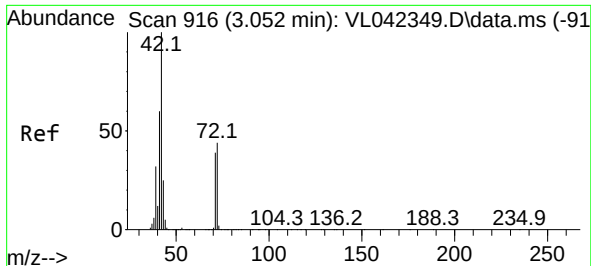
88 100

58 75.4 61.4 92.0

43 37.1 23.2 34.8#

57 0.0 0.0 0.0

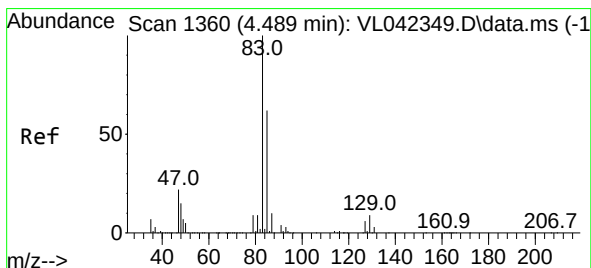
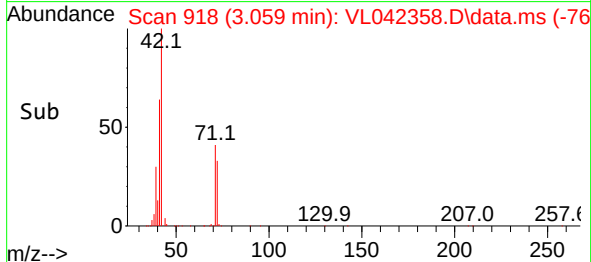
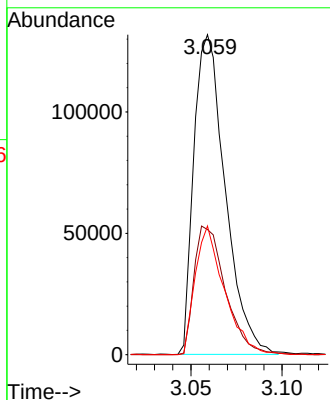
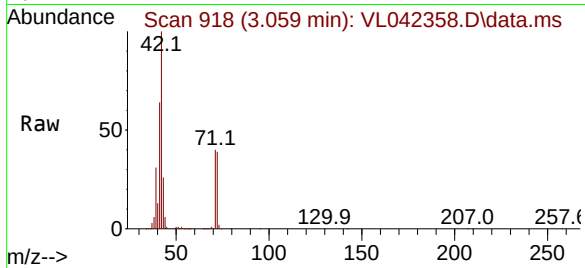




#41
Tetrahydrofuran
Concen: 9.715 ppbv
RT: 3.059 min Scan# 916
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

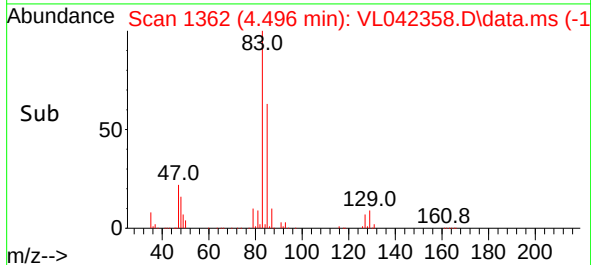
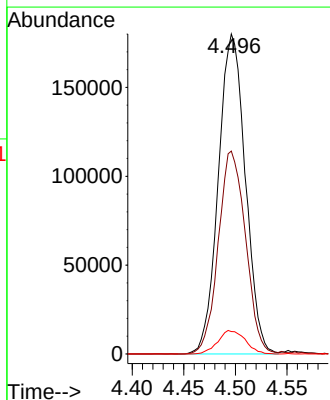
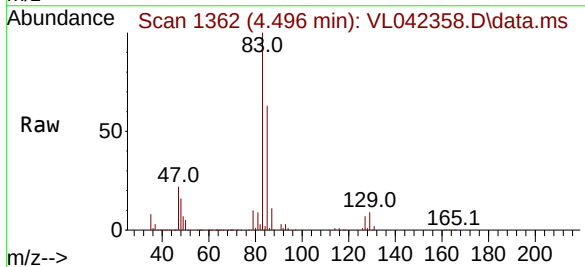
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

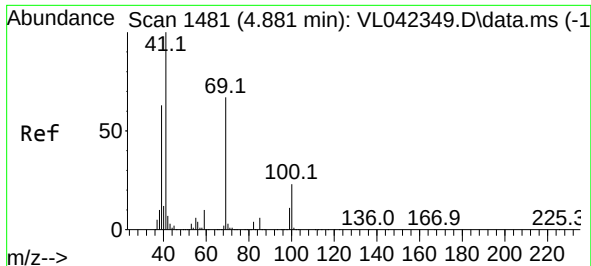
Tgt Ion: 42 Resp: 157777
Ion Ratio Lower Upper
42 100
72 40.3 32.3 48.5
71 37.7 31.4 47.2



#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

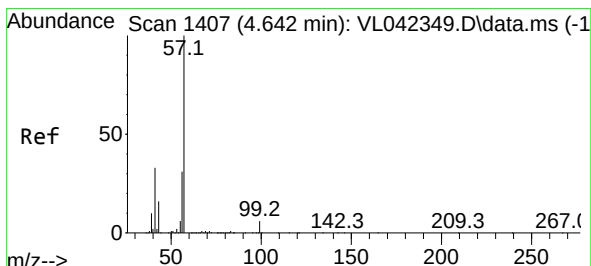
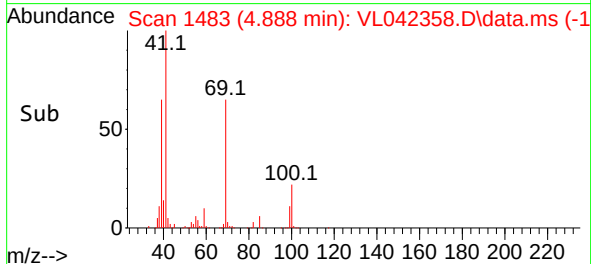
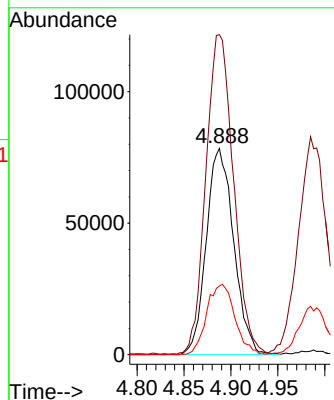
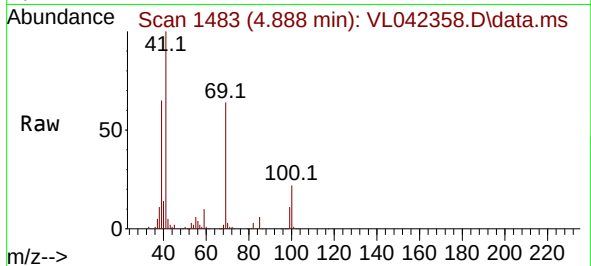




#43
Methyl Methacrylate
Concen: 9.304 ppbv
RT: 4.888 min Scan# 1481
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

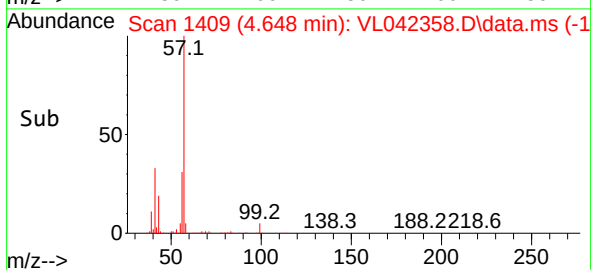
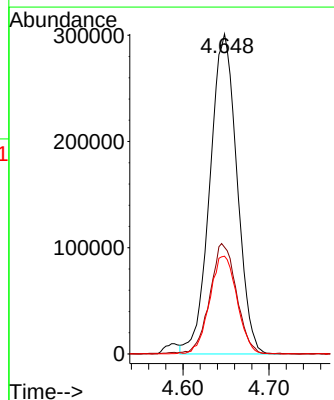
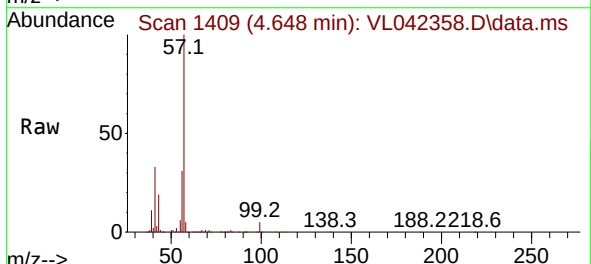
Instrument :
MSVOA_1
ClientSampleId :
VL0417ABS01

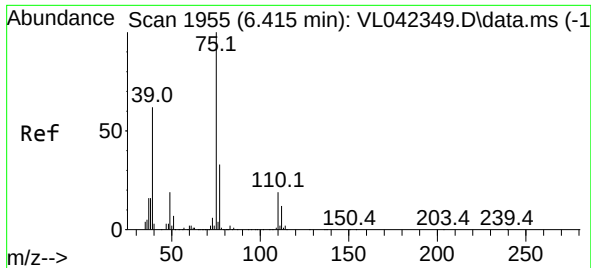
Tgt Ion: 69 Resp: 159292
Ion Ratio Lower Upper
69 100
41 155.9 118.6 177.8
100 35.1 28.2 42.2



#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

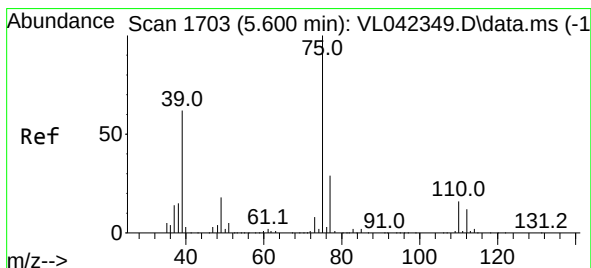
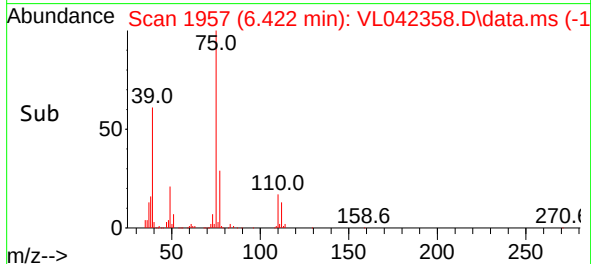
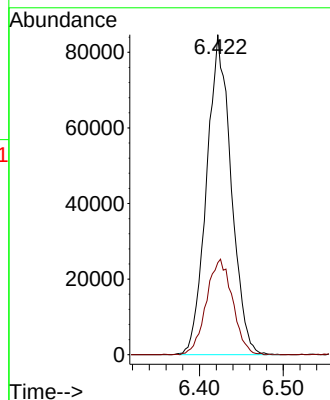
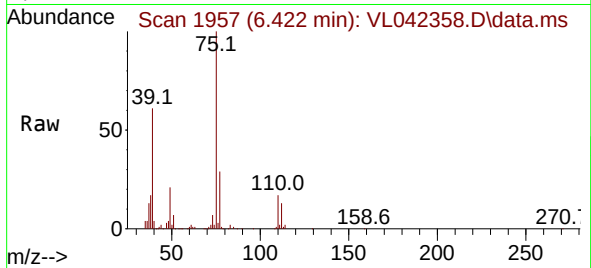




#45
 t-1,3-Dichloropropene
 Concen: 9.864 ppbv
 RT: 6.422 min Scan# 1957
 Delta R.T. 0.007 min
 Lab File: VL042358.D
 Acq: 17 Apr 2025 15:39

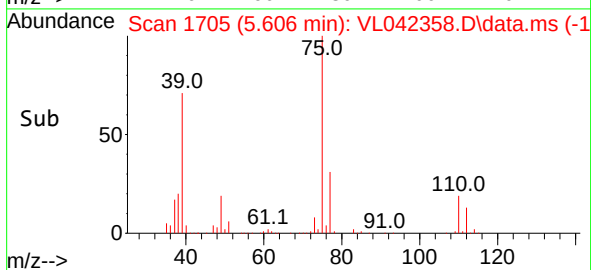
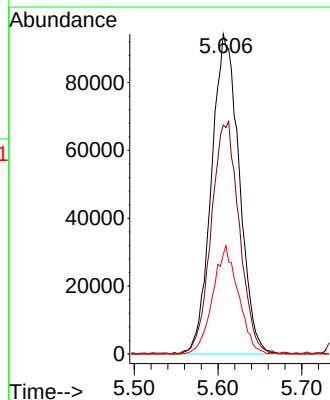
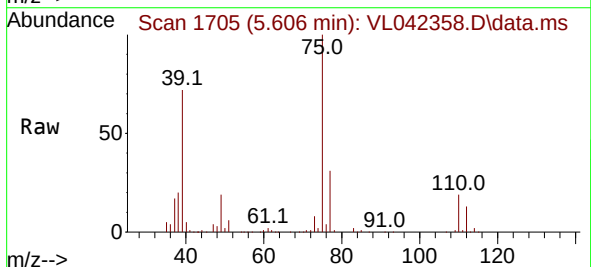
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0417ABS01

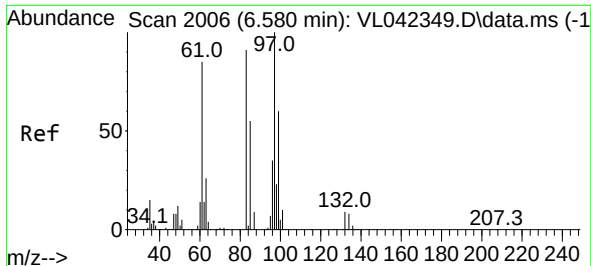
Tgt Ion: 75 Resp: 172514
 Ion Ratio Lower Upper
 75 100
 77 28.7 27.0 40.6



#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



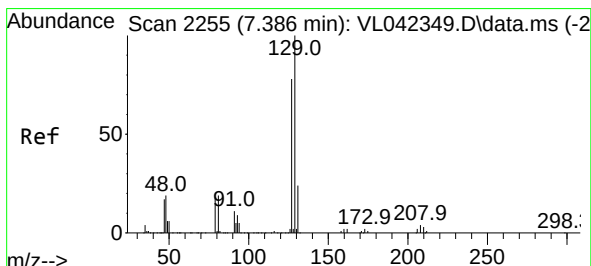
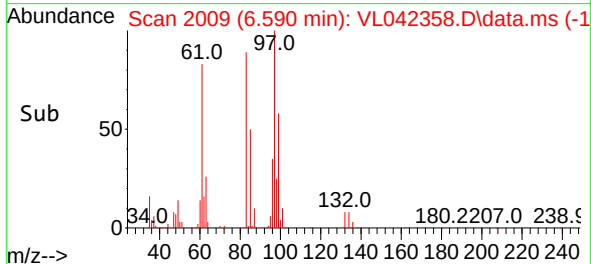
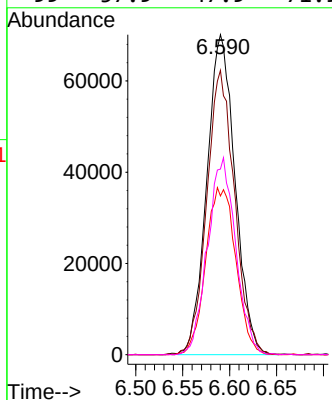
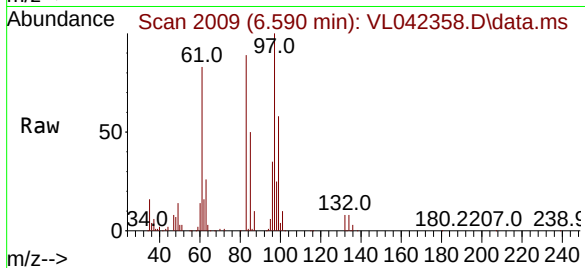


#47
1,1,2-Trichloroethane
Concen: 10.161 ppbv
RT: 6.590 min Scan# 2006
Delta R.T. 0.010 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Instrument :
MSVOA_1
ClientSampleId :
VL0417ABS01

Tgt Ion: 97 Resp: 146547

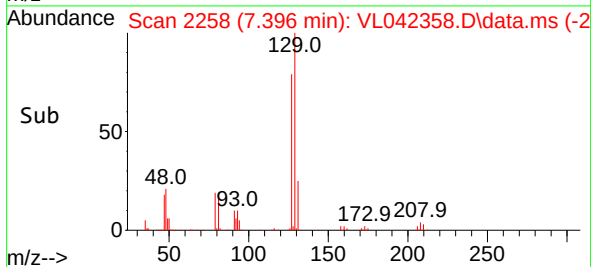
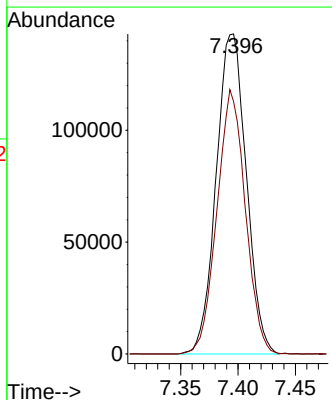
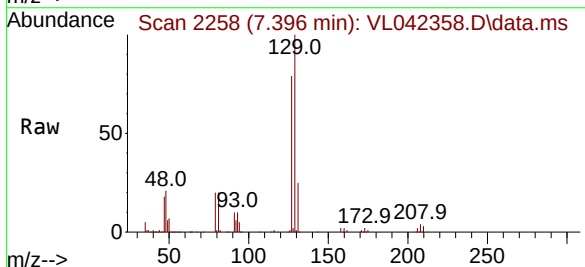
Ion	Ratio	Lower	Upper
97	100		
83	88.7	72.8	109.2
85	49.6	44.2	66.4
99	57.9	47.9	71.9

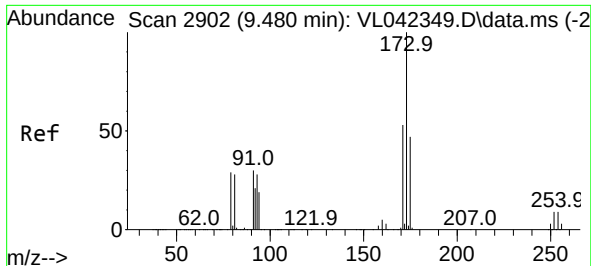


#48
Dibromochloromethane
Concen: 10.261 ppbv
RT: 7.396 min Scan# 2258
Delta R.T. 0.010 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 129 Resp: 261470

Ion	Ratio	Lower	Upper
129	100		
127	77.9	39.1	117.3

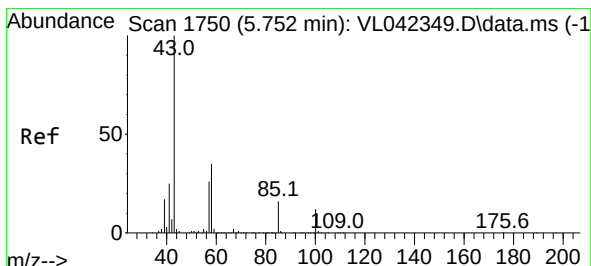
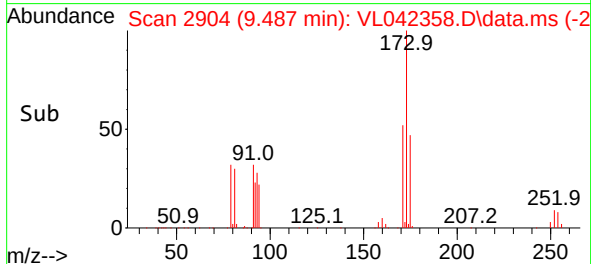
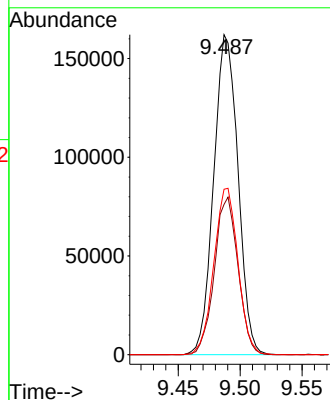
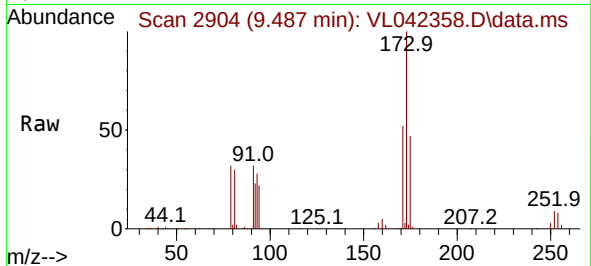




#49
Bromoform
Concen: 9.936 ppbv
RT: 9.487 min Scan# 2902
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

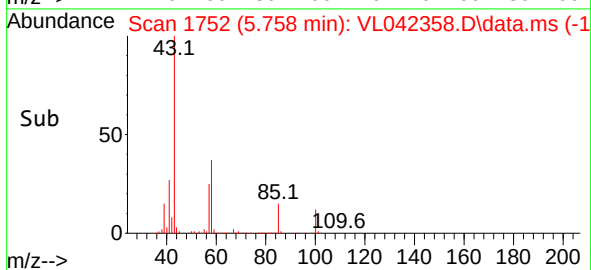
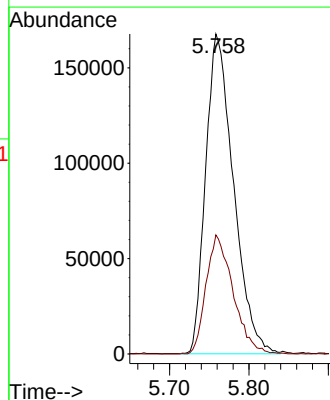
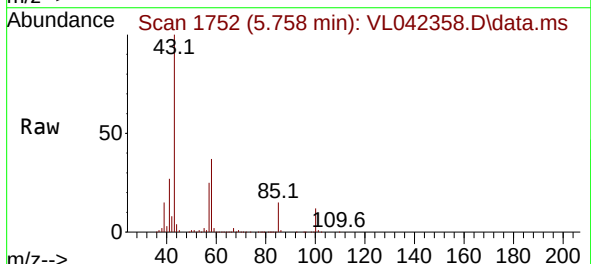
Instrument :
MSVOA_1
ClientSampleId :
VL0417ABS01

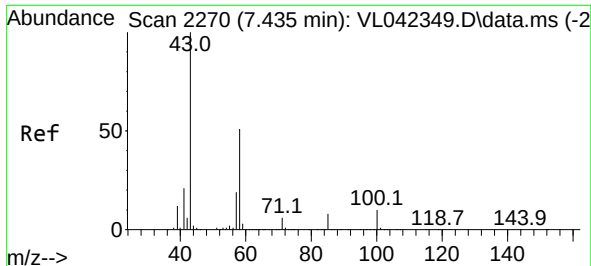
Tgt Ion:173 Resp: 221372
Ion Ratio Lower Upper
173 100
175 48.0 38.2 57.2
171 51.7 40.9 61.3



#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

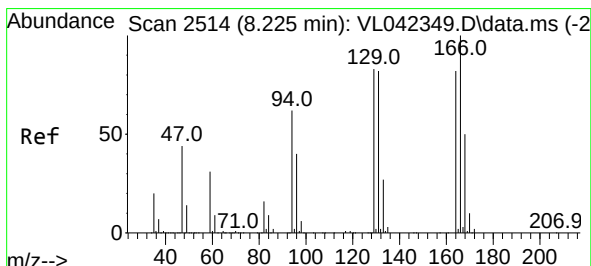
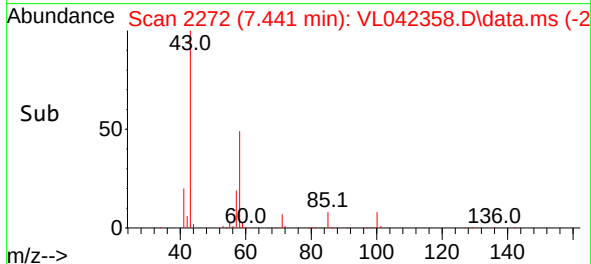
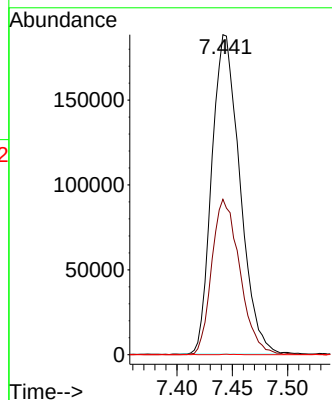
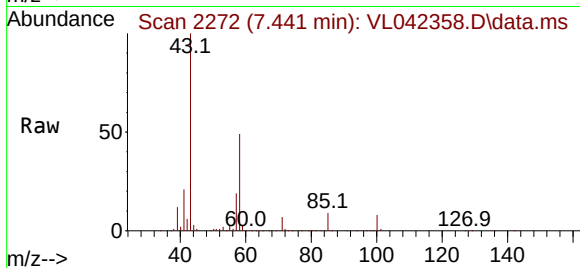




#51
2-Hexanone
Concen: 8.013 ppbv
RT: 7.441 min Scan# 21
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

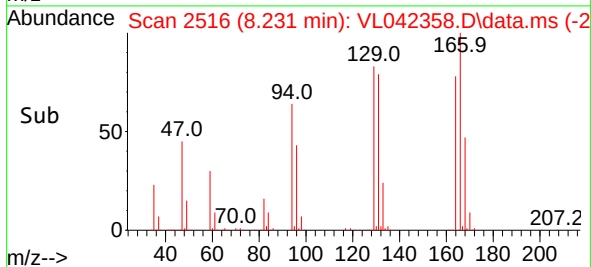
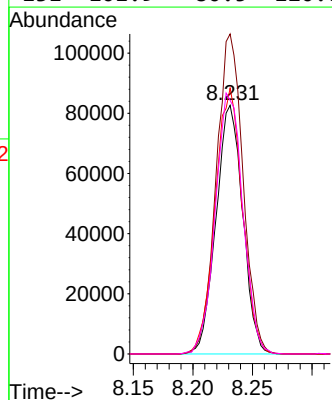
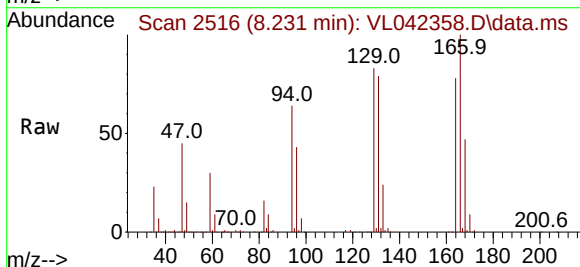
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

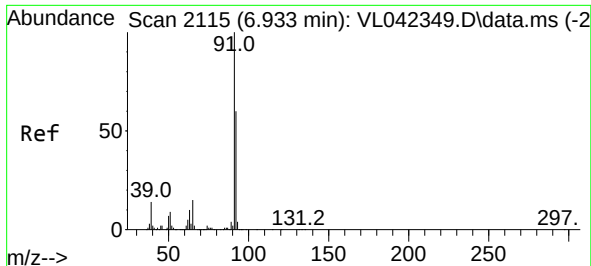
Tgt Ion: 43 Resp: 332646
Ion Ratio Lower Upper
43 100
58 48.6 40.2 60.4
98 0.1 0.1 0.1#



#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

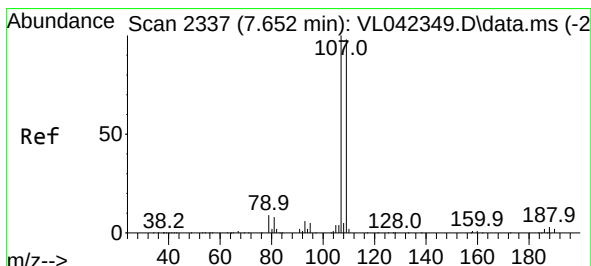
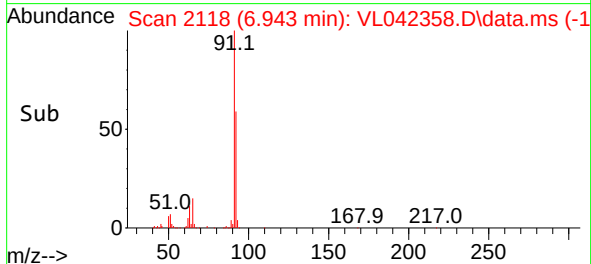
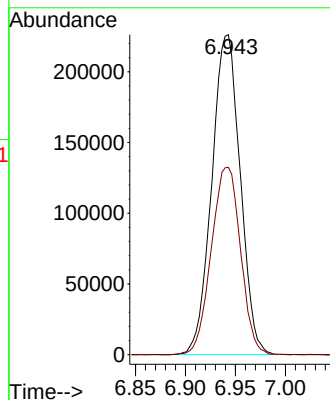
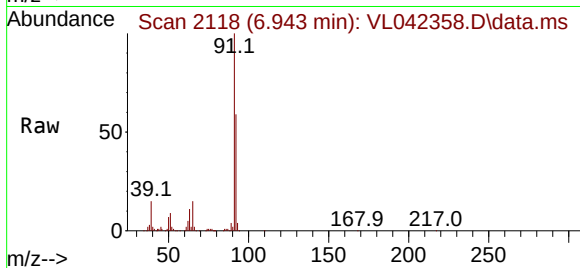




#53
Toluene
Concen: 9.818 ppbv
RT: 6.943 min Scan# 2115
Delta R.T. 0.010 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

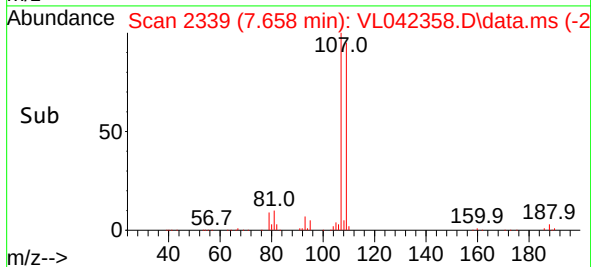
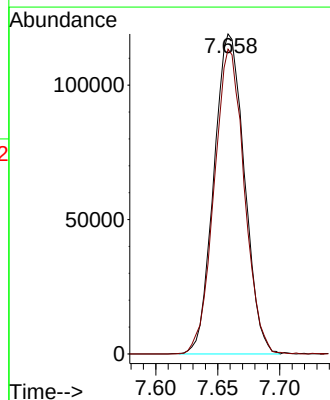
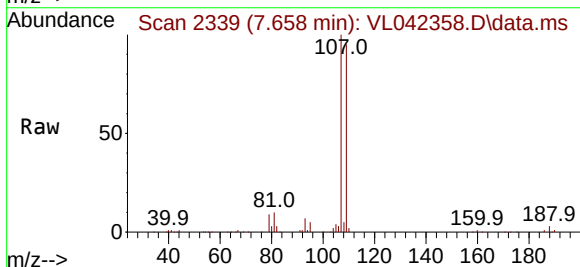
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

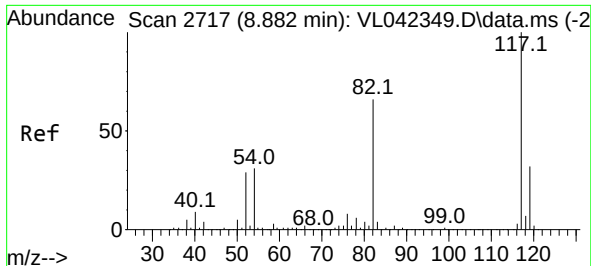
Tgt Ion: 91 Resp: 447581
Ion Ratio Lower Upper
91 100
92 60.3 48.2 72.4



#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

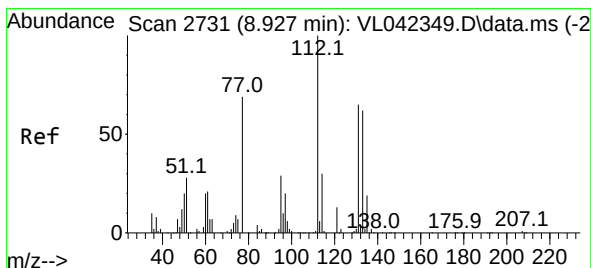
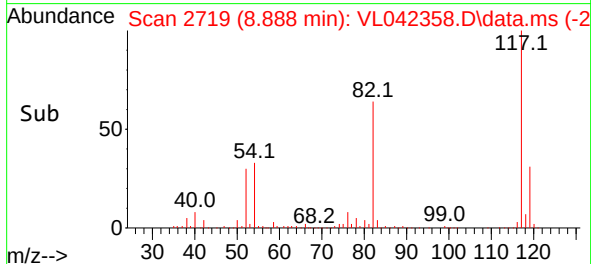
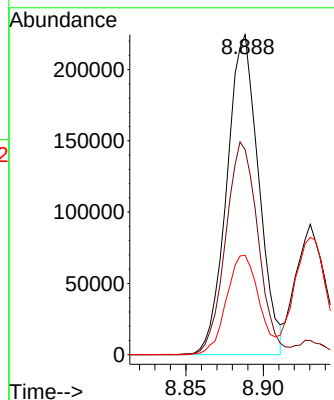
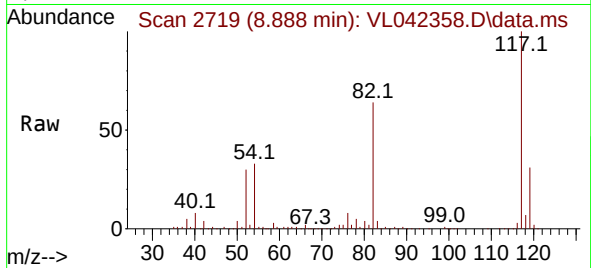




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 216
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

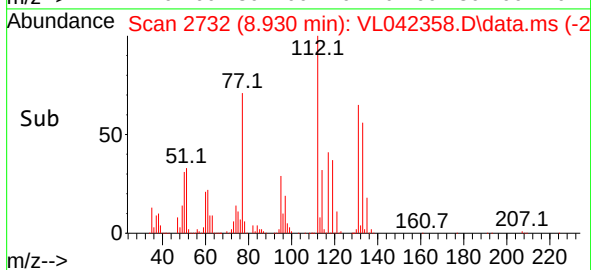
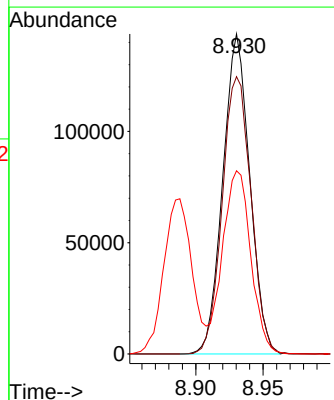
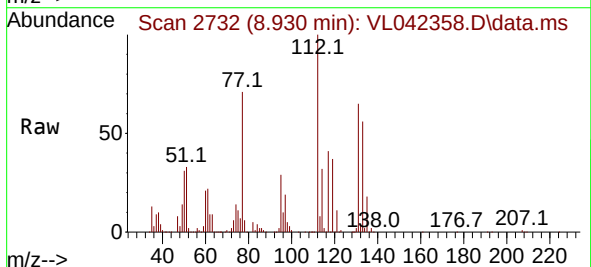
Instrument :
MSVOA_1
ClientSampleId :
VL0417ABS01

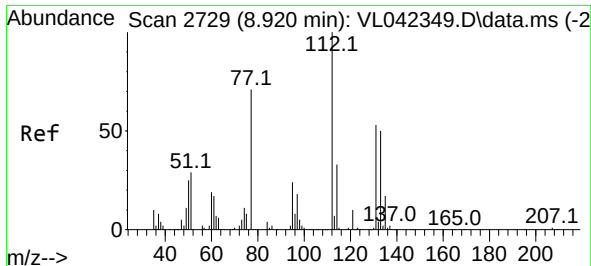
Tgt Ion:117 Resp: 321521
Ion Ratio Lower Upper
117 100
82 71.8 57.8 86.6
119 32.5 25.2 37.8



#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

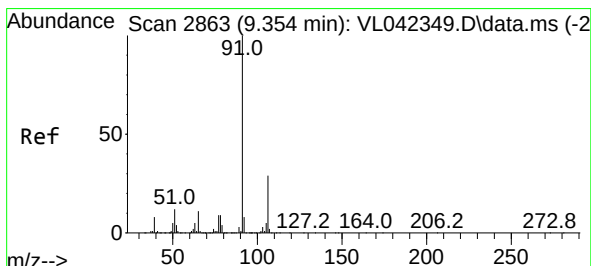
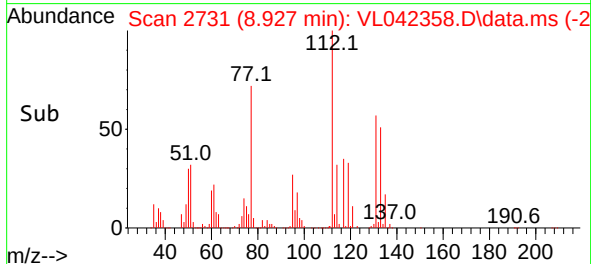
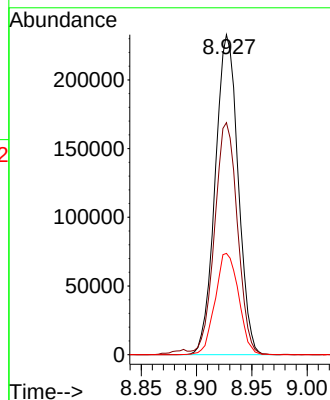
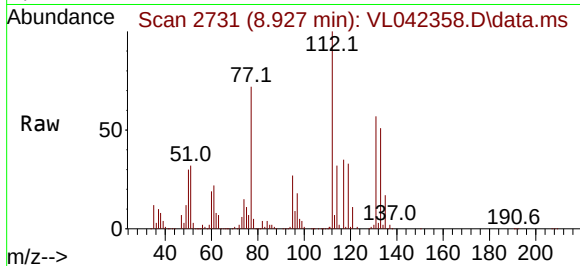




#57
Chlorobenzene
Concen: 10.022 ppbv
RT: 8.927 min Scan# 21
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

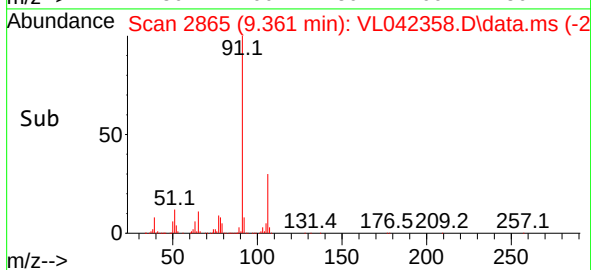
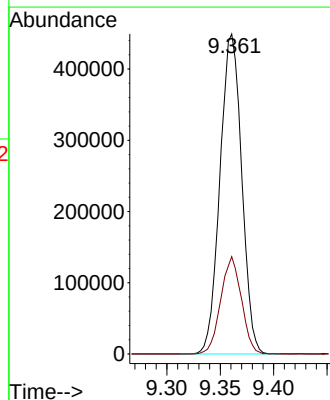
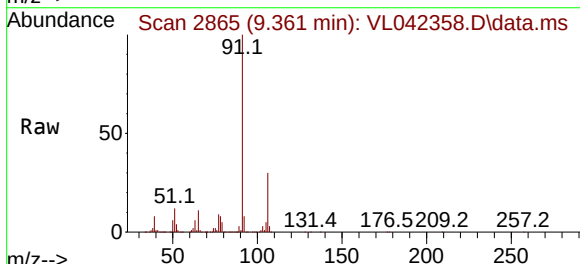
Instrument :
MSVOA_1
ClientSampleId :
VL0417ABS01

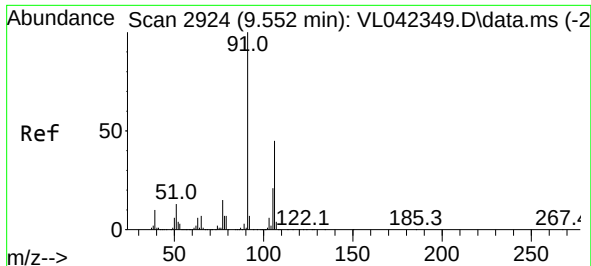
Tgt Ion	Ratio	Lower	Upper
112	100		
77	72.4	57.8	86.6
114	31.7	29.3	35.9



#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	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 :

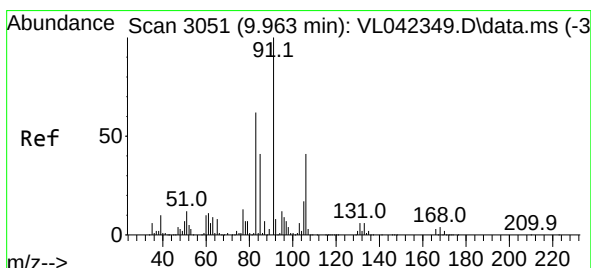
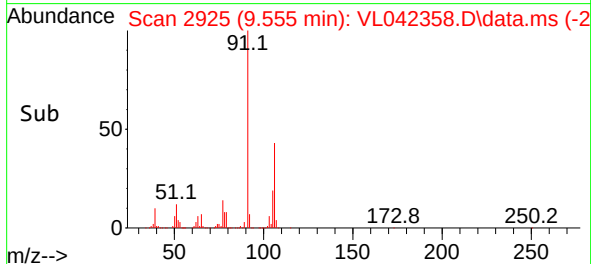
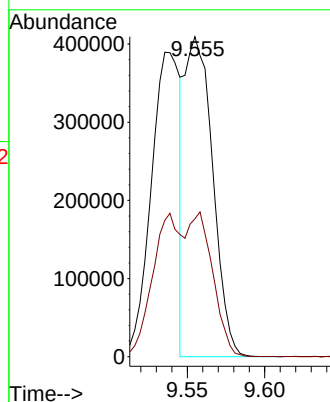
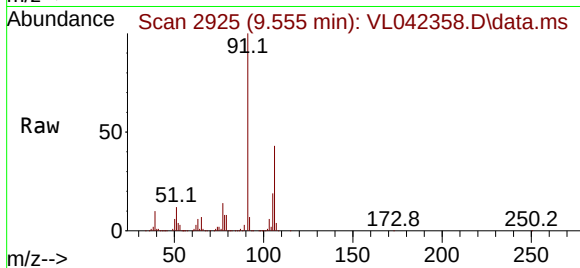
VL0417ABS01

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

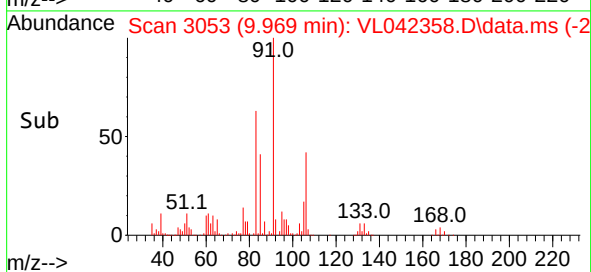
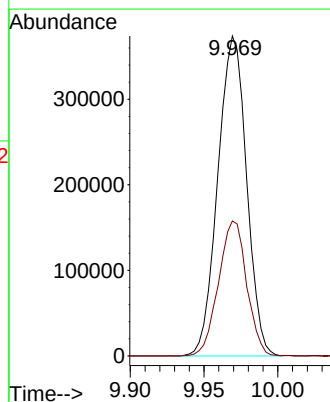
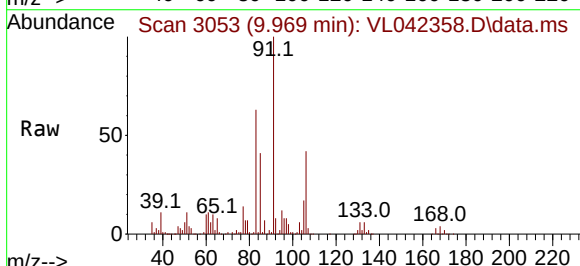
Acq: 17 Apr 2025 15:39

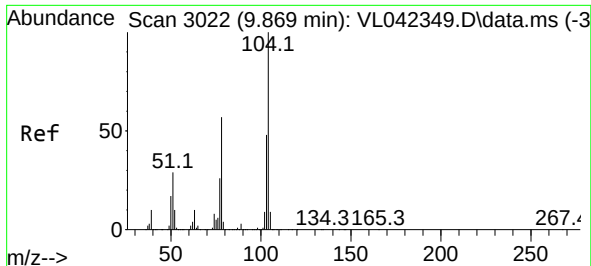
Tgt Ion: 91 Resp: 506535

Ion Ratio Lower Upper

91 100

106 41.4 21.1 63.4

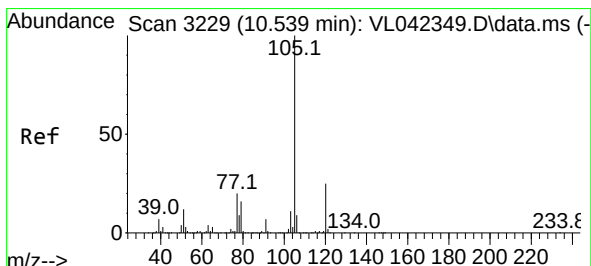
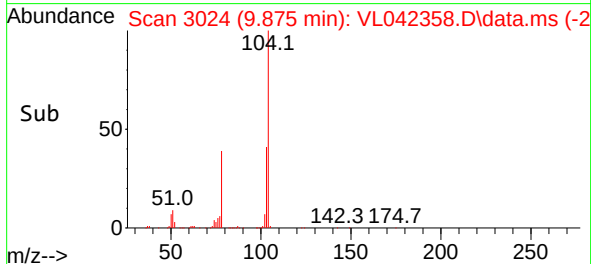
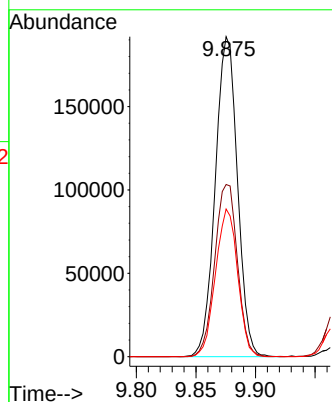
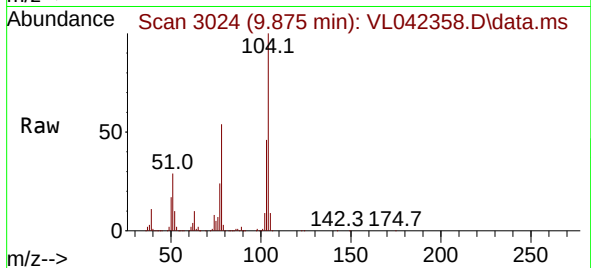




#61
Styrene
Concen: 10.055 ppbv
RT: 9.875 min Scan# 3022
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

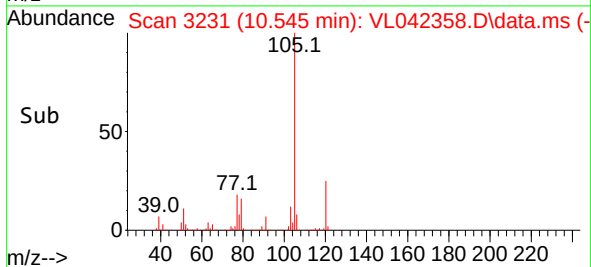
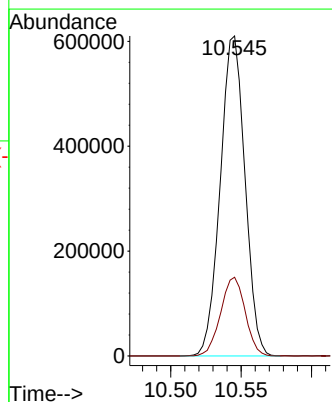
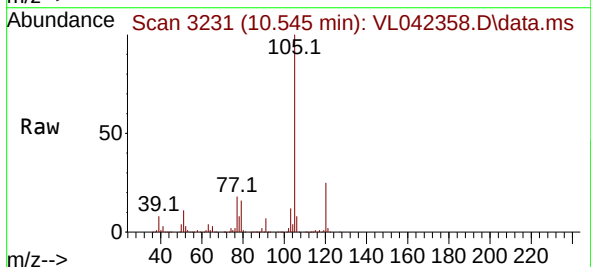
Instrument :
MSVOA_1
ClientSampleId :
VL0417ABS01

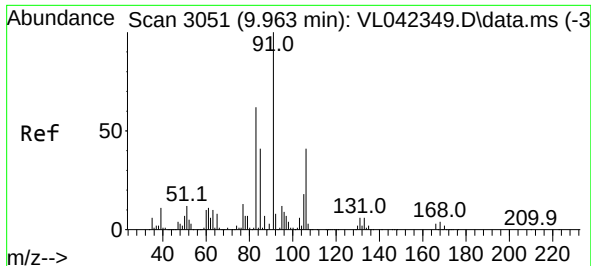
Tgt Ion:104 Resp: 248022
Ion Ratio Lower Upper
104 100
78 55.3 44.6 66.8
103 46.2 37.4 56.0



#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

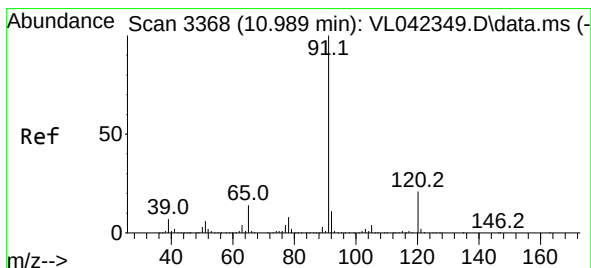
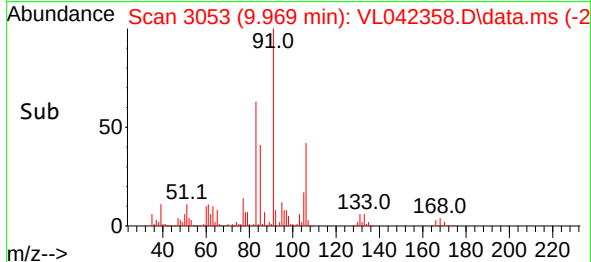
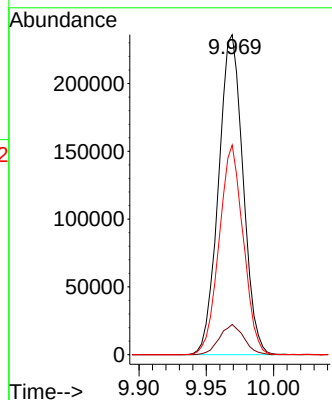
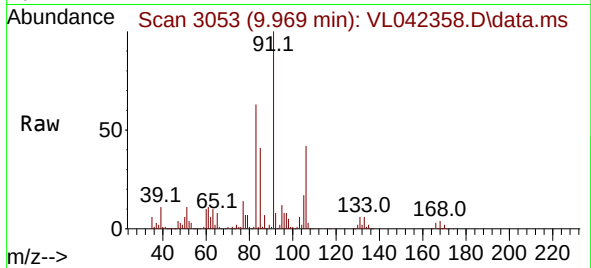




#63
1,1,2,2-Tetrachloroethane
Concen: 8.916 ppbv
RT: 9.969 min Scan# 3051
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

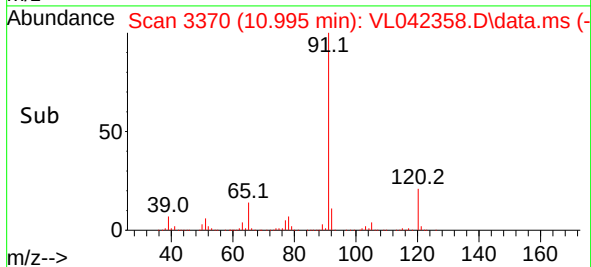
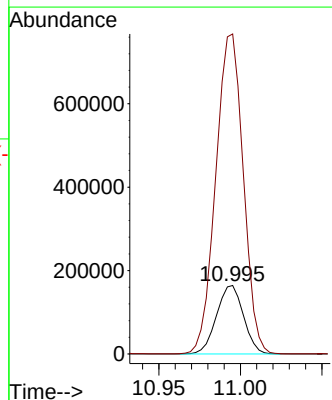
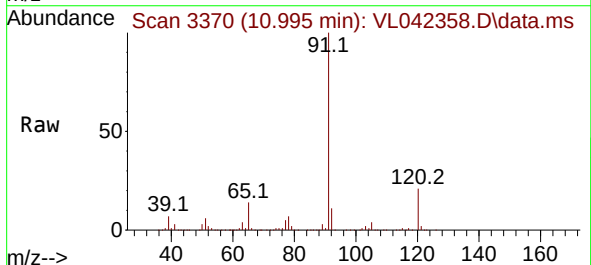
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

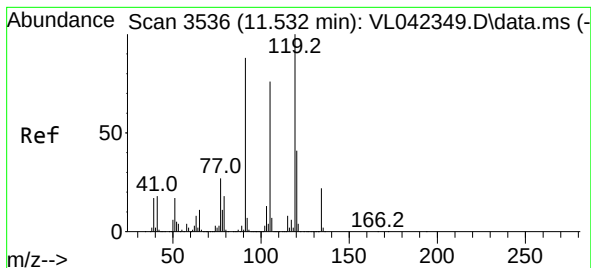
Tgt Ion: 83 Resp: 298581
Ion Ratio Lower Upper
83 100
131 9.4 4.5 13.7
85 64.5 32.4 97.0



#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

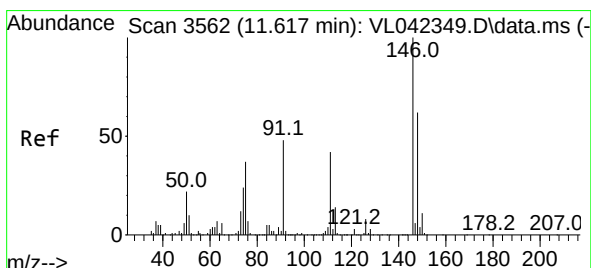
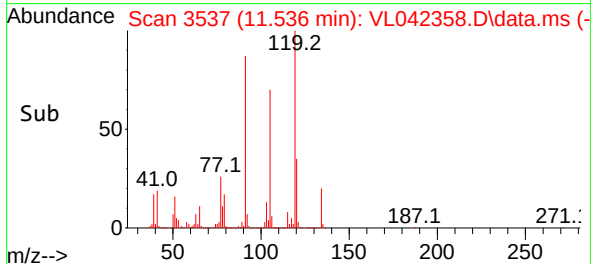
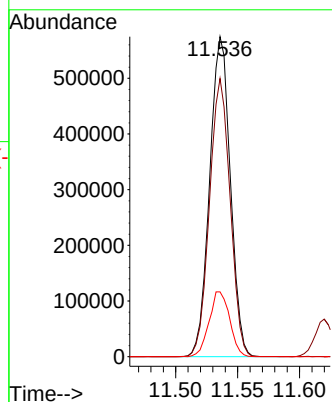
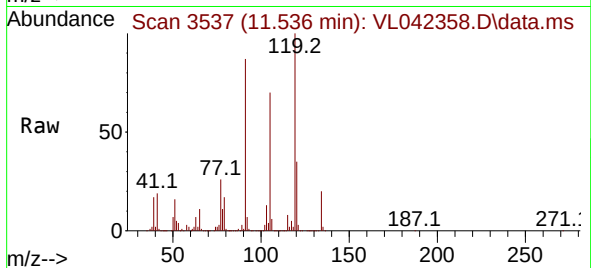




#65
tert-Butylbenzene
Concen: 9.589 ppbv
RT: 11.536 min Scan# 3536
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

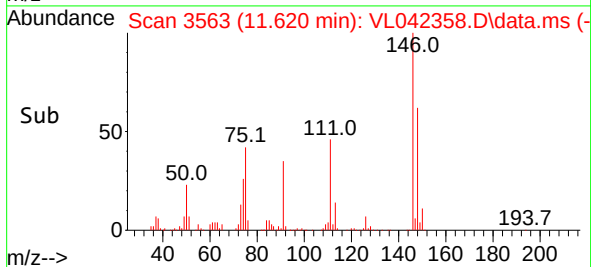
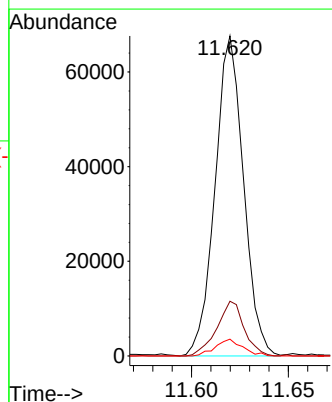
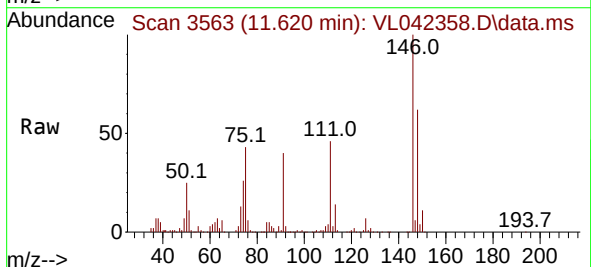
Instrument :
MSVOA_1
ClientSampleId :
VL0417ABS01

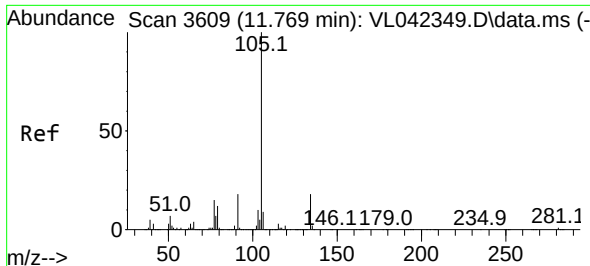
Tgt Ion:119 Resp: 668687
Ion Ratio Lower Upper
119 100
91 86.7 74.6 111.8
134 20.2 18.8 28.2



#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

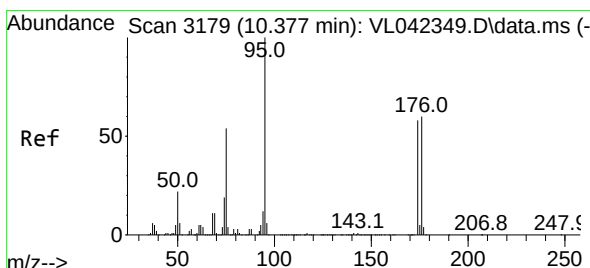
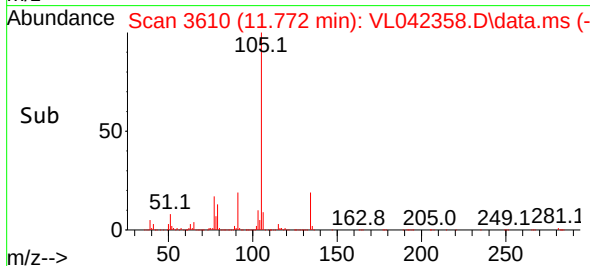
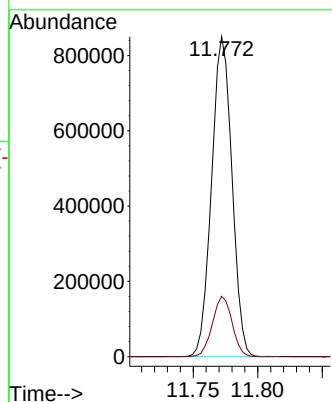
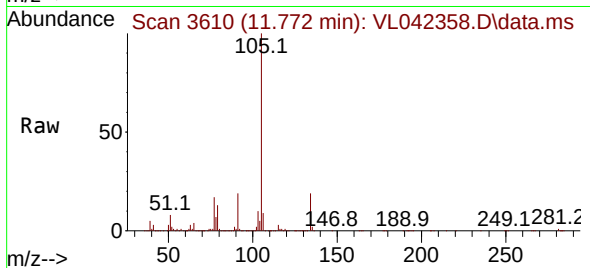




#67
 sec-Butylbenzene
 Concen: 9.592 ppbv
 RT: 11.772 min Scan# 3180
 Delta R.T. 0.003 min
 Lab File: VL042358.D
 Acq: 17 Apr 2025 15:39

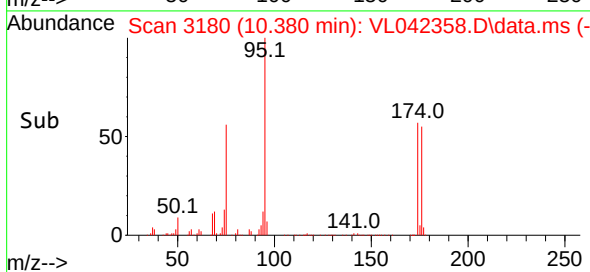
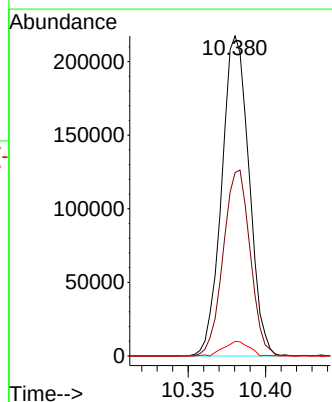
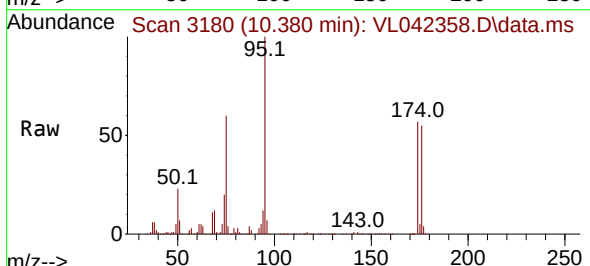
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0417ABS01

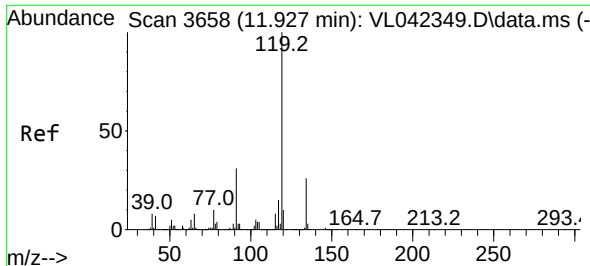
Tgt Ion:105 Resp: 930426
 Ion Ratio Lower Upper
 105 100
 134 18.3 14.6 21.8



#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

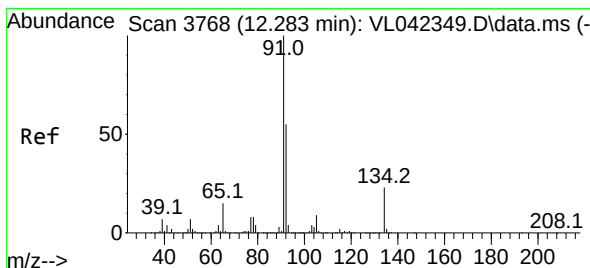
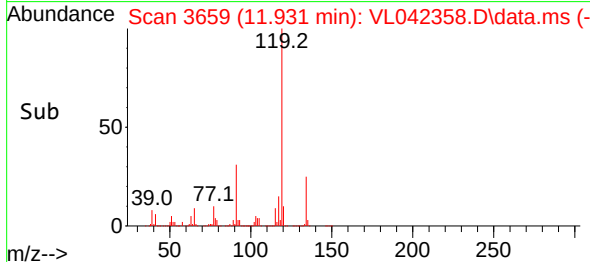
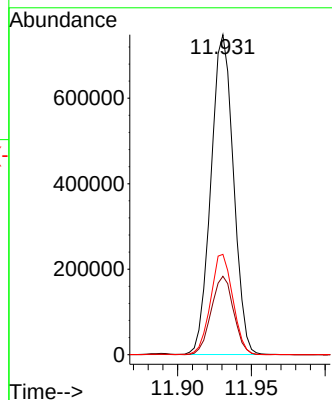
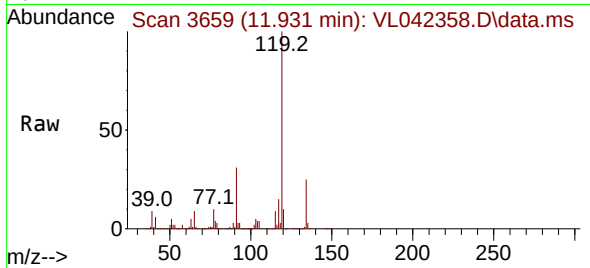




#69
p-Isopropyltoluene
Concen: 9.441 ppbv
RT: 11.931 min Scan# 3659
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

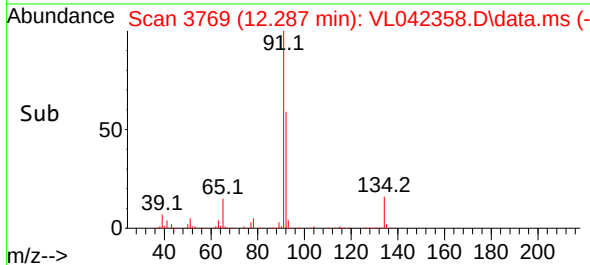
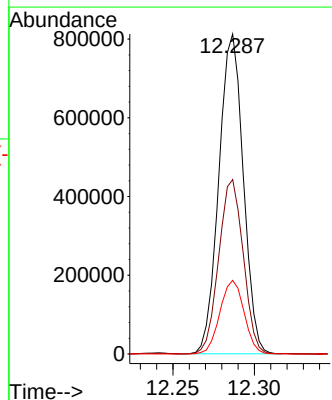
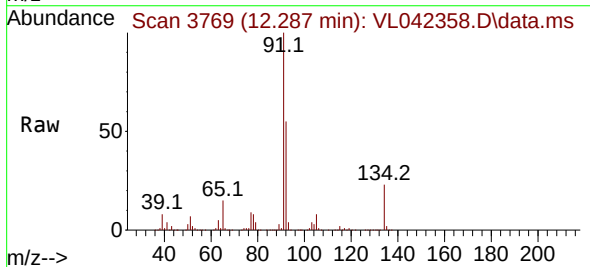
Instrument :
MSVOA_1
ClientSampleId :
VL0417ABS01

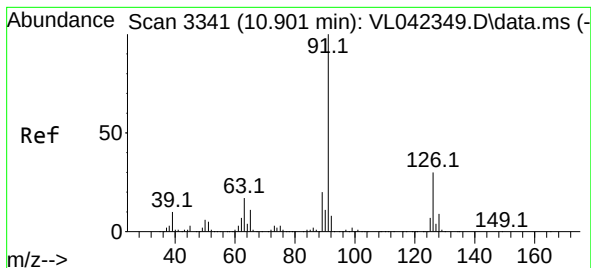
Tgt Ion:119 Resp: 795532
Ion Ratio Lower Upper
119 100
134 24.5 20.0 30.0
91 31.2 24.4 36.6



#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

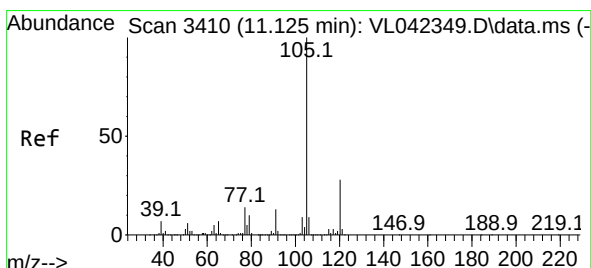
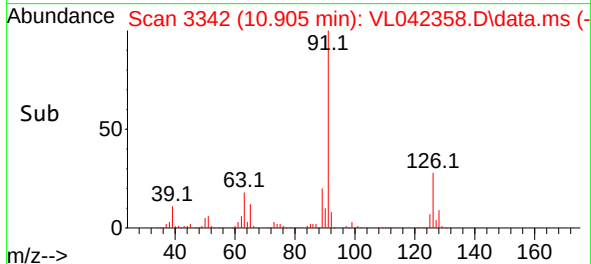
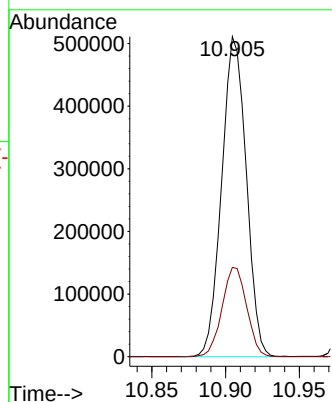
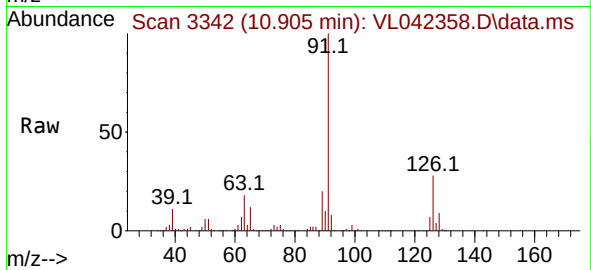




#71
2-Chlorotoluene
Concen: 9.934 ppbv
RT: 10.905 min Scan# 31
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

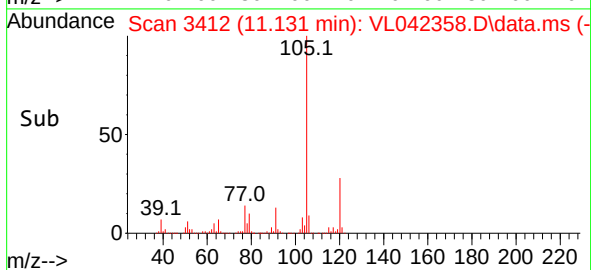
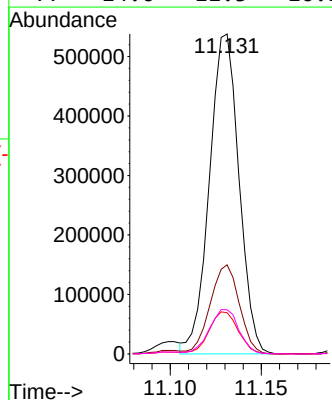
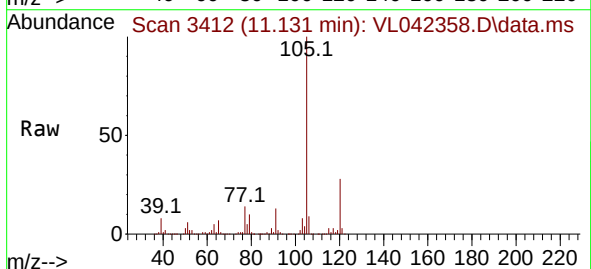
Instrument :
MSVOA_1
ClientSampleId :
VL0417ABS01

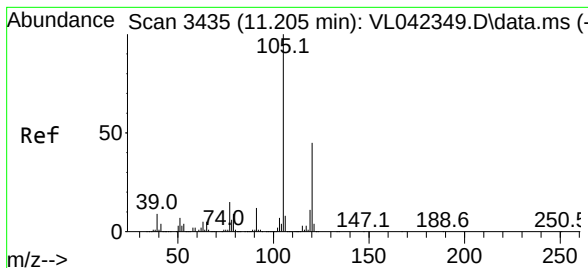
Tgt Ion: 91 Resp: 591154
Ion Ratio Lower Upper
91 100
126 27.9 11.4 45.4



#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 :

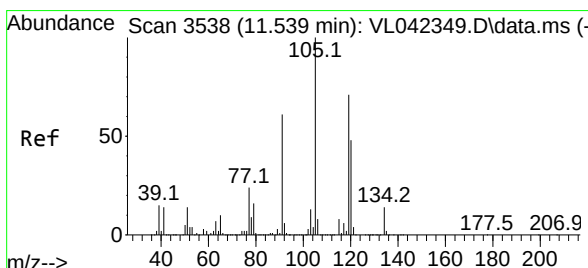
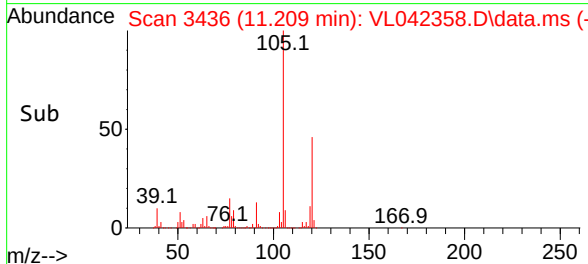
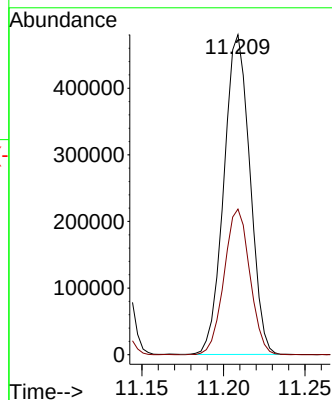
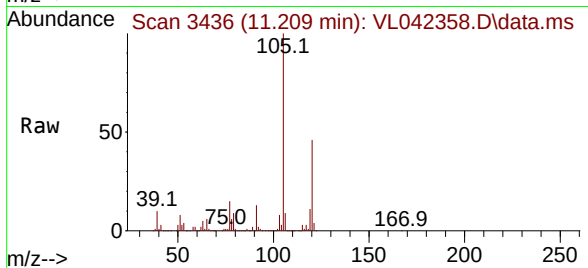
VL0417ABS01

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

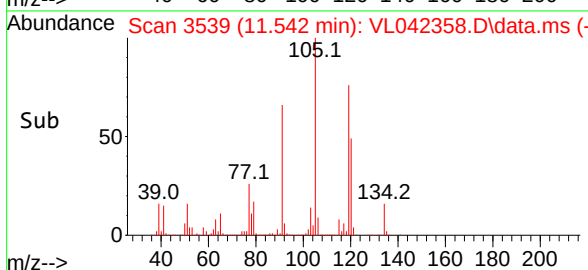
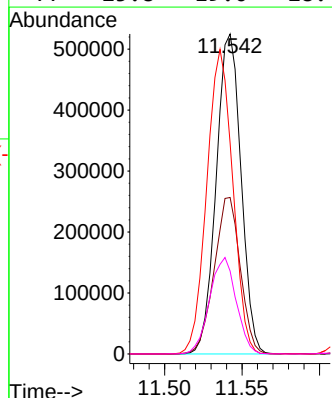
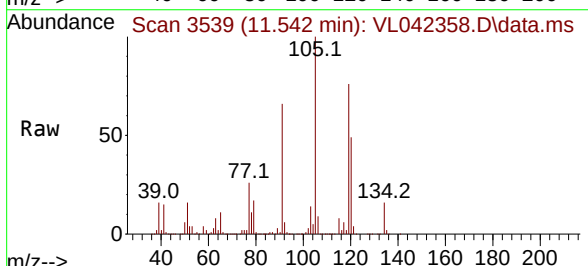
Ion Ratio Lower Upper

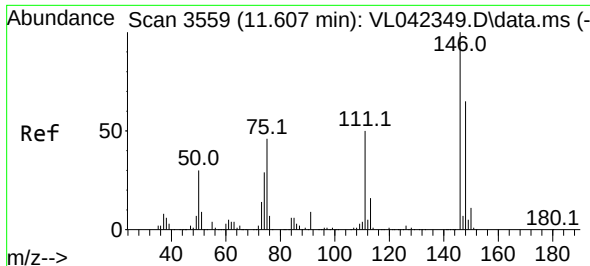
105 100

120 48.9 38.1 57.1

91 65.8 48.8 73.2

77 25.8 19.0 28.4

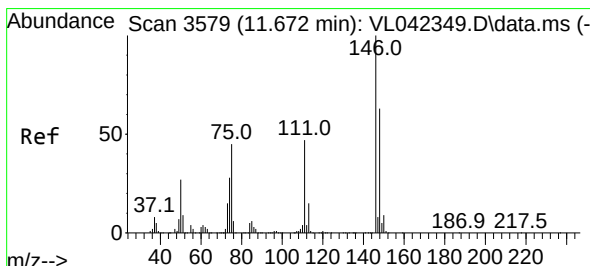
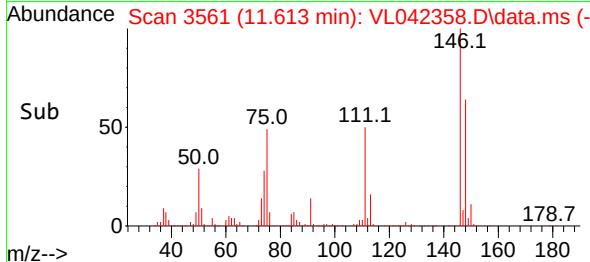
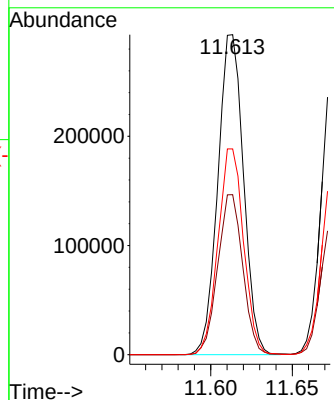
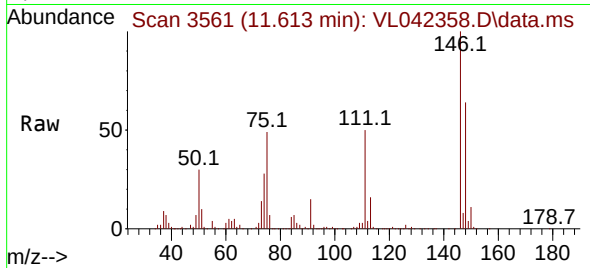




#75
1,3-Dichlorobenzene
Concen: 9.474 ppbv
RT: 11.613 min Scan# 31
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

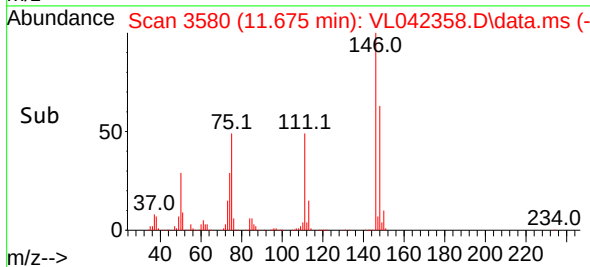
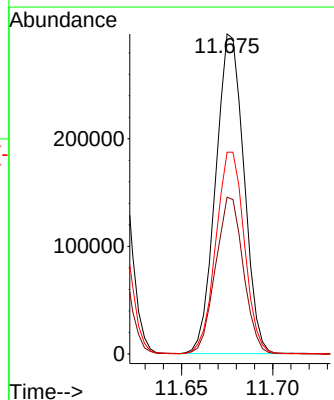
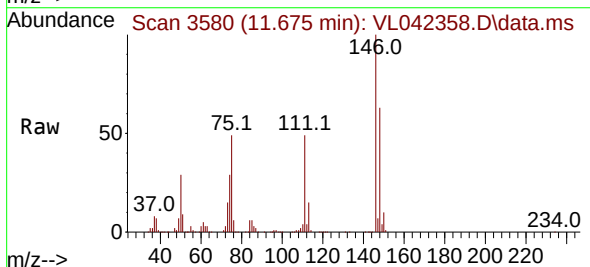
Instrument :
MSVOA_1
ClientSampleId :
VL0417ABS01

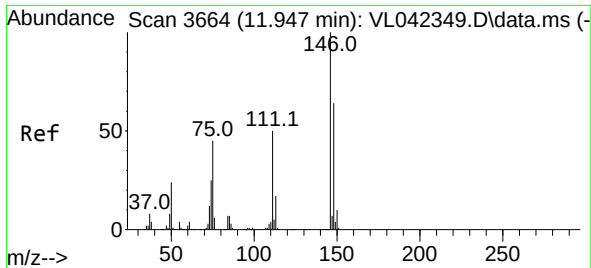
Tgt Ion:146 Resp: 320811
Ion Ratio Lower Upper
146 100
111 48.8 24.3 72.8
148 64.0 31.6 94.8



#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

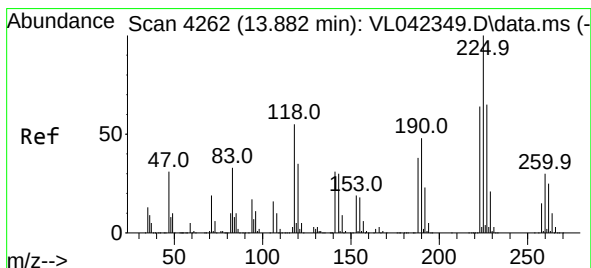
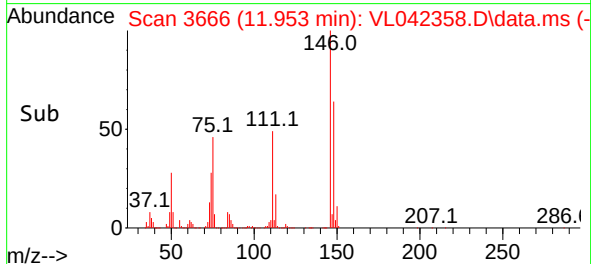
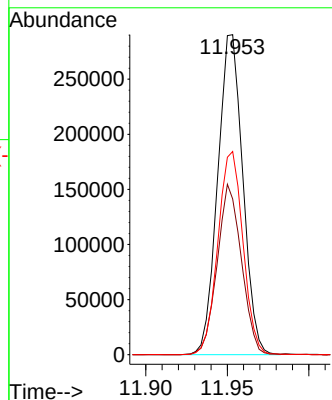
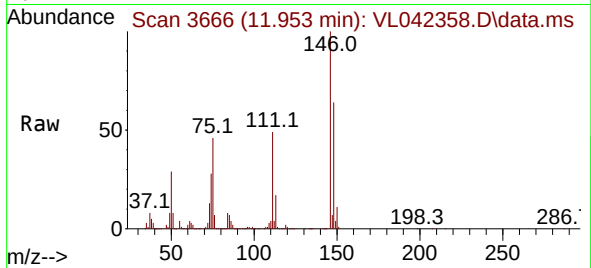




#77
1,2-Dichlorobenzene
Concen: 9.459 ppbv
RT: 11.953 min Scan# 311460
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

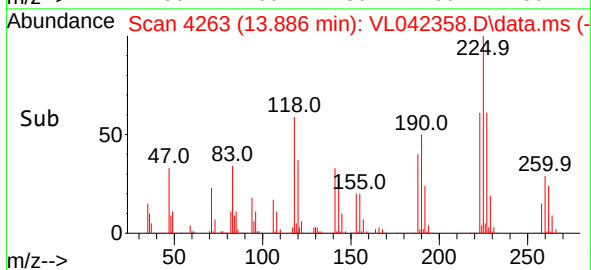
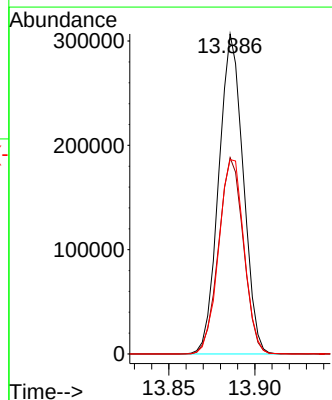
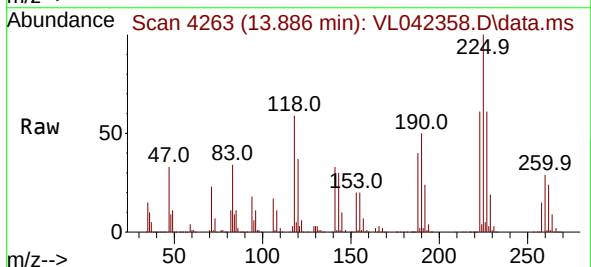
Instrument :
MSVOA_1
ClientSampleId :
VL0417ABS01

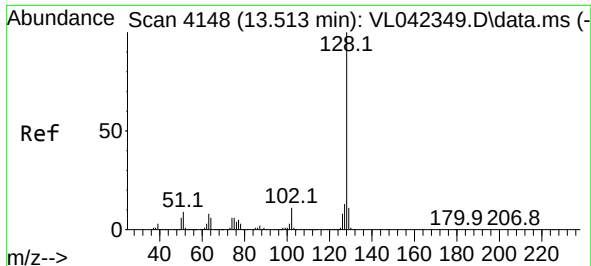
Tgt Ion:146 Resp: 311460
Ion Ratio Lower Upper
146 100
111 51.4 25.3 75.9
148 63.4 31.5 94.5



#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

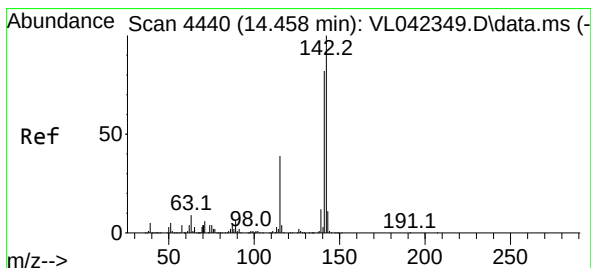
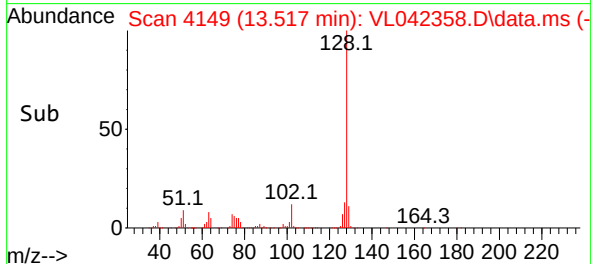
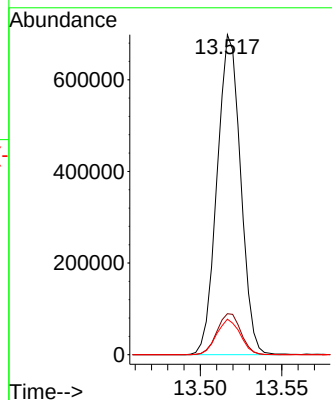
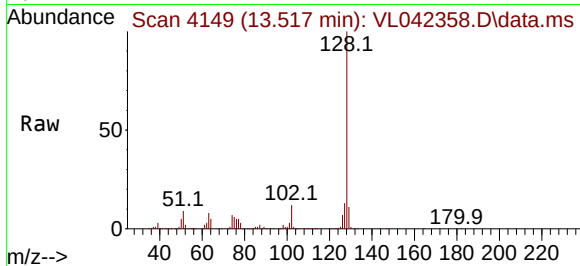




#79
Naphthalene
Concen: 8.999 ppbv
RT: 13.517 min Scan# 4148
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

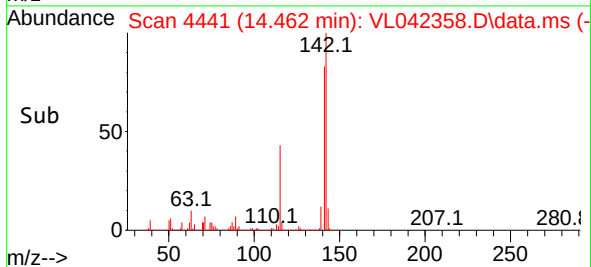
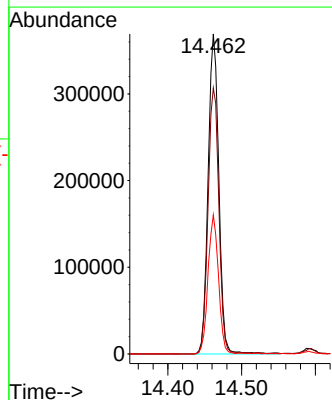
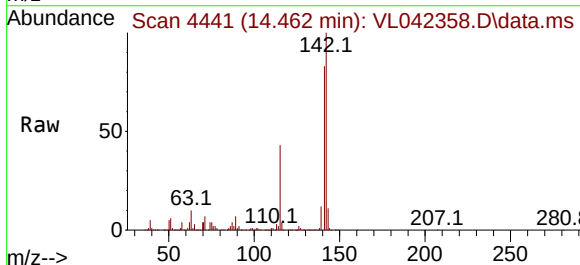
Instrument :
MSVOA_1
ClientSampleId :
VL0417ABS01

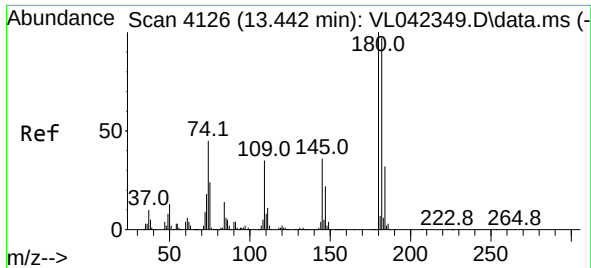
Tgt Ion:128 Resp: 701010
Ion Ratio Lower Upper
128 100
127 12.8 10.6 15.8
129 11.1 8.6 12.8



#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

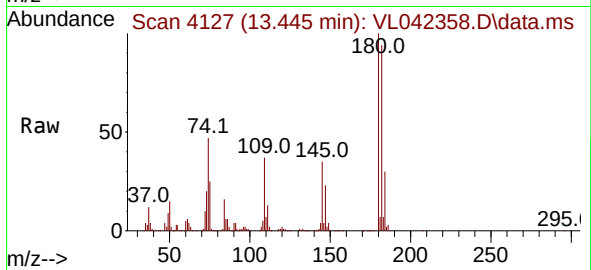
Tgt Ion:142 Resp: 369891
Ion Ratio Lower Upper
142 100
141 85.0 66.8 100.2
115 42.8 33.4 50.2





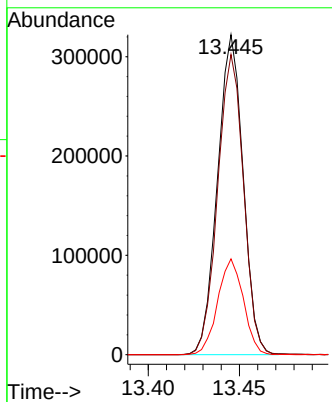
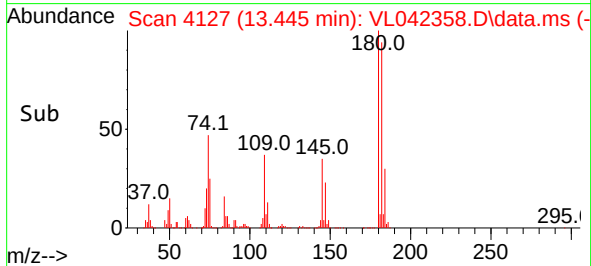
#81
 1,2,4-Trichlorobenzene
 Concen: 9.417 ppbv
 RT: 13.445 min Scan# 41
 Delta R.T. 0.003 min
 Lab File: VL042358.D
 Acq: 17 Apr 2025 15:39

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 : VL042359.D
 Acq On : 17 Apr 2025 16:12
 Operator : SY/MD
 Sample : Q1665-15
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B14-1-3242025

Quant Time: Apr 18 02:37:51 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	123457	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	354157	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	318284	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	265265	10.142	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.400%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.499	85	9411	0.431	ppbv	90
3) Chlorodifluoromethane	1.787	51	2267	0.109	ppbv	94
4) Chloromethane	1.531	50	5667	0.657	ppbv	96
6) Bromomethane	1.674	94	376	0.093	ppbv #	23
7) Chloroethane	1.703	64	369	0.109	ppbv #	44
9) Propene	1.489	41	15185	1.605	ppbv	84
10) Heptane	4.981	43	1318	0.050	ppbv #	1
11) Trichlorofluoromethane	1.877	101	4367	0.211	ppbv	92
12) 1,1,2-Trichlorotrifluo...	2.136	101	1357	0.080	ppbv	86
13) Ethanol	1.722	45	25940	17.253	ppbv	75
15) Acetone	1.835	43	775779	38.385	ppbv	99
16) 1,3-Butadiene	1.599	39	2667	0.276	ppbv #	75
17) tert-Butyl alcohol	2.046	59	3528	0.141	ppbv #	74
19) Isopropyl Alcohol	1.887	45	1485068	132.276	ppbv #	56
20) Methylene Chloride	2.062	84	9718	1.228	ppbv #	92
21) Allyl Chloride	1.962	41	7172	0.514	ppbv #	23
23) Vinyl Acetate	2.454	43	17524	2.142	ppbv #	82
25) Ethyl Acetate	2.826	43	36321	0.729	ppbv #	83
26) Hexane	2.826	57	54108	2.683	ppbv #	32
27) Carbon Disulfide	2.149	76	930	0.043	ppbv #	2
29) Chloroform	2.852	83	5846	0.205	ppbv	85
32) 1,1,1-Trichloroethane	3.370	97	1105	0.034	ppbv #	77
34) 2-Butanone	2.560	43	20685	0.739	ppbv	98
35) Carbon Tetrachloride	3.761	117	2133	0.067	ppbv #	67
36) Benzene	3.658	78	6728	0.176	ppbv #	92
37) 1,2-Dichloroethane	3.217	62	697	0.030	ppbv	99
39) 1,2-Dichloropropane	3.959	63	94322	6.626	ppbv #	22
40) 1,4-Dioxane	4.596	88	4501	0.575	ppbv #	34
41) Tetrahydrofuran	3.072	42	1092	0.067	ppbv	91
44) 2,2,4-Trimethylpentane	4.642	57	7803	0.118	ppbv #	56
51) 2-Hexanone	7.438	43	31778	0.761	ppbv #	27
53) Toluene	6.936	91	40500	0.884	ppbv	97
58) Ethyl Benzene	9.354	91	315931	5.010	ppbv	99
59) m/p-Xylene	9.532	91	1082733	21.313	ppbv	100
60) o-Xylene	9.963	91	207265	4.051	ppbv	98
61) Styrene	9.869	104	1788	0.073	ppbv #	26
64) n-propylbenzene	10.992	120	602	0.032	ppbv #	17
65) tert-Butylbenzene	11.536	119	3938	0.057	ppbv #	92
69) p-Isopropyltoluene	11.927	119	5290	0.063	ppbv #	86
70) n-Butylbenzene	12.287	91	2923	0.034	ppbv #	72
72) 4-Ethyltoluene	11.128	105	2922	0.047	ppbv #	56
73) 1,3,5-Trimethylbenzene	11.202	105	6133	0.111	ppbv	90
74) 1,2,4-Trimethylbenzene	11.536	105	17646	0.274	ppbv #	70

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042359.D
Acq On : 17 Apr 2025 16:12
Operator : SY/MD
Sample : Q1665-15
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

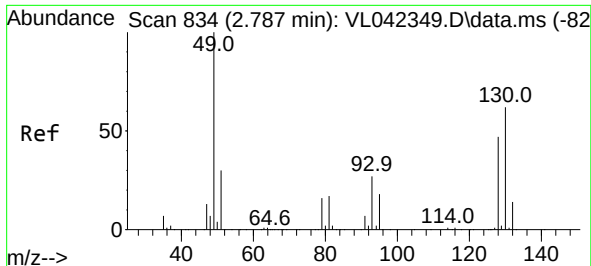
Instrument :
MSVOA_L
ClientSampleId :
IA-B14-1-3242025

Quant Time: Apr 18 02:37:51 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)
76) 1,4-Dichlorobenzene	11.675	146	1179	0.035	ppbv	82
77) 1,2-Dichlorobenzene	11.943	146	1149	0.035	ppbv	86
79) Naphthalene	13.513	128	10816	0.140	ppbv	97
80) Naphthalene,2-methyl-	14.588	142	1898	0.043	ppbv	92
81) 1,2,4-Trichlorobenzene	13.442	180	2886	0.087	ppbv	92

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

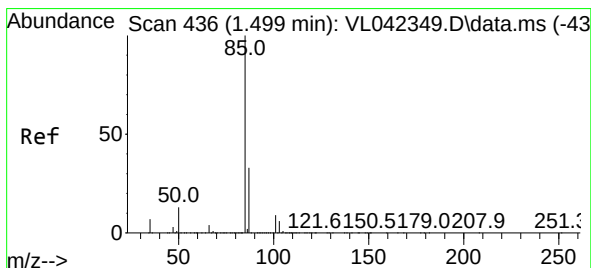
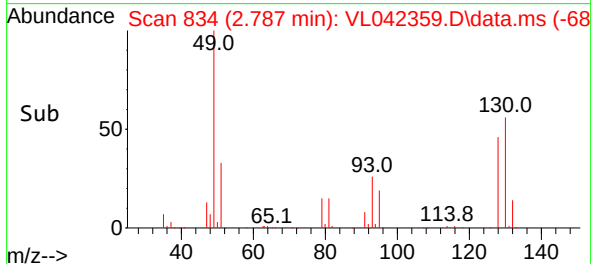
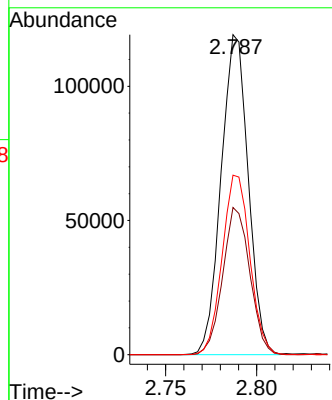
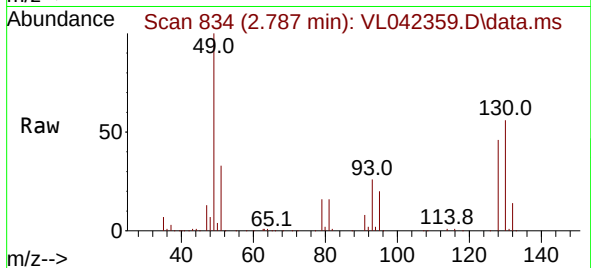
- 1
- 2
- 3
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- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. -0.000 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

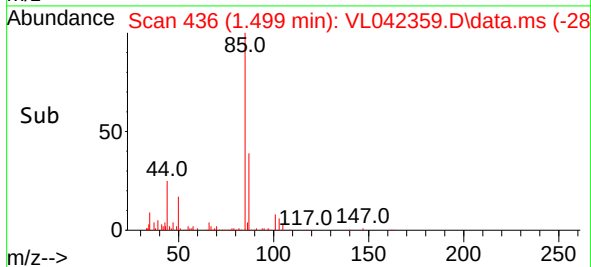
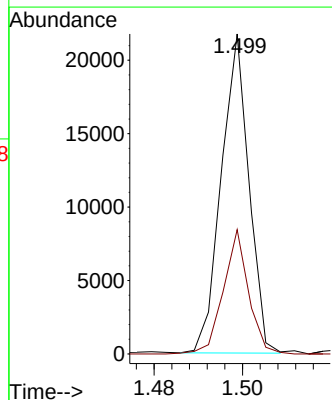
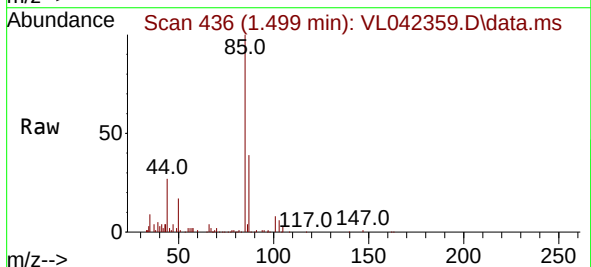
Instrument :
MSVOA_L
ClientSampleId :
IA-B14-1-3242025

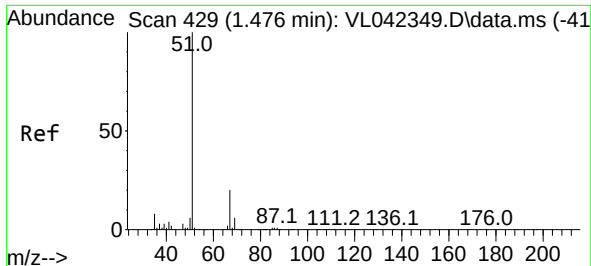
Tgt Ion: 49 Resp: 123457
Ion Ratio Lower Upper
49 100
128 46.0 22.8 68.4
130 57.2 29.3 88.0



#2
Dichlorodifluoromethane
Concen: 0.431 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

Tgt Ion: 85 Resp: 9411
Ion Ratio Lower Upper
85 100
87 38.7 26.6 39.8

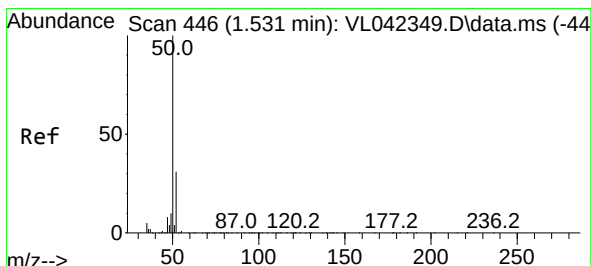
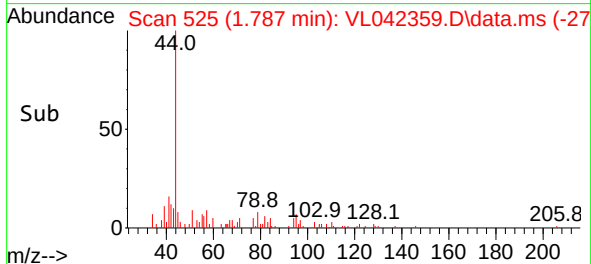
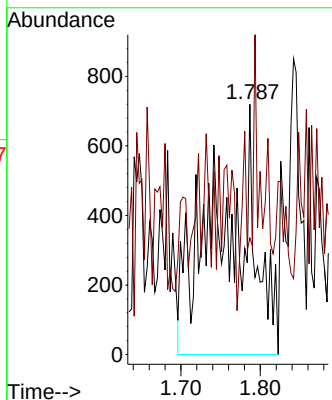
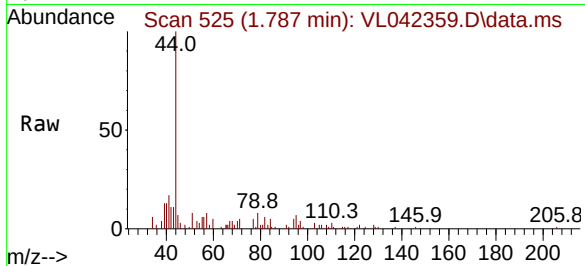




#3
Chlorodifluoromethane
Concen: 0.109 ppbv
RT: 1.787 min Scan# 51
Delta R.T. 0.311 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

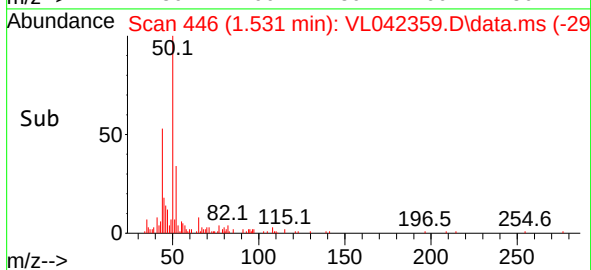
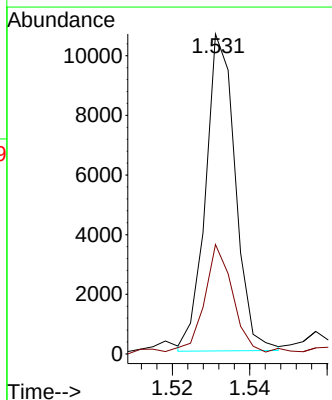
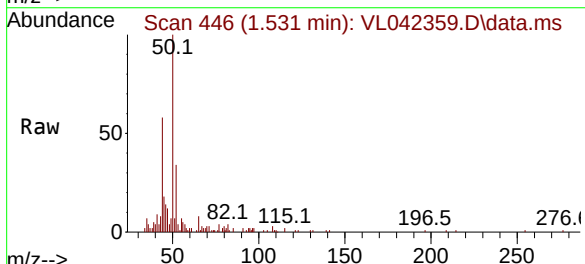
Instrument :
MSVOA_L
ClientSampleId :
IA-B14-1-3242025

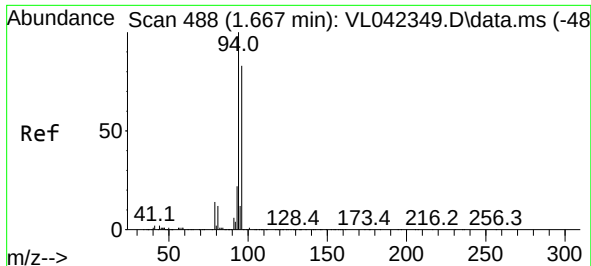
Tgt Ion: 51 Resp: 2267
Ion Ratio Lower Upper
51 100
67 23.0 16.2 24.4



#4
Chloromethane
Concen: 0.657 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

Tgt Ion: 50 Resp: 5667
Ion Ratio Lower Upper
50 100
52 33.3 24.7 37.1

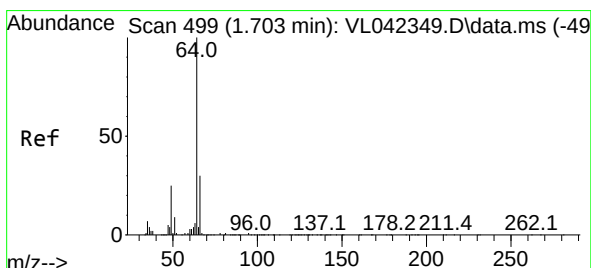
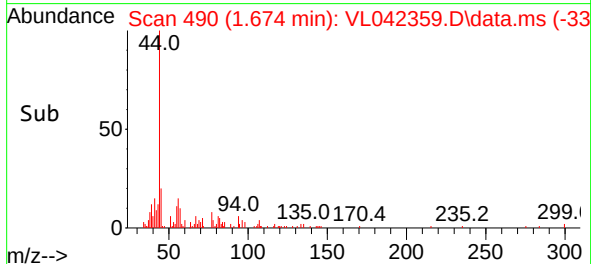
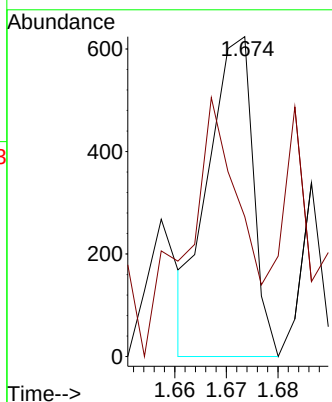
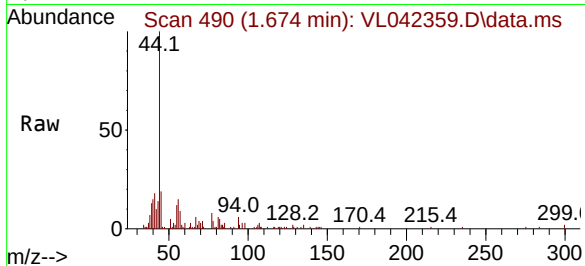




#6
Bromomethane
Concen: 0.093 ppbv
RT: 1.674 min Scan# 491
Delta R.T. 0.006 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

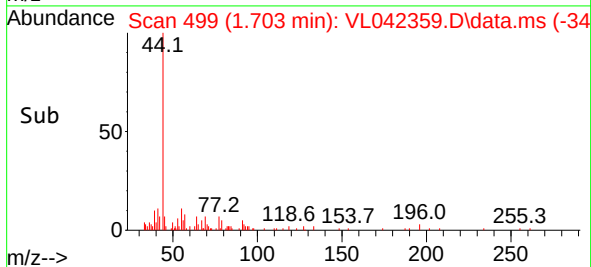
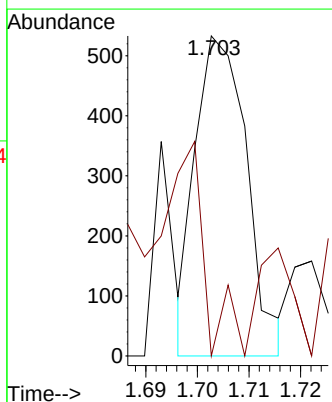
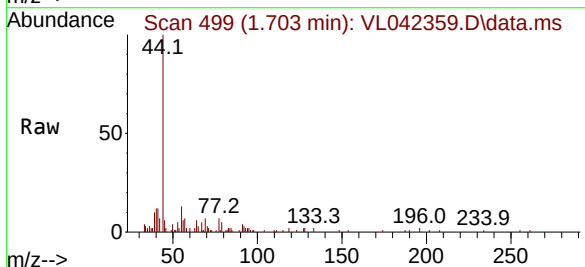
Instrument :
MSVOA_1
ClientSampleId :
IA-B14-1-3242025

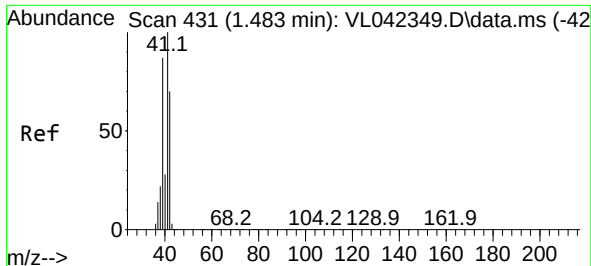
Tgt Ion: 94 Resp: 376
Ion Ratio Lower Upper
94 100
96 13.9 66.2 99.2#



#7
Chloroethane
Concen: 0.109 ppbv
RT: 1.703 min Scan# 499
Delta R.T. 0.000 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

Tgt Ion: 64 Resp: 369
Ion Ratio Lower Upper
64 100
66 0.0 24.6 37.0#

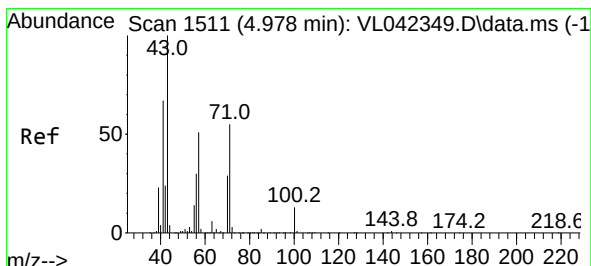
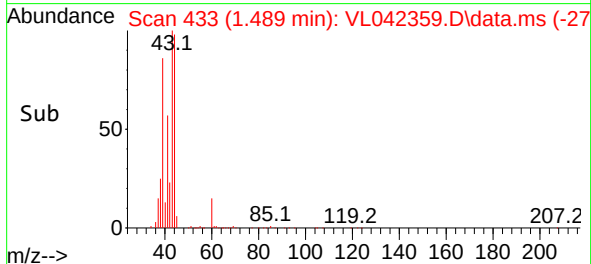
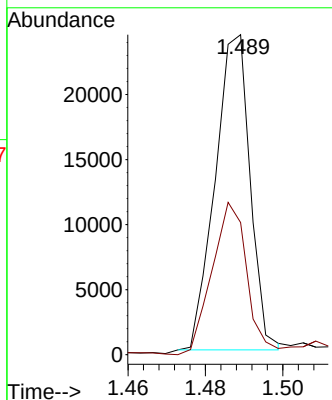
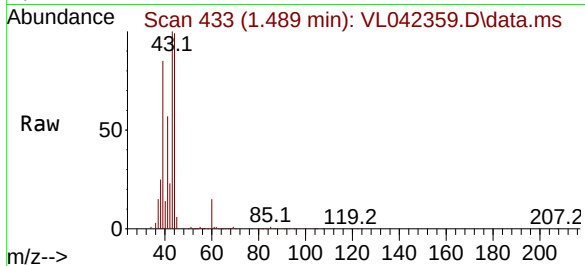




#9
Propene
Concen: 1.605 ppbv
RT: 1.489 min Scan# 41
Delta R.T. 0.006 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

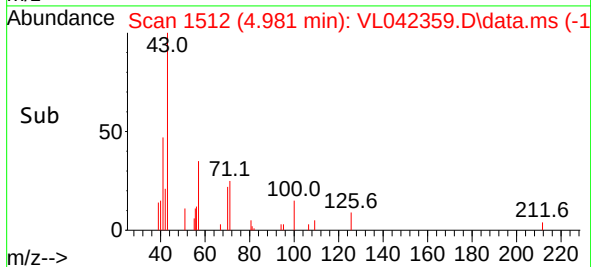
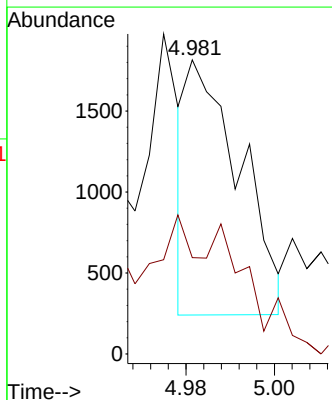
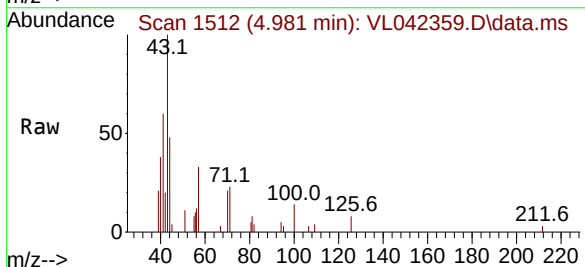
Instrument :
MSVOA_1
ClientSampleId :
IA-B14-1-3242025

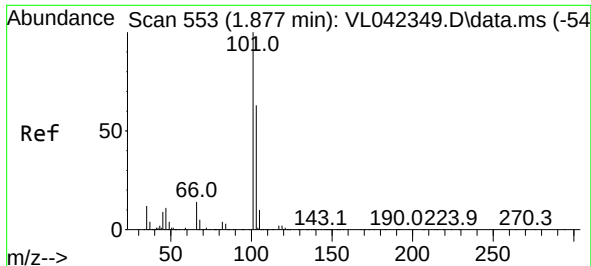
Tgt Ion: 41 Resp: 15185
Ion Ratio Lower Upper
41 100
42 57.1 56.2 84.4



#10
Heptane
Concen: 0.050 ppbv
RT: 4.981 min Scan# 1512
Delta R.T. 0.003 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

Tgt Ion: 43 Resp: 1318
Ion Ratio Lower Upper
43 100
57 135.1 39.9 59.9#





#11

Trichlorofluoromethane

Concen: 0.211 ppbv

RT: 1.877 min Scan# 511

Delta R.T. 0.000 min

Lab File: VL042359.D

Acq: 17 Apr 2025 16:12

Instrument :

MSVOA_L

ClientSampleId :

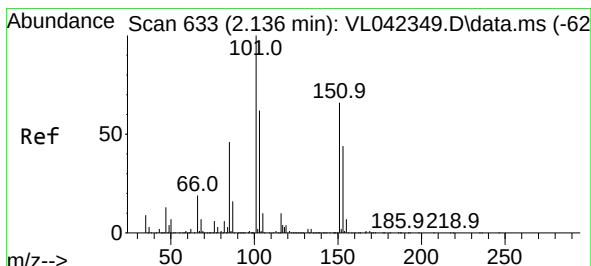
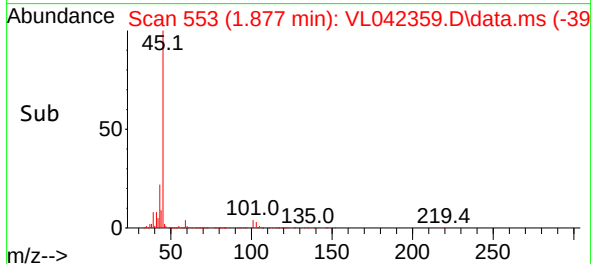
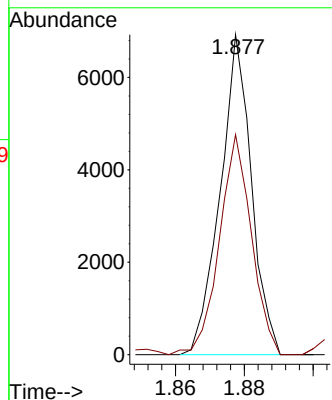
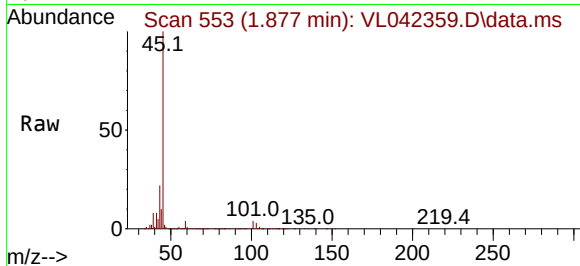
IA-B14-1-3242025

Tgt Ion:101 Resp: 4367

Ion Ratio Lower Upper

101 100

103 68.8 50.1 75.1



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.080 ppbv

RT: 2.136 min Scan# 633

Delta R.T. 0.000 min

Lab File: VL042359.D

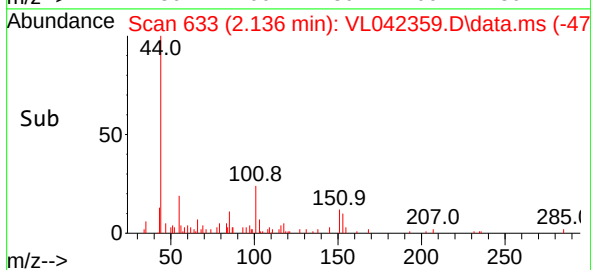
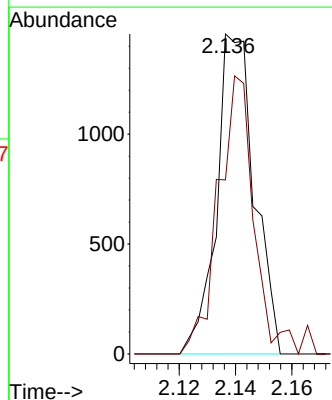
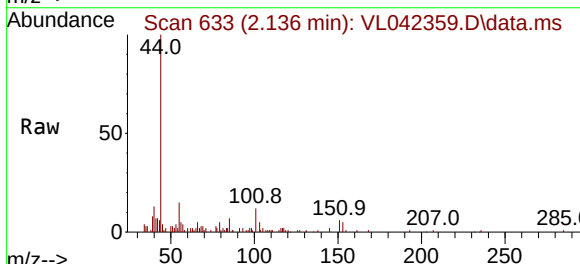
Acq: 17 Apr 2025 16:12

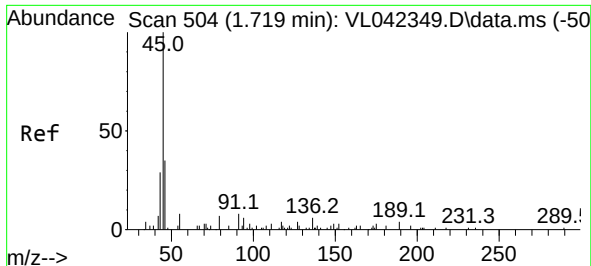
Tgt Ion:101 Resp: 1357

Ion Ratio Lower Upper

101 100

151 83.0 57.0 85.6

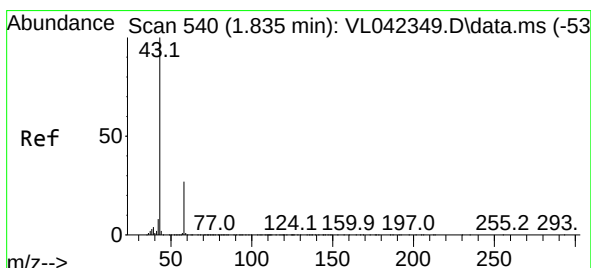
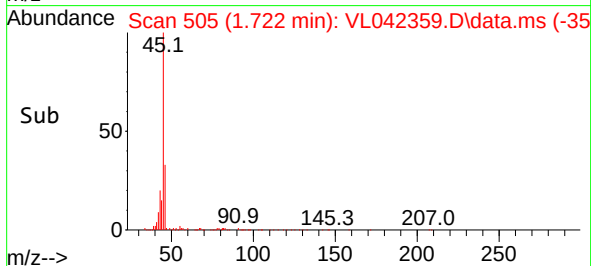
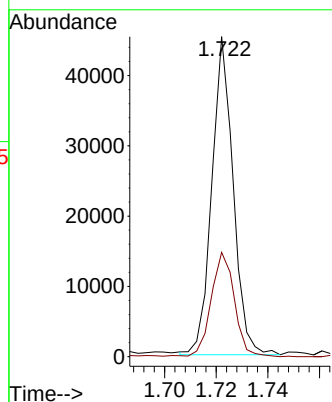
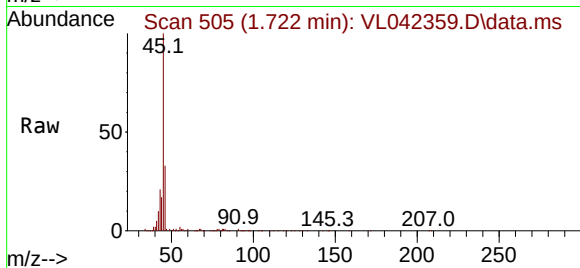




#13
Ethanol
Concen: 17.253 ppbv
RT: 1.722 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

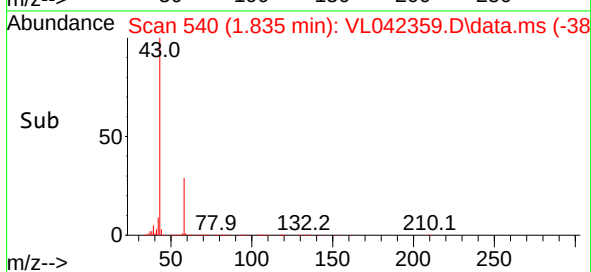
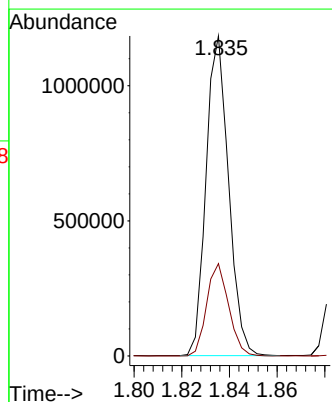
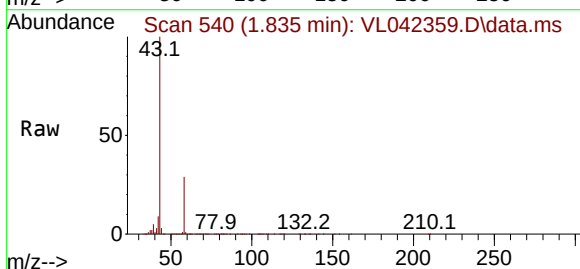
Instrument :
MSVOA_L
ClientSampleId :
IA-B14-1-3242025

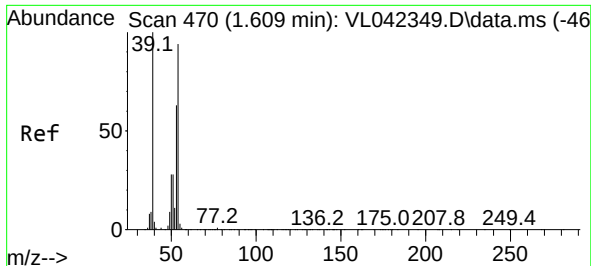
Tgt Ion: 45 Resp: 25940
Ion Ratio Lower Upper
45 100
46 36.5 21.9 87.7



#15
Acetone
Concen: 38.385 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

Tgt Ion: 43 Resp: 775779
Ion Ratio Lower Upper
43 100
58 28.3 22.4 33.6





#16

1,3-Butadiene

Concen: 0.276 ppbv

RT: 1.599 min Scan# 4

Delta R.T. -0.010 min

Lab File: VL042359.D

Acq: 17 Apr 2025 16:12

Instrument :

MSVOA_L

ClientSampleId :

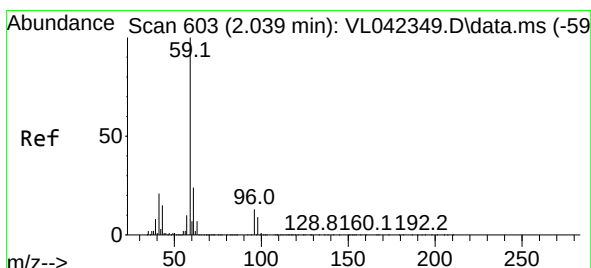
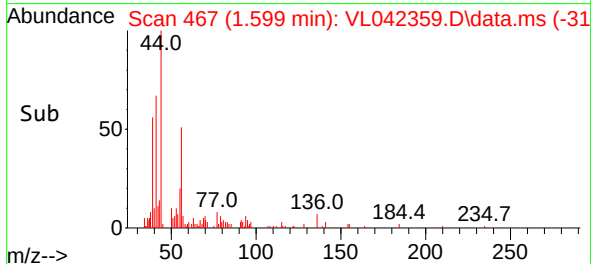
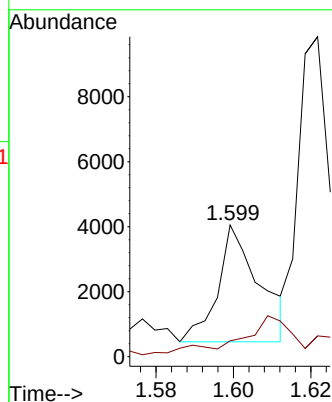
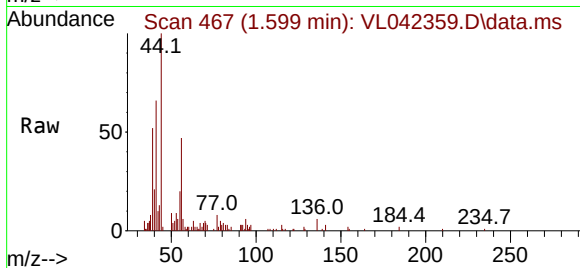
IA-B14-1-3242025

Tgt Ion: 39 Resp: 2667

Ion Ratio Lower Upper

39 100

54 59.2 64.9 97.3#



#17

tert-Butyl alcohol

Concen: 0.141 ppbv

RT: 2.046 min Scan# 605

Delta R.T. 0.006 min

Lab File: VL042359.D

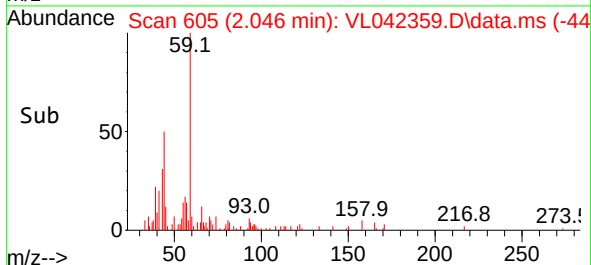
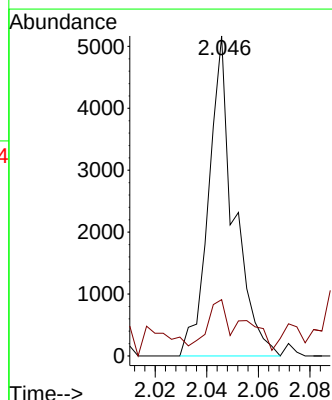
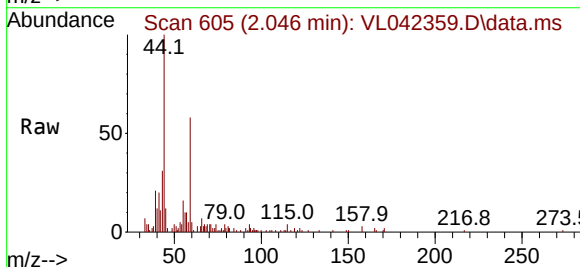
Acq: 17 Apr 2025 16:12

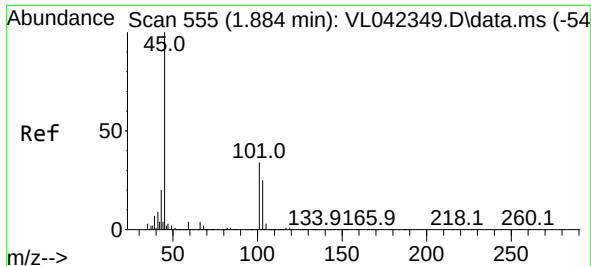
Tgt Ion: 59 Resp: 3528

Ion Ratio Lower Upper

59 100

57 20.6 8.7 13.1#

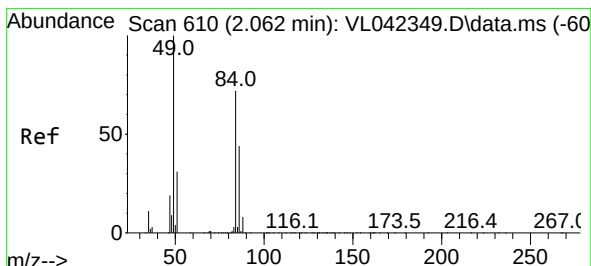
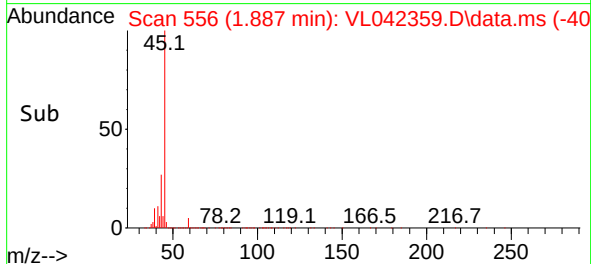
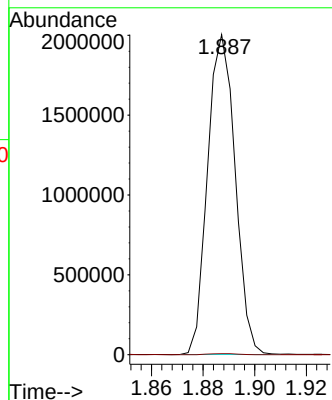
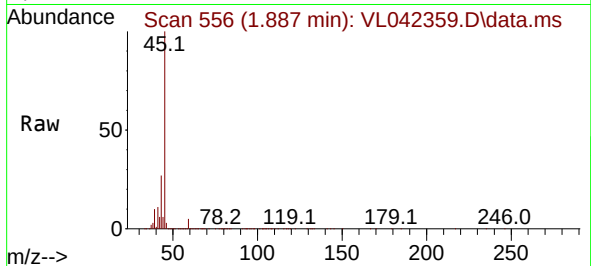




#19
Isopropyl Alcohol
Concen: 132.276 ppbv
RT: 1.887 min Scan# 511
Delta R.T. 0.003 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

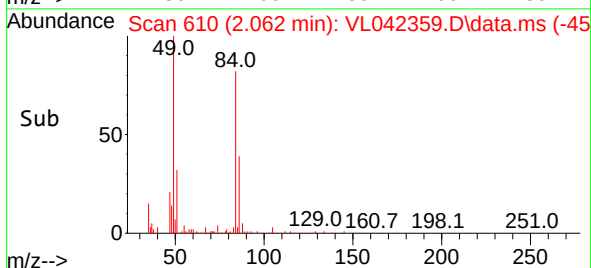
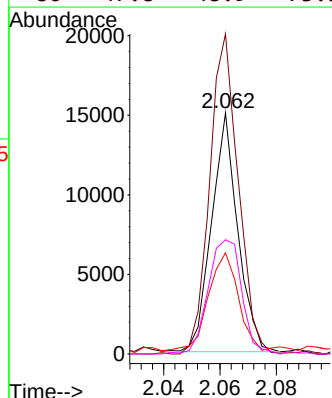
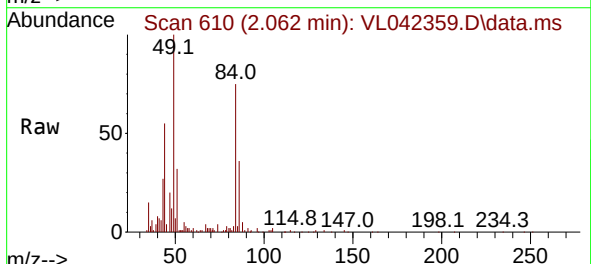
Instrument :
MSVOA_L
ClientSampleId :
IA-B14-1-3242025

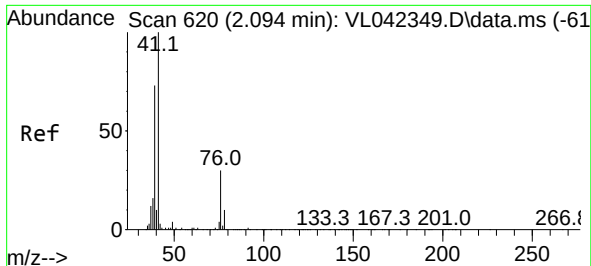
Tgt Ion: 45 Resp: 1485068
Ion Ratio Lower Upper
45 100
58 14.8 34.5 51.7#



#20
Methylene Chloride
Concen: 1.228 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

Tgt Ion: 84 Resp: 9718
Ion Ratio Lower Upper
84 100
49 134.0 111.6 167.4
51 39.7 35.1 52.7
86 47.8 48.9 73.3#

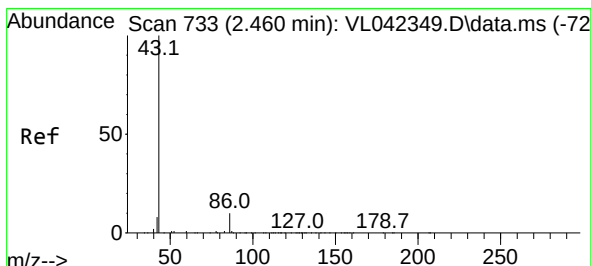
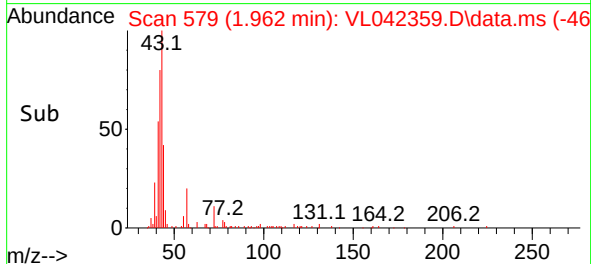
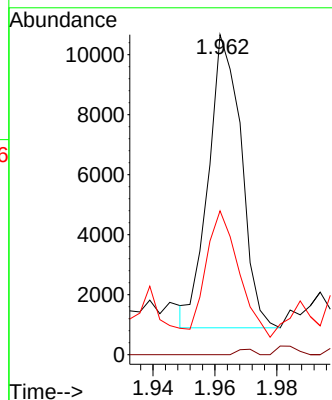
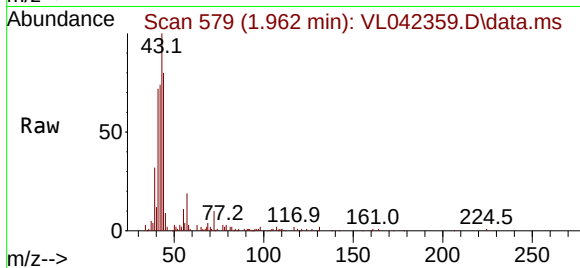




#21
 Allyl Chloride
 Concen: 0.514 ppbv
 RT: 1.962 min Scan# 51
 Delta R.T. -0.133 min
 Lab File: VL042359.D
 Acq: 17 Apr 2025 16:12

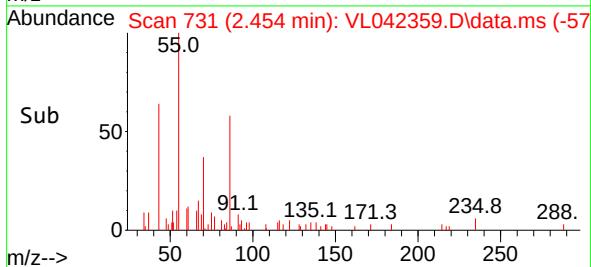
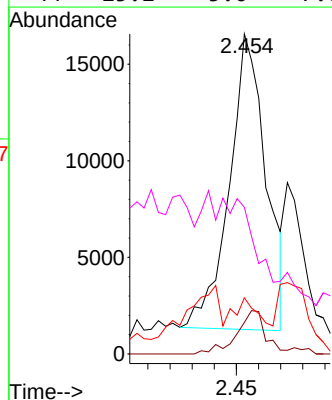
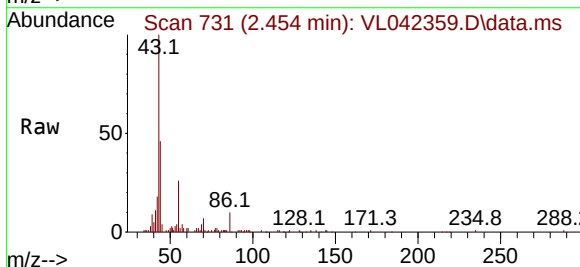
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B14-1-3242025

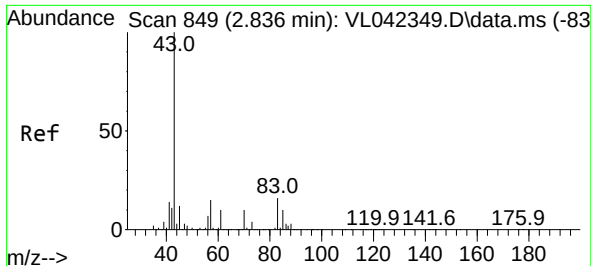
Tgt Ion:	41	Resp:	7172
Ion Ratio	Lower	Upper	
41	100		
76	3.6	24.8	37.2#
39	0.0	60.6	90.8#



#23
 Vinyl Acetate
 Concen: 2.142 ppbv
 RT: 2.454 min Scan# 731
 Delta R.T. -0.006 min
 Lab File: VL042359.D
 Acq: 17 Apr 2025 16:12

Tgt Ion:	43	Resp:	17524
Ion Ratio	Lower	Upper	
43	100		
86	10.8	6.5	9.7#
42	9.4	7.8	11.8
44	25.2	5.0	7.6#

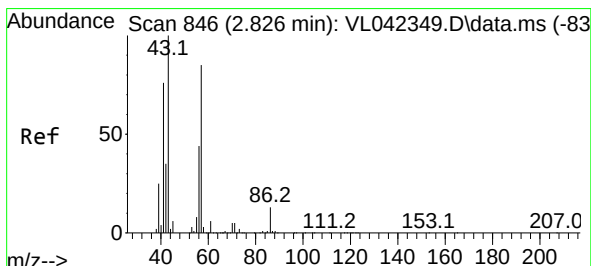
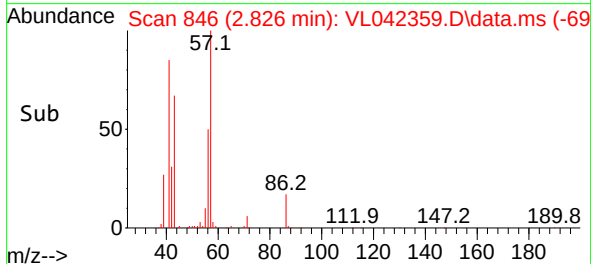
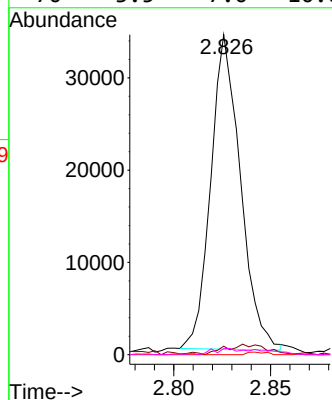
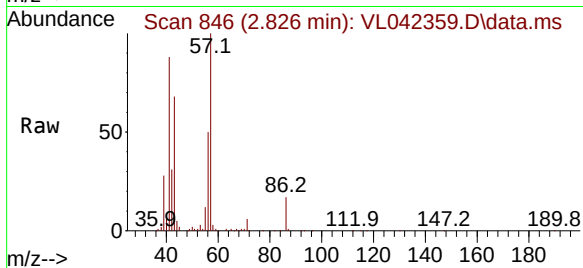




#25
Ethyl Acetate
Concen: 0.729 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.010 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

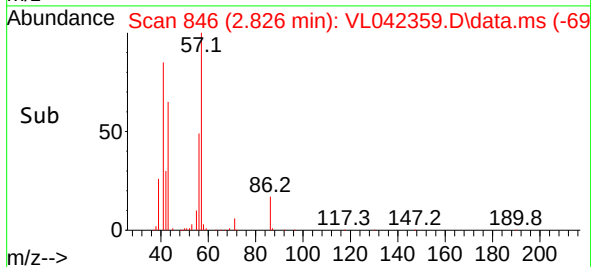
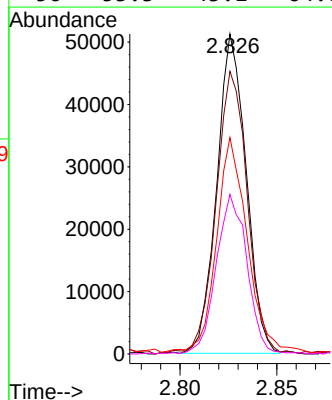
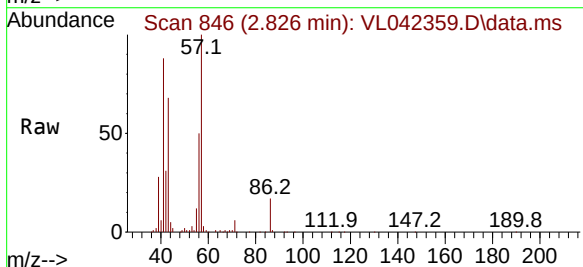
Instrument :
MSVOA_L
ClientSampleId :
IA-B14-1-3242025

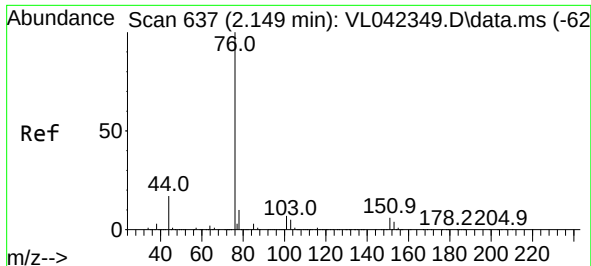
Tgt Ion:	43	Resp:	36321
Ion	Ratio	Lower	Upper
43	100		
45	5.5	8.3	12.5#
61	0.5	7.3	10.9#
70	3.5	7.0	10.6#



#26
Hexane
Concen: 2.683 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

Tgt Ion:	57	Resp:	54108
Ion	Ratio	Lower	Upper
57	100		
41	93.4	77.9	116.9
43	70.0	208.4	312.6#
56	53.3	43.1	64.7

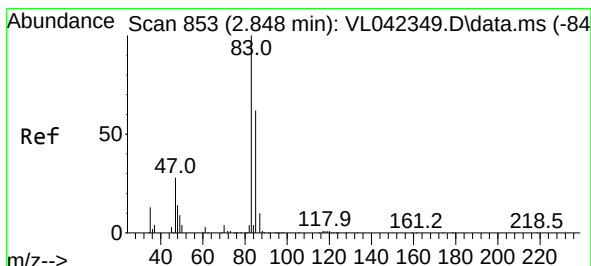
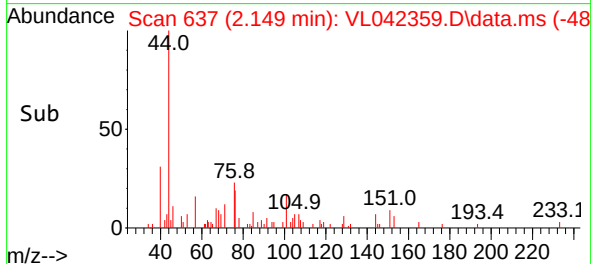
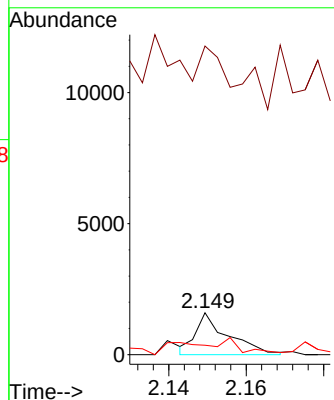
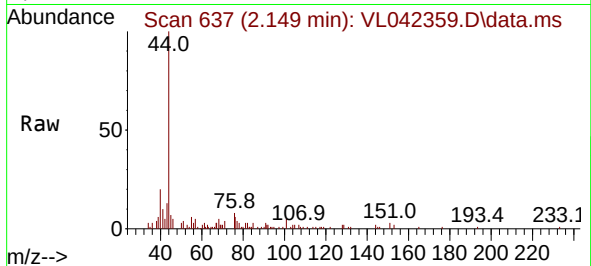




#27
Carbon Disulfide
Concen: 0.043 ppbv
RT: 2.149 min Scan# 61
Delta R.T. 0.000 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

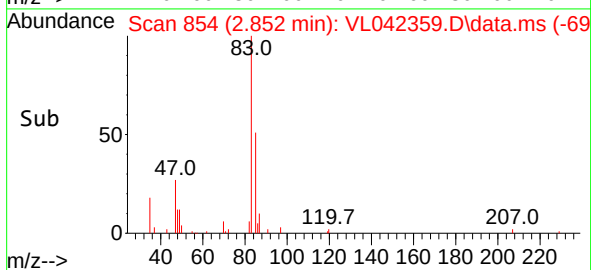
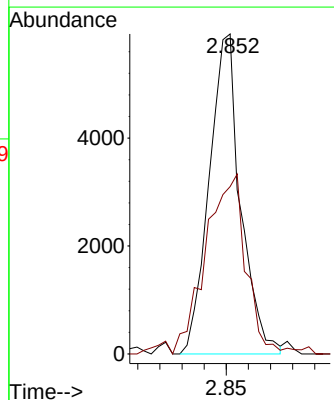
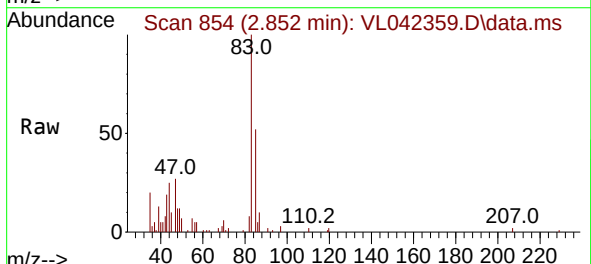
Instrument :
MSVOA_L
ClientSampleId :
IA-B14-1-3242025

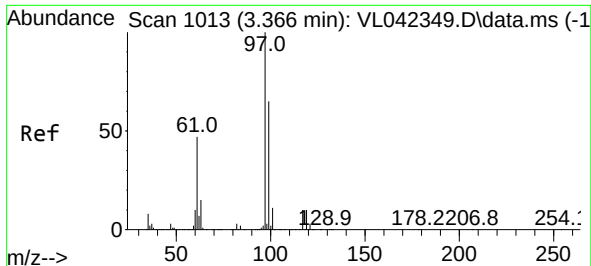
Tgt Ion: 76 Resp: 930
Ion Ratio Lower Upper
76 100
44 0.0 15.5 23.3#
78 84.5 9.3 13.9#



#29
Chloroform
Concen: 0.205 ppbv
RT: 2.852 min Scan# 854
Delta R.T. 0.003 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

Tgt Ion: 83 Resp: 5846
Ion Ratio Lower Upper
83 100
85 51.1 50.0 75.0

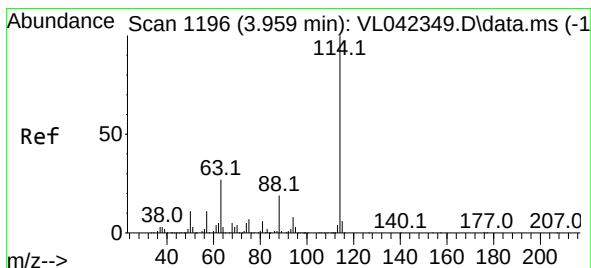
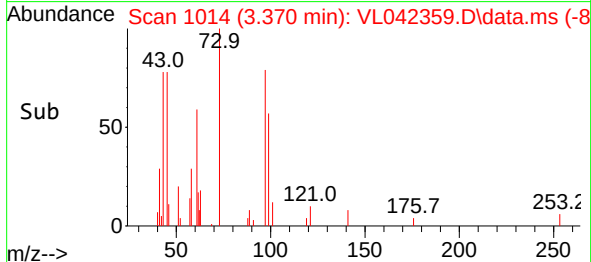
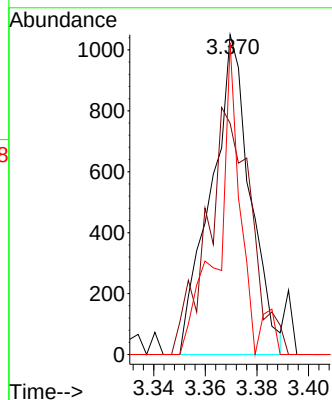
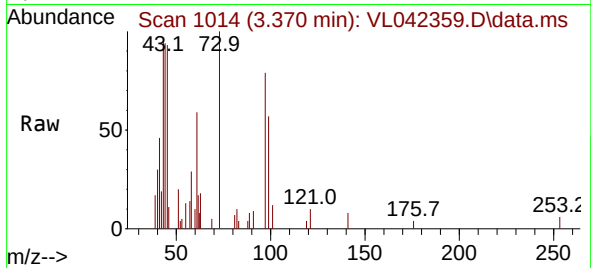




#32
 1,1,1-Trichloroethane
 Concen: 0.034 ppbv
 RT: 3.370 min Scan# 1105
 Delta R.T. 0.003 min
 Lab File: VL042359.D
 Acq: 17 Apr 2025 16:12

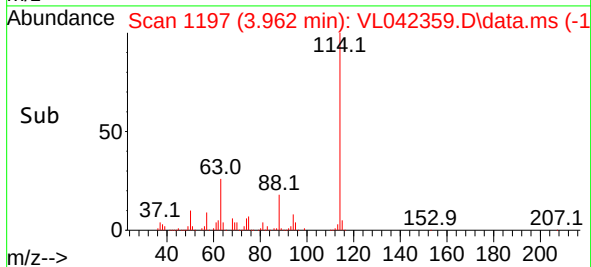
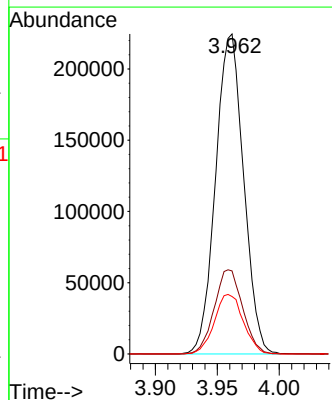
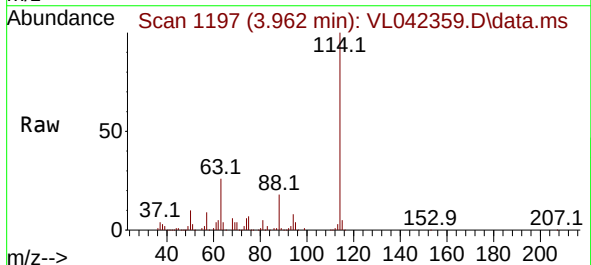
Instrument :
 MSVOA_1
 ClientSampleId :
 IA-B14-1-3242025

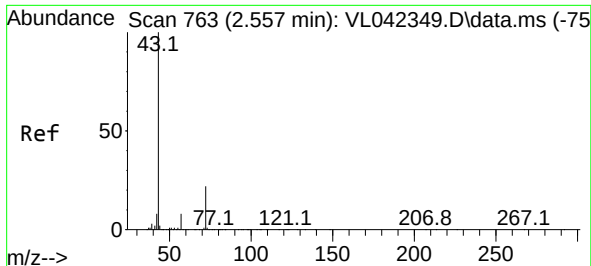
Tgt Ion: 97	Resp:	1105
Ion Ratio	Lower	Upper
97	100	
99	86.6	51.0 76.4#
61	58.4	38.8 58.2#



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.962 min Scan# 1197
 Delta R.T. 0.003 min
 Lab File: VL042359.D
 Acq: 17 Apr 2025 16:12

Tgt Ion: 114	Resp:	354157
Ion Ratio	Lower	Upper
114	100	
63	26.6	21.8 32.6
88	19.2	15.5 23.3

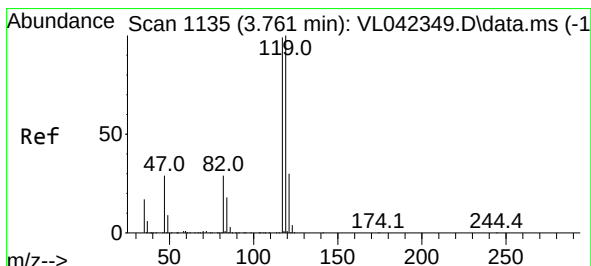
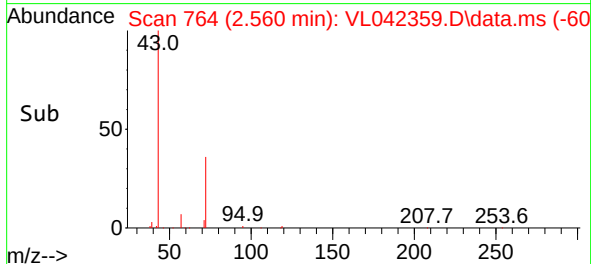
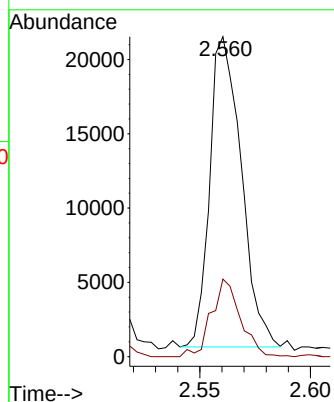
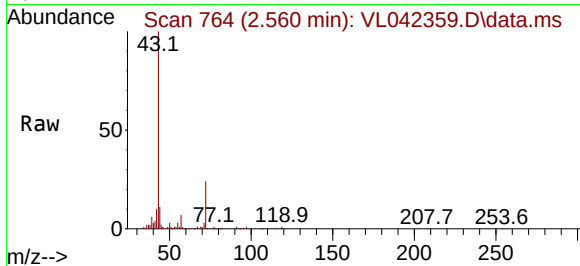




#34
2-Butanone
Concen: 0.739 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.003 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

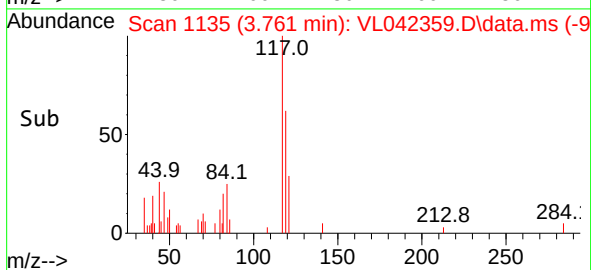
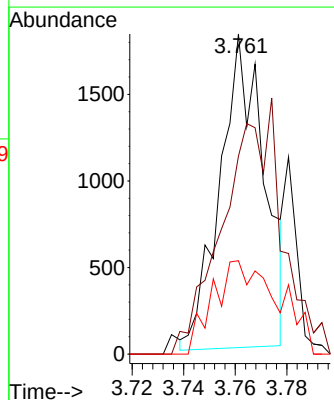
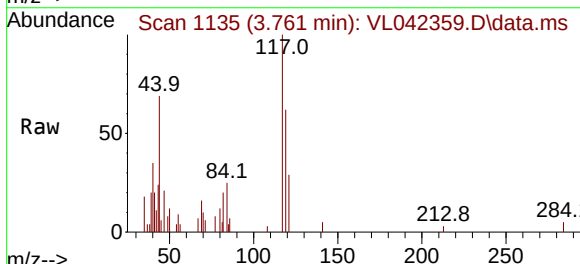
Instrument :
MSVOA_L
ClientSampleId :
IA-B14-1-3242025

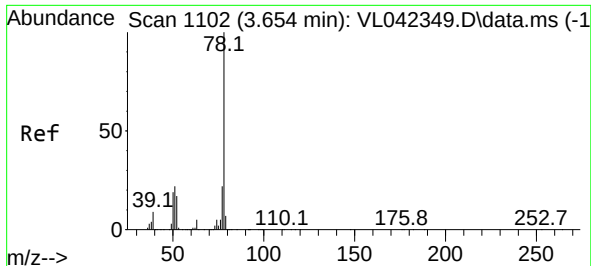
Tgt Ion: 43 Resp: 20685
Ion Ratio Lower Upper
43 100
72 23.5 18.2 27.2



#35
Carbon Tetrachloride
Concen: 0.067 ppbv
RT: 3.761 min Scan# 1135
Delta R.T. 0.000 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

Tgt Ion: 117 Resp: 2133
Ion Ratio Lower Upper
117 100
119 57.3 80.5 120.7#
121 30.5 24.2 36.2

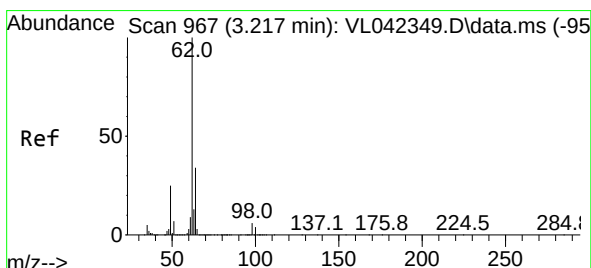
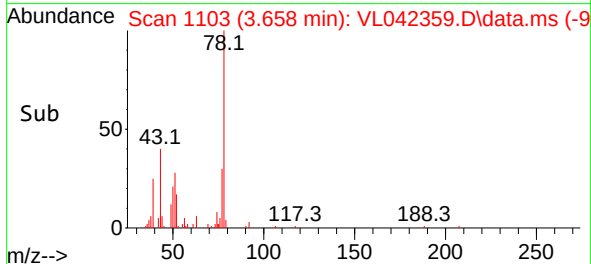
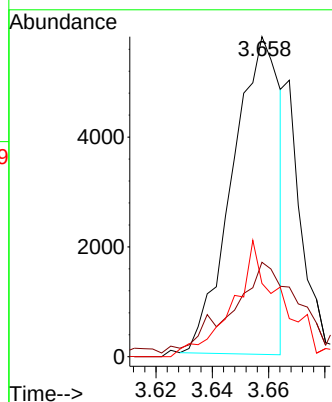
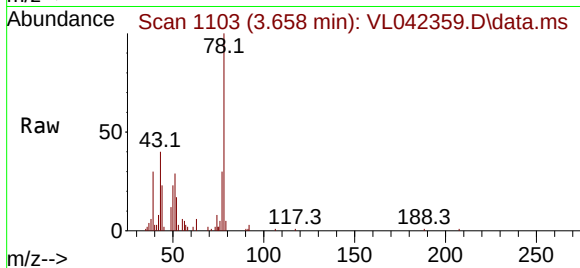




#36
Benzene
Concen: 0.176 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. 0.003 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

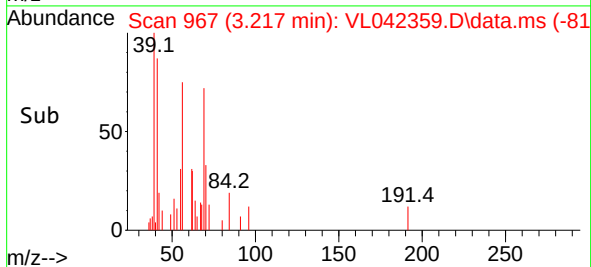
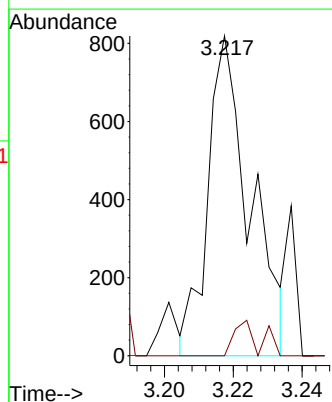
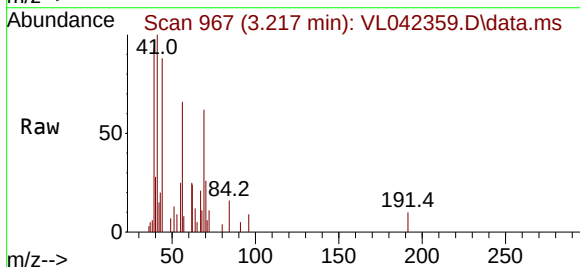
Instrument :
MSVOA_L
ClientSampleId :
IA-B14-1-3242025

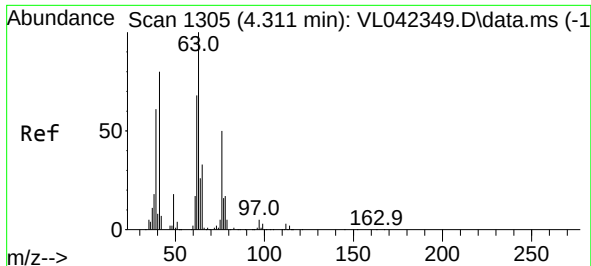
Tgt Ion: 78 Resp: 6728
Ion Ratio Lower Upper
78 100
77 27.2 17.4 26.0#
50 20.8 15.5 23.3



#37
1,2-Dichloroethane
Concen: 0.030 ppbv
RT: 3.217 min Scan# 967
Delta R.T. 0.000 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

Tgt Ion: 62 Resp: 697
Ion Ratio Lower Upper
62 100
98 6.6 5.1 7.7





#39

1,2-Dichloropropane

Concen: 6.626 ppbv

RT: 3.959 min Scan# 1196

Delta R.T. -0.353 min

Lab File: VL042359.D

Acq: 17 Apr 2025 16:12

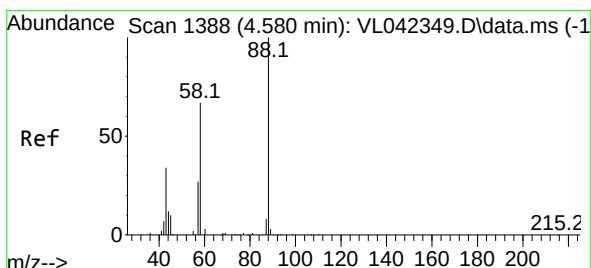
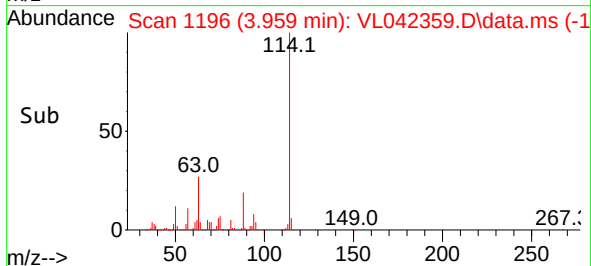
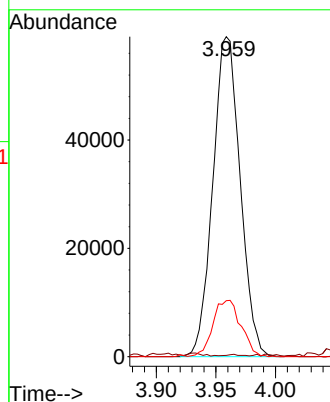
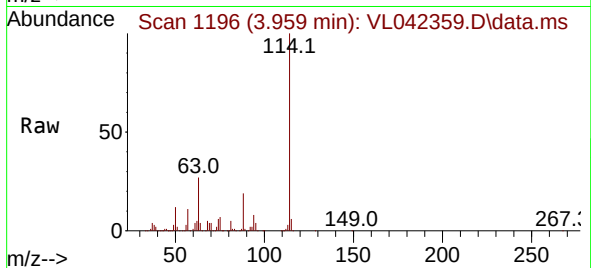
Instrument :

MSVOA_L

ClientSampleId :

IA-B14-1-3242025

Tgt Ion: 63	Resp: 94322
Ion Ratio	Lower Upper
63 100	
41 0.1	64.2 96.2#
62 17.5	54.3 81.5#



#40

1,4-Dioxane

Concen: 0.575 ppbv

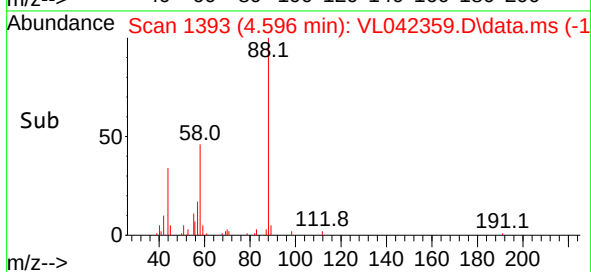
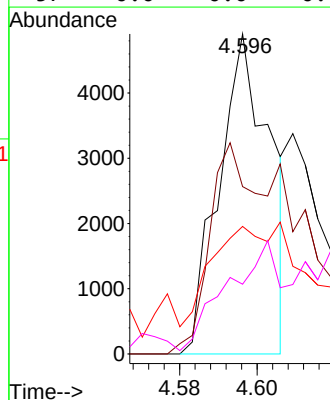
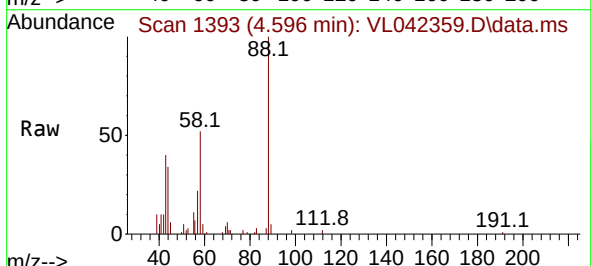
RT: 4.596 min Scan# 1393

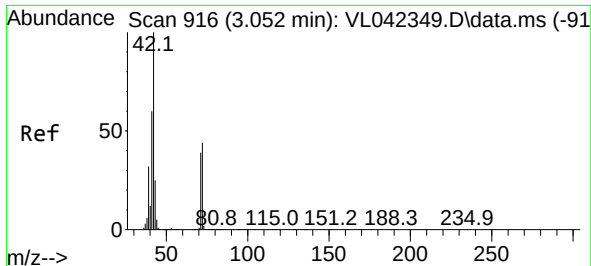
Delta R.T. 0.016 min

Lab File: VL042359.D

Acq: 17 Apr 2025 16:12

Tgt Ion: 88	Resp: 4501
Ion Ratio	Lower Upper
88 100	
58 140.6	61.4 92.0#
43 5.9	23.2 34.8#
57 0.0	0.0 0.0

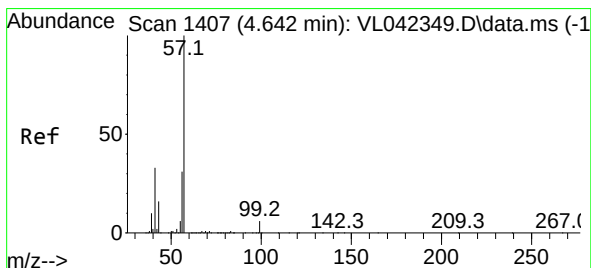
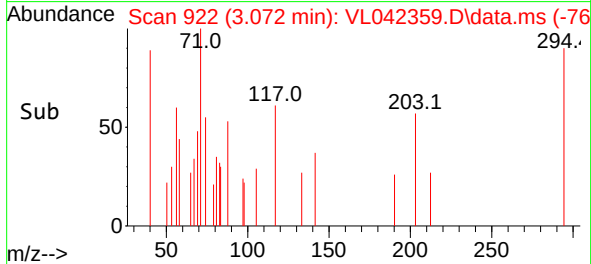
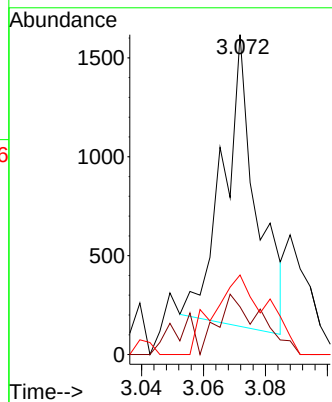
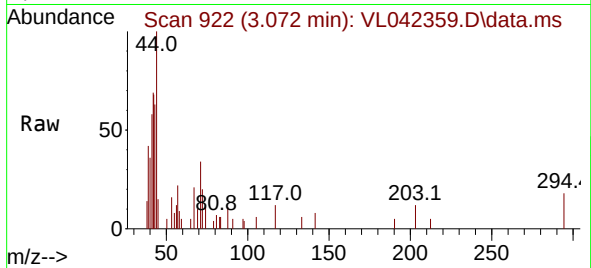




#41
Tetrahydrofuran
Concen: 0.067 ppbv
RT: 3.072 min Scan# 916
Delta R.T. 0.019 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

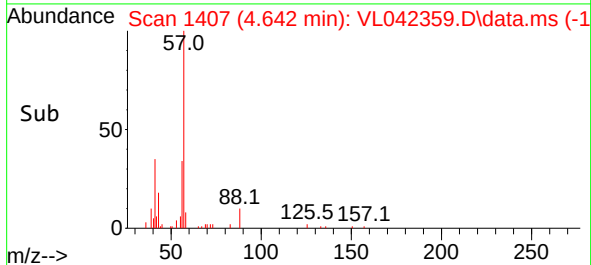
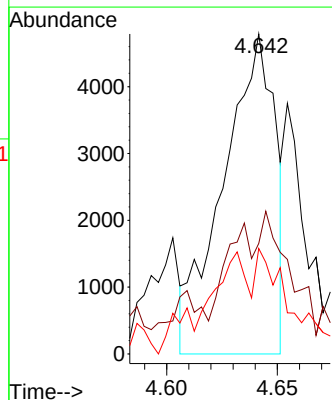
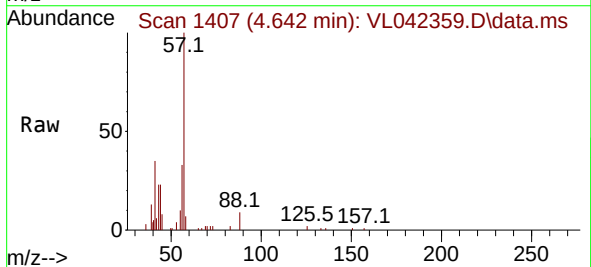
Instrument :
MSVOA_1
ClientSampleId :
IA-B14-1-3242025

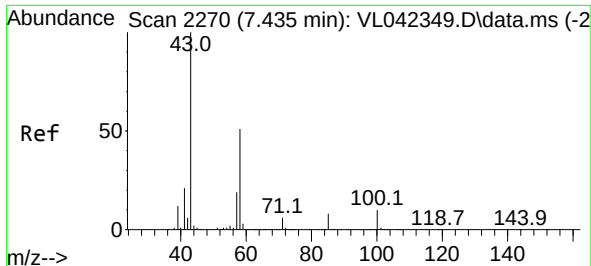
Tgt Ion:	42	Resp:	1092
Ion	Ratio	Lower	Upper
42	100		
72	35.8	32.3	48.5
71	46.2	31.4	47.2



#44
2,2,4-Trimethylpentane
Concen: 0.118 ppbv
RT: 4.642 min Scan# 1407
Delta R.T. 0.000 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

Tgt Ion:	57	Resp:	7803
Ion	Ratio	Lower	Upper
57	100		
41	60.9	27.2	40.8#
56	54.8	25.7	38.5#

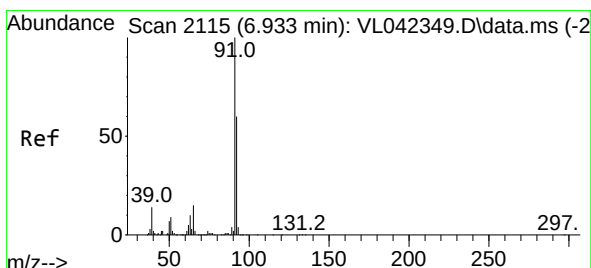
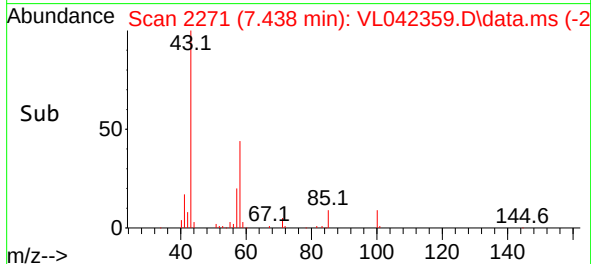
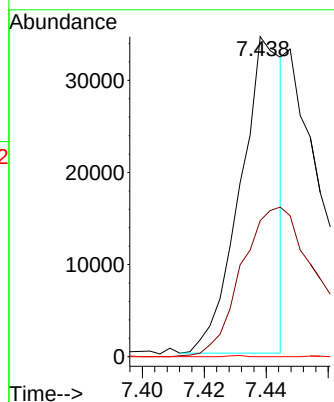
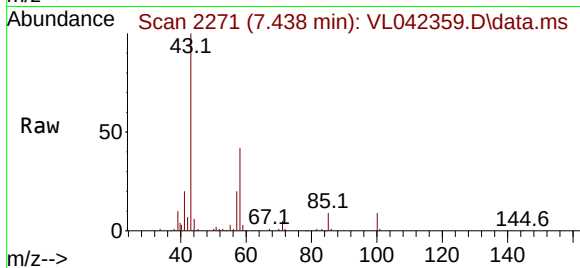




#51
2-Hexanone
Concen: 0.761 ppbv
RT: 7.438 min Scan# 2116
Delta R.T. 0.003 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

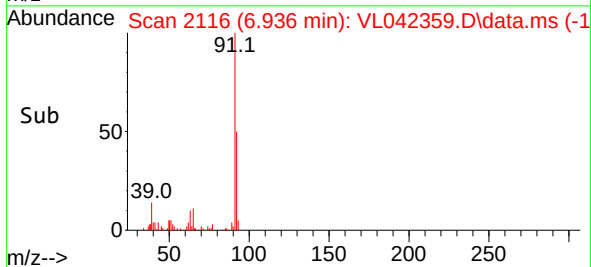
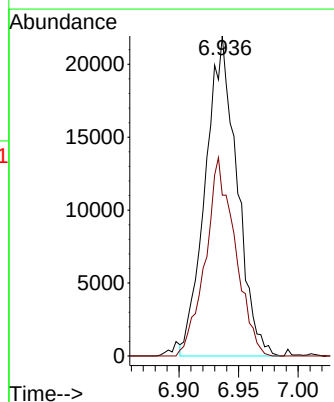
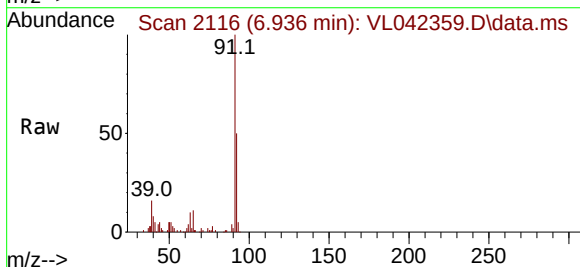
Instrument :
MSVOA_1
ClientSampleId :
IA-B14-1-3242025

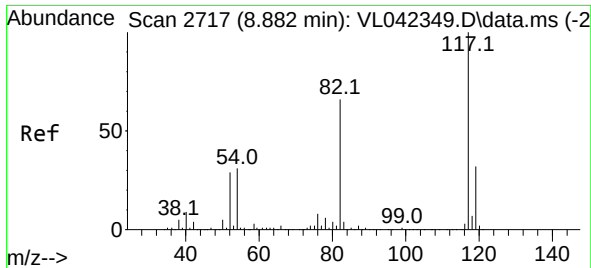
Tgt Ion: 43 Resp: 31778
Ion Ratio Lower Upper
43 100
58 0.0 40.2 60.4#
98 0.0 0.1 0.1#



#53
Toluene
Concen: 0.884 ppbv
RT: 6.936 min Scan# 2116
Delta R.T. 0.003 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

Tgt Ion: 91 Resp: 40500
Ion Ratio Lower Upper
91 100
92 58.2 48.2 72.4

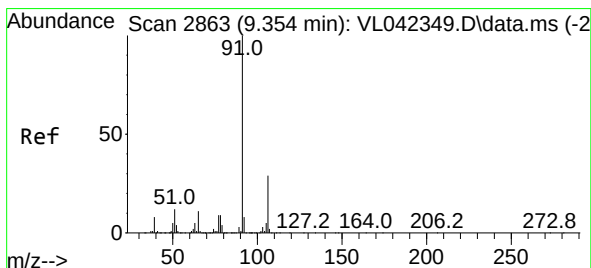
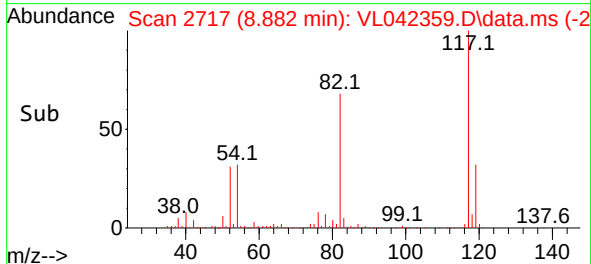
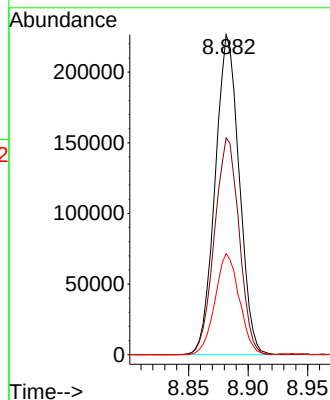
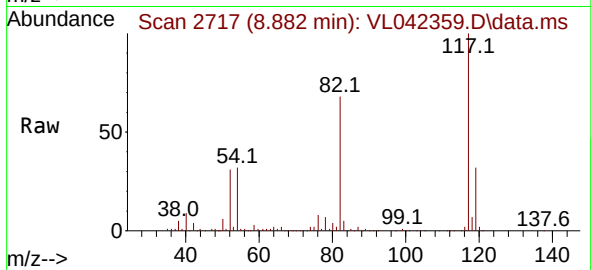




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

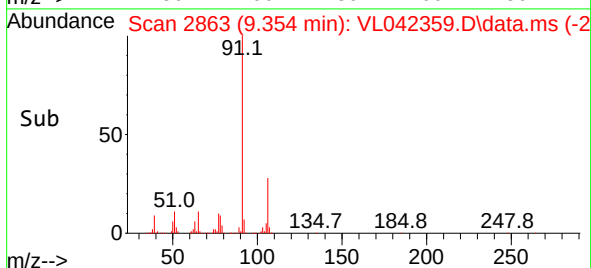
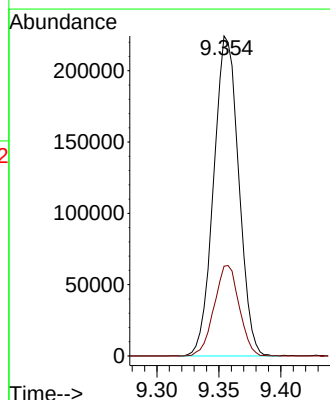
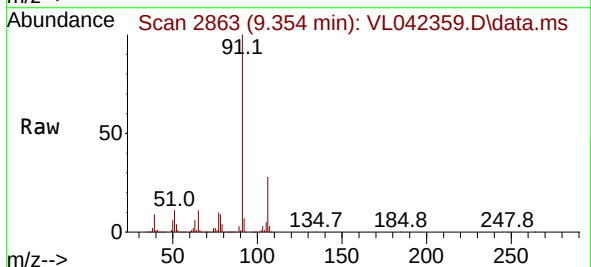
Instrument :
MSVOA_L
ClientSampleId :
IA-B14-1-3242025

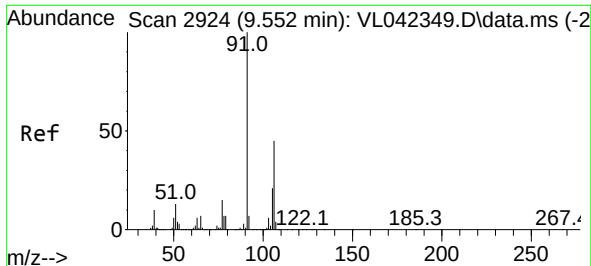
Tgt Ion:117 Resp: 318284
Ion Ratio Lower Upper
117 100
82 69.4 57.8 86.6
119 31.8 25.2 37.8



#58
Ethyl Benzene
Concen: 5.010 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.000 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

Tgt Ion: 91 Resp: 315931
Ion Ratio Lower Upper
91 100
106 28.1 23.0 34.4





#59

m/p-Xylene

Concen: 21.313 ppbv

RT: 9.532 min Scan# 2918

Delta R.T. -0.019 min

Lab File: VL042359.D

Acq: 17 Apr 2025 16:12

Instrument :

MSVOA_L

ClientSampleId :

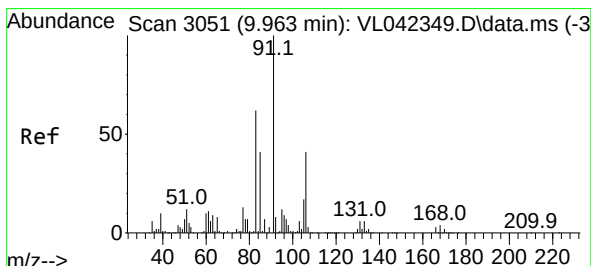
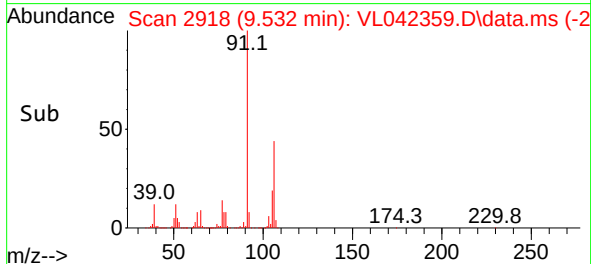
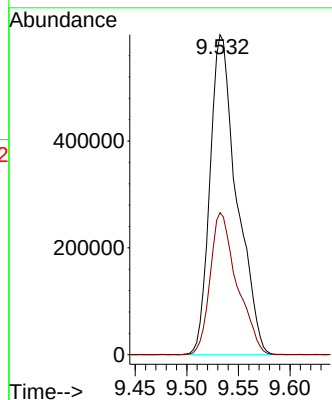
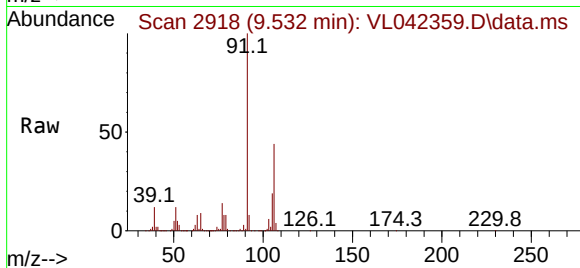
LA-B14-1-3242025

Tgt Ion: 91 Resp: 1082733

Ion Ratio Lower Upper

91 100

106 44.4 35.4 53.2



#60

o-Xylene

Concen: 4.051 ppbv

RT: 9.963 min Scan# 3051

Delta R.T. 0.000 min

Lab File: VL042359.D

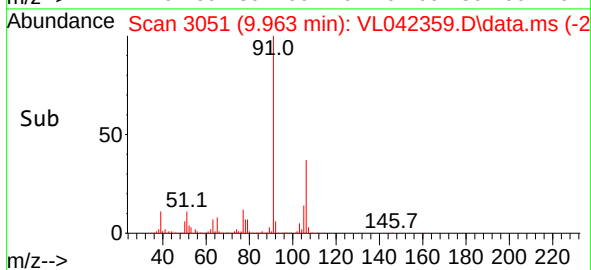
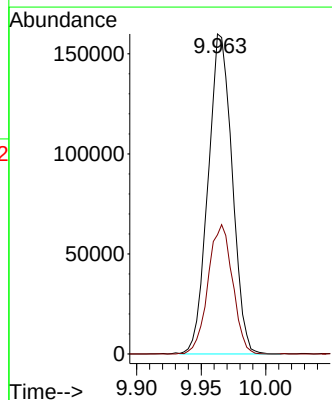
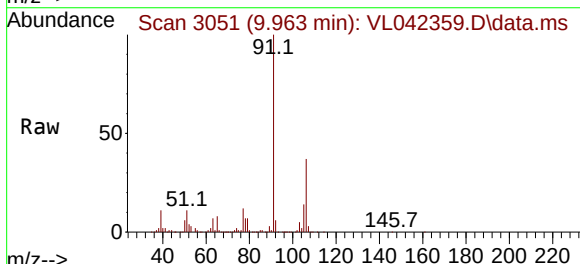
Acq: 17 Apr 2025 16:12

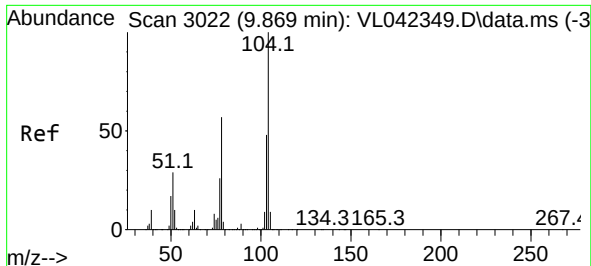
Tgt Ion: 91 Resp: 207265

Ion Ratio Lower Upper

91 100

106 41.1 21.1 63.4

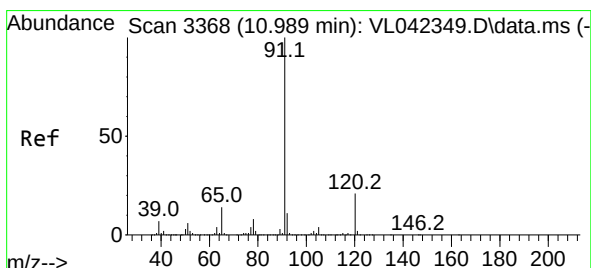
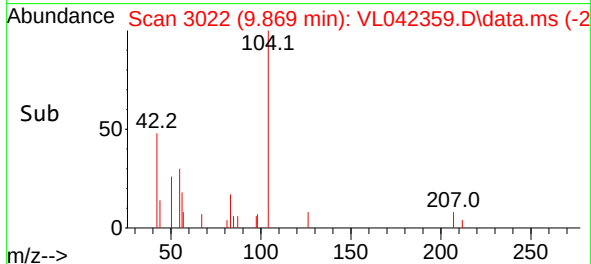
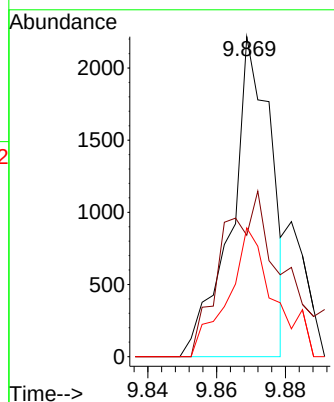
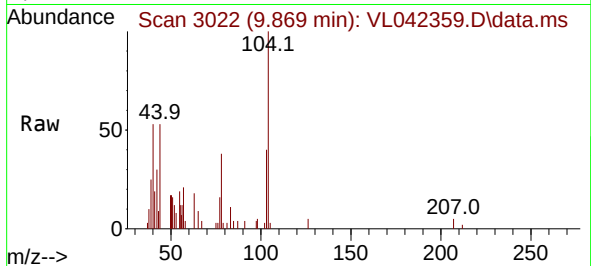




#61
Styrene
Concen: 0.073 ppbv
RT: 9.869 min Scan# 3022
Delta R.T. 0.000 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

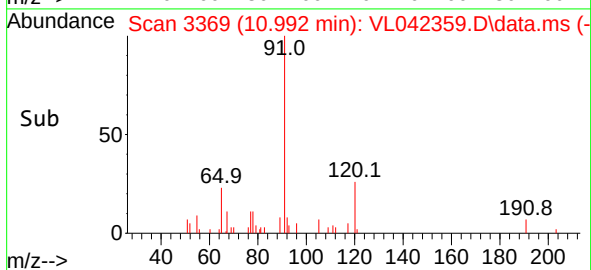
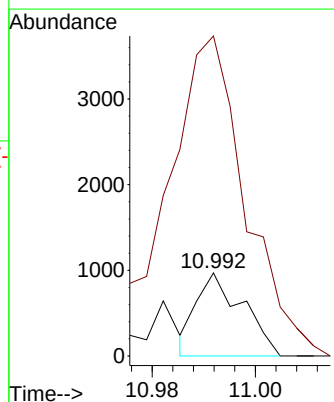
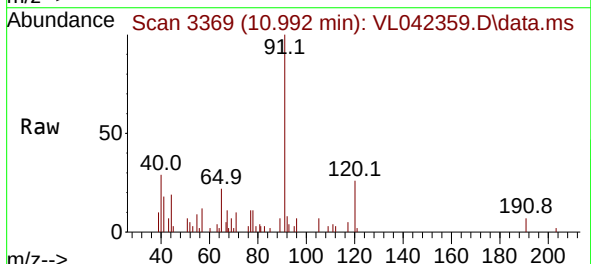
Instrument :
MSVOA_1
ClientSampleId :
IA-B14-1-3242025

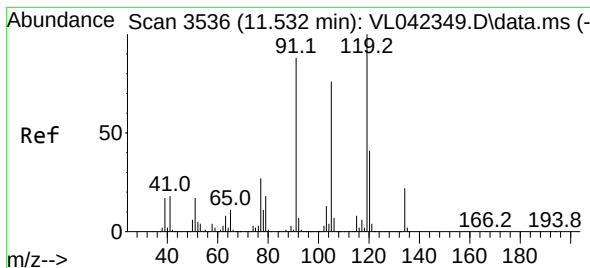
Tgt Ion:104 Resp: 1788
Ion Ratio Lower Upper
104 100
78 0.0 44.6 66.8#
103 0.0 37.4 56.0#



#64
n-propylbenzene
Concen: 0.032 ppbv
RT: 10.992 min Scan# 3369
Delta R.T. 0.003 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

Tgt Ion:120 Resp: 602
Ion Ratio Lower Upper
120 100
91 715.9 392.4 588.6#





#65

tert-Butylbenzene

Concen: 0.057 ppbv

RT: 11.536 min Scan# 3179

Delta R.T. 0.003 min

Lab File: VL042359.D

Acq: 17 Apr 2025 16:12

Instrument :

MSVOA_1

ClientSampleId :

IA-B14-1-3242025

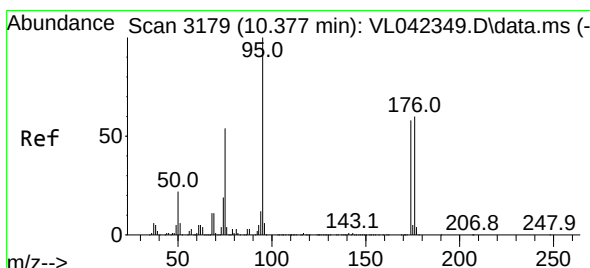
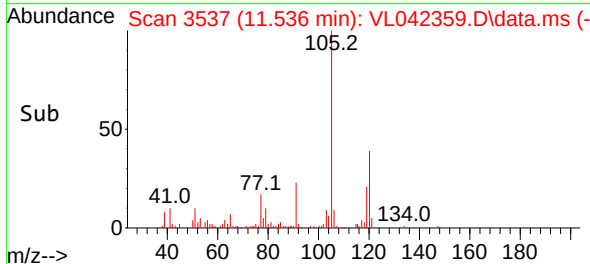
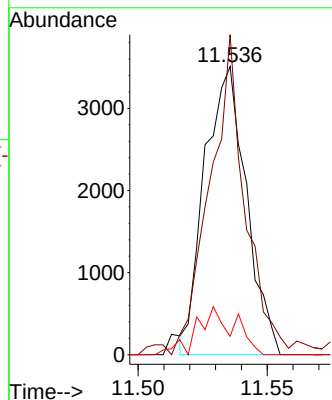
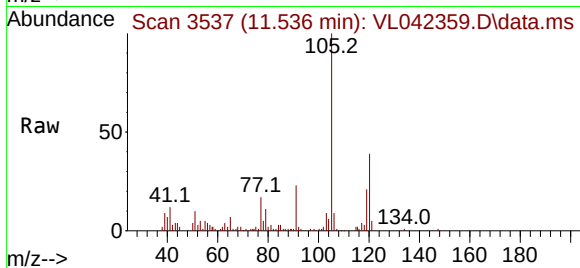
Tgt Ion:119 Resp: 3938

Ion Ratio Lower Upper

119 100

91 98.7 74.6 111.8

134 15.2 18.8 28.2#



#68

1-Bromo-4-Fluorobenzene

Concen: 10.142 ppbv

RT: 10.377 min Scan# 3179

Delta R.T. 0.000 min

Lab File: VL042359.D

Acq: 17 Apr 2025 16:12

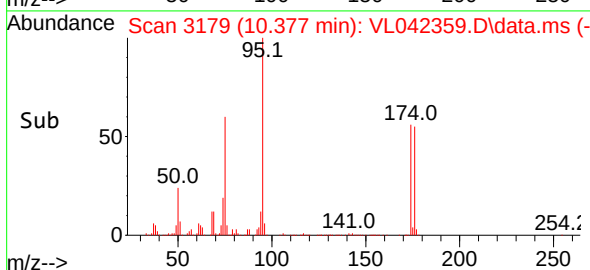
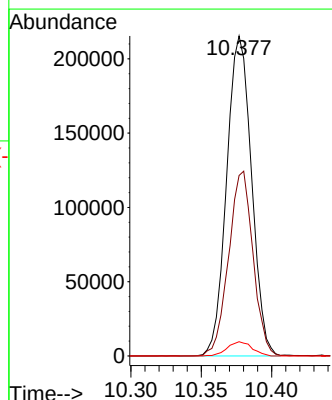
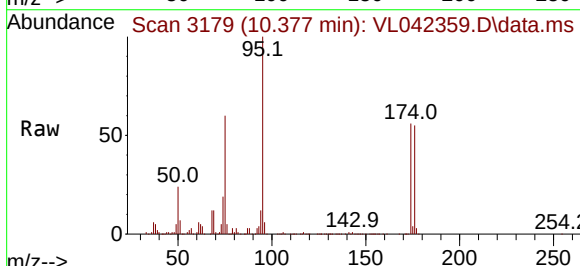
Tgt Ion: 95 Resp: 265265

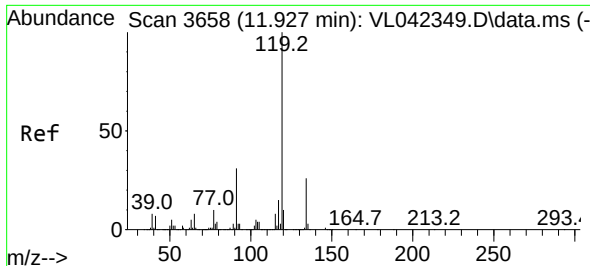
Ion Ratio Lower Upper

95 100

174 56.8 48.5 72.7

175 4.4 3.7 5.5

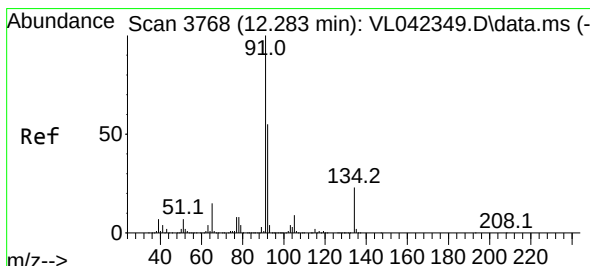
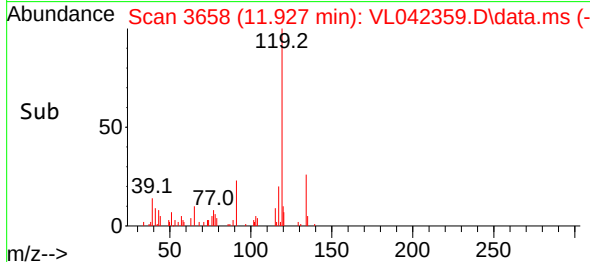
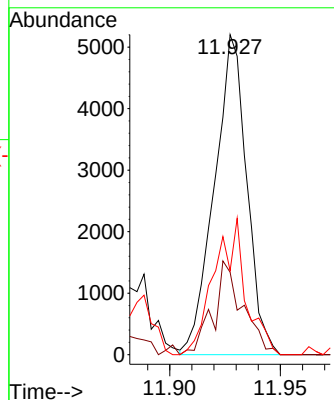
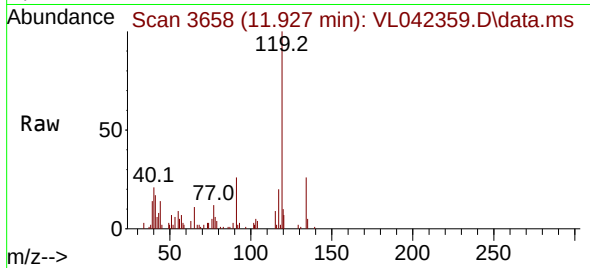




#69
p-Isopropyltoluene
Concen: 0.063 ppbv
RT: 11.927 min Scan# 3658
Delta R.T. 0.000 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

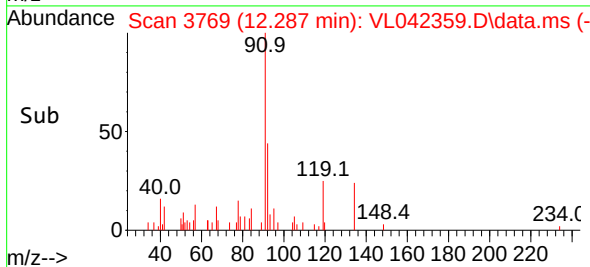
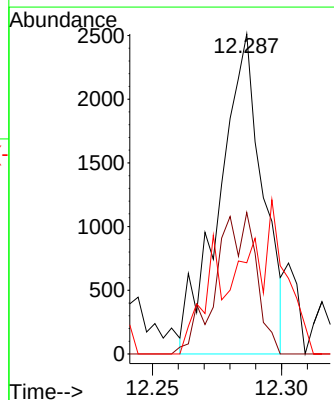
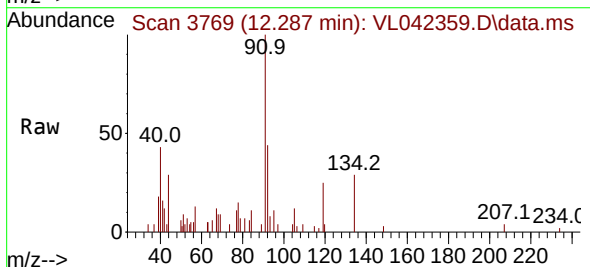
Instrument :
MSVOA_1
ClientSampleId :
IA-B14-1-3242025

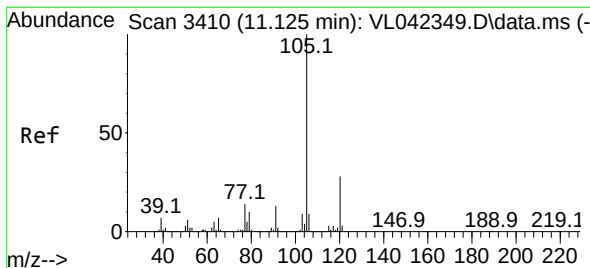
Tgt Ion:119	Resp:	5290
Ion Ratio	Lower	Upper
119	100	
134	26.7	20.0 30.0
91	42.6	24.4 36.6#



#70
n-Butylbenzene
Concen: 0.034 ppbv
RT: 12.287 min Scan# 3769
Delta R.T. 0.003 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

Tgt Ion: 91	Resp:	2923
Ion Ratio	Lower	Upper
91	100	
92	41.2	44.2 66.4#
134	0.0	18.2 27.4#

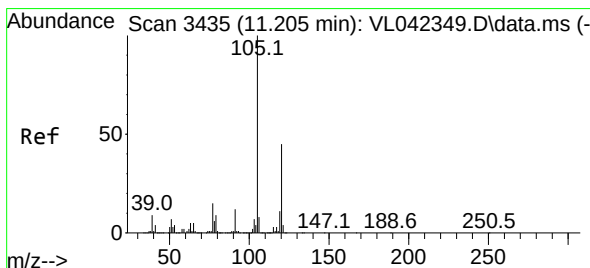
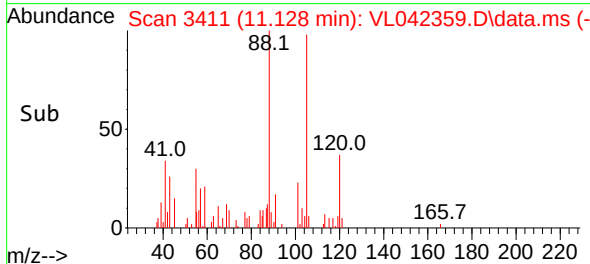
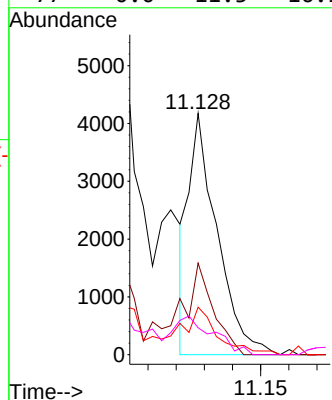
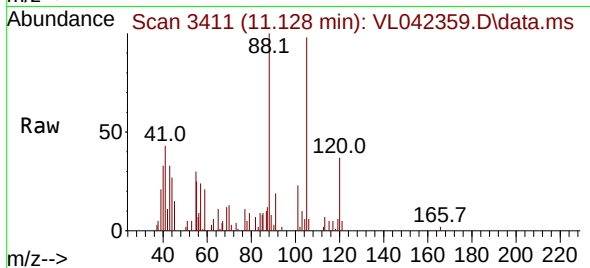




#72
4-Ethyltoluene
Concen: 0.047 ppbv
RT: 11.128 min Scan# 3410
Delta R.T. 0.003 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

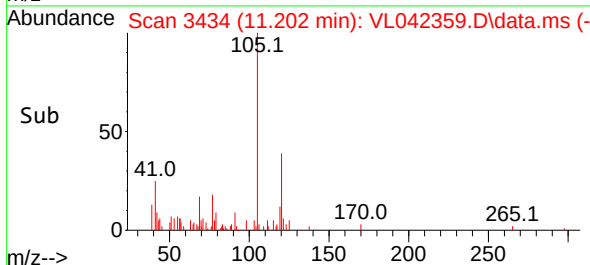
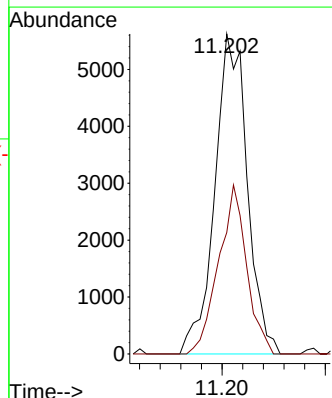
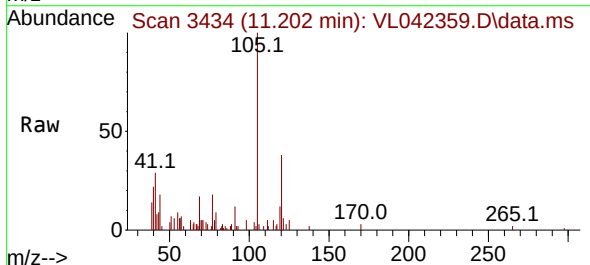
Instrument :
MSVOA_L
ClientSampleId :
IA-B14-1-3242025

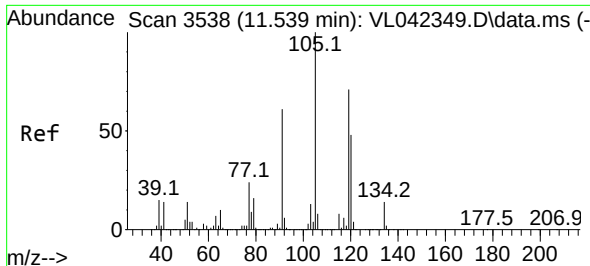
Tgt Ion:105	Resp:	2922
Ion Ratio	Lower	Upper
105	100	
120	0.0	23.2 34.8#
91	0.0	10.4 15.6#
77	0.0	11.3 16.9#



#73
1,3,5-Trimethylbenzene
Concen: 0.111 ppbv
RT: 11.202 min Scan# 3434
Delta R.T. -0.003 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

Tgt Ion:105	Resp:	6133
Ion Ratio	Lower	Upper
105	100	
120	38.0	35.6 53.4

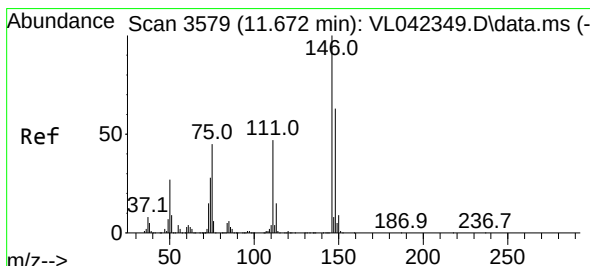
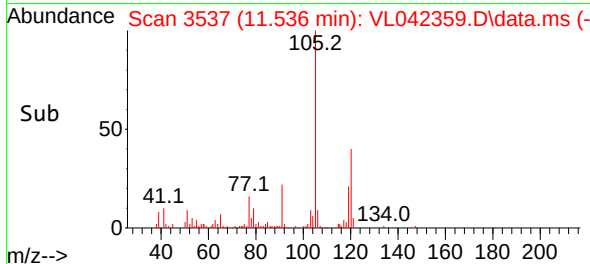
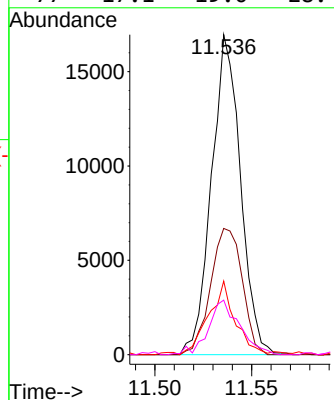
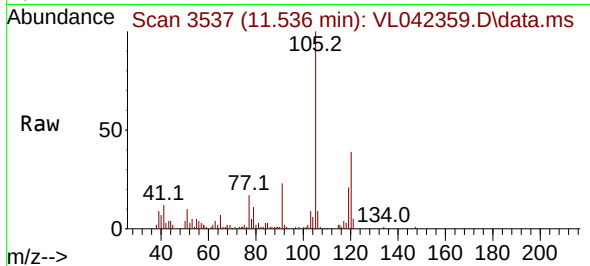




#74
1,2,4-Trimethylbenzene
Concen: 0.274 ppbv
RT: 11.536 min Scan# 31
Delta R.T. -0.003 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

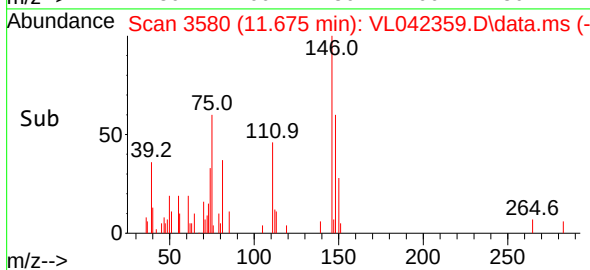
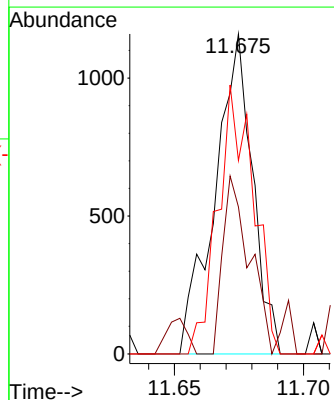
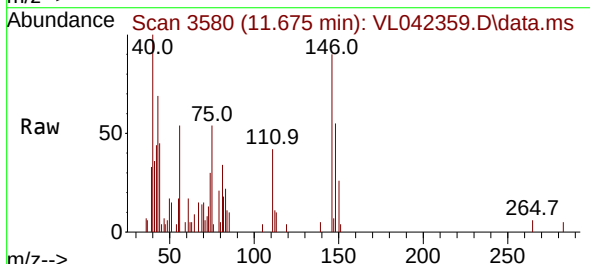
Instrument :
MSVOA_L
ClientSampleId :
IA-B14-1-3242025

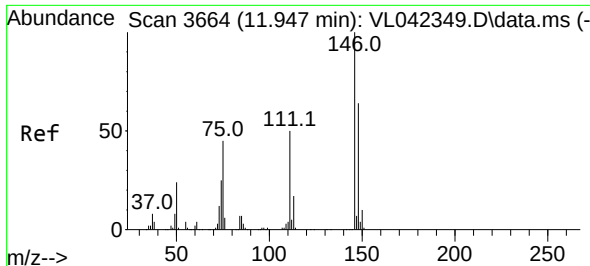
Tgt Ion:	105	Resp:	17646
Ion	Ratio	Lower	Upper
105	100		
120	39.5	38.1	57.1
91	23.0	48.8	73.2#
77	17.1	19.0	28.4#



#76
1,4-Dichlorobenzene
Concen: 0.035 ppbv
RT: 11.675 min Scan# 3580
Delta R.T. 0.003 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

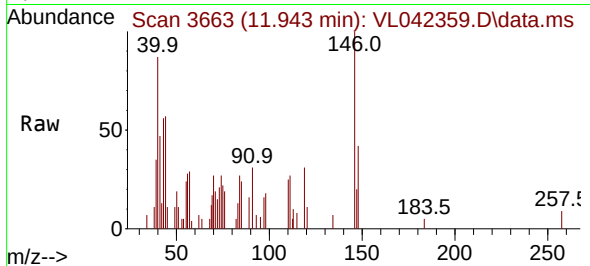
Tgt Ion:	146	Resp:	1179
Ion	Ratio	Lower	Upper
146	100		
111	50.0	24.2	72.6
148	86.9	32.1	96.5



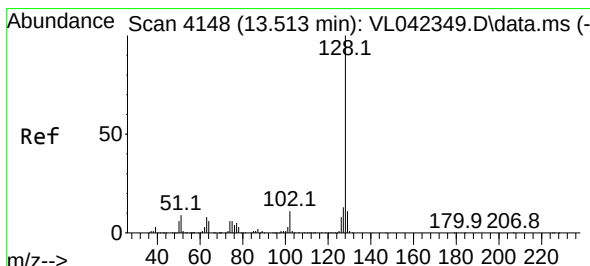
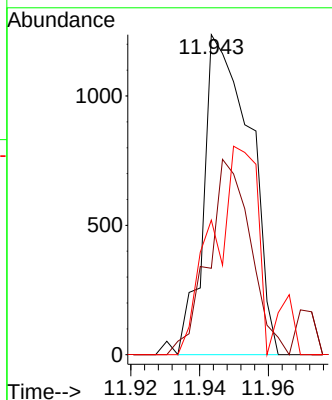
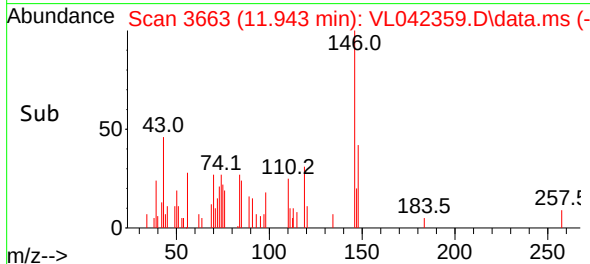


#77
1,2-Dichlorobenzene
Concen: 0.035 ppbv
RT: 11.943 min Scan# 3663
Delta R.T. -0.003 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

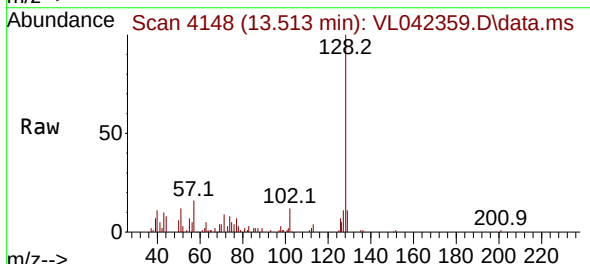
Instrument :
MSVOA_1
ClientSampleId :
IA-B14-1-3242025



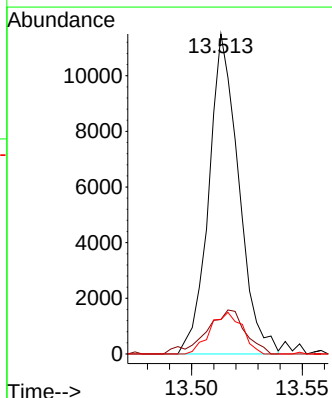
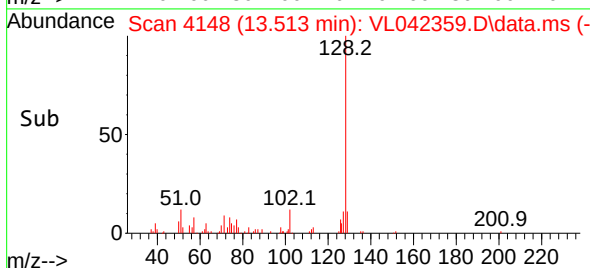
Tgt Ion:	146	Resp:	1149
Ion	Ratio	Lower	Upper
146	100		
111	65.6	25.3	75.9
148	69.1	31.5	94.5

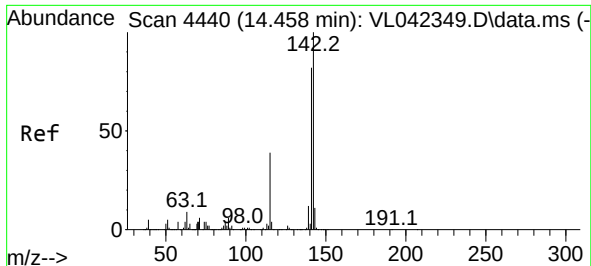


#79
Naphthalene
Concen: 0.140 ppbv
RT: 13.513 min Scan# 4148
Delta R.T. 0.000 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12



Tgt Ion:	128	Resp:	10816
Ion	Ratio	Lower	Upper
128	100		
127	10.8	10.6	15.8
129	10.8	8.6	12.8

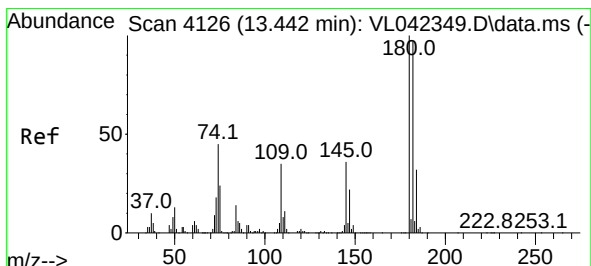
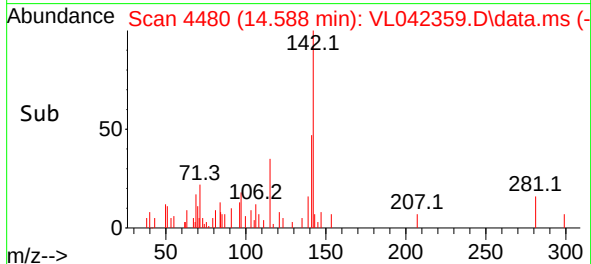
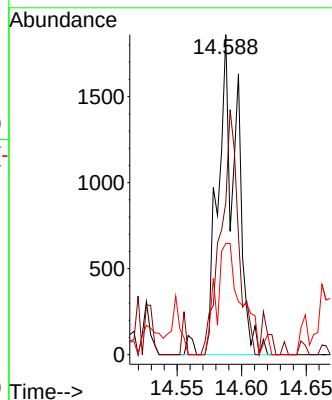
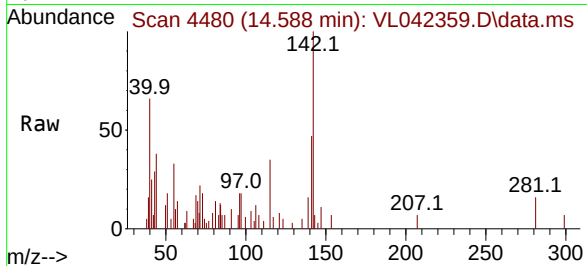




#80
Naphthalene, 2-methyl-
Concen: 0.043 ppbv
RT: 14.588 min Scan# 4440
Delta R.T. 0.129 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

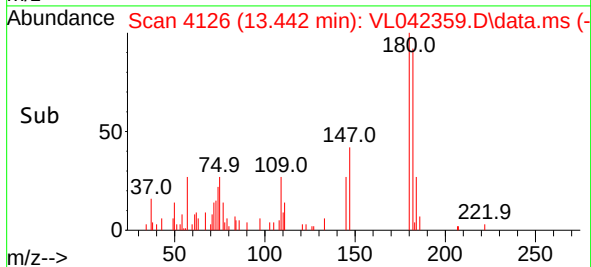
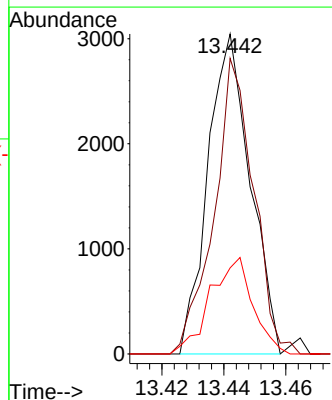
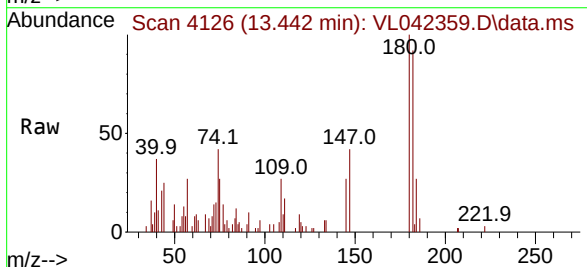
Instrument :
MSVOA_1
ClientSampleId :
IA-B14-1-3242025

Tgt Ion:	142	Resp:	1898
Ion Ratio	Lower	Upper	
142	100		
141	76.4	66.8	100.2
115	46.7	33.4	50.2



#81
1,2,4-Trichlorobenzene
Concen: 0.087 ppbv
RT: 13.442 min Scan# 4126
Delta R.T. 0.000 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

Tgt Ion:	180	Resp:	2886
Ion Ratio	Lower	Upper	
180	100		
182	86.5	76.8	115.2
184	30.4	24.6	36.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042360.D
 Acq On : 17 Apr 2025 16:44
 Operator : SY/MD
 Sample : Q1665-15DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B14-1-3242025DL

Quant Time: Apr 18 02:38:31 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)

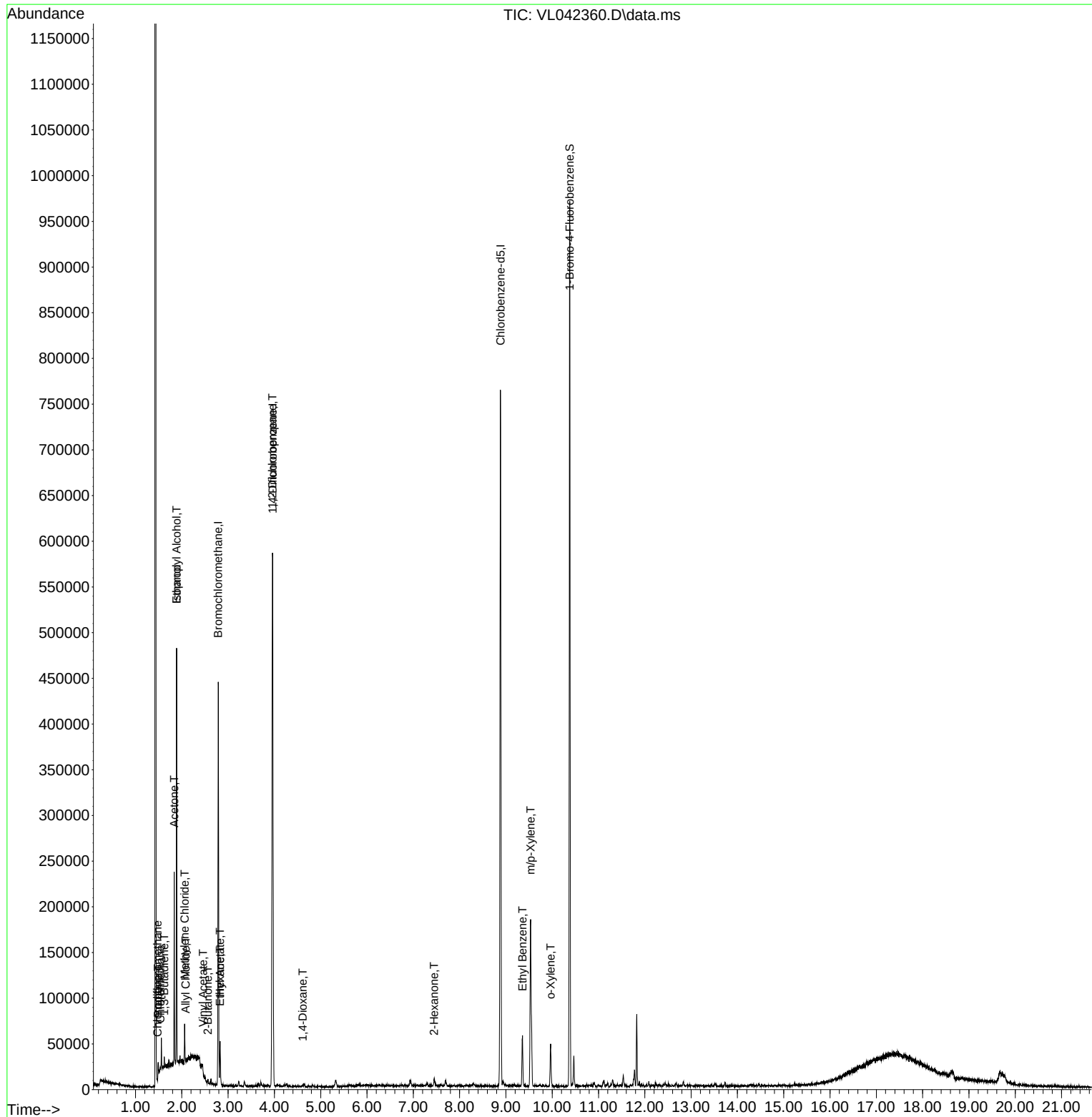
Internal Standards							
1) Bromochloromethane		2.787	49	121918	10.000	ppbv	0.00
33) 1,4-Difluorobenzene		3.962	114	347081	10.000	ppbv	0.00
55) Chlorobenzene-d5		8.882	117	308280	10.000	ppbv	0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene		10.377	95	259047	10.226	ppbv	0.00
Spiked Amount		10.000	Range 65 - 135		Recovery	= 102.300%	
Target Compounds							
							Qvalue
3) Chlorodifluoromethane		1.476	51	1686	0.082	ppbv #	88
4) Chloromethane		1.535	50	771	0.090	ppbv #	65
9) Propene		1.489	41	2087	0.223	ppbv	85
13) Ethanol		1.887	45	188363	126.866	ppbv #	24
15) Acetone		1.836	43	84869	4.252	ppbv	100
16) 1,3-Butadiene		1.619	39	934	0.098	ppbv #	9
19) Isopropyl Alcohol		1.887	45	188363	16.989	ppbv #	52
20) Methylene Chloride		2.062	84	5840	0.747	ppbv #	59
21) Allyl Chloride		2.085	41	610	0.044	ppbv #	1
23) Vinyl Acetate		2.460	43	887	0.110	ppbv #	1
25) Ethyl Acetate		2.823	43	7846	0.159	ppbv #	77
26) Hexane		2.826	57	10934	0.549	ppbv #	34
34) 2-Butanone		2.564	43	2970	0.108	ppbv	91
39) 1,2-Dichloropropane		3.959	63	93853	6.728	ppbv #	21
40) 1,4-Dioxane		4.613	88	360	0.047	ppbv #	1
51) 2-Hexanone		7.448	43	5539	0.135	ppbv #	96
58) Ethyl Benzene		9.358	91	30946	0.507	ppbv	93
59) m/p-Xylene		9.532	91	89850	1.826	ppbv #	86
60) o-Xylene		9.966	91	20222	0.408	ppbv	97

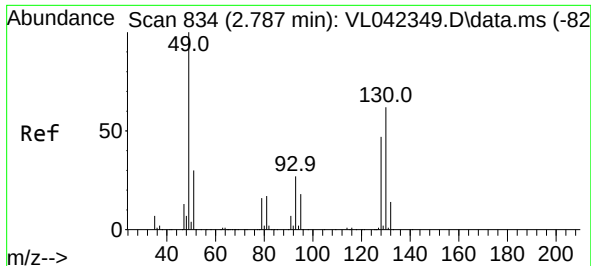
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042360.D
Acq On : 17 Apr 2025 16:44
Operator : SY/MD
Sample : Q1665-15DL 10X
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B14-1-3242025DL

Quant Time: Apr 18 02:38:31 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

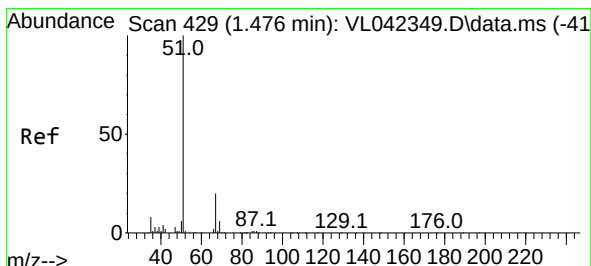
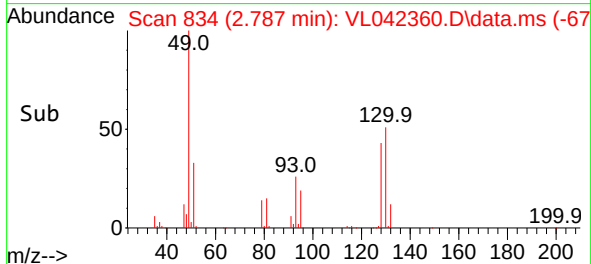
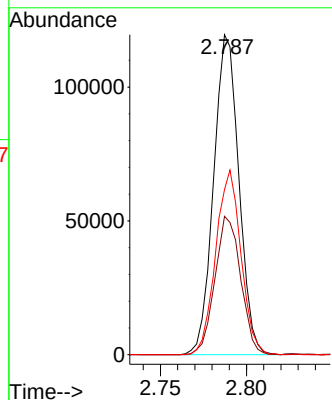
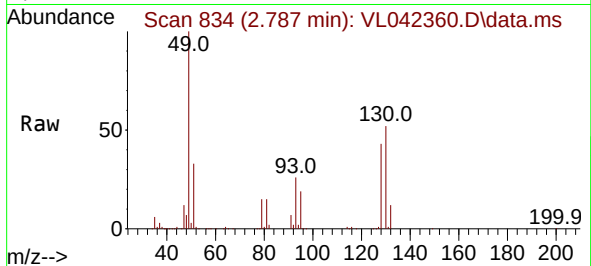




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 834
Delta R.T. 0.000 min
Lab File: VL042360.D
Acq: 17 Apr 2025 16:44

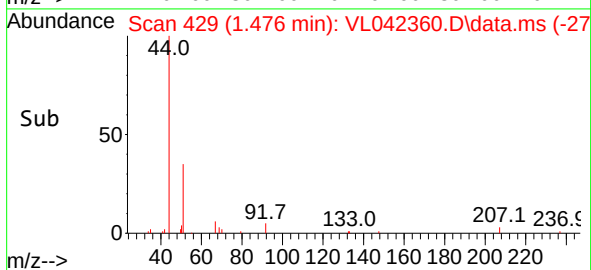
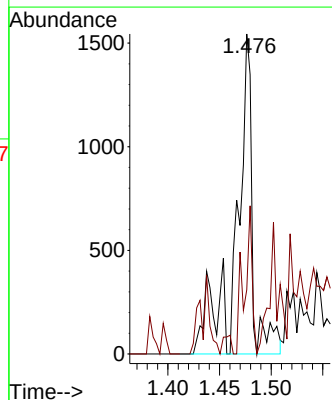
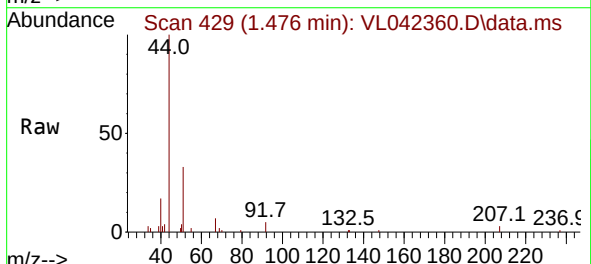
Instrument :
MSVOA_L
ClientSampleId :
IA-B14-1-3242025DL

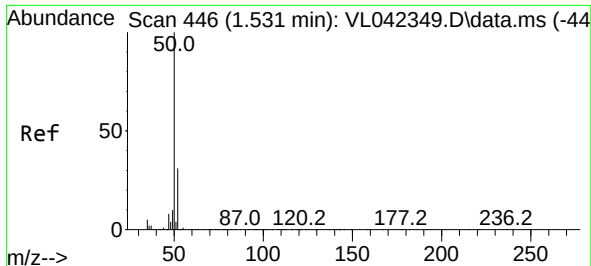
Tgt Ion: 49 Resp: 121918
Ion Ratio Lower Upper
49 100
128 44.1 22.8 68.4
130 57.9 29.3 88.0



#3
Chlorodifluoromethane
Concen: 0.082 ppbv
RT: 1.476 min Scan# 429
Delta R.T. 0.000 min
Lab File: VL042360.D
Acq: 17 Apr 2025 16:44

Tgt Ion: 51 Resp: 1686
Ion Ratio Lower Upper
51 100
67 25.6 16.2 24.4#

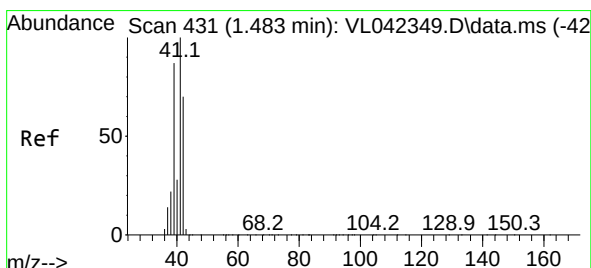
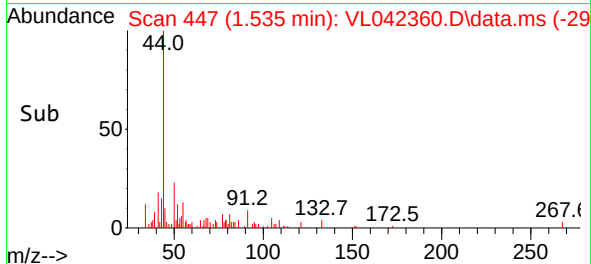
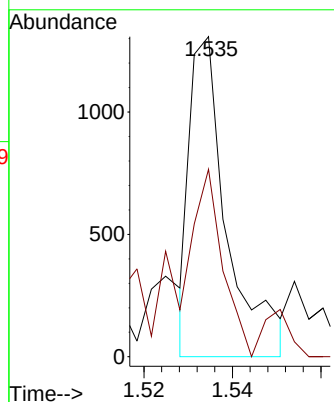
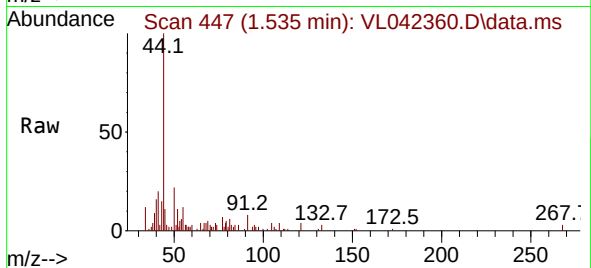




#4
Chloromethane
Concen: 0.090 ppbv
RT: 1.535 min Scan# 446
Delta R.T. 0.003 min
Lab File: VL042360.D
Acq: 17 Apr 2025 16:44

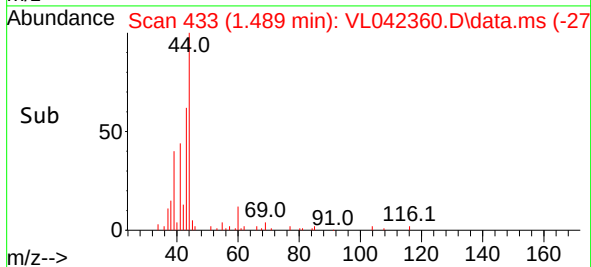
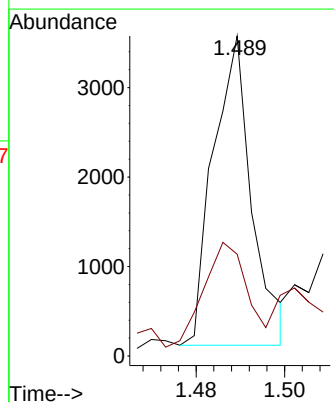
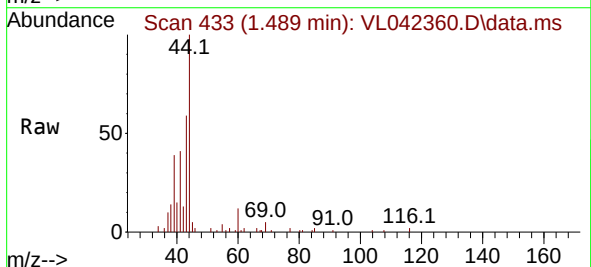
Instrument :
MSVOA_L
ClientSampleId :
IA-B14-1-3242025DL

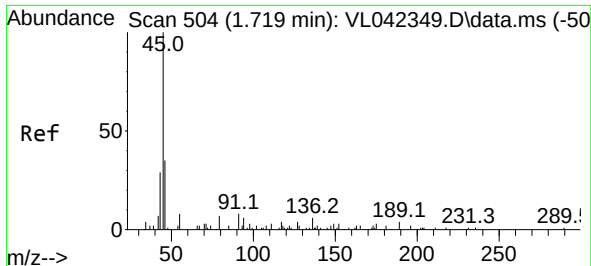
Tgt Ion: 50 Resp: 771
Ion Ratio Lower Upper
50 100
52 49.9 24.7 37.1#



#9
Propene
Concen: 0.223 ppbv
RT: 1.489 min Scan# 433
Delta R.T. 0.007 min
Lab File: VL042360.D
Acq: 17 Apr 2025 16:44

Tgt Ion: 41 Resp: 2087
Ion Ratio Lower Upper
41 100
42 82.3 56.2 84.4





#13

Ethanol

Concen: 126.866 ppbv

RT: 1.887 min Scan# 51

Delta R.T. 0.169 min

Lab File: VL042360.D

Acq: 17 Apr 2025 16:44

Instrument :

MSVOA_L

ClientSampleId :

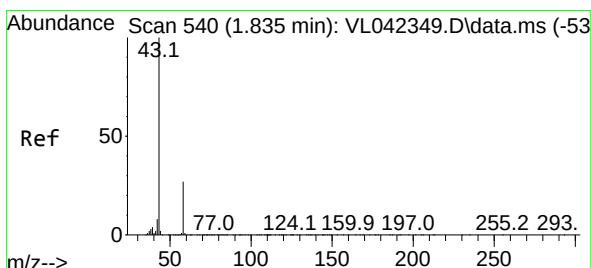
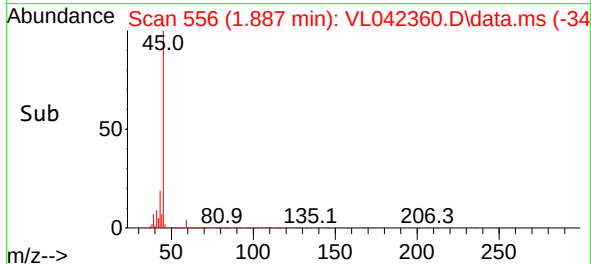
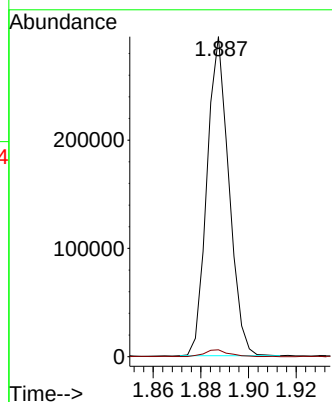
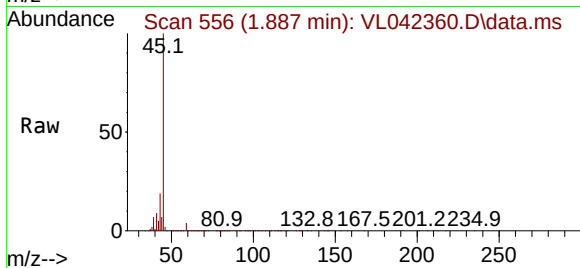
IA-B14-1-3242025DL

Tgt Ion: 45 Resp: 188363

Ion Ratio Lower Upper

45 100

46 0.0 21.9 87.7#



#15

Acetone

Concen: 4.252 ppbv

RT: 1.836 min Scan# 540

Delta R.T. 0.000 min

Lab File: VL042360.D

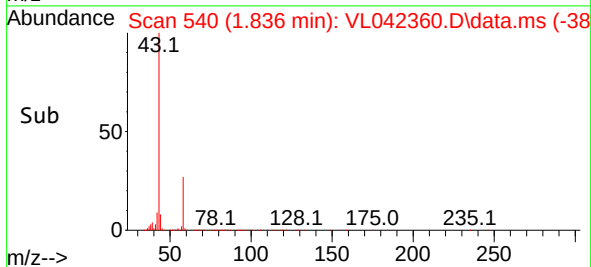
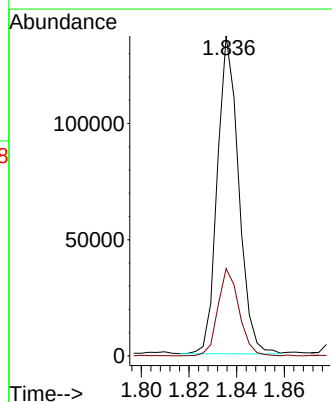
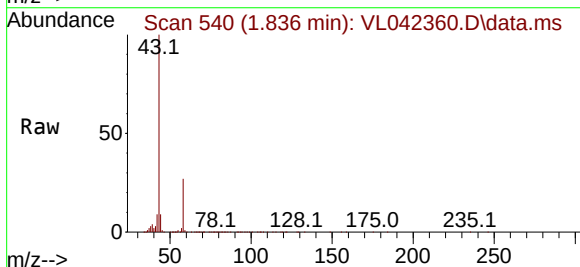
Acq: 17 Apr 2025 16:44

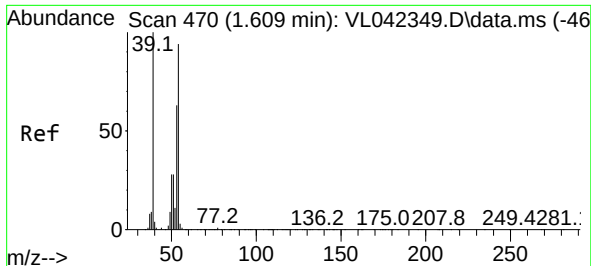
Tgt Ion: 43 Resp: 84869

Ion Ratio Lower Upper

43 100

58 27.8 22.4 33.6

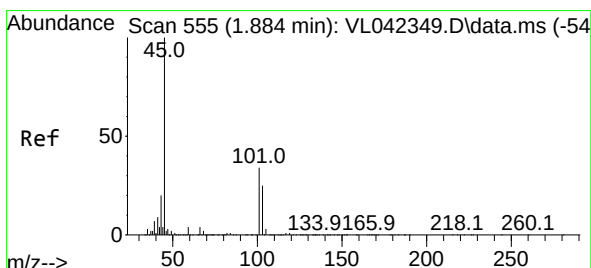
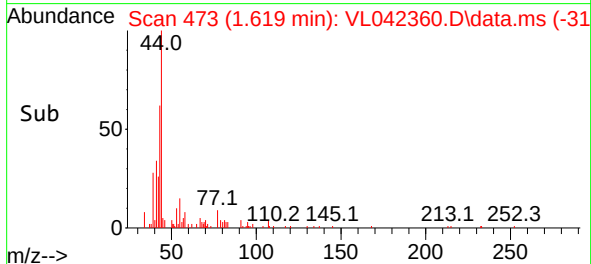
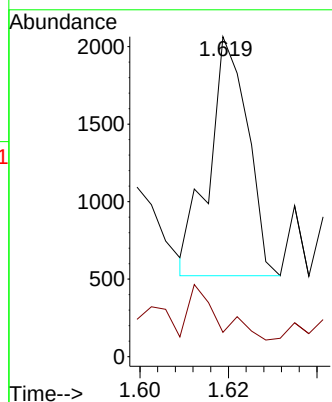
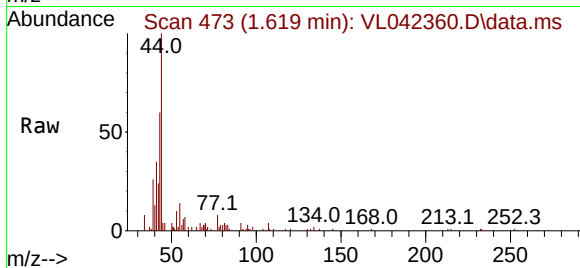




#16
1,3-Butadiene
Concen: 0.098 ppbv
RT: 1.619 min Scan# 41
Delta R.T. 0.010 min
Lab File: VL042360.D
Acq: 17 Apr 2025 16:44

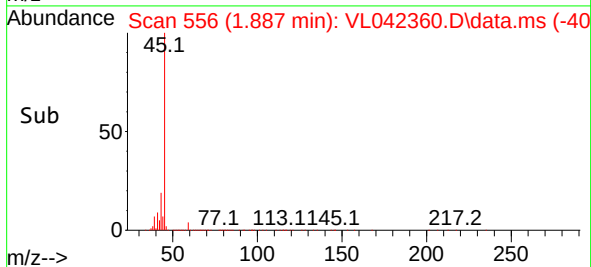
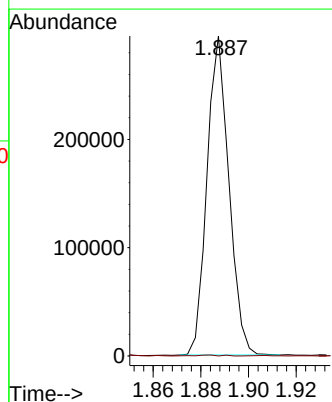
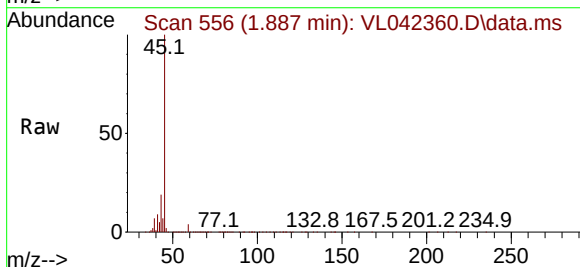
Instrument :
MSVOA_L
ClientSampleId :
IA-B14-1-3242025DL

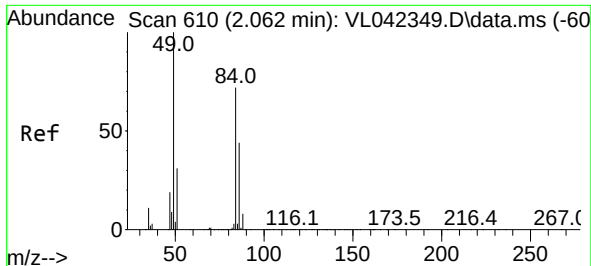
Tgt Ion: 39 Resp: 934
Ion Ratio Lower Upper
39 100
54 0.0 64.9 97.3#



#19
Isopropyl Alcohol
Concen: 16.989 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.003 min
Lab File: VL042360.D
Acq: 17 Apr 2025 16:44

Tgt Ion: 45 Resp: 188363
Ion Ratio Lower Upper
45 100
58 12.5 34.5 51.7#

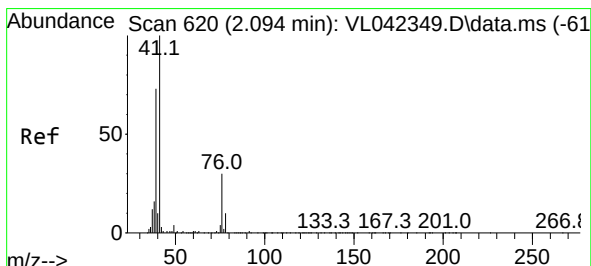
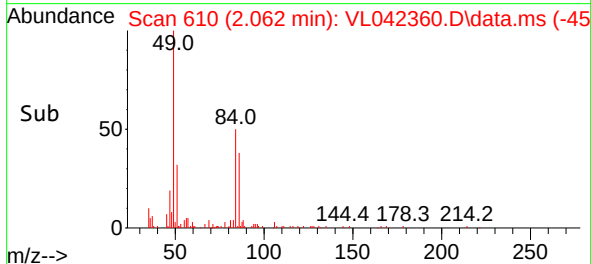
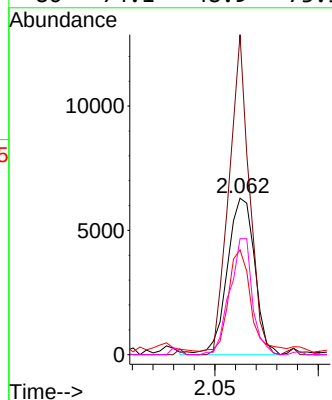
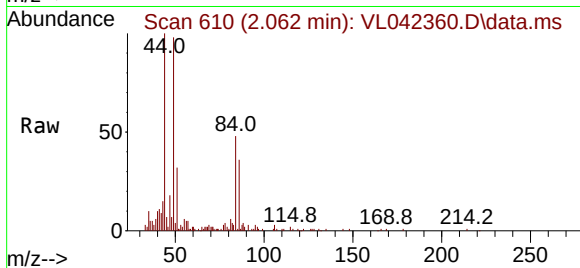




#20
Methylene Chloride
Concen: 0.747 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042360.D
Acq: 17 Apr 2025 16:44

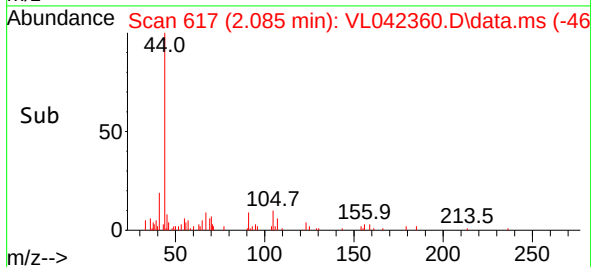
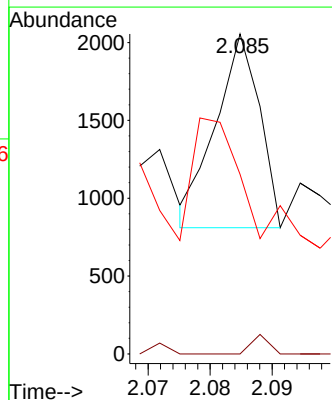
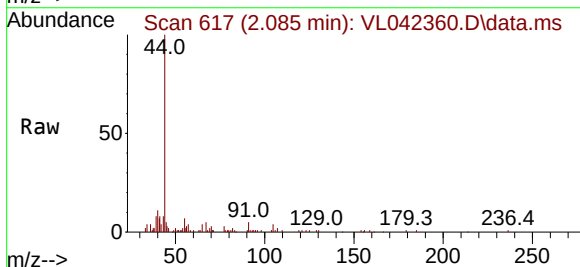
Instrument :
MSVOA_L
ClientSampleId :
IA-B14-1-3242025DL

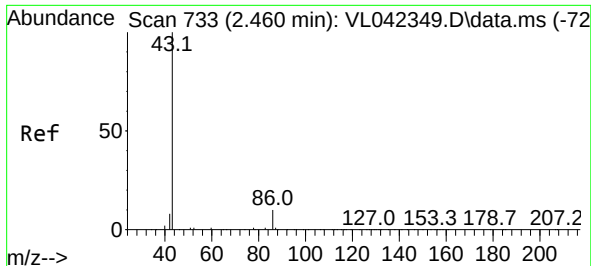
Tgt Ion:	84	Resp:	5840
Ion	Ratio	Lower	Upper
84	100		
49	204.5	111.6	167.4#
51	66.1	35.1	52.7#
86	74.1	48.9	73.3#



#21
Allyl Chloride
Concen: 0.044 ppbv
RT: 2.085 min Scan# 617
Delta R.T. -0.010 min
Lab File: VL042360.D
Acq: 17 Apr 2025 16:44

Tgt Ion:	41	Resp:	610
Ion	Ratio	Lower	Upper
41	100		
76	3.9	24.8	37.2#
39	190.5	60.6	90.8#

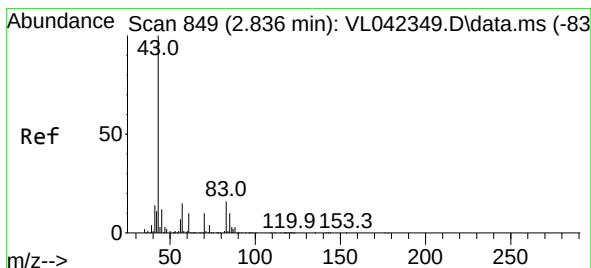
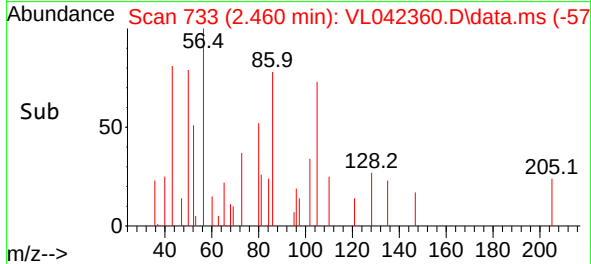
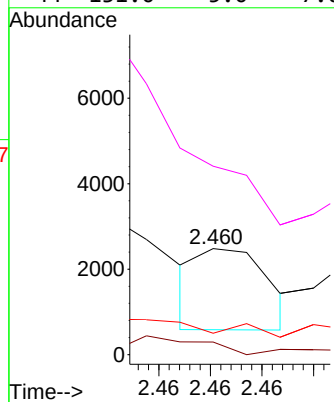
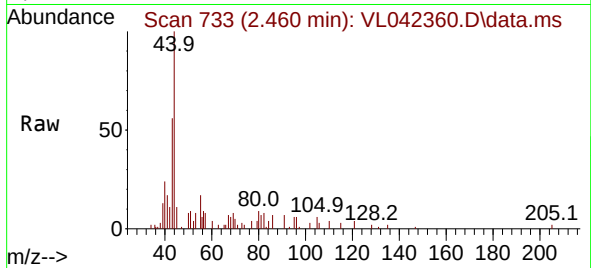




#23
Vinyl Acetate
Concen: 0.110 ppbv
RT: 2.460 min Scan# 71
Delta R.T. 0.000 min
Lab File: VL042360.D
Acq: 17 Apr 2025 16:44

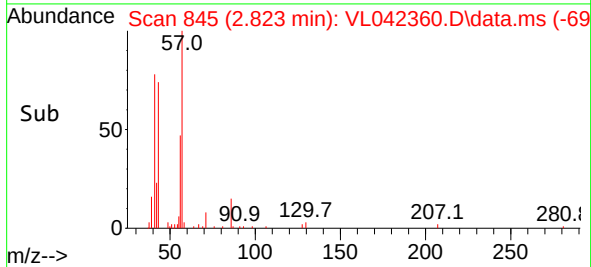
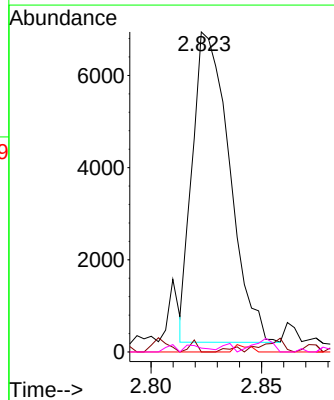
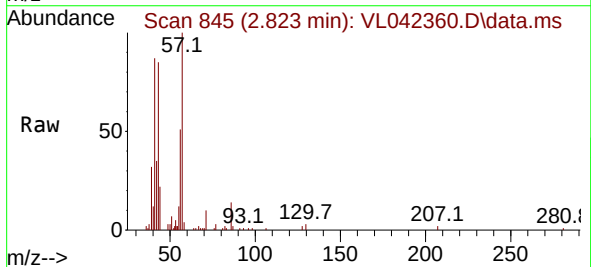
Instrument :
MSVOA_L
ClientSampleId :
IA-B14-1-3242025DL

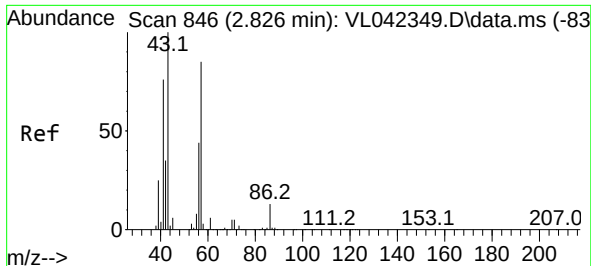
Tgt Ion:	43	Resp:	887
Ion	Ratio	Lower	Upper
43	100		
86	10.6	6.5	9.7#
42	9.0	7.8	11.8
44	131.0	5.0	7.6#



#25
Ethyl Acetate
Concen: 0.159 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.013 min
Lab File: VL042360.D
Acq: 17 Apr 2025 16:44

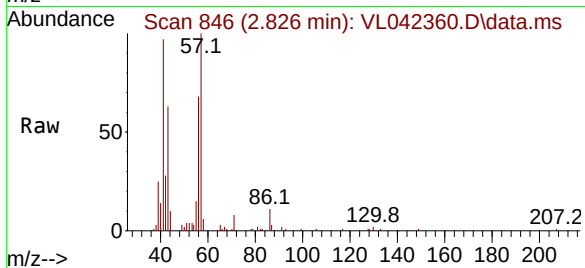
Tgt Ion:	43	Resp:	7846
Ion	Ratio	Lower	Upper
43	100		
45	0.0	8.3	12.5#
61	0.9	7.3	10.9#
70	2.7	7.0	10.6#



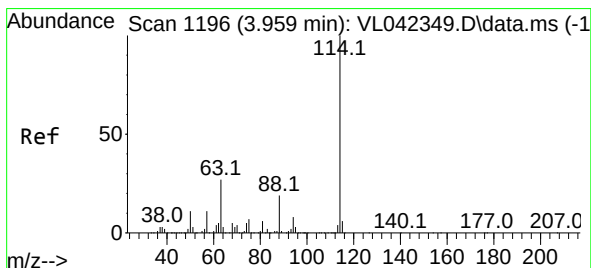
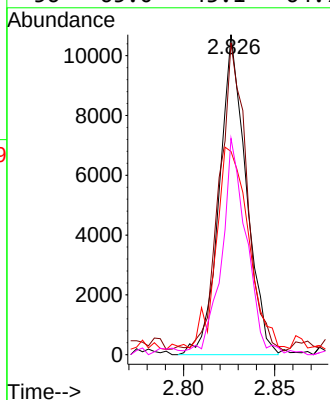
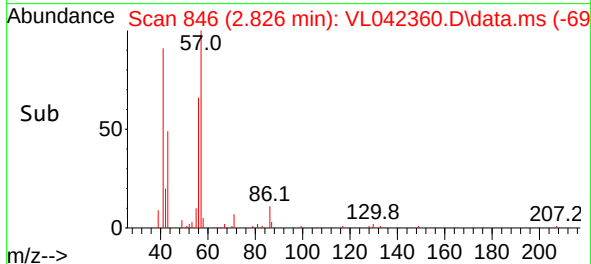


#26
Hexane
Concen: 0.549 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042360.D
Acq: 17 Apr 2025 16:44

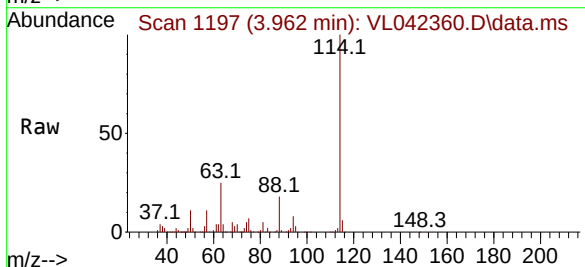
Instrument :
MSVOA_1
ClientSampleId :
IA-B14-1-3242025DL



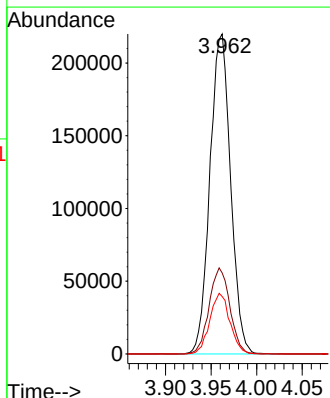
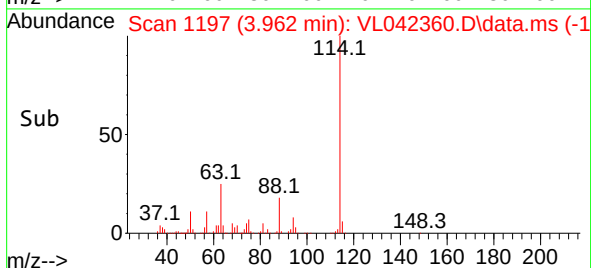
Tgt Ion: 57 Resp: 10934
Ion Ratio Lower Upper
57 100
41 97.0 77.9 116.9
43 80.3 208.4 312.6#
56 65.0 43.1 64.7#

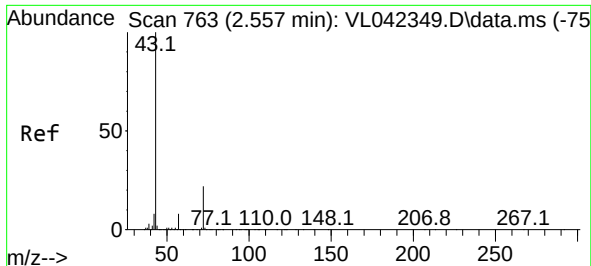


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. 0.003 min
Lab File: VL042360.D
Acq: 17 Apr 2025 16:44



Tgt Ion: 114 Resp: 347081
Ion Ratio Lower Upper
114 100
63 27.1 21.8 32.6
88 18.4 15.5 23.3

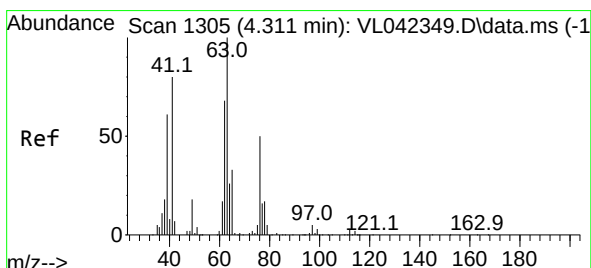
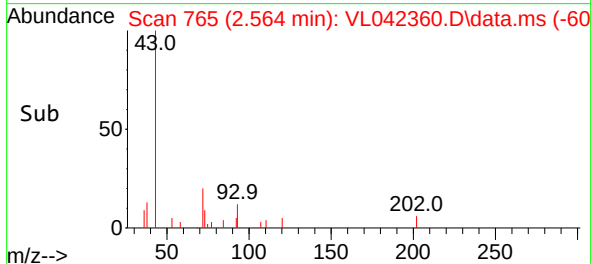
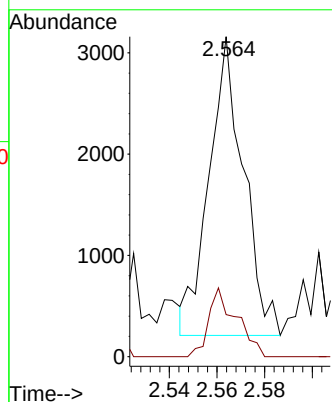
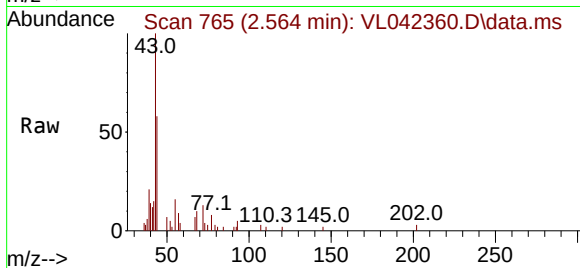




#34
2-Butanone
Concen: 0.108 ppbv
RT: 2.564 min Scan# 71
Delta R.T. 0.007 min
Lab File: VL042360.D
Acq: 17 Apr 2025 16:44

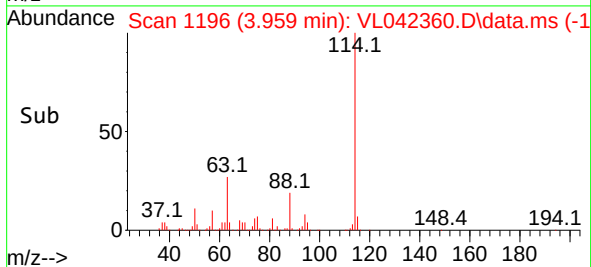
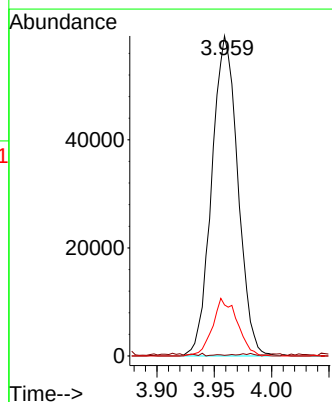
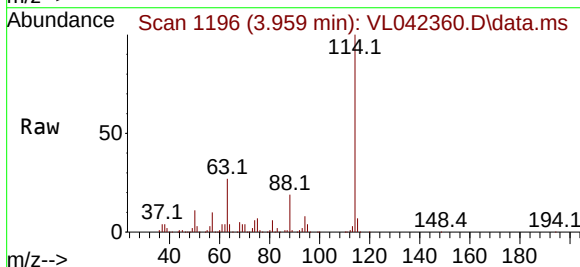
Instrument :
MSVOA_1
ClientSampleId :
IA-B14-1-3242025DL

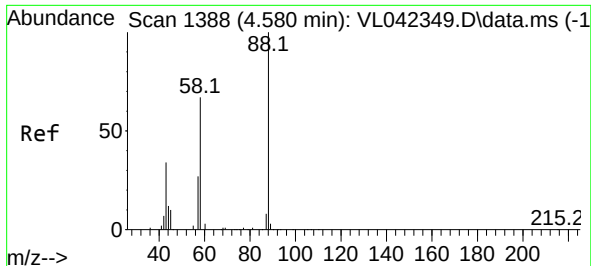
Tgt Ion: 43 Resp: 2970
Ion Ratio Lower Upper
43 100
72 18.6 18.2 27.2



#39
1,2-Dichloropropane
Concen: 6.728 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. -0.353 min
Lab File: VL042360.D
Acq: 17 Apr 2025 16:44

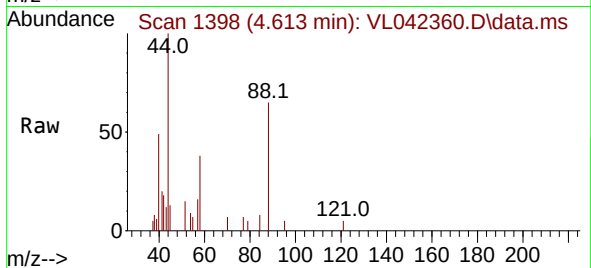
Tgt Ion: 63 Resp: 93853
Ion Ratio Lower Upper
63 100
41 0.0 64.2 96.2#
62 15.9 54.3 81.5#



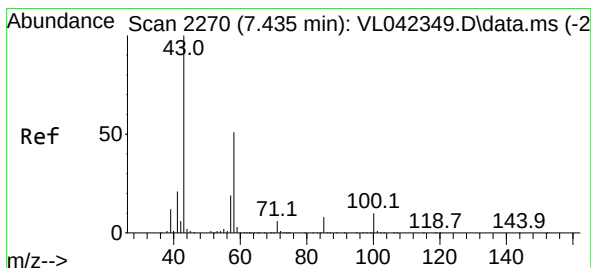
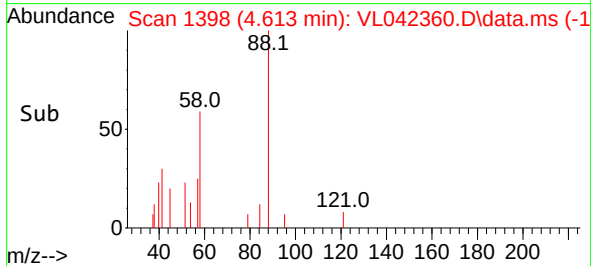
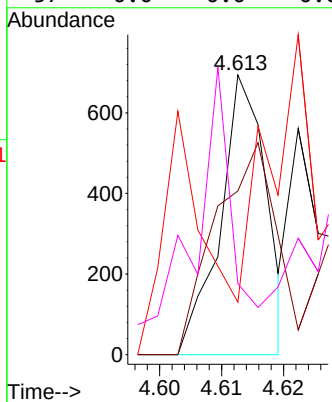


#40
1,4-Dioxane
Concen: 0.047 ppbv
RT: 4.613 min Scan# 11
Delta R.T. 0.033 min
Lab File: VL042360.D
Acq: 17 Apr 2025 16:44

Instrument :
MSVOA_L
ClientSampleId :
IA-B14-1-3242025DL

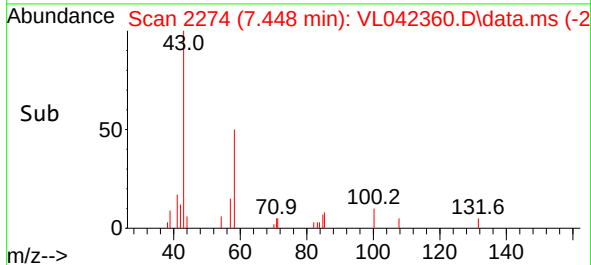
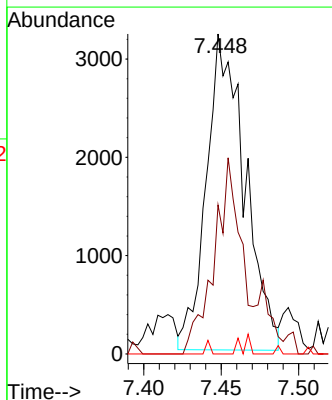
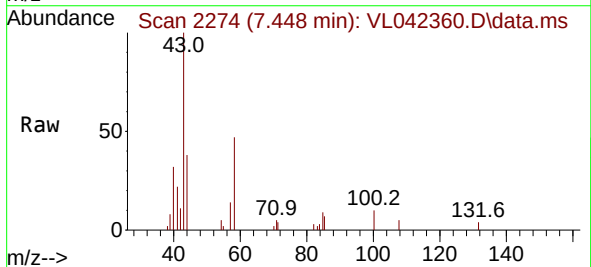


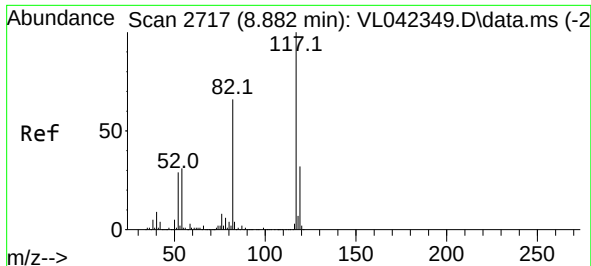
Tgt Ion: 88 Resp: 360
Ion Ratio Lower Upper
88 100
58 190.3 61.4 92.0#
43 135.3 23.2 34.8#
57 0.0 0.0 0.0



#51
2-Hexanone
Concen: 0.135 ppbv
RT: 7.448 min Scan# 2274
Delta R.T. 0.013 min
Lab File: VL042360.D
Acq: 17 Apr 2025 16:44

Tgt Ion: 43 Resp: 5539
Ion Ratio Lower Upper
43 100
58 53.1 40.2 60.4
98 0.0 0.1 0.1#

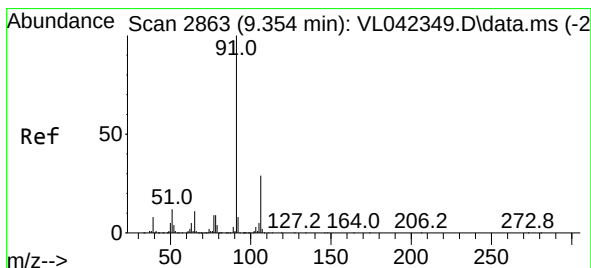
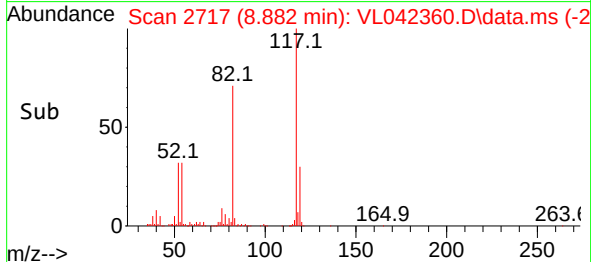
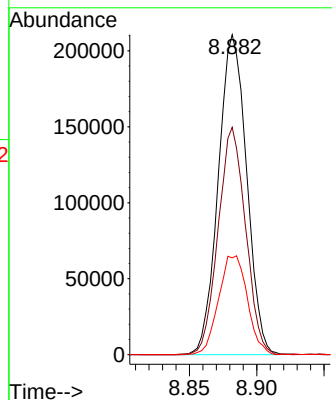
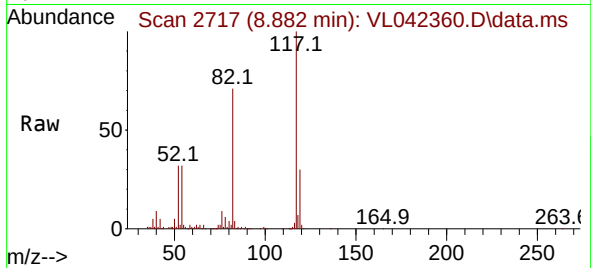




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042360.D
Acq: 17 Apr 2025 16:44

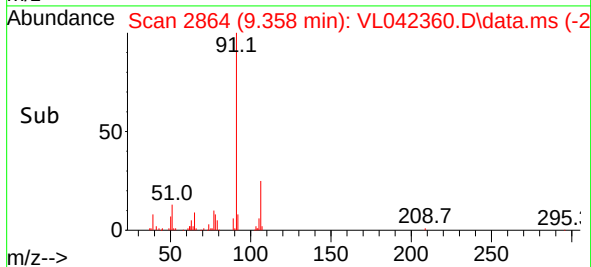
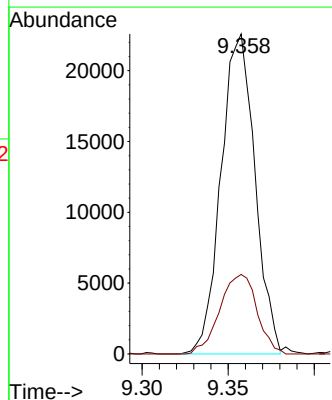
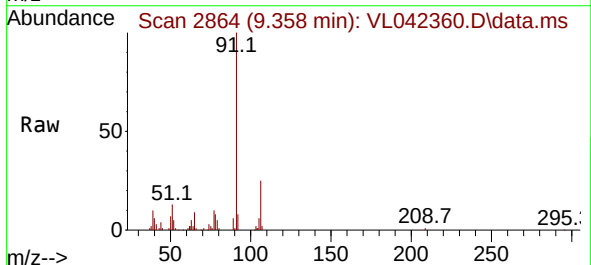
Instrument :
MSVOA_L
ClientSampleId :
IA-B14-1-3242025DL

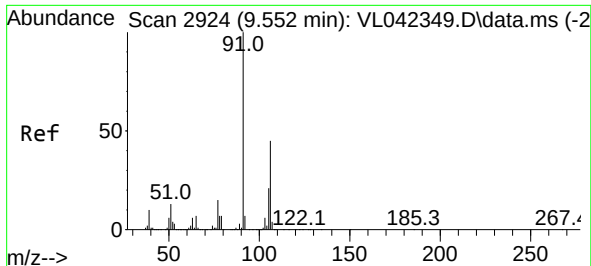
Tgt Ion:117 Resp: 308280
Ion Ratio Lower Upper
117 100
82 68.8 57.8 86.6
119 31.5 25.2 37.8



#58
Ethyl Benzene
Concen: 0.507 ppbv
RT: 9.358 min Scan# 2864
Delta R.T. 0.003 min
Lab File: VL042360.D
Acq: 17 Apr 2025 16:44

Tgt Ion: 91 Resp: 30946
Ion Ratio Lower Upper
91 100
106 24.8 23.0 34.4





#59

m/p-Xylene

Concen: 1.826 ppbv

RT: 9.532 min Scan# 2918

Delta R.T. -0.019 min

Lab File: VL042360.D

Acq: 17 Apr 2025 16:44

Instrument :

MSVOA_L

ClientSampleId :

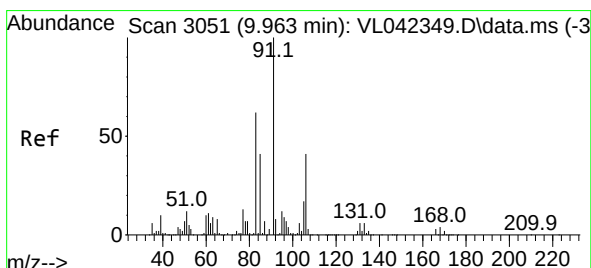
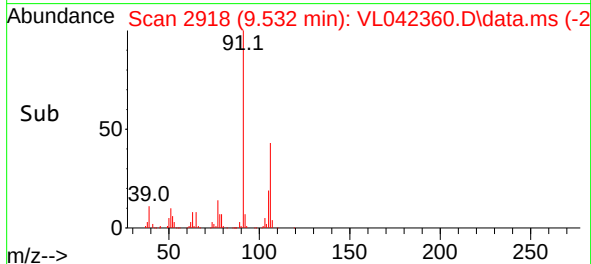
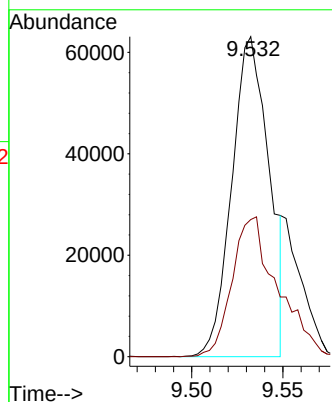
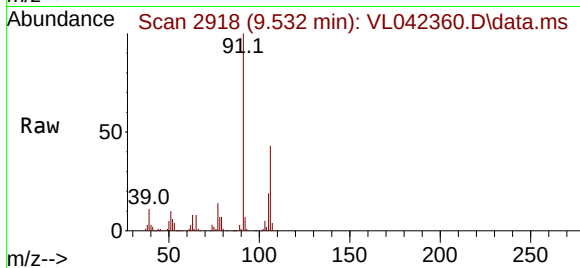
IA-B14-1-3242025DL

Tgt Ion: 91 Resp: 89850

Ion Ratio Lower Upper

91 100

106 53.4 35.4 53.2#



#60

o-Xylene

Concen: 0.408 ppbv

RT: 9.966 min Scan# 3052

Delta R.T. 0.003 min

Lab File: VL042360.D

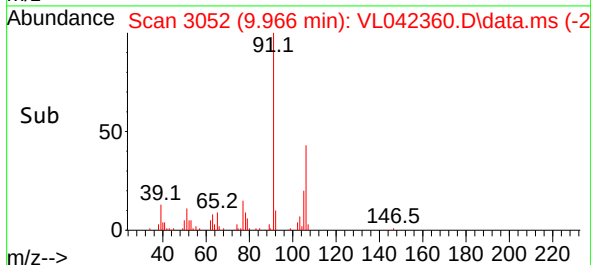
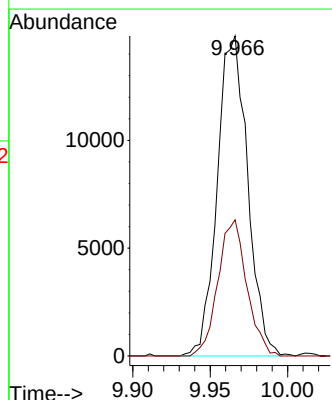
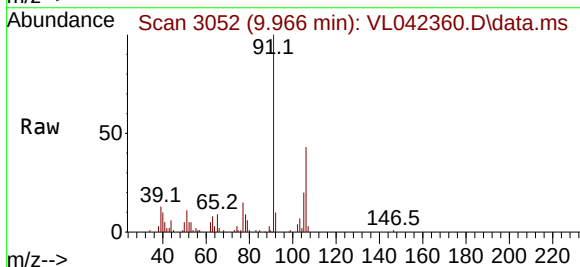
Acq: 17 Apr 2025 16:44

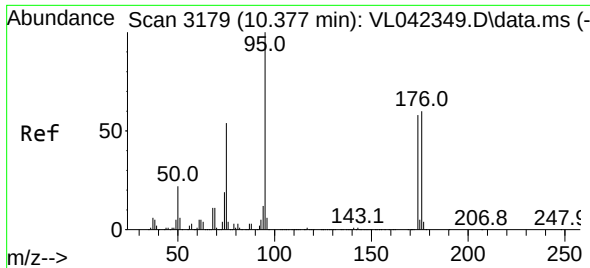
Tgt Ion: 91 Resp: 20222

Ion Ratio Lower Upper

91 100

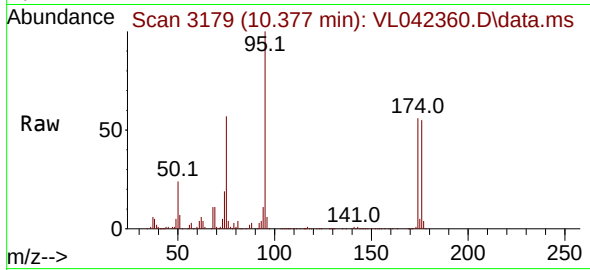
106 40.4 21.1 63.4





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.226 ppbv
 RT: 10.377 min Scan# 31
 Delta R.T. 0.000 min
 Lab File: VL042360.D
 Acq: 17 Apr 2025 16:44

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B14-1-3242025DL



Tgt Ion: 95 Resp: 259047

Ion	Ratio	Lower	Upper
95	100		
174	56.2	48.5	72.7
175	4.3	3.7	5.5

